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CHRONOLOGICAL LIST OF PATENTS DESTROYED IN THE FIRE OF 1835, AND NOT RESTORED.

Spooner, E.	June 25, 1799	Stuart, W. G.	Feb. 5, 1822	Boatright, J.	June 11, 1829
Smith, R.	May 19, 1800	Dutcher, J.	Feb. 12, 1822	Minturn, J.	June 11, 1829
Deaver, John.	July 12, 1804	Hawkins, G. M. and		Rhodes, J.	June 11, 1829
Peacock, D.	April 1, 1807	Emery, H.	Feb. 16, 1822	Brown, T.	Sept. 11, 1829
Vinton, S.	Nov. 18, 1807	Gill, C. A. and Jas.	Mar. 25, 1822	Ruder, R. and A. hley,	
Harris, H.	Feb. 24, 1808	Gibson, J.	May 2, 1822	S. D.	Oct. 21, 1829
Woodward, F.	July 18, 1809	Willis, Wm.	May 7, 1822	Cobb, I.	Dec. 7, 1829
Hall, S.	July 13, 1810	Carpenter, B.	July 1, 1822	Armstrong, A. D.	Jan. 5, 1830
Sanford, J.	Aug. 20, 1811	Lee, A.	July 22, 1822	Wilson, Samuel	Feb. 6, 1830
Turnbull, N.	Sept. 7, 1811	Wooley, J.	Sept. 14, 1822	Walker, R.	Mar. 10, 1830
Klay, J.	Jan. 11, 1812	Clute, P. J.	Nov. 16, 1822	Barnard, D.	Apr. 21, 1830
Tousley, R.	Jan. 11, 1812	Schoonmaker, J. J. and		Pawling, C.	May 21, 1830
Patrick, M.	Jan. 2, 1813	Dolson, J.	Dec. 7, 1822	Yager, J.	June 9, 1830
Seitz, J.	Feb. 8, 1813	Williams, Thos.	Dec. 19, 1822	Cobb, J. P.	Oct. 1, 1830
Tousley, S.	May 28, 1813	Rhodes, R.	Feb. 25, 1823	Mitchell, A.	Oct. 1, 1830
Murrey, M.	Aug. 7, 1813	Weaver, J.	May 8, 1823	Cline, Samuel,	Nov. 12, 1830
Pease, H.	Aug. 28, 1813	Nixon, Geo.	June 3, 1823	" " (R)	Oct. 15, 1836
Butler, J. and J.	Mar. 1, 1814	Hubbar, S. and Graves,		Anthony, J.	Feb. 1, 1831
Hill, C.	July 7, 1814	J.	June 21, 1823.	Miller, T.	Feb. 15, 1831
Hall, J.	Nov. 19, 1814	Hitchcock, D.	July 16, 1823	Peebles, A.	July 20, 1831
Wood, J.	July 1, 1814	Jones, D. H. and Rich-		Thacker, B. Jr.	July 20, 1831
Swann, J.	July 5, 1814	ardson, W. F.	July 29, 1823	Etheridge, N., Heath, G.	
Morgan, J. and Harris, J.		Beach, W.	Aug. 26, 1823	and Glynne, I. G.	July 23, 1831
B.	Oct. 11, 1814	Hackney, O.	Aug. 29, 1823	Savage, W. and Davison,	
Tousley, R. and Swann,		Pancoast, W. C.	Jan. 29, 1824	H.	Aug. 24, 1831
J.	Nov. 9, 1814	Stark, H.	Feb. 3, 1824	Black, W.	Oct. 4, 1831
Shultz, H.	Dec. 17, 1814	Austin, S.	Feb. 27, 1824	Carothers, J.	Dec. 10, 1831
Bean, Elisha.	Mar. 4, 1816	Beach, W.	Apr. 9, 1824	Whitias, Thos. A.	Jan. 14, 1832
Johnson, L.	Aug. 6, 1816	Altason, T.	Apr. 16, 1824	Woodcock, B.	Jan. 26, 1832
Cromwell, J.	Oct. 23, 1816	Swann, J.	Apr. 24, 1824	Ogle, J.	Feb. 28, 1832
Peacock, D.	May 29, 1817	Chase, D., Gregg, A.		Norton, Job B.	Apr. 27, 1832
Richmond, Jas.	June 28, 1817	and J.	Aug. 4, 1824	Crowl, Geo.	June 27, 1832
Lupton, J.	July 31, 1817	Gillet, N. Jr.	Sept. 24, 1824	Wolf, Geo.	June 27, 1832
Davis, G.	May 26, 1818	Spicer, A. Jr. and Tow-		Moore, John	Aug. 17, 1832
Ogle, S.	June 9, 1818	er, J.	Sept. 25, 1824	Palmer, Geo. W.	Aug. 17, 1832
Miller, P.	Oct. 26, 1818	Hunt, J. V.	Dec. 24, 1824	Beach, W.	Oct. 25, 1832
Goodrich, L. and Adams,		Ellington, G.	Dec. 25, 1824	Beach, W.	Dec. 28, 1832
J.	Dec. 3, 1818	Taylor, A.	Dec. 26, 1824	Hoffman, Moses	Dec. 28, 1832
Harrison, R. N.	Dec. 19, 1818	Avery, G. D.	Feb. 15, 1825	Brewster, F.	Jan. 24, 1833
Potts, Joseph.	Nov. 7, 1818	Rich John Jr.,	Feb. 10, 1825	Peachey, H.	Apr. 5, 1833
Tice, A. and J.	Aug. 21, 1819	Pettis, P.	Feb. 15, 1825	Speilham, H. and Mil-	
Miner, F.	Aug. 21, 1819	Whitman, S. W.	May 7, 1825	ler, D.	Mar. 25, 1833
Baltrope, John.	Sept. 20, 1819	Avery, G. D.	May 25, 1825	Donald, W. B.	June 29, 1833
Swartout, J.	Nov. 13, 1819	Richardson, W. F.	June 27, 1825	Donnell, Lewis	July 23, 1833
Marshall, P. and Smith,		Shephard, J.	Apr. 12, 1826	Delano, C.	July 5, 1833
J. B.	Mar. 3, 1820	Beach, W.	Apr. 13, 1826	Evans, G.	Sept. 18, 1833
Gibbs, G.	Mar. 8, 1820	Fairbanks, T.	Apr. 19, 1826	Carter, Thomas	Dec. 16, 1833
Jenkins, J. W.	July 6, 1820	Cocke, W.	Apr. 28, 1826	Sharp, Joseph P.	Dec. 20, 1833
Wright, J. L.	July 28, 1820	Holdridge, Z. S. and		Atward, W. and Hamblet,	
Stevens, R. L. aud E.		Lawson, H. S.	Aug. 9, 1826	D.	Dec. 24, 1833
A.	Sept. 13, 1820	Rhodes, R.	Feb. 20, 1827	Steeblar, David	Mar. 15, 1834
Wood, C. and Brundage,		Collins, S.	Feb. 22, 1827	Hussey, Benjamin	Apr. 1, 1834
G.	Nov. 9, 1820	Austin, S.	Feb. 27, 1827	Monford, John	Apr. 8, 1834
Seaven, J. and Fay, J.	Dec. 14, 1820	Cryer, N. G.	May 24, 1827	Prescott, Jos. T.	May 15, 1834
Wood, J.	Feb. 1, 1821	Carmichael, W.	July 28, 1827	Zook, S.	June 17, 1834
Stevens, R. L. and E.		Doffler, G.	Aug. 20, 1827	Jacobs, Jas.	July 8, 1834
A.	Apr. 23, 1821	Pugh, E.	Dec. 24, 1827	Peachy, Henry	July 25, 1834
Stevens, R. L. and E.		Wiard, W.	Jan. 26, 1828	Cromwell, Joseph	Oct. 9, 1834
A.	Apr. 23, 1821	Looveridge, R.	May 8, 1828	Ghormley, David	Feb. 13, 1835
King, G. J.	June 20, 1821	Howard, C.	Mar. 10, 1828	Hess, William	Mar. 27, 1835
Seeley, O.	Aug. 27, 1821	Deats, J.	Ayr. 26, 1828	Davis, D.	July 17, 1835
Falconer, Wm.	Sept. 13, 1821	Herbert, R.	Aug. 19, 1828	Holt, Wm.	Aug. 27, 1835
Phelps, O. and Moore-		Deakynne, J.	Nov. 18, 1828	Gray, Guy	Sept. 18, 1835
house, G.	Nov. 17, 1821	Staples, N.	Nov. 1, 1828	Tefft, J. S.	Oct. 17, 1835
Hitchcock, D.	Dec. 29, 1821	Gordon, John	Jan. 13, 1829	Sperry, Samuel A.	Oct. 27, 1835
Peacock, D.	Jan. 21, 1822				

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Axford, W.	79	54	" " (R)	513	320	Bergen, C.	461	291
Azbill, R. I.	475	295	Barton, A.	928	576	Bergen, C.	691	449
Babbitt, W. H.	924	575	Barton, W. L.	968	592	Berkstresser, E. L.	560	337
Babbitt, W. H.	927	576	Bass, E.	852	541	Bergstresser, H.	772	506
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Bacon, H.	1055	649	Batcheller, W. J. M.	344	210	" " " (R)	936	579
Bader, J. Sr.	864	546	Batcheller, A. F.	791	514	Bethune, J. H.	251	148
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Bagley, H.	444	276	Bates, F. L.	223	133	Beverly, J. W.	707	456
Bagnall, W.	878	551	Bates, I. S.	362	216	Bibb, W. C.	218	131
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Bailey, C. and Bagby, G. K.	223	133	Bates, C.	602	352	Bidwell, J. C.	610	355
Bailey, F. L.	357	214	Bates, L. M.	697	451	Bieker, F.	952	585
Baker, J. W.	129	80	Baucum, S. C.	819	525	Bier, J. W. and Wampler,		
Baker, H. F.	435	273	Baughman, S. P.	100	64	J. B.	1090	669
Baker, H. F.	442	275	Baughn, S. C.	875	550	Bigelow, D. P.	416	248
Baker, N.	498	315	Bazemore, W. T.	200	123	Bigelow, A.	1004	622
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Baldwin, J. L.	74	53	Beale, T.	374	229	Billups, C.	873	549
Baldwin, T. B.	88	58	Beall, Z. M.	1060	650	Billups, C.	874	549
Baldwin, P. O.	385	232	Beals, J. S.	113	74	Billups, C.	876	550
Bales, M.	431	271	Beals, J. S.	116	75	Bilz, I. A.	73	53
" " (A. L.)	431	271	Beam, H. T.	570	340	Binder, A.	882	552
Ball, A.	26	18	Beard, G. W.	264	166	Bissel, T. M.	417	249
Ball, A.	32	21	Beard, G. W.	280	171	Black, A. C.	46	36
Ball, E. Jr.	26	18	Beard, G. A.	466	293	Black, W.	508	319
Ball, W. J.	29	19	Beard, M. M. and Purcell,			Black, G.	887	553
Ball, John	72	52	G. W.	888	554	Black, W.	1057	649
Ball, J.	72	52	Beard, M. M.	905	561	Blair, R. A. and Reed, J.		
Ball, E.	511	320	Beard, J.	1032	633	B.	68	50
Ball, J.	511	320	Beaumont, L. B.	363	217	Blair, W. W.	207	126
Ball, E.	518	322	Beaumont, D.	1031	632	Blake, W.	400	238
Ball, E.	547	332	Beckett, S.	466	293	Blanchard, W. R.	271	168
Ball, A.	670	382	Beckett, W.	1021	629	Blanchard, E.	389	233
Ball, A.	675	385	Beckwith, P. D.	117	76	Blanchard, I.	593	349
Ball, J.	577	343	Bednar, J. F.	97	62	Blanchard, J.	729	472
Ball, J.	570	340	Beebe, H. C.	898	258	Blanchard, W. R.	870	548
Ball, E. Jr.	558	335	Beecroft, N. D.	388	233	Blanchard, T. A.	889	554
Ballard, A. S.	307	187	Beets, D.	908	562	Blatchley, N.	39	33
Ballard, J. and Magee, T. J.	310	188	Beggs, J. R.	544	331	Blatchley, N.	518	322
Ballard, P.	313	180	Begon, L.	480	297	Blecker, W. E.	784	512
Ballard, H. H. and Mc-			Begon, L.	661	378	Bleetcher, W. E.	790	513
Clure, H.	445	276	Beidler, C.	541	329	Bliven, S. R.	930	576
Ballard, U.	1096	671	Beidler, C.	551	333	Blodgett, C.	540	329
Baltzer, C. H.	476	296	Beidler, C.	676	386	Blodgett, E. A.	1093	670
Banks, G. W.	235	139	Belchambers, A.	9	4	Blomsten, B. C.	586	347
Banks, J.	840	538	Bell, N. and Winfield, H.	278	170	" " " (R)	586	347
Banks, R. W.	881	552	Bell, J. C.	350	212	Blont, J. G. and Haiman,		
Banks, J.	1056	649	Bell, F. R.	477	296	E.	883	552
Banworth, W.	1095	670	Bell, F. R.	477	296	Blue, H.	51	37
Barager, C. F.	933	577	Bell, W. N.	628	363	Blum, R.	375	229
Barber, P.	343	210	Bellinger, E. C.	995	619	Bobo, I. H.	238	141
Barber, E.	892	555	Belmont, H.	782	511	Bodley, J. W.	817	524
Bard, E. M.	463	292	Belt, A. C.	560	336	Bodley, J. W.	818	524
Barger, N. S.	669	382	Bement, E.	68	50	Bogenrief, S. H. and Patti-		
Barnaby, A.	923	574	Bement, A. O.	151	90	son, W.	542	369
Barnett, J. R.	449	278	Bement, E.	695	451	Loggs, A. B.	54	38
Barnett, J. W. and Hobbs,			Benedict, I. A.	879	551	Bolick, W. A., J. D. and		
T. J.	963	590	Benkelman, A.	537	328	Fawcett, J. T.	150	89
Barr, J. H.	712	457	Bennett, H. L.	183	111	Bonander, A. J.	603	352
Barrowman, M.	306	186	Bennett, W.	345	510	Bond, J. L.	592	349
Barrows, F. A.	962	589	Bennett, H. R. and D. E.	900	558	Bond, J. P.	850	541
Barrows, W. A.	1095	671	Ben-on, B. S.	1031	633	Bond, J. L.	1073	654
Barry, A. P.	276	169	Benson, B. S.	1034	634	Bondeli, A.	779	510
Barry, M.	612	356	Benson, B. S.	1039	636	Bonham, G. W.	1010	625
Bartholomew, C.	315	190	Benson, B. S.	1040	638	Boon, A. T.	1063	651
Bartlett, C. K.	302	185	Benson, B. S.	1041	638	Boone, P.	894	556
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Bostwick, E. E.	818	524	Brown, D. F. and E. C.	351	212	Caldwell, F. M.	700	453
Bostwick, C. B.	1038	636	Brown W. P.	416	248	Caldwell, J. R. and Her-		
Bouchet, P.	962	589	Brown, R. A.	609	355	ren, J. W.	889	554
Boul, C.	1086	659	Brown, J. B. and Pentreath,			Call, M.	883	552
Bourne, E.	780	510	J.	712	457	Calvin, L. H. and Wallace,		
Bourne, E.	1081	657	Brown, W. P.	991	609	J.	705	454
Bowen, J. D.	423	259	Brown, E.	1037	635	Cameron, J. C.	275	169
Bowen, J. D.	636	366	Browne, G.	363	216	Cameron, J. F.	342	209
Bowen, H. W.	783	511	Bruce, J. B.	660	377	Cameron, W. F.	716	459
Bowen, H. R. and Robnett,			Brutschke, F.	1042	638	Cameron, W. F.	733	474
L. D.	1073	654	Bryan, J. P.	183	111	Cameron, J. F.	1059	650
Bowers, A. Griggs, J. H.			Bryan, C. M.	464	292	Camp, S. N.	236	139
and Wilson, J.	438	274	Bryan, F. C.	969	593	Camp, E. J.	891	555
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Bowers, M. M.	710	456	Buchanan, J. M.	676	385	Canty, T.	476	296
Bowers, M. M.	714	458	Bucher, J. R.	708	456	Capehart, T.	166	99
Bowlds, F. H.	872	548	Buckingham, C. P.	31	20	Card, J. and Newell, G.	503	317
Bowling, B. F.	272	168	Buckley, R. C. and Harms,			Carleton, L.	1071	654
Bowling, J. S. and R.	889	554	D. G.	27	18	Carlson, T.	651	373
Bowman, L. D.	241	143	Bucklin, M.	433	272	Carman, A.	63	49
Bowsher, N. P.	155	92	Buhoup, H. C.	283	172	Carnes, S.	892	555
Bowsher, N. P.	710	457	Buhoup, H. C.	284	172	Carpenter, J. C.	479	297
Boyle, T. W.	891	555	Bullock, W.	693	450	Carrington, H. L.	7	3
Boynton, J.	23	17	Bump, F. E. and Gear, J.			Carrington, J.	432	271
Bradford, W.	882	552	W.	29	19	Carraway, L. W.	286	173
Bradford, W. B.	1076	655	Burbridge, C. H.	267	166	Carson, J. B.	240	142
Bradley, B. C.	161	96	Burch, I. W.	213	129	Carson, A.	859	544
Bradley, B. C.	476	296	Burch, N.	605	353	Carstens, N. and C.	378	230
Bradley, B. C.	619	358	Burch, L. D.	699	452	Cartwright, E.	475	295
Bradley, J.	1066	652	Burch, I. W.	778	509	Cary, F. F.	725	470
Brain, G.	345	210	Burch, L. D.	931	577	Case, J.	430	271
Branly, J.	288	173	Burch, L. D.	932	577	Case, J. I.	663	379
Brannan, F. P.	986	607	Burdin, L. E.	27	18	Casleaver, S.	114	74
Breeden, C. C. and Wheeler,			Burdin, L. E.	723	469	Casey, C.	265	166
O. T.	800	517	Burdin, L. E.	1071	654	Cassidy, R., Lamb, T. B.		
Brelsford, M. C.	855	543	Burgess, W. D. and Zeigler,			and Vaughan, C. L.	627	363
Brenner, A. W. and Fraser,			G. W.	863	546	Cates, J. G.	1098	672
J.	247	146	Burgess, T. J.	950	584	Cato, W. W.	874	549
Brewer, G. T.	562	337	Burghard, J. H.	415	248	Cedarland, S. N.	730	472
Brewster, I.	925	575	Burhyte, T. J.	309	187	Chafee, V. M.	533	327
Bridges, E. C. L.	235	139	Burke, J. M.	843	539	Chafee, V. M.	615	357
Briggs, B. B.	436	273	Burlingame, A. H.	149	89	Chamberlain, W. C.	33	21
" " " (A. I.)	436	273	Burlingame, A. H.	155	92	Chamberlain, W. H.	773	507
Briggs, H.	726	470	Burnham, T. C.	232	137	Chamberlin, G.	448	278
Brimingham, G. B.	1080	657	Burnham, T. C.	227	135	Chambers, G. W. and		
Brinly, T. E. C.	28	19	Burnham, T. C.	230	137	Washam, I.	210	127
Brinly, T. E. C.	76	54	Burnham, W. H. H. and			Chambers, C. F.	594	349
Brinly, T. E. C.	274	169	Pierce, S. B.	1061	650	Chandler, B. F.	709	456
Brinly, T. E. C.	536	328	Burns, P. H. and McElhany,			Chandler, M.	742	485
Brinly, T. E. C. and Dodge,			W. G.	642	369	" " (R)	742	485
J. G.	542	330	Burns, P.	581	345	Chandler, M.	746	487
Brinly, T. E. C.	551	333	Burr, G. W.	49	37	Chapin, T. F.	520	323
" " " " (R)	551	333	Burrall, T. D.	421	259	Chapman, L.	158	94
Brinly, T. E. C.	559	336	Burridge, T. H.	1005	622	Chapman, J. H.	380	230
Brinly, T. E. C.	576	343	Burtless, M. E.	315	190	Chapman, L.	659	377
Brinly, T. E. C.	582	345	Burton, O. F. and Hoit, L.			Chapman, L.	659	377
Brinly, T. E. C.	588	348	B.	496	293	Chapman, L.	659	377
Brinly, T. E. C.	589	348	Burton, W. V.	519	323	Chapman, A. B.	724	470
Brinly, T. E. C.	606	353	Busch, W.	242	143	Chapman, L.	945	583
Brinly, J. L.	663	379	Bussell, E. T.	386	232	Chapman, L.	947	583
Brinly, T. E. C.	865	547	Bussell, E. T.	772	506	Chapman, L.	966	591
Brinly, T. E. C.	985	607	Bussell, E. T.	755	500	Chapman, L.	967	592
Brinly, T. E. C.	1077	656	Bussell, E. T.	783	511	Chase, J. F.	89	58
Brinly, T. E. C.	1089	669	Bussell, E. T.	784	512	Chase, J. F.	92	60
Brison, J.	78	54	Bussey, W. C.	304	185	Chase, N. C. and Saunders,		
Bristol, L. C.	132	81	Butler, M.	133	82	C. W.	370	227
Britton, W.	593	349	Butler, M.	473	295	Chase, W. L.	926	575
Brodnax, D. W. Sr.	795	515	Butler, M.	656	376	Chase, M. L.	926	575
Bronson, P. K.	696	451	Butler, J.	946	583	Chateau, L. J.	1061	650
Brooks, J.	307	187	Butterfield, J. C.	27	18	Chenoweth, R. B.	491	309
Brooks, R. H.	846	540	Byrd, J. A.	534	327	Chenoweth, R. C.	497	314
Brooks, C. C.	969	592	Byrns, P.	381	231	Chenoweth, J.	779	510
Brott, G. F.	1032	633	Cadenhead, J. J.	523	324	Chevalier, F.	624	361
Brous, T. M.	622	360	Cage, H. B.	214	129	Chichester, H. S.	240	329
Brown, C. E.	8	4	Cagwin, F. L.	775	508	Christ, A.	421	259

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Christman, A. G.	672 383	Cook, R.	344 210	Curryer, J. C. and W. F.	355 214
Christman, A. G.	660 377	Cook, I. and Bever, J. T.	531 326	Curtis, S.	572 341
Christy, J.	393 234	Cook, E. S.	602 352	Curtis, J.	1012 626
Chubb, E. A.	123 78	Cook, W. H.	708 456	Curtis, J. and Rowland, C.	113 74
Chubb, A. L.	158 93	Cooley, W.	554 334	Custer, W.	347 211
Chubb, A. L.	661 378	Cooley, S.	597 350	Custer, J.	1068 653
Church, M. C.	101 65	Coombs, W. G.	48 36	Cutcliffe, E.	1080 657
Clarke, G. C.	42 34	Coon, J. H.	793 514	Dahl, M. K.	583 346
Clarke, G. C.	53 38	Coonley, J. C. and Buckius, A. O.	90 59	Dahl, A. K.	609 355
Clark, W. R.	311 188	Cooper, G. W.	699 452	Dahlman, C. O.	374 474
Clark, G.	320 192	Cooper, G. W.	774 507	Dailey, A. A.	79 54
Clark, J. A.	323 193	Cooper, G. W.	838 538	Dailey, S. H.	80 55
Clarke, E.	383 231	Cooper, G. W.	853 542	Dale, T.	220 132
Clark, W. O.	393 234	Cooper, I.	854 542	Daniel, C.	961 589
Clark, J. M.	417 249	Cooper, M.	903 560	Daniel, C.	963 590
Clark, J. and Yost, G. W. N.	463 292	Cooper, J. B.	1060 650	Daniels, C. J.	804 519
Clark, E. C.	535 328	Corchran, A. J.	823 526	Daniels, W. H.	988 608
Clark, E. C.	846 540	Coreth, R.	478 297	Darby, J. G.	5 2
Clark, J. M.	860 544	Cornell, T. J.	42 34	Darby, T. C.	1036 635
Clark, T. J. and G. M.	876 550	Cornell, E.	429 271	Darden, S. C.	213 129
Claton, T.	301 185	Cornoyer, O. J.	165 98	Darrow, G. P.	69 51
Cloyton, J.	152 90	Coston, J.	225 134	Davidson, E.	530 326
Clayton, J.	159 94	Coston, J.	384 232	Davies, J. and Skinner, C. C.	324 193
Cleasy, G.	508 319	Cotten, T. L.	1070 653	Davies, O. T.	327 195
Clemens, S. A.	447 277	Cotten, T. L.	1079 656	Davis, A. M.	137 84
Clements, G. M.	743 486	Cottman, T.	549 333	Davis, M. E.	214 130
Cleveland, H.	302 185	Couch, W. A.	414 248	Davis, C. C. and A. G.	240 142
Clifton, J.	1073 654	Cowing, H.	995 619	Davis, C. C. and Mercer, W. H.	289 174
Cline, W., Jr.	316 190	Cowley, W. A.	960 588	Davis, L. Jr.	361 216
Clinger, P. S.	371 227	Cowley, W. A.	973 595	Davis, A. B.	471 294
Clore, W.	142 86	Cox, T. S.	434 272	Davis, G.	493 310
Close, J. H.	480 297	Cox, C. G.	617 357	Davis, J. W.	662 379
Cloud, J. C.	516 321	Cox, A. G. and Johnson, R. A.	906 561	Davis, F.	846 540
Clough, A. S.	970 593	Cox, H.	925 575	Davis, L. H. and Aycock, I.	885 553
Cluckner, J.	355 214	Crandall, C. U., J. H. and Hawkins, A.	435 273	Davis, V. R.	895 557
Cobb, J. M.	266 166	Crane, I. C.	761 502	Davis, B. and Scroggin, J. M.	1058 649
Cobb, J. M.	279 170	Cravath, M. A. and I. M.	771 506	Dawdy, L. J.	388 233
Cobb, J. M.	876 550	" " " " (R)	772 506	Dawson, W. W.	640 368
Cochran, R. F.	679 387	Carfts, A. and Weeks, E.	752 499	Dawson, W. J.	778 509
Cockley, D.	41 33	Crawford, J. M.	374 228	Day, A.	273 168
Cochskutt, J. G.	31 20	Creamer, J. and Ricards, T. W.	432 272	Day, D. C.	944 583
Coddington, R. and Mc Call, D.	933 577	Creamer, J.	448 277	Deal, J. J. and Hobbs S.	51 37
Coe, O.	1062 650	Creuzshaw, J. B.	657 376	Deane, G. S.	119 77
Coggeshall, W.	542 330	Creuzbaur, R.	1023 630	Death, W. L. and Rondebush, G. P.	353 213
Cogswell, C. A.	346 211	Crichton, W.	200 123	Deats, J.	495 313
Coil, T. G.	452 279	Critchett, M. H.	450 278	" " (R)	495 313
Colborn, L. H.	769 505	Critchett, M. H.	451 279	Deats, J.	500 316
Cole, G. W.	381 231	Crockett, R. S.	1072 654	Deats, J.	502 317
Cole, J. and Wall, A. L. O.	429 571	Crofut, C.	373 228	Decelle, M.	783 511
Cole, G. W.	568 339	Crofut, C.	393 234	Decker, N. C.	13 6
Cole, J. L.	763 503	Cromwell, J. and H. F.	504 318	Ducker, P. H.	729 472
Coles, J.	7 3	Cromwell, H. F.	532 327	Decre, J.	547 332
Collett, W. H.	141 85	Crook, C. T. and Hoffman, L. J.	898 258	Defenbaugh, A.	430 271
Collins, I. W. and Wilkin-son, R. Y.	206 125	Crossby, W. E. and Carey, A.	821 526	DeForce, S. A. and McConnell, W. V.	239 141
Collins, S.	1091 669	Crossley, C. M.	895 556	Delano, H.	111 73
Colvin, B.	400 238	Cullen, J. M.	261 105	Delano, C.	922 573
Colwell, W. S.	468 293	Culver, M. A.	103 65	Delavigne, J. C.	1016 628
Colwell, W. S.	470 294	Culver, J. M.	380 230	Delfer, F. L.	324 193
Combs, A. J.	184 111	Culver, D.	745 487	Delfer, F. L.	325 194
Comings, R.	303 185	Culver, D.	872 549	DeLong, G. A.	891 555
Comstock, W. G.	380 230	Culver, F. and J. H.	955 586	DeLong, G. A.	899 558
Comstock, C.	759 501	Cuming, T. Jr.	702 453	Dement, J.	343 209
Comstock, C.	762 502	Cummings, J. G.	525 325	Dement, J.	546 332
Comstock, C.	765 503	Cummins, A. G. and J. R.	575 343	Denise, S. T.	45 35
Conaway, W. A.	708 456	Cunningham, J. T.	100 64	Denise, S. T.	570 341
Conaway, W. H.	950 584	Cunningham, G. W.	537 328	Dennett, L. B.	550 333
Condo, D.	667 381	Curkendall, G.	124 79	Dennis, P.	841 538
Cone, M. D. and Douglass, A. N.	375 229	Currier, H. A.	161 95	" " (R)	841 538
Cone, F. C.	777 509	Curry, C. J.	246 145	Dennis, P.	856 543
Conklin, J. H.	514 321	Curry, B. J.	253 150	Dennis, S. Jr.	929 576
Conklin, J. H.	691 449	Curryer, J. C. and W. F.	348 211	Densmore, J.	143 86
Connelly, W. E.	965 591			Densmore, J.	772 506
Conner, L. H.	901 559				
Conrad, S. A.	390 233				

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	Plate	Claim		Plate	Claim		Plate	Claim
Depew, G. W.	67	50	Eaton, J. M.	88	58	Farquhar, A. B.	281	171
Dever, J. P.	256	152	Eaton, E. C.	167	99	Farquhar, A. B.	600	351
Devereaux, C. P.	45	35	Eavenson, J. I.	650	372	Farquhar, A. B.	887	554
Dexheimer, J. P.	951	585	Eavenson, J. I.	657	376	Farr, C. K.	262	195
DeYampert, T. J.	694	450	Eaves, J. B.	234	139	Farr, C. K.	305	186
Dicer, W.	716	459	Eberle, L. Sr., E. and L.			Farrell J. O.	894	556
Dick, J. M.	543	330	Jr.	643	369	Faught, N.	473	295
Dickerson, W. and Strain,			Eby, J. M.	859	544	Fawkes, J. W.	999	620
W. H.	896	557	Eccles, W. M.	48	36	" " [R]	1000	621
Dickert, C. P. and Heller,			Eckles, H. P.	774	507	Fawkes, J. W.	1003	622
E. McD.	252	149	Eddy, W.	70	51	Fawkes, J. W.	1010	625
Dickie, R. and Johnston,			Eddy, H. D.	399	237	Feierabend, J.	820	525
H. K.	585	346	Edey, H. F.	666	380	Feldhans, F.	561	337
Dickson, J. H.	2	1	Edleblute, L. S.	966	591	Feldmann, J. H.	906	561
Dickson, J.	528	325	Edmunds, T.	702	453	Feldmann, J. H.	975	596
Dickson, A.	1057	649	Edwards, W. H.	89	59	Felt, J. S.	974	595
Dietsch, E.	588	348	Edwards, C. D.	329	196	Felton, S.	494	312
Dietz, F.	186	112	Edwards, C. D.	329	196	Fenley, G. W.	793	514
Dillenback, D.	127	80	Edwards, A. N.	576	343	Fenner, R. R.	575	343
Dills, O. P.	69	51	Eichar, P.	509	319	Fenner, R. R.	603	352
Dirst, A. L.	358	215	Elcock, J.	664	380	Ferguson, S. T.	6	3
Divellbiss, H. T. and Bras-			Eldred, A.	926	575	Ferguson, S. T.	139	84
field, J. S.	449	278	Ellidrid, D.	931	577	" " " (R)	139	84
Dock, J. F.	52	38	Elliott, J. W.	602	352	Ferguson, D. P.	641	368
Doddridge, L. M.	351	212	Elliott, J. C.	790	513	Ferguson, J. B. and White,		
Doddridge, L. M.	1092	670	Ellis, J. F. and Robinson, C.	94	61	S. M.	701	453
Dodge, G.	116	75	Ellis, M.	953	585	Ferguson, D. P.	888	554
Dodge, J.	131	81	Elliston, C. T.	787	513	Ferguson, J. C.	889	554
Dodge, G.	153	91	Ells, C. S.	97	62	Fey, C.	399	237
Dodge, T. H.	341	209	Elmer, C. R.	71	52	Fetzer, J. G.	424	260
Dodge, J. G.	561	337	Elmer, A.	433	272	Fields, J. W.	480	297
Dodge, G.	650	372	Elmer, A.	434	272	Field, G. B.	752	499
" " (R)	650	373	Elton, C. A.	559	336	Field, B. F.	757	501
Dodsworth, T. C.	11	5	Elward, J. H.	46	35	Field, G. B.	756	500
Doe, A.	928	576	Elward, J. H.	444	276	Finnegan, J.	416	248
Dolhaner, J.	498	315	" " " (R)	434	276	Finnegan, J.	990	608
Dollahon, C. T.	227	135	Emeron, R.	134	82	Finney, W. C.	261	165
Domscke, C.	482	298	Emerson, C. W.	371	227	Finson, C. H.	395	235
Donnelly, W.	4	2	Emerson, B. K.	637	367	Fish, J.	556	335
Doolittle, Z. and Crowder,			Emery, G. and Wilson, A.			Fisher, L. W.	323	193
A. M.	211	128	C.	531	326	Fisher, J.	1067	652
Dormon, J. M.	900	558	Emmert, E.	342	209	Fithian, L. S.	765	503
Doty, W. H. H.	873	549	Enete, E.	213	129	Fithian, L. S.	767	504
Dougherty, J. C.	344	210	English, E. O. and Whyte,			Fitts, R. B. and Thackara,		
Douglas, C. B.	219	131	R.	478	296	J. W.	372	228
Douglass, J. T.	362	216	Eppes, A. F.	869	548	Fitzgerald, J. C.	771	505
Dover, S. B.	1087	659	Erkson, G.	65	49	Fitzhugh, B. G.	385	232
Dow, T.	75	53	Estes, H.	96	62	Flanagin, J.	83	56
Dow, T. H. C.	886	553	Esterly, G.	520	323	Flansburgh, P. H.	937	579
Dowler, J. W.	396	235	Estes, C. E.	286	172	Fleischmann, C. L.	310	188
Downman, R. W.	311	188	Estes, W. A.	729	472	Fleischmann, G. L.	554	334
Downs, J. W.	601	352	Estes, W. A.	730	472	Flening, T. T.	270	167
Dozier, M. D.	630	364	Estes, W. A.	732	473	Fletcher, S. E.	1078	656
Draughon, R. I.	214	130	Estes, W. A.	733	473	Fliedner, L.	73	53
Draughon, R. I.	245	145	Estes, W. A.	733	474	Flippen, C. W.	631	364
Dudley, J.	495	313	Etzler, E. J.	482	298	Fogarty, J.	1030	632
Dugdale, J. K.	372	228	Eustace, M.	229	136	Fogarty, J.	1033	633
Dugdale, J. K.	395	235	Eustace, M., Kenman, J. and			Fogarty, J. H.	1042	639
Dugdale, G. R. and Breed,			T.	281	171	Fogelgesang, F.	25	17
D.	617	357	Evans, I.	64	49	Foley, D. D.	724	470
Dugger, G. W.	256	152	Evans, E.	73	53	Fol-om, S. H.	388	233
Duling, C. F.	103	65	Evans, W. D.	230	137	Forbis, E.	307	186
Duncan, J. C.	557	335	Evans, C. and O.	293	310	Ford, E. T.	42	34
Dunn, J. D.	214	130	Evans, L. G.	521	323	Ford, I. M.	880	551
Durfee, H. B.	573	342	Evans, O. C.	754	499	Foreman, E. L.	313	189
Durfee, H. B.	580	345	Evans, J. D.	861	545	Foreman, E. L.	314	190
" " " (R)	581	345	Evans, W. B.	864	546	Foreman, E. L.	315	190
Durfee, W. H.	975	596	Evans, J. W.	1002	621	Foreman, J. H.	836	537
Dutcher, J.	503	317	Evans, J. W.	1030	632	Forney, D. P.	202	123
Duvall, L.	384	234	Evarts, W. C.	559	336	Forsgard, G. A.	785	512
Dyer, C. V.	53	38	Everdon, W. P.	1065	652	Forsyth, R. G.	318	191
Dyer, I. T.	728	471	Ewing, L.	232	137	Fort, M.	869	548
" " " (R)	728	171	Ewins, R. H.	932	577	Fosdick, L.	470	294
Dyer, C. V.	730	472	Ewings, O. G.	262	165	Foss, C. H.	85	57
Dysard, J. W.	1094	670	Eyth, M.	1017	628	Foster, A. K. and B. H.	207	126
Earlywine, N.	221	132	Falker, P.	74	53	Foster, N. H.	666	381
Earnhart, M.	265	166	Farber, M. W.	163	97	Foster, C.	563	338
Eastwood, I.	126	80	Farmer, A. H.	144	87	Foster, A. G. W.	625	361
Eastwood, I.	1092	670	Farnsworth, J. L.	289	174	Foster, C. R.	809	521

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	Plate	Claim		Plate	Claim		Plate	Claim
Fowler, W. R.	7	3	Garrett, G.	346	211	Gochmour, D. Jr.	924	574
Fowler, J.	549	333	Garrett, C. and Cottman, T.	523	324	Goddard, E. G.	823	526
Fowler, N. M.	964	591	Garver, A. A.	758	501	Goddard, S. P.	1032	633
Fowler, J., Jr.	1007	623	Gates, W. A.	262	165	Goddin, N. A. H.	852	542
Fowler, J., Jr.	1007	623	Gatling, J.	199	123	Godfrey, S. T.	47	36
Fowler, J. Jr. and Greig, D.	1007	623	Gatling, R. J.	205	124	Godfrey, H. C.	604	353
Fowler, J. Jr.	1009	624	Gatling, R. J.	758	501	Godfrey, J. S.	726	471
Fowler, J., Jr. and Worby, W.	1009	624	Gatling, R. J.	761	502	Godfrey, J. S.	627	471
Fowler, J., Jr., Burton, R., Greig, D. and Head, J.	1010	625	Gatling, R. J.	836	537	Godfrey, J. S.	727	471
Fowler, J., Jr.	1012	626	Gatling, R. J.	997	619	Godfrey, J. S.	728	471
Fowler, J., Jr., Worby, W. and Greig, D.	1013	626	Gaunt, F.	154	92	Godfrey, J. S.	728	472
Fowler, J., Jr., Greig, D. and Noddings, R.	1013	626	Gautier, F.	54	39	Godfrey, J. S.	729	472
Fowler, J.	1064	651	Gautier, F.	655	375	Goelet, E. H. and E. B.	211	128
Fox, J.	348	211	Gavett, H. L. F.	304	186	Gogel, J.	959	588
Foye, W. H.	792	514	Gay, G. B.	286	172	Going, A. J.	212	129
Foye, W. H.	796	515	Gaylord, C. H. and Ayers, E. M.	622	360	Golden, T. E.	905	561
Foye, W. H.	1035	635	Gedney, G. W. B.	757	500	Goldson, H.	261	165
Foye, W. H.	1035	634	Gehr, J.	41	33	Golsan, W. W.	206	125
Frank, W.	545	331	Genzly, J.	142	85	Gooch, J. H.	465	292
Franklin, F. M.	574	342	George, J.	548	332	Goodall, J. H.	868	547
Franklin, A.	581	345	George, J.	672	384	Goodell, J. W.	1002	621
Franklin, F. M.	585	347	Gero, E. C. and Cooley, J. N.	700	452	Goodrich, B.	857	544
Franklin, A. and F. M.	587	347	Gibbon, C.	210	128	Goodwin, W. C.	377	229
Fraser, E. J.	770	505	Gibbs, G.	44	35	Goodwin, W.	386	232
Frazee, L. F.	782	511	Gibbs, L.	70	51	Goodyear, A.	30	20
Frederick, S. H.	74	53	Gibbs, R.	83	56	Goodyear, A.	648	372
Freeborn, W.	799	517	Gibbs, L.	132	81	Goodyear, A.	651	374
Freeman, I.	623	360	Gibbs, L.	132	81	Good ear, A.	658	377
Freeman, I.	1083	658	Gibbs, M. L.	151	90	Goolman, W. P.	431	271
French, C. M. and Fancher, W. H.	24	17	Gibbs, L.	416	248	Goolman, W. P.	439	274
French, W. and Prentice, J. W.	392	234	Gibbs, L.	463	292	Gordon, C. M.	49	37
French, C. M.	569	340	Gibbs, J.	499	316	Gordon, C. M.	585	347
French, E. D.	887	554	Gibbs, J.	550	333	Gordon, E.	762	502
Friberg, A.	412	247	Gibbs, L.	556	335	Gorham, J.	840	538
Fromm, A. F.	9	4	Gibbs, G.	565	338	Gorham, J.	845	539
Frost, L. C.	4	2	Gibbs, R.	585	346	Goslee, O. W.	744	487
Frye, J.	722	469	Gibbs, M. L.	587	347	Gossett, W. I. and Stark, J. P.	956	586
Fudge, J. M., Holmes, F. M. and McDonald, S.	454	280	Gibbs, M. L.	587	347	Gotton, N.	269	167
Fuller, M. H.	401	238	Gibbs, L. H.	1024	630	Gowen, W.	382	231
Fulk, C. E. and Good, J. J.	952	585	Gibson, D. D.	129	80	Grabo, C. G.	447	277
Furnas, S.	327	195	Gibson, R. F. and McDaniel, R. P.	237	140	Grabo, C. G.	763	503
Furst, C.	124	78	Giger, B.	836	537	Graham, E. M.	389	233
Fulton, D.	586	347	Gilbert, I. R.	100	64	Graham, R. A.	519	323
Gable, A. C.	140	85	Gilbert, J. W.	244	144	Graner, J.	801	517
Gaines, W. C.	519	131	Gilbert, D.	860	545	Grant, W. H.	186	112
Gaines, C. A.	263	165	Gilbert, J. R.	868	547	Grant, C. W.	560	336
Gaines, R. and Scott, M.	468	293	Gilbert, I. R.	903	559	Graves, R.	156	93
Gaines, C.	879	551	Gilbert, P. M.	1063	651	Graves, W. W.	267	166
Gale, H.	28	19	Giles, J.	1029	632	Gray, J. R.	998	620
Gale, H.	92	60	Gill, J. L.	522	324	Gray, N. A.	1011	625
Gale, H.	125	79	Gillaspie, L. C. Sr.	283	171	Gray, N. A.	1016	628
" " (R)	126	79	Gilleland, J. H.	233	138	Green, L.	446	277
Gale, H.	135	82	Gilleland, J. H.	894	550	Green, L.	535	328
" " (R)	135	83	Gillespie, R. T.	356	214	Green, L.	544	331
Gale, H.	584	346	Gillespie, R. T.	358	215	Green, L.	547	332
Gale, H.	615	357	Gillet, H.	445	276	Green, L.	723	469
" " (R)	616	357	Gillette, H.	1076	656	Greeson, E. M.	215	130
Gale, H.	642	369	Gilliam, J. W.	577	344	Gregory, S.	502	317
Galentine, H.	130	80	Gilman, W.	25	17	Greif, J. V.	557	335
Gallagher, P.	63	49	Gilmer, J.	603	352	Griffies, W. J.	843	539
Gallatin, J.	507	318	Gilmore, A.	560	339	Griffin, G. L. and Carper, J. H.	440	275
Gammill, G. W.	899	558	Gilson, T. and Martin, N.	551	333	Griffin, W.	850	541
Gandy, O. S.	892	555	Gingrich, J. K.	42	34	Griffin, I. M.	1082	657
Ganong, L. W.	273	168	Gitt, D. D.	40	33	" " " (R)	1082	658
Ganse, H. D.	370	227	Glasoe, O. J.	51	37	Griffith, L. B.	23	17
Gardner, J. N.	234	138	Glenn, N. Z.	873	549	Griggs, A.	1083	658
Gardner, F. M.	352	213	Glidden, C.	553	334	Grimes, C. T.	570	341
Gardner, C.	742	485	Glover, F. E.	236	139	Groom, R.	48	36
Gardner, J. M.	1044	640	Glover, J. R.	882	552	Gross, J. G.	157	93
Garlington, T. C.	839	538				Gross, G., Jr.	741	485
Garrett, J. M.	225	134				Gross, E.	1059	649
						Gross, J. C.	1060	653
						Grover, M.	525	325
						Grover, M.	541	329
						Guice, T.	274	169
						Gum, J. S.	664	379
						Guthrie, L.	867	547

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	<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>
Guyer, J.	371 227	" " (R)	543 330	Henderson, L.	212 129
Gwynn, S.	1005 623	Harper, C. A.	1091 669	Henderson, J.	264 165
Hacke, F.	417 249	Harpster, R.	356 214	Hendley, J. W.	632 365
Hackman, A.	655 375	Harrell, W. K.	600 351	Henry, W.	546 332
Haegel, J.	543 330	" " (R)	600 351	Henry, J. C.	1090 669
Haegel, J.	556 335	Harrington, W. H. and		Herberg, P. P. and Clau	
Haessel, J.	864 546	Merrill, A. B.	732 473	sen, P. H.	12 5
Hafner, J.	663 379	Harris, S. M.	52 38	Herbert, W. and C. T.	188 113
Haggard, G. W. and Bull,		Harris, E. H. and Cleghorn,		Herbert, J.	302 185
Geo.	753 499	J.	199 123	Herring, J. F.	704 454
Hague, C. A.	162 96	Harris, T. J.	272 168	Hess, G. H.	377 229
Hague, C. A.	162 96	Harris, J. R.	276 169	Hesselbom, C. M.	789 513
Haight, D. B.	515 321	Harris, J. R.	277 169	Hewit, S.	762 502
Haiman, E.	279 170	Harris, J. R.	277 170	Heydrick, W. H. H.	1014 627
" " (R)	180 170	Harris, C. A.	376 229	Heydrick, W. H. H.	1025 631
Haiman, E.	591 348	Harris, Z.	492 309	Hibbs, J.	40 33
" " (R)	591 348	Harris, J.	553 334	Higgins, R. S.	119 77
Hain, M. and D.	360 215	Harris, E.	758 501	Higgins, J. and J. W.	352 213
Hakes, H. B.	949 584	Harris, J. P.	842 539	Hildreth, G. W.	701 453
Hale, N. M.	216 130	Harris, J. P.	1056 649	Hill, A. R.	287 173
Hale, O. F.	322 192	Harris, I. P.	1058 649	Hill, H. W.	327 195
Hall, J. S.	24 17	Harrison, C. B.	229 136	Hill, F. A. and Church,	
Hall, J. S.	67 50	Harrison, I. F.	282 171	M. J.	332 197
Hall, T. J.	112 73	Harrison, N. and Metcalf,		Hill, D. H.	866 547
" " (R)	112 73	J. W. H.	928 576	Hill, D.	1089 669
Hall, J. H.	118 76	Harrison, J. P.	234 138	Himrod, W. G.	8 3
Hall, J. M.	201 123	Harsha, James	2 1	Hinckley, F. F.	438 274
Hall, J. M.	203 124	Hart, T. M.	248 146	Hinds, W.	546 331
Hall, F. A. and Milton,		Hart, G. D.	986 607	Hinman, J. and French, D.	
N. B.	243 144	Hartman, C. R.	161 95	S.	205 125
Hall, J. A.	375 229	Hartman, J.	957 587	Hoadley, J.	764 503
Hall, J.	391 234	Hartman, C. R.	1066 652	Hoagland, J. N., Cumming,	
Hall, S.	514 1/2 321	" " (R)	1067 652	H. L. and Tallman, F. G.	670 382
Hall, J. S.	535 328	Hartmann, J.	951 585	Hobson, I.	435 273
Hall, J. S.	568 340	Hartmann, J.	960 588	Hodge, E. C.	942 582
Hall, J. D.	584 346	Hartmann, J.	961 589	Hodge, E. C.	944 582
Hall, J. S.	695 451	Hartmann, J.	971 594	Hodge, E. C.	958 588
Hall, H. G. and E. L.	697 452	Hartpence, S. and Bowne,		Hoefelman, W. H.	1693 670
Hall, L. W.	712 457	J. D.	500 316	Hoffhein, R.	450 278
Hall, A.	477 296	Hartsheld, J. A.	205 125	Hoffmeyer, A. B. and	
Hall, J. S.	837 537	Hartzell, C.	82 55	Schmidt, J.	788 513
Hall, J. S.	837 537	Hartzell, J. S.	629 363	Hogmire, J. O.	7 3
Hall, J. M.	842 539	Hartzell, C.	574 342	Hoke, D.	528 325
Hall, S.	927 575	Harvey, E. O.	85 57	Hoke, F. P.	677 386
Hall, J. S.	928 576	Harvey, W. W.	285 172	Holbrook, F., Nowe, J. A.	
Hall, J. M.	930 577	Harvey, B.	703 453	and Nourse, J.	941 581
Hall, J. S.	948 584	Haskin, O.	968 592	" " (R)	941 581
Hall, J. S.	951 584	Haskins, A.	331 197	Holbrook, F. F. and Moul-	
Hall, A. W.	1011 625	Hastings, P.	496 314	ton, E. S.	971 594
Halsted, J. D. and A. M.	372 228	Hatcher, J. W.	221 132	" " " (R)	972 594
Hamilont, E. T. and Earl,		Hathaway, S.	148 89	Holland, J. J.	426 260
C. N.	455 280	Haven, G. S.	990 608	Holley, J. P.	970 593
Hamlet, W.	455 281	Haven, G. S.	644 369	Holloway, P.	631 364
Hammer, J. A. and Gordon,		Haviland, G. W.	363 217	Holt, W.	215 130
J. P.	445 267	Hawes, B. B.	86 57	Holt, R. C.	215 130
Hammond, A.	434 273	Hawkins, A. B. and Pun-		Holton, G. W.	73 53
Hammond, A.	441 275	tenney, J.	442 275	Honrighouse, L.	781 511
Hampe, A.	617 358	Hawkins, J.	1002 621	Hood, J. R.	217 131
Hampe, A.	616 357	Hawley, E. E.	369 227	Hood, B. R.	845 539
Hancocks, M. T.	905 560	Hawse, B. B.	89 58	Hoover, W. U.	571 341
Hanes, J.	856 543	Hawse, B. B.	957 587	Hope, J. D.	995 619
Hanon, J. Jr.	441 275	Hayden, C.	1066 652	Hopkins, G. E.	796 515
Hanson, C.	678 387	Haynes, J.	797 516	Horney, S. Jr.	519 323
Hapgood, J.	945 583	Haynie, J. D.	184 111	Houghton, I.	23 17
Hapgood, J.	954 586	Haynsworth, H.	383 231	House, J. L.	332 197
Harbaugh, J. R.	1098 672	Heald, R. K.	678 387	House, J. L.	333 197
Harbert, T. M.	1097 671	Heartsill, A.	895 557	Houston, J. D.	207 125
Harcrow, J. M.	221 132	Heckendorn, J.	140 85	Hovis, J. T.	81 55
Hardenbrock, R.	937 579	Heckendorn, J.	524 354	Hovis, J. T.	129 80
Hardesty, B. T.	184 111	Heckendorn, J.	574 342	Howard, J. R.	252 149
Hardin, A. I.	929 576	Hedrick, G. T.	629 363	Howard, J. W.	1079 656
Harding, W. E.	423 259	Hefley, G., Conrad, S. and		Howe, G. W.	950 584
Hardy, D.	290 174	Wigle, J.	517 322	Howe, J. A.	976 596
Har g, J. H.	902 559	Hege, C. A.	618 358	Howell, M. A. Jr.	445 576
Harmon, D.	317 191	Heiges, D.	583 345	Howell, J., W. D. and Sipe,	
Harmon, W. R.	860 545	Heiway, F. E. and Walls,		J.	517 322
Harned, A. L.	325 194	J. J.	276 169	Howell, W. T.	862 545
Harper, C. A.	46 36	Helmecke, F. A.	249 147	Hoxie, H. S.	119 77
Harper, D.	542 330	Henderson, R. B.	209 127	Hoxie, H. S.	129 80

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	Plate	Claim		Plate	Claim		Plate	Claim
Hoyt, O. W.	359	215	Jenkins, C. S.	162	96	Jordan, J. W.	923	574
Hoyt, B. C.	721	469	Jenkins, C. W.	709	456	Jordon, D. C.	371	227
“ “ (A. I.)	721	469	Jenkins, W. F. and C. W.	711	457	Jory, J. W.	678	387
Hubbard, D. C.	842	539	Jennings, W. A.	99	64	Joyner, L. B.	204	124
Hubbell, M.	102	65	Jennings, A.	347	211	Joynes, R. F.	372	227
Hubbell, M. R.	955	586	Jennings, G.	350	212	Judd, J. L.	664	380
Huber, S.	158	94	Jennings, F. C.	648	371	Juld, N. T.	781	511
Huber, S.	632	365	Jennings, W. A.	883	552	Judson, A. C.	582	345
Hubley, H. H.	623	360	Jennings, E.	944	582	Julier, E.	533	327
Hudgson, I.	442	275	Jerauld, H. F.	77	54	Kagarice, E. R.	81	55
Huff, E. S.	412	247	Jerauld, H. F. and Stolle,			Karr, A. M.	443	275
Huffer, I.	819	524	“ J. W.	93	61	Karsner, I.	328	196
Huggins, J. S.	848	540	Jerome, H. R.	434	273	Kaufman, A.	82	56
Hughes, D. W.	123	78	Jester, A. E.	884	553	Kazar, L.	443	276
Hughes, D. W.	140	85	Jett, J. R. P.	473	295	Kearney, B. S.	988	608
Hughes, D. W.	163	97	Jewett, B. F.	504	318	Kee, C. T.	602	352
Hughes, J. L.	251	148	Jinkins, J. E.	562	337	Keech, J.	68	51
Hughes, A. S.	455	281	Johnson, J. A.	5	2	Keefer, F.	375	229
Hughes, W. J.	1093	670	Johnson, J. A.	33	21	Keeler, G. W.	863	546
Hughes, D. W.	1096	671	Johnson, D. M.	93	60	Keith, H. M.	120	79
Hulbert, S.	528	325	Johnson, W. F.	204	124	Keith, H. M.	127	80
Hulbert, S.	569	340	Johnson, W. J.	225	134	Keith, H. M.	130	81
Hulbert, S.	462	292	Johnson, D. M.	229	136	Keith, A. M.	203	124
“ “ (R)	462	291	Johnson, J. J.	248	147	Kellogg, A. A.	164	97
Hull, N.	505	318	Johnson, R. A.	287	173	Kellogg, A. B.	614	357
Hummer, H. A.	552	333	Johnson, R. A.	288	173	Kellogg, K.	679	387
Humphrey, D. F.	422	259	Johnson, R. A.	288	173	Kellogg, H.	999	620
Humphrey, D. F.	542	330	Johnson, C. H.	381	231	Kelly, J. and Hennis, W.		
Humphreys, J. W.	326	195	Johnson, M.	395	235	H.	322	192
Humphreys, J. W.	328	195	Johnson, M.	397	236	Kelly, R. A.	349	212
Hunt, F. B.	32	21	Johnson, M.	397	236	Kelly, W. C.	401	238
Hunt, F. B.	164	97	Johnson, M.	398	236	Kelly, W. W.	400	238
Hunt, L.	575	342	Johnson, B.	497	314	Kelly, E.	496	314
Hunt, J. Y.	921	573	Johnson, J.	513	320	Kemper, B.	13	6
Hunter, W. L. and Gardner,			Johnson, A. W.	624	361	Kendall, F. B.	361	216
A.	518	322	Johnson, W. S.	652	374	Kennedy, W. G., Preston,		
Hunter, C. E.	645	370	Johnson, R.	724	469	L. Z., Morand, F. A. and		
Hunter, J. T. and Mitchell,			Johnson, F.	731	473	Kennedy, E. H.	10	4
D. L.	1078	656	Johnson, M.	780	510	Kennedy, D. A.	92	60
Hunting, C. B.	114	74	Johnson, H. M.	753	499	Kennedy, I.	471	294
Huntington, W. S.	44	35	Johnson, J.	765	503	Kennedy, J. T.	481	298
Huntsman, H.	166	98	Johnson, J. G.	777	509	Kennedy, M.	597	350
Hurd, J. B.	823	526	Johnson, W. H.	846	540	Kennedy, I.	725	470
Hussey, R. and Thornburgh,			“ “ (A. I.)	847	540	Kennedy, M.	856	543
U. Sr.	436	273	Johnson, W. and Ranney,			Kennedy, A. L.	1022	630
Huchinson, T.	308	187	M.	876	550	Kennedy, R. V.	1099	672
Hutson, E.	247	146	Johnson, W. O.	907	561	Kent, E. H.	775	508
Hyde, W. B.	324	193	Johnson, C. F., Jr.	1013	626	Kern, I. R.	626	362
Hyde, W. B.	785	512	Johnson, R.	1069	653	Kern, I. R.	633	365
Hyde, O.	1023	630	Johnson, J. H.	1072	654	Kerns, H. O.	679	387
Hyde, O.	1027	631	Johnson, R.	1074	655	Kerr, C. B.	700	463
Ihringer, A.	881	552	Johnson, R.	1075	655	Kersh, A. J.	164	97
Ingalls, A. P.	572	341	Johnston, J. S.	124	79	Kersh, T. E.	887	553
Ingersoll, C. B.	525	324	Johnston, J. S.	138	84	Kershner, T. A.	797	516
Ingraham, H.	70	52	Johnston, C.	824	527	Kessler, P.	659	377
Iverson, L. L.	952	585	Jones, D.	136	83	Kessler, P.	669	382
Ivey, W. D.	341	209	Jones, E. P. and Harrell, J.			Kessler, P.	711	457
Iwan, H. and L.	98	63	L.	275	169	Kettenring, P.	165	98
Jackson, C. L.	76	54	Jones, W. G.	386	232	Keys, M. H.	255	151
Jackson, W. B., Childs, J.			Jones, S. F.	437	274	Kidd, I. J.	212	128
M. and O. J.	82	56	Jones, S. F.	446	277	Kidd, I. J.	212	129
Jackson, G. H.	354	213	Jones, W. T.	532	327	Kidder, N.	308	187
Jacobs, J.	497	314	Jones, R.	543	330	Kidder, W. B.	350	214
Jacobus, P. and Ambrose,			Jones, M. R.	590	348	Kidwell, G. W.	76	54
D. R.	6	3	Jones, H.	611	355	Killam, H.	580	345
Jacobus, P. and Ambrose,			Jones, T. B.	637	367	Killefer, J.	714	458
D. R.	6	2	Jones, T. F.	665	380	Kilmer, J.	1089	669
James, S. T.	898	558	Jones, J. G.	788	513	Kilmer, J.	1090	669
Jameson, J.	45	35	Jones, H. and Yard, W.			King, D. H. and Hulse,		
Jaques, A. C.	569	340	K.	790	514	W. M.	83	56
Jarrard, D. H.	884	553	Jones, T. F.	870	548	King, A. B.	89	58
Jarrell, E.	148	88	Jones, W.	933	577	King, J. R.	265	166
Jarrell, W.	278	170	Jones, J. W.	941	581	King, A. B.	353	213
“ “	538	328	Jones, E. C.	999	620	King, R. J.	836	537
Jarrell, J.	1084	658	Jones, J.	1001	621	King, S. B.	871	548
Jarvis, C.	373	228	Jones, M. R.	1065	651	Kingsland, G.	398	237
Jefferson, S. A.	216	130	Jones, B. F.	1084	658	Kinney, J.	357	214
Jefferson, T. E.	649	372	Jordan, W. T.	873	549	Kinney, H. R.	533	327
“ “ “	731	473	Jordan, J. W.	922	574	Kinstler, J.	653	374

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	Plate	Claim		Plate	Claim		Plate	Claim
Kirkham, M.	346	210	Layman, J.	215	321	fenberger, J. C.	322	192
Kirkman, D. J. and Gray,			Leach, S. J.	468	293	McCabe, J.	954	586
E. H.	1064	651	Leach, S. J.	604	353	McCall, E. R.	98	63
Kirkpatrick, G. O. and A.	333	191	Leatherman, P. R.	215	130	McCall, E. R.	99	63
Kirkpatrick, A.	341	211	Lecq, P. O.	239	141	McCaskill, J. C.	250	148
Kirksey, J. K.	894	556	Lee, L.	238	141	McCaughan, C. A.	208	126
Killough, W. B.	233	138	Lee, C. J.	242	143	McChesney, T. B.	187	112
Kimplen, C.	27	18	Lee, T. J.	282	171	McClagherty, W. H.	230	136
Kinney, W.	92	60	Lee, Joel	435	273	McClurkin, J. C.	330	196
Kirtley, F. L.	212	129	Lee, W. A.	677	386	McClung, R. L.	231	137
Kline, C. B.	452	279	Lee, H. A.	703	453	McCollam, A.	78	54
Klineline, J. W.	653	374	Lee, E. D. and Z. W.	844	539	McCollum, J.	1060	650
Klingie, P.	1000	621	Lee, Z. W. and E. D.	850	541	McConaughy, T. B.	343	210
" " (A. I.)	1001	621	Lee, J. A.s	398	236	McConaughy, T.	841	538
Kloss, R.	167	99	Legg, L. W. and E. D.	929	576	McCool, W. C.	608	345
Knapp, R. I.	955	586	Leland, A.	515	321	McCormick, J. R.	233	138
Knapp, K. I.	976	596	Leonard, J. M.	127	80	McCormick, S.	492	309
Knapp, J. G.	1020	659	Leonard, J. M.	128	80	McCormick, S.	493	311
Knight, E. R.	477	296	Leonard, G. W.	944	582	" " (R)	493	311
Kniphals, H.	698	452	Leonard, J. C. and Gobar,			McCormick, S.	501	316
Knoblock, J. C. and Bis-			J. I.	106	652	McCormick, C. H.	921	573
sell, T. M.	146	87	Leonhard, F. A.	220	131	McCracken, W.	208	126
Knox, S. A.	463	292	Leslie, B. J.	971	593	McCray, T. H.	813	522
Knox, S. A.	961	589	Levoy, W. E.	937	579	McCray, T. H.	1036	635
Koffend, J.	424	260	Lewis, J. W.	122	78	McCray, T. H.	1036	635
Konig, J.	974	595	Lewis, D. P.	208	126	McCullers, M. C.	847	540
Koppenheffer, C.	643	369	Lewis, C. C.	474	295	McCullers, M. C.	850	541
Krake, J. A.	1065	651	Lewis, J. W.	553	334	McCulloch, J. L.	394	235
Kring, H. O.	361	216	Liles, L. W.	636	366	McCune, W. H.	623	300
Krog, H., Sr.	622	360	Lindahl, D.	992	609	McDaniel, G. W.	897	557
Kuenzel, J.	612	356	Lindley, N. H.	379	230	McDonald, T. E.	776	508
Kyle, I. N.	818	524	Lindley, N. H.	383	232	McDonald, P. J.	1028	631
Lacy, John, and Watkins,			Lindsey, J. E.	247	146	McDonel, G. H., Thom,		
George,	1	1	Lindsey, H.	289	174	J. and Ewing, S.	1096	671
Lafin, M. and Slosson, E.	472	295	Ling, L.	646	371	McDonell, A. S.	787	513
Lahman, W.	84	56	Lilse, J. B.	253	150	McDowell, M.	28	19
Lamar, M. B.	219	131	Locher, C.	1016	628	McGaughey, A. E. and S.		
Lamb, D. M.	1076	655	Locke, D.	801	517	N.	1003	622
Landon, T. R.	283	172	Lockhart, T. S. and J. A.	537	328	McGaughey, A. E.	1027	631
Lane, J.	121	78	Locklin, N.	499	316	McGregor, Wm.	149	89
Lane, M. W.	132	81	Lockwood, N.S. and Winn,			Machin, T. N.	87	58
Lane, J.	151	90	J. D.	523	324	McIntire, A. L.	708	456
Lane, J.	157	93	Loeb, P.	987	607	Mack, D.	389	233
Lane, Joseph,	157	93	Long, J.	112	73	McKesson, E.	934	578
Lane, J.	439	274	Long, J.	479	297	McKiney, H.	80	55
Lane, J.	470	294	Long, J.	509	319	McKinley, J.	552	333
Lane, J.	472	295	Long, J.	574	342	McKinley, R.	787	512
Lane, J. Jr.	526	325	Long, J.	711	457	McKinnon, K.	228	135
Lane, J.	591	348	Looker, J. M.	478	295	McKinnon, K.	1079	656
" " (R)	591	349	Loomis, G. D.	152	10	McKinnon, K.	1081	657
Lane, J. Jr.	593	349	Lostuter, W. C. and Wol-			McLean, J. W.	1003	622
" " (R)	593	349	cott, S.	342	209	McLeary, A. C.	359	215
Lane, J.	618	358	Love, S. M.	242	145	McMahen, A. A.	1058	649
Lane, J.	645	370	Love, W. W.	867	547	McMeekin, T. G. W. and		
Lane, J.	645	370	Love, J.	1078	656	Hunt, W. W.	231	137
Lane, J.	648	372	Loveless, J. W.	349	212	McMeekin, F. M.	604	353
Lane, J.	698	452	Lovell, S. M.	141	85	McMeekin, F. W.	985	607
Lane, J.	699	452	Lowden, F. M. and J. D.	353	213	McMillan, J. W.	238	141
Lane, J.	701	453	Lowe, J.	345	210	McMillen, R.	504	318
Lane, D. H.	803	518	Lowe, J. W.	611	356	McMullen, L. S.	254	151
Lane, J.	904	560	Lowe, L. J.	1085	658	McMurry, C. W.	284	172
Lane, J.	986	607	Lucas, J. S.	396	235	McNair, T. F.	896	557
Langdon, B.	835	537	Lucas, D. T.	452	279	McNair, T. F.	904	560
Lannay, E.	355	214	Luce, W. H.	857	543	McNeal, J. A.	32	21
Lape, W.	540	329	Lufkin, C. M.	933	578	McNutt, J. C. and Furman,		
Lash, J. S.	65	50	Lufkin, C. M.	935	578	A. B.	579	344
Latimer, J. B.	79	54	Lufkin, C. M.	965	591	" " " (R)	580	344
Lattimer, J.	261	165	Lugenbell, P. and Arm-			Macomber, T. S.	953	585
Lauer, A. and Hartmann,			strong, J. S.	309	188	McRae, R.	282	171
J.	635	366	Lutz, J. A.	216	130	McWane, C. P.	647	371
" " " " (R)	633	366	Lynch, G. F.	775	508	Maddux, T. B.	481	298
Laughlin, J. L.	413	247	Lynn, M. N.	1021	629	Mahoney, J. W.	641	368
Laughlin, J. L.	608	354	Lynn, M. N.	1025	631	Mallon, J.	802	518
Lawrence, W. S.	137	83	Lyon, G. C.	138	84	Maloy, D. H.	853	542
Lawrence, W. S.	138	84	Lyon, J. M. P.	274	169	Mangham, J. T.	1082	657
Lawrence, W. S.	141	85	Lyon, H. L.	287	173	Mann, J. H.	13	6
Lawrence, W. S.	145	87	Lyons, J. B.	868	548	Mann, H. F.	539	329
Lawrence, W. S.	636	366	Lvtch, J.	273	168	Mann, D.	760	502
Lawrie, J.	906	561	McAllister, J. W. and Pof-			Mann, A. S.	877	550

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	Plate	Claim		Plate	Claim		Plate	Claim
Manning, A. L.	897	557	A. B.	395	235	Mitchell, J. J.	610	555
Manning, A. L.	1081	657	May, H. H.	461	291	Mitchell, D. L. H.	613	356
Manny, A. J.	159	94	May, J. M.	462	291	Mitchell, J. J.	877	550
Manny, A. J.	166	98	May, H. H.	512	320	Mock, C. F.	676	386
Manny, P.	1056	649	May, J. M.	512	320	Moeser, H.	999	620
Manuel, D. A.	939	580	May, E.	665	380	Moltrup, J. C.	24	17
Manuel, D. A.	940	580	Mead, S.	465	292	Monaghan, P.	204	124
Manwaring, K. W.	139	84	Mead, S.	980	608	Monical, J. W.	348	211
Manwaring, K. W.	155	93	Meagher, E. D.	671	383	Monroe, I. N.	185	112
Manwaring, K. W.	159	94	Mears, W. R.	768	504	Monroe, J. H.	989	608
Manwaring, K. W.	160	95	Meech, C. L.	63	49	Moody, L.	776	508
Marable, T. E.	119	77	Meggs, H. P.	289	173	Moon, W. S.	890	555
Marable, T. E.	226	134	Meggs, H. P.	362	216	Moore, A. and, Wendel, F.	3	1
March, S.	269	167	Meikle, T.	150	89	Moore, G.	142	85
March, S.	270	167	Meikle, T. and Coleman,			Moore, J. A.	186	112
March, T.	468	293	B.	652	374	Moore, J.	236	139
March, S.	858	544	Meikle, T.	667	381	Moore, J. A.	245	145
Marcus, T.	183	111	Meikle, T.	996	608	Moore, W. E.	348	211
Marquis, J.	1016	628	Meixell, G. W.	745	487	Moore, D. O. and Reid, F.	354	213
Marquiss, A. E. C. and			Melancon, E. D. and Ay-			Moore, J. A.	411	247
Emerson, C.	429	271	rand, J. H., Sr.	668	381	Moore, G. H.	465	292
Marsh, G. W.	3	1	Mell, J. B.	838	538	Moore, G.	467	293
Marsh, 2nd C.	217	131	Mellon, W. H.	145	87	Moore, J.	507	319
Marsh, 2nd C.	218	131	Mendenhall, W. D.	558	335	Moore, J. B.	508	319
Marsh, 2nd C.	277	169	Meritt, R. C.	667	381	Moore, G.	564	338
Marsh, 2nd C.	277	170	Merk, M.	930	576	Moore, G.	630	364
Marsh, 2nd C.	607	354	Meroney, T. J.	6	3	Moore, E.	844	539
Marsh, W.	390	234	Merrill, F. C.	86	57	Moore, A. N.	862	545
Marsh, J. S.	467	293	Metcalf, W. W.	39	33	Moore, T. M.	886	553
Marshall, S. M. and Co-			Mettler, J. I.	449	278	Moore, T. M.	893	555
burn, J. W.	369	227	Mettler, W. J. and J. I.	453	280	Moorers, J.	510	319
Marshall, H.	863	546	Mettler, J. I. and W. J.	454	280	Morgan, L. B.	415	248
Martin, E. C.	307	187	Mettler, J. I. and W. J.	454	280	Morrel, A. H.	200	123
Martin, J. H. and Brad-			Metz, S. P. and Rohrer, M.	184	111	Morrill, J. W.	305	186
shaw, C. D.	319	191	Mickle, J. G. and Dearing,			Morris, D. and Speirs, H.	167	99
Martin, A. T., Jr.	359	215	F. F.	230	137	Morris, D.	586	347
Martin, H. A.	552	333	Middlebrooks, J.	206	125	Morris, J. R.	782	511
Martin, J.	647	371	Middleditch, J.	621	360	Morris, B. F.	961	589
Martin, H. D.	724	469	Miles, J. and E. P.	44	35	Morrison, J. B.	88	58
Martin, A. D.	745	487	Miles, J. and E. P.	47	36	Morrison, J.	437	274
Martin, L.	801	517	Miles, W. A.	417	249	Morrison, W.	517	322
Martin, J. M., Jr.	897	558	Miles, O. E.	819	225	Morrison, W.	541	330
Martin, L. V. B.	1071	654	Miles, E. M.	820	525	Morrison, S. D., D. A. and		
Martin, W. J.	1091	669	Milholen, W. L.	267	166	J. B.	596	350
Maschka, A.	696	451	Millen, W. H. H.	1006	623	" " " " (R)	596	350
Mason, J. R.	422	259	Miller, S. H.	26	18	Morton, E. H.	447	277
Mason, T. J.	744	487	Miller, R. J.	79	54	Mosely, D.	218	131
Massee, D. W.	252	149	Miller, J. G.	87	57	Mosher, W. H.	394	235
Masson, J.	667	381	Miller, L. and Lighthall, H.	160	95	Mosher, I. and Eddy, W.	854	542
Masters, Wm.	96	62	Miller, J. T.	310	188	" " " " (R)	855	542
Masters, B. F.	122	78	Miller, E. and B.	341	209	Moss, C. L.	906	261
Mathes, W. McC.	798	516	Miller, S. J. and Wright,			Mott, J.	935	578
Mathews, W. L.	29	19	L.	347	211	Mott, J.	935	578
Matteson, D. C. and Wil-			Miller, A.	433	272	Mowry, A. J. and Chance,		
liamson, T. P.	136	83	Miller, J. C., Clemens, S.			H.	1094	670
Matteson, D. C. and Wil-			A. and G. H.	436	273	Moyers, A. M. and G. W.	598	351
liamson, T. P.	475	295	Miller, A.	437	274	Muir, A. H.	139	84
Matteson, D. C. and Wil-			Miller, A.	447	277	Mullens, W.	237	140
liamson, T. P.	555	334	Miller, W. D.	471	294	Munson, J. D.	1097	671
" " " (R)	555	334	Miller, T.	494	312	Murfee, J. W.	1068	653
" " " (R)	555	335	" " (R)	494	512	" " (R)	1069	653
Mathews, E. G.	72	52	Miller, T.	499	316	Murfee, J. W.	1070	654
Mathews, E. G.	121	78	Miller, P. G.	633	365	Murfee, J. W.	1071	654
Mathews, E. G.	125	79	Miller, G. C. and Henry,			Murphy, E. B. and Bramell,		
Mathews, E. T.	222	132	R.	932	577	C. D.	360	215
Mathews, E. G.	381	231	Miller, H.	1026	631	Myers, I. L.	97	63
Mathews, E. G.	568	340	Milliron, G.	273	168	Myers, S.	506	318
Mathews, J. M.	654	374	Milroy, J. W.	571	341	Myers, C.	619	359
Mathews, E. G.	938	580	Milroy, J. W.	773	507	Myers, C.	632	364
Mathews, E. G.	943	582	Milroy, J. W.	786	512	Myers, C.	703	453
Mathews, E. G.	946	583	Mims, M. and S. J.	835	537	Myers, D.	769	505
Mathews, E. G.	959	588	Miner, J. G.	1074	655	Myers, C. and Gummow,		
Mathews, E. G.	959	592	Miner, J. G.	1075	655	W.	1077	656
Mathis, J. T. and Harri-			Minor, J. O.	617	358	Nabers, T.	1076	655
son, G. W.	1070	653	Mitchel, J. F.	97	63	Nance, A. P.	250	148
Mattoon, A. B.	47	36	Mitchell, R. B.	149	89	Napier, J.	81	55
Mattox, T. T.	1069	653	Mitchell, J. D.	229	136	Nash, C.	133	82
Maxwell, D. N.	326	194	Mitchell, J. H.	265	166	Nash, J.	492	310
Mays, W. L. and Tigrett,			Mitchell, H.	545	331	Nash, J.	507	319

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	<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>
Nason, C. O.	84 56	Olmstead, S. J.	411 247	Pentreath, J.	628 363
Neal, W. S.	240 142	Olmstead, S. J.	466 293	Perceful, Z. R.	1086 659
Nearn, M. L.	224 134	Olmsted, O. A.	1032 633	Perfater, G. S.	120 77
Necker, C.	101 64	Olson, J. A.	60 59	Perkins, E. H. and S. D.	284 172
Neely, B. F.	355 214	Olson, H.	618 358	Perkins, W. M.	309 188
Neely, B. F.	357 214	O'Neill, W.	931 577	Perkins, C. D.	387 233
Neff, J. Jr.	955 586	O'Neill, W.	844 539	Perry, G. L.	358 214
Nellis, A. J.	30 20	O'Neill, W.	866 547	Perry, S.	857 543
Nelson, E. H.	224 133	Opp, H.	425 260	Peters, D. and Pauly, J.	
Nelson, D.	696 451	Ormiston, J.	501 317	W.	556 335
Nevil, G. W.	450 278	Ormiston, J.	514 321	Peterson, A.	326 194
Nevison, J. and E.	430 271	Ormiston, J.	525 324	Peterson, G. W.	633 365
Newbold, C.	904 309	Ormond, M.	623 360	Peterson, G. W.	966 591
Newbold, C.	491 309	Orrick, N. C.	665 380	Petitjean, F. J.	880 551
Newcomb, T. and Byrd,		Orrick, N. C.	898 558	Pettengill, C. B.	945 583
G. W.	204 124	Osborn, O.	578 344	Petticrew, D.	377 229
Newcomb, D. H. B.	927 576	Osborn, O.	589 348	Petit, J. P.	723 469
Newhart, J.	71 52	Osburn, A. and Wulzen,		Pfeil, J. C.	118 76
Newsom, A.	890 555	E.	1091 669	" " (R)	118 76
Newsom, G. S.	780 510	Otis, E. G.	998 620	Pfouts, L. S.	680 387
Newsom, A.	897 557	Overshiner, G. J.	627 362	Phillips, B. F.	53 38
Newsom, I. V.	904 560	Owen, L. B.	255 151	Phillips, O. F.	637 367
Newton, R.	123 78	Owen, E.	303 185	Phillips, O. F.	646 371
Newton, J. R.	283 171	Oxenford, J.	148 88	Phillips, O. F.	880 551
Newton, R.	1095 670	Page, G.	721 469	Phillips, J.	988 608
Nichols, J. R.	134 82	Pagett, W. F. and Gard,		Piatt, J. J.	639 367
Nichols, J. B.	240 142	S. H.	382 231	Pierce, W.	317 190
Nichols, W. A.	312 199	Pagett, W. F.	578 344	Pierpont, J.	146 88
Nichols, W. T.	799 517	Pagett, W. C.	835 537	Pierpont, J. Tuttle, S. S.	
Nichols, W. D. and Clark,		Pagett, W. F.	837 537	and Thomkins, C. B.	394 235
N. W.	1065 652	Pagett, W. C.	1055 649	Pierpont, J.	546 332
Nicholson, W.	530 326	Paine, H. E.	1015 627	Piland, A. H.	884 552
Nisbett, S.	494 312	Painter, W.	636 366	Pinkham, J.	128 80
Nitschman, F.	644 370	Palamountain, I. B.	844 539	Pinkham, J.	131 81
Nitschman, F.	671 383	Palm, J. H.	101 64	Pinney, N. G.	665 380
Noble, H. T.	93 60	Palmer, E. A.	65 49	Pinney, N. G.	706 455
Noble, H. T.	153 91	Palmer, L. E.	561 337	Pirch, A.	327 194
Noble, W.	726 471	Palmer, N.	731 473	Pirkle, W. J.	1086 659
Noftz, C. F.	864 546	Palmer, N.	731 473	Pirrung, G.	821 525
Nolte, H.	867 547	Palmer, N.	803 518	Pitcher, L. B.	117 76
Norris, J. B.	50 37	Parish, E. and W., Jr.	439 274	Pitcher, R. L. and Elwood,	
Norris, J. B.	609 355	Parish, G. W.	886 553	R.	120 77
Norris, J. B., Bowers, M. M.		Parker, W. T.	222 132	Pitkin, J. H.	789 513
and Dimmock, W. C.	619 358	Parker, C. A. and G. R.	392 234	Pitts, H. W.	199 123
Northcott, J. H.	1018 629	Parker, J.	555 334	Pitts, W. C.	465 292
Northcutt, E. W.	254 150	Parker, W. F.	872 549	Pitts, J. M.	902 559
Norton, J. B.	500 316	Parker, T. and Downing,		Place, J. B.	50 37
Norton, H.	694 450	J.	956 587	Plank, J.	499 316
Norton, H. L.	721 469	Parker, T.	953 585	Platt, N.	547 332
Notman, W.	744 486	Parker, E. T.	1055 649	Platt, H. M.	755 500
Notman, G.	744 487	Parlett, J. A. and Thomp-		Poindexter, F.	949 584
Nott, G. G.	160 95	son, J.	539 329	Polen, C. W.	399 237
Nourse, J. and Howe, J. A.	88 58	Parmley, E. L.	746 487	Pollock, J.	479 297
Nourse, J.	960 588	Parrish, W.	601 352	Pomeroy, H. A. G. and	
Nourse, J. and Howe, J. A.	962 589	Parsons, J. W.	248 147	Hudson, R. F.	759 501
Nourse, J. and Howe, J. A.	966 591	Parsons, W. W.	951 585	Pond, J. N.	344 210
Nusbaum, A. B. C.	779 510	Patery, J. P.	662 379	Pool, W. R.	867 547
O'Bryan, C. and Kreps,		Pates, T.	152 90	Pool, Wm. R.	884 552
H.	854 542	Patterson, J. A. B.	46 30	Pope, S. W.	78 54
" " " " (R)	854 542	Patterson, J. D.	251 148	Pope, S. W.	413 247
O'Callaghan, J. D.	396 235	Pattillo, R. M.	878 551	Pope, S. W.	627 362
O'Callahan, J. D.	382 231	Patton, W. G.	243 143	Pope, S. W.	872 548
O'Connor, P. and Collins,		Paul, D. H.	47 36	Pope, S. W.	986 607
M.	313 189	Paullin, P. E.	12 6	Porter, J. F. F.	145 87
Odell, J. K. and Little, W.		Payne, J. M.	475 295	Porter, R. D.	874 549
S.	589 348	Peacock, G.	474 295	Porter, A. A.	1084 658
Ogle, W.	506 318	Peacock, A. and S.	521 323	Posey, J.	639 367
Oldendorph, H. and J.	156 93	Peck, J. D.	2 1	Post, J. W.	692 450
Oldendorph, J., Jr.	644 369	Peck, E.	25 18	Potter, M.	134 82
Oliver, J.	142 86	Peck, E.	754 500	Potter, S. T. W.	308 187
Oliver, J.	592 349	Pedrick, R. R.	808 521	Potter, J. C.	414 247
Oliver, J.	600 351	Peek, J. A.	677 386	Poundstone, C. N.	86 57
Oliver, J.	608 354	Peek, J. A.	704 454	Poundstone, C. N.	786 512
" " (R)	608 354	Peek, S. T.	845 538	Powell A. G.	221 132
Oliver, J.	632 364	Peel, L. G.	865 546	Powers, J. W.	96 62
Oliver, J.	712 457	Peet, W. R.	326 194	Powers, J. W.	99 64
Oliver, J.	713 457	Peet, R.	558 335	Prairie, J. P.	239 141
Oliver, J.	714 458	Pelsor, P. D. and H. C.	798 516	Pratt, I. C.	439 274
Olmstead, S. J.	422 259	Penning, M.	567 339	Pratt, C. A.	732 473

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	Plate	Claim		Plate	Claim		Plate	Claim
Prentiss, S. and Flint, G.	572	341	Reese, G. and P.	644	369	Robertson, T. A.	264	166
Prentiss, M.	861	545	Reese, F.	1078	656	Robertson, T. A.	840	538
Preston, A. A.	28	19	Reich, J.	634	366	Robinson, J.	25	17
Preston, A.	530	326	Reid, W. G.	895	556	Robinson, C.	90	59
Preston, J.	877	550	Renak, F.	612	356	Robinson, C.	93	61
Preston, J.	888	554	Revercomb, J.	694	450	Robinson, J. G.	121	78
Price, Levi.	9	4	Reynolds, E. D. and O. B.	163	96	Robinson, J. A.	369	227
Price, W.	200	123	Reynolds, J.	271	168	Robinson, N.	497	314
Price, W.	222	132	Reynolds, J.	272	168	Robinson, N.	579	344
Price, J. F.	235	139	Reynolds, E. D. and O. B.	377	230	Robinson, J. S. and E. C.	658	376
Price, W.	606	353	Reynolds, S. H.	451	279	Robinson, J. S. and E. C.	670	383
Price, W.	838	337	Reynolds, I.	521	323	Robinson, G.	1068	633
Price, J. A.	885	553	Reynolds, I.	693	450	Rockwood, L. O.	557	335
Price, B.	935	578	Reynolds, S. G.	730	472	Roden, A.	536	328
Prillaman, M.	75	53	Reynolds, F. F.	858	544	Roden, A.	879	551
Prillaman, M.	78	54	" " (R)	858	544	Rodgers, W.	3	1
Primmer, R. M.	321	192	Reynolds, J.	1007	623	Rodgers, N.	852	541
Prindle, R. B.	66	50	Reynolds, S. G.	1010	625	Rodman, J. M.	1060	650
Pritchard, J. P.	943	582	Reynolds, T. H.	1074	655	Rogers, J. T.	102	65
Prouty, D. and Mears, J.	498	315	Rhoades, A. and Tash, W.	4	2	Rogers, H. D.	539	329
Prouty, D. and Mears, J.	502	317	Rhodes, D.	68	51	Rogers, H. D.	695	451
Prouty, D. and Mears, J.	504	318	Rhodes, M. G. and Skaggs,			Roland, H. W. and Forbis,		
Prouty, D.	513	320	J. M.	848	540	E.	432	272
Prunelle, R. H.	220	132	Rice, E. S.	117	76	Roles, R.	584	346
Prutzman, J. P., J. E. and			Rice, G. W.	268	167	Romaine, R.	997	619
McIntire, J. P.	626	362	Rice, F., Apple, A. and M.	818	524	Ronat, L.	939	580
Puckett, K.	208	127	Rich, J.	516	324	Roney, G. W.	845	540
Pugh, J. L.	285	172	Rich, J.	524	324	Roop, J.	1079	656
Pullman, J. B.	1068	653	Rich, J. and M.	890	554	Rorabough, J.	924	575
Purefoy, A. F.	674	384	Rich, M.	923	574	Rose, M. P.	595	350
Putnam, T. E.	601	352	Richard, A.	670	382	Rose, R. E.	1039	636
Pykiet, G. F.	127	80	Richards, M. and Vande-			Ross, M.	620	359
Pyle, I. N.	357	214	grift, J.	554	334	Ross, M.	645	370
Query, E. M.	1070	654	" " " " (R)	554	334	Ross, M.	674	384
Quick, J. A.	725	470	Richards, M.	124	79	Ross, A. M.	163	96
Quigley, T. B.	507	319	Richards, J. M.	286	173	Ross, A. W.	390	233
Quigley, T. B. and Hall, H.	511	320	Richards, H. G.	323	193	Ross, P. A.	862	545
Quimby, W. F.	760	502	Richards, W.	902	559	Rouse, B. C.	423	200
Quimby, W. F. and Lob-			Richardson, L. W.	473	295	Rouse, T.	797	516
dell, G. G.	762	502	Richardson, W. C. B.	794	515	Routt, A. P.	305	186
Quimby, W. F. and Lob-			Richardson, T. E.	837	537	Routt, A. P.	448	277
dell, G. G.	770	505	Richardson, D. C.	861	545	Rowell, G. D.	142	78
Quin, J.	482	298	Richardson, L. B.	1093	670	Roys, J. S.	390	324
Quin, J.	676	386	Richter, C. F.	849	540	Royse, P. E.	752	499
Rabb, W. S.	865	547	Rick, F.	143	86	Rubsam, J. B.	360	215
Rabb, W. S.	942	582	Rickard, A.	26	18	Ruch, G. W.	610	355
Rafferty, J. T.	413	247	Rickard, L.	314	189	Ruch, J.	633	365
Railey, J. A.	330	196	Rickard, A.	875	549	Kuddasill, M. E.	247	146
Rains, W. O.	254	150	Rider, L. P.	467	293	Rue, N.	384	232
Rakestraw, Y.	571	341	Rider, L. P.	474	295	Rue, G. W.	388	233
Rall, W.	601	352	Rider, Z.	1025	631	Ruggles, C. F.	384	232
Ramage, J. O.	841	538	Ridley, H. A.	901	559	Ruhlmann, E.	398	236
Rams, T.	697	451	Rigby, A.	1083	658	Ruhlmann, E.	399	237
Ramsay, G. M.	997	620	Rigell, M. and Ivey, W.			Rulofson, I.	529	326
Ramsay, G. M.	1003	622	D.	342	209	" " (R)	530	326
Randolph, J. H. Jr.	787	512	Riggle, M.	354	214	Rulofson, I. and DeGarmo,		
Rankin, I. N.	1059	650	Riggle, I.	582	345	D.	539	393
Rappelye, T. S. and T. W.	1061	650	Riggan, J. H.	641	369	Rumfelt, H. W.	225	134
Rarick, B. F., W. P. and			Riley, S.	866	547	Runstetter, A. and Win-		
J.	1097	671	Ringin, G.	563	338	deck, A.	211	128
Rawls, J. G.	243	144	Ringin, G.	620	359	Runyon, J. and Ingersoll,		
Ready, W. B.	706	455	Rittenhouse, D. G.	272	168	G.	122	78
Ream, G. W.	588	348	Rivers, A. W. L.	851	541	Runyon, J.	133	82
Reams, C. F.	222	133	Riviere, A.	878	551	Russell, D.	753	499
Reancy, W.	529	326	Roach, L.	755	500	Russell, G. W.	1092	669
Reasin, J. F.	39	33	Robb, J.	693	450	Rust, R.	389	233
Rector, H. T.	53	38	Robb, D.	925	575	Ryan, J. F.	990	608
Redman, J.	1097	671	Robbins, P. D.	228	135	Sackett, C. E.	12	6
Redmond, O.	1014	626	Robbins, D. F. and Morri-			Sackett, C. E.	802	518
Reed, S. J.	347	211	son, S.	432	272	Sackett, C. E.	804	519
Reed, J. E.	385	232	Robarts, J. L.	422	259	Sackett, C. E.	805	520
Reed, S.	392	324	Roberts, W.	183	111	Sackett, C. E.	806	520
Reed, J. W.	605	353	Roberts, A. F.	224	133	Sackett, C. E.	807	520
Reed, L. M.	699	452	Roberts, G. W.	256	152	Sackett, C. E.	808	521
Reeder, A.	41	33	Roberts, J. W.	320	192	Sackett, C. E.	811	522
Reedy, J.	345	210	Roberts, S. J.	510	320	Sackett, C. E.	814	523
Reese, F.	81	55	Roberts, M. L.	725	470	St. John, G. B.	161	95
Reese, F.	271	168	Roberts, E. B.	773	507	St. John, C.	553	334
Reese, E.	425	260	Roberts, A. F.	1072	654	St. John G. B. and Under-		

GENERAL ALPHABETICAL INDEX.

	Plate	Claim		Plate	Claim		Plate	Claim
wood, J. R.	810	522	Sheets, I. S.	314	190	Smith, J. C.	500	316
Saladee, C. W. and Simp-			Sheets, I. S.	318	191	Smith, M.	503	317
son, T.	605	451	Shelton, G.	84	56	Smith, A.	509	319
Saladee, C. W.	1008	624	Shelton, G.	599	351	Smith, D. H. and E. E.	534	327
Salsbury, G. M. and, G. S.	544	331	" " (R)	599	351	Smith, J.	536	328
Salvesen, V.	331	197	Shemwell, O. M.	136	83	Smith, G. K. and Strasser,		
Sample, J. R.	621	359	Shepard, J.	268	167	J.	566	339
Sanborn, A.	82	55	Shepard, J.	575	343	Smith, H.	589	348
Sanborn, A.	932	577	Sherman, J. H.	116	75	Smith, A. C.	590	348
Sanborn, A.	948	584	Sherman, D. B.	798	516	Smith, H. B.	599	351
Sanders E. A.	94	61	Sherrill, J.	1098	671	Smith, H. D.	615	357
Sanders, E. A.	146	87	Sherwood, A. H.	386	232	Smith, J. A.	649	372
Sanders, W. M.	232	138	Sherwood, H. B.	400	237	Smith, G. E.	668	381
Sanders, N.	671	383	Sherwood, L.	777	509	Smith, R.	709	456
Sandiford, R.	71	52	Shickel, J.	627	362	Smith, N. S.	756	500
Sandlin, W.	280	171	Shields, F. M.	210	128	Smith, A.	843	539
Sanford, A.	99	64	Shields, F. M.	280	171	Smith, D. W.	853	542
Sanford, J. W.	376	229	Shipp, J. W. and Crenshaw,			Smith, E. J. and Griswold,		
Sanford, T.	527	325	C. W.	534	327	H.	925	575
Sanford, O. P.	882	552	Shipp, W. T., Peterson, C.			Smith, H. B.	934	578
Sater, H. H.	164	97	J. and McLurd, R. L.	879	551	Smith, A. B.	987	607
Sattler, H.	969	593	Shiver, C. J.	848	540	Smith, J. K.	1008	624
Sattler, H.	973	595	Shogren, A.	69	51	Smith, D. B.	1083	658
Sattley, M.	120	77	Shotwell, S. L. and Hicks,			Smith, M. T.	1090	669
Sauls, W. W.	239	141	S. R.	1008	624	Smith, G. B.	1092	670
Saunders, T.	269	167	Shular, L. H.	351	212	Smith, A.	1094	670
Saunders, W. R.	847	540	Shunk, A. Sr.	573	338	Smoot, T. E.	397	236
Saunders, T.	858	544	Seiverling, H. C.	77	54	Smoot, J., Sr.	629	363
Saunders, I. J.	892	555	Sigrist, F.	66	50	Snead, C. W.	870	548
Sayer, S. D.	583	346	Simmons, M. H.	98	63	Snider, I.	461	291
Schenck, J. C. F.	704	453	Simmons, A. and M.	361	216	Snider, I.	692	449
Schlessman, M.	885	553	Simonds, F.	674	384	" " (A. I.)	692	450
Schmidt, L.	977	597	Simonson, G.	1013	626	Snodgrass, F. B.	901	559
Schofield, J.	87	58	Simpson, J.	96	62	Snow, M.	266	166
Schram, A. C.	160	95	Sims, B. L.	9	4	Snow, G. B.	362	216
Schram, A. C.	425	260	Sims, Z. B.	75	53	Snyder, W. W.	452	279
Schubert, M.	746	487	Sinclear, H. B.	515	321	Snyder, J.	743	486
Schuchard, J.	814	523	Singer, J.	871	548	Snyder, C.	870	548
Schuetz, A.	886	553	Singleton, D. T.	869	548	Snyder, A.	871	548
Schultz, J. D. and Adams,			Sipe, A.	1085	659	Sommers, H. B.	304	186
B.	771	506	Sisson, J. G. and Delana,			Soniat, L.	789	513
Scott, R.	382	231	L.	316	190	Somberger, R	10	4
Scott, J.	451	279	Sivertsen, B. E.	777	509	Soule, S. W.	607	354
Scoville, T. S.	758	501	Skelton, W. M.	391	234	Sparkes, J. H.	453	280
Scoville, I. and H. H.	949	580	Skillings, H.	800	517	Sparkes, M. P.	629	363
Scoville, T. S.	1057	649	Skinner, J. B.	114	74	Spadden, H. B.	350	212
Seaman, J.	638	367	Skinner, J. B.	115	75	Speer, J.	205	125
Seaman, J.	652	374	Skinner, J. B.	116	75	Speer, J. A., Jr.	268	167
Search, C. F.	95	62	Skinner, H. M.	126	79	Speer, W. W.	285	172
Seeger, G., Loveless, J. W.			Skinner, H. M.	133	82	Speer, W. W.	655	375
and Throp, J. W.	349	212	Skinner, J. B.	557	335	Speer, W. W.	656	376
Seegmiller, S.	32	20	Skinner, W. W.	722	469	Speer, W. W.	945	583
Seely, L. J.	85	57	Slocum, M. D.	149	89	Speer, W. W.	989	908
Seely, S. F.	1063	651	Sloop, H.	838	580	Speer, J. T.	989	608
Selden, D. J.	697	451	Small, J. B., Holbrook, F.			Speer, J.	1005	622
Selick, H.	580	345	F. and Matthews, E. G.	77	54	Spence, A. L.	231	137
Selick, H.	605	353	Small, W.	502	317	Spencer, R. W.	287	173
Sellers, J. C.	206	125	Smawley, H. B.	310	188	Spencer, H. H.	814	523
Semmes, R. T.	991	609	Smeltzer, D. B. D.	187	112	Spencer, D. B.	998	620
Sessions, F. E. and Knox,			Smiley, W. H.	1077	656	Spicer, A. J.	128	80
S. A.	472	294	Smith, L. E.	85	56	Spiehlman, G.	562	337
Sessions, F. E.	960	588	Smith, F. C.	111	73	Spink, M. A.	113	73
Sewell, J.	883	552	Smith, F. F.	120	77	Spink, M. A.	165	98
Seyler, B.	516	322	Smith, J. M.	125	79	Spofford, M.	751	499
Seymour, J.	469	293	Smith, J. M.	130	81	Sprague, C. A. and Clardy,		
Shabley, C.	769	504	Smith, G. K.	143	86	J. W.	237	140
Shaffar, L. W.	541	329	Smith, J. H.	242	143	Sprague, H.	519	322
Shalters, M.R. and Ray, S.	862	546	Smith, J. F.	248	146	Spratt, W. S.	380	230
Shannon, T. E.	201	123	Smith, J. S.	271	168	Spratt, W. S.	548	332
Shares, D. W.	741	485	Smith, J. N. and Buckley,			" " " (R)	548	332
Sharkey, P.	264	166	W. O.	313	189	Springsteen, A. B.	276	169
Sharp, T.	23	17	Smith, J. B.	369	227	Sprouse, W. T.	423	259
Shaw, J. H.	77	54	Smith, G.	374	228	Sprouse, W. T.	501	317
Shaw, H. F. and G. F.	956	586	Smith, G. W.	376	229	Sprouse, W. T.	693	450
Shaw, H. F. and G. F.	962	589	Smith, W. D.	385	232	Squires, E.	1086	659
Shaw, P.	997	619	Smith, R. P. and Gates, J.			Stacy, W.	318	191
Shearer, S.	511	320	R.	446	277	Stacy, W.	329	196
Shedd, W. F.	67	50	Smith, A.	462	291	Stacy, W.	329	196
Sheehan, T.	125	79	Smith, D.	470	294	Stafford, D. F.	303	185

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	Plate	Claim		Plate	Claim		Plate	Claim
Stafford, C. W.	442	275	Swartz, D.	518	322	Tilton, W. C.	223	133
Standart, S. W.	312	189	Swartz, D. and S.	520	323	Tilton, D. L.	1089	669
Standish, P. H.	774	507	Swartz, R. E.	732	473	Tingley, J. M.	611	355
Strandish, P. H.	1015	627	Swartz, P. E. and Arnot,			Tinkler, J.	922	574
Stanger, M. E.	861	545	A.	970	593	Titus, W. D.	566	339
Stanley, H.	722	469	Sweeny, R.	493	311	Tobias, B.	308	187
Stanley, H.	767	504	Sweetland, H. H.	949	584	Tolle, M.	1	1
Stansbury, T. A.	550	333	Sweitzer, J.	538	329	Tomlin on, J.	545	331
Starke, P. H.	536	328	Swenson, N., Lindquist, J.			Toms, Z. and McMullen,		
Starke, P. H.	568	340	S. and Hedlund, C.	669	382	L. W.	275	169
Starke, P. H.	571	341	Swift, A.	453	280	Tounley, E. A. and Fried-		
Starke, P. H.	595	350	Swofford, J. P.	278	170	rich, E. S.	1017	628
Starke, P. H.	606	353	Sykes, C. W.	934	578	Towers, W. M.	635	366
Stark, T. C.	1031	632	Talley, R. J.	896	557	Towers, W. M.	639	368
Starnes, S. S.	563	338	Tallmadge, N. S.	1062	650	Towers, W. W.	885	553
Starritt, J. D.	788	513	Tally, T. J.	810	522	Towers, W. McG. and		
Startzman, W. H.	860	545	Tanger, D. B.	102	65	Sullivan, A. R.	903	559
Stearns, L. M.	67	50	Tarpley, J. H.	76	53	Townsend, J. T.	464	292
Stebbins, L.	823	527	Taplin, H. T.	778	509	Tracy, J. D. and Platt, J. F.	87	57
Steen, C.	857	544	Tarnutzer, J. P.	771	505	Tranter, J., Kinsey, J. and		
Steinmetz, C. P.	939	580	Tate, E.	965	591	Carr, J. M.	781	510
Steller, C. E.	121	78	Taveau, A. L.	1020	629	Trantham, T. H.	275	169
Steller, C. E.	147	88	Tavenner, E. C. and			Travis, D. W.	323	193
Stem, H.	577	343	Nesmith, O.	521	323	Traxler, F.	24	17
Stephens, A. J.	319	191	Taylor, J. V.	341	209	Treffitz, L. and Slimpert, G.		
Stephens, A. J.	776	509	Taylor, B.	378	230	H.	379	230
Stephens, H.	859	544	Taylor, C. B.	496	313	Trigalet, F.	387	233
Stephenson, W.	628	363	Taylor, A.	496	314	Trissler, W. H.	707	455
Stevens, T. S.	756	500	Taylor, H.	501	317	Trissler, Wm. H.	707	455
Stevens, J.	756	500	Taylor, A.	510	319	Trouard, A.	786	512
Stevens, L.	759	501	Taylor, A. C.	673	384	Trowbridge, R.	467	293
Stevens, A. J.	1019	629	Teague, J. C.	8	3	True, L. W.	246	145
Stewart, D.	72	52	Teague, J. C.	266	166	Trump, G.	130	81
Stewart, E.	80	55	Teague, A.	506	318	Trump, J.	924	574
Stewart, S. M.	592	349	Teague, A.	579	344	Tucker, A. W.	479	297
Stewart, J. A.	694	451	Teeter, I.	923	574	Tucker, R. C.	715	459
Stewart, U. T.	865	546	Tefft, J. S.	506	318	Tufts, S. G.	940	581
Stewart, L.	1018	629	Temples, J. J.	1098	672	Tull, J. W.	354	213
Stickney, B. F.	751	499	Templin, T. T.	991	609	Turley, M.	710	356
" " (R)	114	74	Terrel, T.	43	35	Turner, W. J.	716	459
Stoddard, J. C.	203	124	Terrel, T.	856	543	Turner, W. W.	899	558
Stoddard, J. C.	757	500	Terrell, H. D.	285	172	Turner, J. R. and Jacobs,		
Stoddard, W.	1000	621	Tessier, M.	579	344	J.	1080	656
Stillman, W. W.	113	74	Thayer, A. P.	1011	625	Turnipseed, E. B.	219	131
Stoker, A. W.	552	334	Themar, R. and Brand			Tuthill, T. J.	751	499
Stone, W. H.	49	37	Brothers,	1074	655	Tuttle, B. W.	131	81
Stone, J. C.	796	516	Thom, D. K.	263	165	Tuttle, B. W.	131	81
Stone, R.	1044	640	Thom, J. W.	478	296	Tuttle, S. D.	1066	652
Stoner, J. B.	64	49	Thomas, C. H.	134	82	Twigg, C. W.	152	90
Stoner, A. F.	776	508	Thompson, N. S.	49	37	Tyler, W. H.	940	581
Storle, O. O.	700	453	Thompson, C. R.	143	85	Tyner, W. L.	453	280
Storm, J. H.	52	38	Thompson, M. Y.	393	235	Tyson, E. P.	245	145
Storm, J. H.	52	38	Thompson, L. P.	480	297	Uehling, T.	778	509
Story, J. T.	594	349	Thompson, T.	526	325	Underhill, H. R.	963	590
Straight, H. D.	624	360	Thompson, S. R.	573	341	Underwood, F. J.	123	78
Strait, R. E.	727	971	Thompson, A.	770	505	Underwood, J. B.	223	133
Strait, W.	958	587	Thompson, J.	781	511	" " (R)	224	133
" " (R)	958	587	Thompson, J. T.	849	541	Underwood, J. K.	794	515
Strait, W.	964	590	Thompson, G. W.	936	578	" " (R)	795	515
Strait, W.	971	593	Thompson, G. W.	943	582	Underwood, J. K.	796	516
Stratton, C. H.	954	586	" " (R)	943	582	Underwood, J. R. and St.		
Street, H. G.	267	167	Thomson, G. and J.	140	85	John, G. B.	811	522
Stridd, E. F.	614	357	Thomson, R. B.	146	87	Urdike, R.	11	5
Stridd, E. F.	647	371	Thomson, R. B.	634	365	Urie, J.	566	339
Stripe, I.	449	278	Thorn, E.	437	274	Urie, C.	603	352
Strong, H. C.	10	4	Thornton, A. B.	352	213	Urie, J.	613	356
Strong, C. C.	704	454	Thornton, A. B.	356	214	Urie, J., Sr.	649	372
Stroop, J.	1	1	Thornton, J. B., McDonel,			Urie, T. S.	706	455
Stuart, I. W. and Allen,			G. H. and Hale, A.	1095	670	Utey, G.	569	340
J. G.	328	195	Thraillkill, S.	304	186	Utey, G.	853	542
Sturdevant, O.	444	276	Throp, G. W.	701	453	Utey, G.	1057	649
Sturtevant, Z. W.	941	581	Thurman, J. W.	926	575	Vairin, A. L. P.	1080	657
Sustaire, J. T.	241	142	Thurston, F. G.	279	170	Vampill, R.	396	235
Sutton, E. H.	226	134	Tice, I. P.	1024	630	VanBrocklin, John.	64	49
" " (R)	227	135	Tichenor, W. B.	324	193	VanCamp, E.	931	577
Sutton, W. H.	1084	658	Tietjens, H. H.	376	229	Vanegrift, J.	561	337
Swart, J.	185	111	Tietz, J.	937	579	" " (R)	562	337
Swart, J.	268	167	Tiffany, J. C.	305	186	Vanegrift, J.	673	384
Swartz, David. (A. I.)	1	1	Tilley, J. R.	799	517	VanDuine, M. and De-		

GENERAL ALPHABETICAL INDEX.

	Plate	Claim		Plate	Claim		Plate	Claim
Jonge, J.	48	36	Warren, T. P.	270	167	White, C.	567	339
Van Every, C. M.	987	607	Warren, A.	376	227	White, L. B.	606	353
Van Loan, W. W.	421	259	Warren, J.	516	322	White, M. F.	613	356
Vann, J. A.	91	60	Warren, W.	528	325	White, L. B.	620	359
Vannatta, H.	320	192	Warren, W.	537	328	White, L. B.	620	359
Vars, N.	934	578	Walsh, W. H.	227	135	White, L. B.	675	385
Vaughan, G. B.	50	37	Washburn, A. W.	201	123	White, S. M. and Francis,		
Vaughan, G. B.	359	215	Washburn, H.	592	349	J. A.	711	457
Vaughan, S. O.	533	327	Washburn, A. W.	652	374	White, L. B.	875	549
Vaughn, J. B.	538	329	Washburn, A. W.	839	538	Whitehead, J.	754	499
Vaughn, J. and Chamness,			Wasson, W. T.	455	281	Whitehall, N.	1075	655
E.	774	507	Watkins, J. T.	625	361	Whitehurst, R. W.	661	378
Veber, W., Jr.	43	35	Watrous, J. J.	226	134	Whitehurst, R. W.	900	558
Vernon, G. W.	678	387	Watson, D.	430	271	Whitesell, D.	321	192
Vertrees, J. C.	596	350	Watson, A.	431	271	Whiteley, W.	469	294
Vick, R. A.	263	165	Watson, A.	433	272	Whiteley, S.	852	542
Vickery, D. F. and Prickett,			Watson, A.	440	275	Whitford, L. R.	186	112
W. P.	959	587	Watson, W. M.	604	353	Whiting, E. G.	503	317
Vincent, C. C.	166	99	Watson, W.	847	540	Whiting, E. G.	549	332
Vincent, R.	529	326	Watson, F.	938	580	Whiting, E. G.	630	363
Vinnedge, J. R.	331	197	Watson, E. S.	1082	657	Whitman, E. B.	155	92
Voigt, C. I.	352	213	Watt, G.	74	53	Whittemore, J. R.	745	487
Von Achen, J.	374	228	Watt, G.	411	247	Whittemore, H. B.	881	552
Von Phul, H., Jr. and Mal-			Watt, G.	505	318	Whittlesy, A. and A. K.	111	73
lon, J.	791	514	Watt, G.	524	324	Whittick, A. H.	1075	655
Voorhis, O. W., Mapes, S.			" "	524	324	Wiard, E.	5	2
H. and Voorhis, W. M.	448	278	Watt, G.	526	325	Wiard, E.	5	2
Vosburg, H.	391	234	" "	527	325	Wiard, H.	31	20
Wadleigh, S. F., Roberts,			" "	527	325	Wiard, E.	135	82
O. N. and G. S.	964	570	" "	527	325	Wiard, T.	141	85
Wadsworth, W. S.	622	360	Watt, G.	564	338	Wiard, E.	412	247
Wadsworth, W.	763	503	" "	565	338	Wiard, E.	412	247
Wadsworth, W.	764	503	Watt, G.	576	343	Wiard, T.	505	318
Waggoner, E. M.	495	312	Watt, G.	660	378	Wiard, T.	529	326
Wainwright, T. A.	863	546	Way, S.	128	80	Wiard, E.	573	342
Walden, J. M.	250	148	Weaber, A.	594	349	" "	573	342
Walden, J. M.	251	149	Weaver, J.	199	123	Wiard, E.	578	344
Walden, J. M.	253	149	Weaver, W.	414	248	Wiard, E.	578	444
Walden, J. M.	254	150	Weaver, J.	921	575	Wiard, E.	595	350
Walker, E.	8	4	Webb, A.	743	486	Wiard, E.	607	354
Walker, W. M.	498	315	" "	743	486	Wiard, E.	613	356
Walker, W. and M. C.	508	319	Webb, J. W.	1072	654	Wiard, G. and T.	621	359
Walker J.	514	321	Webber, A. P.	50	37	" " " " (R)	621	359
Walker, S.	532	327	Webber, A. P.	137	83	Wiard, G. and T.	625	361
Walker, G. A.	695	451	Webber, A. P.	358	215	Wiard, E.	634	365
Wall, A. L. O., Roberts, G.			Webster J. B. and Baxter,			Wiard, H.	639	368
and Carter, M. S.	440	275	R.	117	76	" " (R)	640	368
Wall, A. L. O., Roberts, G.			Webster, T. L.	136	83	" " (R)	640	368
and Carter, M. S.	441	275	Weed, C. A.	643	369	Wiard, E.	654	375
Wall, A. L. O., Roberts, G.			Weeks, L. and Trimble, J.			Wiard, E.	654	375
and Carter, M. S.	443	276	S.	702	453	Wiard, G.	673	384
Wallace, J.	45	35	Weir, W. S.	91	59	Wiard, G. and Hough, C.		
Wallace, J. R. and McClain,			Weir, W. S.	91	60	W.	628	362
B. A.	209	127	Welborn, W. J. N.	907	561	Wiard, G. and Hough, C.		
Wallace, J.	549	333	Welling, W. J.	150	89	W.	634	366
Wallace, J.	597	351	Wells, E.	266	166	Wiard, H. and Bullock,		
Wallis, T. and Case, O. J.	51	38	Wells, M. D.	835	537	W. R.	656	375
Walpole, W. R.	1064	651	Welsh, D. F.	317	131	Wiard, H. and Bullock,		
Walsh, M. D.	612	356	West, C. O., Smith, J. R.			W. R.	663	379
Walter, E.	611	355	Carey, J., Janney, G.,			Wiard, H. and Bullock,		
Walton, E. W.	869	548	Hunt, R., Hockett, A.,			W. R.	968	592
Wansbrough, E.	98	63	West, D., E. and Garr			Wiggin, G. W.	309	187
Wansbrough, E. and Speer,			ner, J.	306	186	Wiggin, G. W.	896	557
W. W.	147	88	West, W.	314	190	Wilder, C. O.	91	59
" " " " (R)	147	88	West, W. B.	727	471	Wilder, W. H.	150	90
Wansbrough, E. and Speer,			West, B. J.	810	522	Wilder, B. S.	249	147
W. W.	159	94	Westcott, N.	609	355	Wilder, W. H.	650	372
Warbasse, E. H.	391	234	Weston, J. W. and M. H.	316	190	Wilder, C. O.	653	374
Ward, S. B.	625	361	Witherell, L.	202	123	Wilder, C. O.	655	375
Ward, T.	901	559	Witherell, L.	755	500	Wilder, J. B.	927	576
Ward, W. E.	998	620	Weygandt, D.	185	112	Wilder, T. G.	1073	654
Warinner, W.	1081	657	Wharton, G.	584	346	Wiley, J.	274	169
Warlick, N.	838	538	Wheatley, R. J.	583	346	Wiley, A.	328	195
Warlick, W.	952	585	Wheatley, R. J.	1063	651	Wilkin, C.	567	339
Warlick, N.	985	607	Whisler, D.	311	188	Wilkins, S. B.	1018	628
Warren, D.	40	33	" " (R)	311	188	Willard, W. H.	112	73
Warren, O. F.	43	35	Whitbeck, G. V. H.	144	87	Willard, G.	1015	627
Warren, T. P.	71	52	Whitcomb, W. E.	94	61	Williams, H. D.	322	192
Warren, J.	241	143	Whitcomb, G.	438	274	Williams, S., Jr.	421	259

GENERAL ALPHABETICAL INDEX.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Williams, C.	411	247	Withers, A. Q.	202	123	Wright, E. A.	80	55
Williams, W. B.	531	326	Witt, L. C. and Jones, W.			Wright, A.	582	345
Williams, W. B.	698	452	F.	353	213	Wright, S. D.	614	356
Williams, J. M.	849	541	Wixson, R.	863	556	Wright, J. W.	624	361
Williams, R. S.	849	541	Wolf, J.	538	328	Wright, A.	938	580
Williams, W. B.	1058	649	Wolf, D.	666	380	Wrisley, S. H.	956	586
Williamson, J. C.	875	550	Wolf, D.	710	456	Wyche, W. E.	413	247
Williamson, J. C.	842	538	Wolf, D.	741	485	Wyche, W. E.	522	324
Willis, H. M.	95	62	Wolf, F.	759	501	Wyche, W. E.	522	324
Willoughby, J. D.	65	50	Wolf, L.	1061	650	Wyman, G. D.	605	353
Willson, F. R.	598	351	Wonsey, P.	2	1	Yaggy, L. W. and Loop,		
Willson, J. S.	848	540	Wood, J. W.	144	86	J. N.	1096	671
Wilson, C. E.	3	1	Wood, S. S.	319	191	Yardley, E. N.	1094	670
Wilson, J. M.	270	167	Wood, J.	492	310	Yeager, W. F.	532	327
Wilson, J. L. and Haworth,			Wood, D. and Byington,			Yeiser, C.	715	459
J. R.	312	189	A.	534	327	Yeiser, E.	641	368
Wilson, L. S.	596	350	Wood, N. S.	792	514	Yocom, J.	615	357
Wilson, W. H.	843	539	Wood, J. and North, R.	1056	649	Yost, G. W. N.	262	165
Wilson, J. F. and R. I.	888	554	Woodbridge, S.	769	505	Yost, G. W. N.	544	331
Wilson, L. E. and Mc			Woodbury, J. L. and G.			Yost, G. W. N.	545	331
Canles, J. E.	963	590	L.	970	593	Yost, W.	597	351
Wilson, J. T.	1022	630	Woodcock, B.	41	34	Yost, G. W. N.	851	541
Wilt, S.	64	49	Woodcock, B. (A. I.)	111	73	Yost, G. W. N.	1001	621
Wimpee, G. W.	228	136	Woodcock, B.	510	320	Yost, G. W. N.	1062	650
Wimpee, G. W. and W.			Woodcock, B.	692	449	Young, C. M.	4	2
F.	643	369	" " (R)	692	449	Young, I.	115	75
Winans, R.	691	449	Woodruff, C. F.	317	190	Young, W. B.	165	98
Winecoff, J.	379	230	Woodruff, T. T.	1043	639	Young, J. H. W.	216	130
Wing, G. A.	726	471	Woodward, W. A.	94	61	Young, W. T. and Moody,		
Wingate, R. H.	288	173	Woodward, J.	517	322	W. T.	238	141
Winger, J. G.	263	165	Woodward, L. E.	651	373	Young, J.	751	499
Winslow, T.	548	332	Woodward, L. E.	657	376	Young, J.	757	501
Winston, R. B.	526	325	Woodsworth, L. S.	976	596	Young, W. B.	985	607
Winter, H. A.	320	192	Wooldridge, S. H.	481	298	Young, W. B.	567	339
Winters, E. C.	793	514	Wooldridge, S. H.	855	543	Ziegler, G. W.	523	324
Winton, W. B.	378	230	Woolfolk, L. B.	1004	622	Zeller, W. and Lechner,		
Wise, T. P.	11	5	Woolfolk, L. B.	1004	622	R.	44	35
Wise, W.	306	186	Woolley, J. F.	351	212	Zeller, J. P.	138	84
Wisner, H. E.	156	93	Workman, R. W.	893	556	Zeller, J. P.	705	454
Witherow, S.	39	33	Worline, C. E.	10	4	Zocher, C.	278	170
Witherow, S. and Peirce,			Wormell, W. E.	851	541	Zoeberlein, J.	321	192
D.	461	291	orth, E. and Davis, C.			Zimmerman, J.	754	499
Witherow, S.	512	320	WA.	312	189	Zollickooper, W. T.	851	541

ATTACHMENTS.

<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>	
Belchambers, A.	9 4	Jacobus, P. and		Rodgers, W.	3 1
Brown, C. E.	8 4	Ambrose, D. R.	6 3	Sackett, C. E.	12 6
Cahill, M.	12 5	Jacobus, P. and		Sims, B. L.	9 4
Carrington, H. L.	7 3	Ambrose, D. R.	6 2	Sornberger, R.	10 4
Coles, J.	7 3	Johnson, J. A.	5 2	Strong, H. C.	10 4
Darby, J. G.	5 2	Kemper, B.	13 6	Stroop, J.	1 1
Decker, N. C.	13 6	Kennedy, W. G., Preston,		Swartz, D. (A. I.)	1 1
Dickson, J. H.	2 1	L. Z., Mornand, F. A.		Teague, J. C.	8 3
Dodsworth, T. C.	11 5	and Kennedy E. H.	10 4	Tolle, M.	1 1
Donnelly, W.	4 2	Lacy, J. and Watkins, G.	1 1	Updike, R.	11 5
Ferguson, S. T.	6 3	Mann, J. H.	13 6	Walker, E.	8 4
Fowler, W. R.	7 3	Marsh, G. W.	3 1	Wiard, E.	5 2
Fromm, A. F.	9 4	Meroney, T. J.	6 3	Wiard, E.	5 2
Frost, L. C.	4 2	Moore, A. and Wendel, F.	3 1	Wilson, C. E.	3 1
Harsha, J.	2 1	Paullin, P. E.	12 6	Wise, T. P.	11 5
Herberg, P. P. and		Peck, J. D.	2 1	Wonsey, P.	2 1
Claussen, P. H.	12 5	Price, Levi	9 4	Worline, C. E.	10 4
Himrod, W. G.	8 3	Rhoades, A. A. and		Young, C. M.	4 2
Hogmire, J. O.	7 3	Tash, W.	4 2		

J. Strogn.
Seed Planter.

No. 5,602.

Patented Jan. 26, 1849.

H. Swartz,
Plow.

No. 108.

(A1) Patented Feb 28, 1854.

M. Telle.
Chillinator.

No. 7,694.

Patented Jan. 16, 1857.

Lacy & Watkins.
Plow Tender.

No. 44,535.

Patented Oct 4, 1864.

Fig 2

Fig 3

Fig 4

Witnesses
C. W. Reed
O. Cannon

Inventor
John Lacy
George Watkins
C. W. Reed & O. Cannon (attys)

J. Harsha.

N^o 73002

Plow & Harrow.

Patented Jan. 7, 1868.

Witnesses
 D. W. Sawen
 James Chinn

James Harsha
 By Knight & Wray
 Attorneys

P. Wonsey.

Plow & Harrow.

N^o 74024

Patented Feb. 4, 1868.

Fig 1

Fig 2

Witnesses
 S. M. Woods
 W. T. Wat

Fig 3

Inventor
 P. Wonsey
 A. C. Wood
 atty.

John D. Pickett's improvement in
PlowsPATENTED
MAR 10 1868

75455

Fig 1

Fig 2

Fig 3

Fig 4

Witnesses
 W. L. Pelt
 David Carr

Inventor
 John D. Pickett

J. H. Dickson,

Cultivator.

No. 81148.

Patented Aug. 18, 1868.

FIG 1

FIG 2

WITNESSES:
 N. D. Hodgebridge
 A. M. Moor

INVENTOR
 J. H. Dickson
 for
 H. M. Mason
 attorney.

C. E. WILSON.

Plow.

No. 82,189.

Patented Sept. 15, 1868.

Witnesses:
 Alfred Bering
 Robinson Hobart

Inventor:
 Charles E. Wilson

W. RODGERS.

Cultivator.

No. 82,753.

Patented Oct. 6, 1868.

Witnesses:
 John Thomas
 H. C. Smith

Inventor:
 Wm Rodgers by
 J. H. Butler
 Attorney

No 84563

G. MARSH.

PLOW. PATENTED. Dec. 1, 1868.

Witnesses:
 J. H. Bingham
 Jacob B. Henry

Inventor:
 Geo W. Marsh
 By W. H. Bingham & Co
 attys

MOORE & WENDELL.

Plow and Harrow.

No. 95,925.

Patented Oct. 19, 1869.

Witnesses:
 Wm Clark
 John F. Nelson & Co

Inventors:
 A. Moore
 F. Wendell
 per: Munn & Co
 Atty's.

*Andrews & Park**Cultivator*

No. 89,236.

Patented Jan. 25, 1870.

Witnesses:

J. W. Brooks
Edgar Talc

Inventors

A. Andrews
W. Park
Per *M. M. Munn*
Attorneys.*Charles M. Young's Roller Attachment for Plows.*

116388

Patented JUN. 27 1871

Witnesses

J. W. Brooks
*E. W. County**Charles M. Young*
per *Edgar Talc*
Attorney

W. DONNELLY.

Plows.

No. 141,705.

Patented August 12, 1873.

Fig. 3

Fig. 4

Witnesses:

J. W. Brooks
Edgar Talc

Inventor:

W. Donnelly
Per *M. M. Munn*
Attorneys.

L. C. FROST.

Plows.

No. 143,620.

Patented Oct. 14, 1873.

Fig. 2.

Witnesses:

J. W. Brooks
*M. A. Parks**Leonard C. Frost*
Per *C. M. Parks*
Att.

E. WIARD.
Plows.

No. 144,584.

Patented Nov. 11, 1873.

Fig. 1

Fig. 2

Fig. 3

Witnesses.
James H. H. H. H.
J. H. H. H. H.

Inventor
Edward Wiard
by
Mason, H. H. H. H.

E. WIARD.

Land-Side Runners for Plows.

No. 150,450.

Patented May 5, 1874.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses.
James H. H. H. H.
J. H. H. H. H.

Inventor
Edward Wiard
by
Mason, H. H. H. H.

J. G. DARBY.

Shade-Attachments for Plows.

No. 156,282.

Patented Oct. 27, 1874.

Fig. 1

Fig. 2

Witnesses.
James H. H. H. H.
J. H. H. H. H.

Inventor
J. G. Darby
by
Mason, H. H. H. H.

J. A. JOHNSON.

Plow.

No. 159,267.

Patented Feb. 2, 1875.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Witnesses.
James H. H. H. H.
J. H. H. H. H.

Inventor
John A. Johnson
by
Mason, H. H. H. H.

C. JACOBUS & D. R. AMBROSE.
Harrow-Attachment for Plows.

No. 159,416.

Patented Feb. 2, 1875.

Witnesses.
Edwin B. Scott
James Spink

Inventors.
Piercen Jacobus,
David R. Ambrose,
for R. T. Cogswell,
Atty.

S. T. FERGUSON.
Plow-Adjuster.

No. 159,913.

Patented Feb. 16, 1875.

WITNESSES

Chas. H. Meron
W. G. Bluff

INVENTOR.

Saml. T. Ferguson
per Atty. A. H. Conner

T. J. MERONEY.
Plow.

No. 162,760.

Patented May 4, 1875.

Attest.
Attest. Atty.
Joseph C. Williams

Inventor.
Thomas J. Meroney
By James S. Morris
Atty.

P. JACOBUS & D. R. AMBROSE.
HARROW ATTACHMENT FOR PLOWS.

No. 174,251.

Patented Feb. 23, 1876.

Witnesses.
Edwin B. Scott
James Spink

Inventors.
Piercen Jacobus,
David R. Ambrose,
for R. T. Cogswell,
Atty.

H. L. CARRINGTON.
RIDING ATTACHMENT FOR PLOWS.
No. 174,618. Patented March 14, 1876.

Witnesses:
George A. Williams
A. B. Griffin

Inventor:
Henry L. Carrington
By Bradford Howland
his Attorney.

J. O. HOGMIRE.
BEAN HARVESTER ATTACHMENT FOR PLOWS.
No. 174,677. Patented March 14, 1876.

Witnesses:
E. D. Scott
Louis Ogden

Inventor:
Jonas O. Hogmire
By R. F. Colquhoun
Att'y.

J. COLES.
WEEDING-PLOW.
No. 193,225. Patented July 17, 1877.

Witnesses:
A. L. Coles
John Sparks

Inventor:
James Coles
By Horace Nason
Att'y.

W. B. FOWLER.
Attachment for Plows.
No. 200,047. Patented Feb. 5, 1878.

Witnesses:
W. H. Hollingsworth
Amos F. Carr

INVENTOR:
Wm. B. Fowler
By R. F. Colquhoun
Att'y.

ATTORNEYS.

J. C. TEAGUE.
Combined Plow and Harrow.

No. 205,317.

Patented June 25, 1878.

FIG 1

FIG 2

FIG 3

FIG 4

WITNESSES:
James R. Turner
C. M. Sides

INVENTOR:
Joseph C. Teague
By R. S. H. Lacey
Attorneys

W. G. HIMROD.
Combined Plow and Harrow.

No. 209,046.

Patented Oct. 15, 1878

Witnesses:
P. B. Dietrich
Wm. B. Hoffman

Inventor:
William G. Himrod.
Per C. H. Watson & Co. Attorneys.

E. WALKER.
Plow.

No. 212,524.

Patented Feb. 18, 1879.

Fig. 1

Fig. 2

Fig. 3

Fig. 2

WITNESSES:
C. Newell
G. Raymond

INVENTOR:
E. Walker
BY M. R. C.
ATTORNEYS

G. E. BROWN.
Attachment for Plows.

No. 219,144.

Patented Sept. 2, 1879.

Fig 1

Fig 2

Fig 3

Fig 4

Witnesses:
J. L. & E. Lewis
G. C. Lewis

Inventor:
G. E. Brown
By J. L. & E. Lewis
Attorneys

A. BELCHAMBERS.
Riding-Plow.

No. 220,790. Patented Oct. 21, 1879.

Fig. 1.

Fig. 2.

Fig. 4.

Fig. 3.

WITNESSES:

Henry K. Miller,
C. S. S. S. S.

INVENTOR:

A. Belchambers
BY *Mumford*
ATTORNEYS.

L. PRICE.
Attachment for Plows.

No. 224,223. Patented Feb. 3, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

WITNESSES:
Cartwright
John H. Lockman

INVENTOR
Lee Price
BY *W. Watson*
ATTORNEYS.

B. L. SIMS.
Plow Attachment.

No. 225,079. Patented Mar. 2, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:
And G. Dietrich
J. P. Little

INVENTOR
Benjamin L. Sims
BY *C. A. Brown*
ATTORNEYS.

A. F. FROMM.
Plow Attachment.

No. 226,657. Patented April 20, 1880.

Fig. 1.

Fig. 2.

WITNESSES:

H. A. Low
J. S. Barker

INVENTOR
Albert F. Fromm
BY *H. H. Doubleday*
ATTORNEYS.

(No Model.)

C. E. WORLINE.
Plow Attachment.

No. 232,796.

Patented Sept. 28, 1880.

(No Model.)

R. SORNBERGER.
Plow Gage.

No. 233,815.

Patented Oct. 26, 1880.

(No Model.)

H. C. STRONG.
Plow Truck.

No. 234,087.

Patented Nov. 2, 1880.

(No Model.)

W. G. KENNEDY, L. Z. PRESTON, F. A. MORAND
& E. H. KENNEDY.

Revolving Harrow Attachment for Plows.

No. 237,023.

Patented Jan. 25, 1891.

(No Model.)

3 Sheets—Sheet 1.

T. C. DODSWORTH.

CULTIVATOR ATTACHMENT FOR TWO WHEELED PLOWS.

No. 246,666.

Patented Sept. 6, 1881.

Witnesses:
 Jas. E. Hutchinson
 Howell Thistle.

Inventor:
 T. C. Dodsworth
 by Johnson & Johnson
 Attys

(No Model.)

3 Sheets—Sheet 2.

T. C. DODSWORTH.

CULTIVATOR ATTACHMENT FOR TWO WHEELED PLOWS.

No. 246,666.

Patented Sept. 6, 1881.

Fig. 5.

Fig. 6.

Witnesses:
 Jas. E. Hutchinson
 Howell Thistle.

Inventor:
 T. C. Dodsworth
 by Johnson & Johnson
 Attys

(No Model.)

R. UPDIKE.

FLOW ATTACHMENT.

No. 252,820.

Patented Jan. 24, 1882.

WITNESSES:
 E. H. Bates
 James J. Shuchey

INVENTOR:
 R. Updike
 by Anderson & Smith
 Attorneys

(No Model.)

T. P. WISE.

FLOW ATTACHMENT.

No. 255,066

Patented Mar. 14, 1882.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 15.

Fig. 16.

Fig. 17.

Fig. 18.

Fig. 19.

Fig. 20.

Fig. 21.

Fig. 22.

Fig. 23.

Fig. 24.

Fig. 25.

WITNESSES:
 Thos. Houghton
 W. Read

INVENTOR:
 Thos. P. Wise
 BY R. H. L. L.
 ATTORNEYS.

(No Model.)

P. P. HERBERG & P. H. CLAUSSEN.
FLOW ATTACHMENT.

No. 265,981.

Patented Apr. 4, 1882.

(Model.)

M. CAHILL.
HARROW ATTACHMENT.

No. 260,002.

Patented June 27, 1882.

(No Model.)

P. E. PAULLIN.
AGRICULTURAL IMPLEMENT.

No. 267,247.

Patented Nov. 7, 1882.

(No Model.)

C. E. SACKETT.
COMBINED PLOW AND PULVERIZER.

No. 268,830.

Patented Dec. 12, 1882.

(No Model.)

J. H. MANN.
COLTER ATTACHMENT.

No. 269,436.

Patented Dec. 19, 1882.

WITNESSES:

Ray. A. Davis
C. Sulgwick

INVENTOR

J. H. Mann
BY *Munn & Co.*
ATTORNEY.

(No Model.)

N. C. DECKER.
CULTIVATOR.

No. 269,664.

Patented Dec. 26, 1882.

WITNESSES:

H. A. Jones
A. Brown

INVENTOR

Nicholas C. Decker
BY *J. B. Langer*, Attorney.

(No Model.)

B. KEMPER.
CULTIVATOR.

No. 269,677.

Patented Dec. 26, 1882.

WITNESSES:

W. W. R. Smith
W. Read

INVENTOR

B. Kemper
BY *New & Co.*
ATTORNEYS.

BEAMS.

	Plate Claim			Plate Claim			Plate Claim	
Alley, J. J.	30	20	J. W.	29	19	Kimplen, C.	27	18
Alley, J. J.	31	20	Burdin, L. E.	27	18	McDowell, M.	28	19
Babcock, E. H., Whiting,			Butterfield, J. C.	27	18	McNeal, J. A.	32	21
J. C. and Chamberlain,			Chamberlain, W. C.	33	21	Mathews, W. L.	29	19
O. H.	29	19	Cockshutt, J. G.	31	20	Miller, S. H.	26	18
Ball, A.	26	18	Fogelgesang, F.	25	17	Moltrup, J. C.	24	17
Ball, A.	32	21	French, C. M. and Fancher,			Nellis, A. J.	30	20
Ball, E. Jr,	26	18	W. H.	24	17	Peck, E.	25	18
Ball, W. J.	29	19	Gale, H.	28	19	Preston, A. A.	28	19
Beach, E. O.	30	20	Gilman, W.	25	17	Rickard, A.	26	18
Boynton, J.	23	17	Goodyear, A.	30	20	Robinson, J.	25	17
Brinly, T. E. C.	28	19	Griffith, L. B.	23	17	Seegmiller, S.	32	20
Buckingham, C. P.	31	20	Hall, J. S	24	17	Sharp, T.	23	17
Buckley, R. C. and			Houghton, J.	23	17	Traxler, F.	24	17
Harmes, D. G.	27	18	Hunt, F. B.	32	21	Wiard, H.	31	20
Bump, F. E. and Gear,			Johnson, J. A.	33	21			

J. BOYNTON.

Plow.

Patented July 10, 1829.

Fig. 3.

F₂

Fig. 2

J. HOUGHTON.

Plow.

No. 2,691.

Patented June 22, 1842.

L. B. Griffith.

Plow.

No. 9,10086.

Patented Oct. 4, 1863.

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

T. Sharp,

Plow.

No. 18,355.

Patented Oct. 6, 1857.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

J. S. Hall.

Plow

No 23,024.

Patented Feb 22, 1869.

Witnesses
Geo. H. H. H. H.

Inventor

J. S. Hall

J. C. Moltray.

Plow

No 23,933.

Patented May 10, 1869.

Witnesses
A. H. H. H.

Inventor
J. C. Moltray

F. Traxler.

Plow

No 10,990.
32,094.

Patented Apr 16, 1867.

Witnesses
Carroll H. H. H.

Inventor

Franklin Traxler

FRENCH & FANCHER.

Plow.

No. 35,600.

Patented June 17, 1862.

Witnesses:
H. F. H. H.

Inventors
C. M. French
W. H. Fancher
by J. H. H. H.

*J. Robinson.**Plow.**No 36,532.**Patented Sep. 23, 1862* *F. Fogelgesang.**Plow.**No 59,577**Patented Nov. 13, 1866.* *W. GILMAN.**Plow.**No 67,188.**Patented July 30, 1867* *E. PECK.**Plow.**No. 82,157.**Patented Sept. 15, 1868.*

*E. Ball, Jr.**Plow.**No. 93,053.**Patented May 17, 1869.*

Witnesses:
James W. ...
...

Inventor:
E. Ball, Jr.
Charles H. ...
...

*A. Ball.**Plow.**No. 110,722.**Patented Jan. 3, 1871.*

Witnesses:
G. W. ...
...

Inventor:
Albert Ball
by Job Abbott
Attorney

*S. H. Miller**Plow Beam.**No. 111,764.**Patented Feb. 14, 1871.*

Witnesses:
A. H. ...
...

Inventor:
Samuel Holden Miller
By Samuel Jacob Wallace
Attorney

*F. Fishard**Plow**No. 111,975.**Patented Feb. 21, 1871.*

Witnesses:
J. B. ...
...

Inventor:
Alfred Fishard
Per M. ...
Attorney

LUTHER E. BURDIN.
Improvement in Plows.

No. 121,153.

Patented Nov. 21, 1871.

Witnesses:

Frank Mulhens
C. L. Evers & *Luther E. Burdin*
per Alexander Murray
Attys.

J. C. BUTTERFIELD.
Plow-Beams.

No. 150,524.

Patented May 5, 1874.

Witnesses

G. L. Chapin
W. E. Smith & *John C. Butterfield*
Inventor

R. C. BUCKLEY & D. G. HARMS.
Plows.

No. 156,331.

Patented Oct. 27, 1874.

Witnesses:

P. C. Dalt
H. G. Scott & *Robert C. Buckley*
Daniel G. Harms
C. N. Watson & Co.
Attorneys.

C. KIMPLEN.
Plow-Beams.

No. 158,642

Patented Jan. 12, 1875

Witnesses
H. E. Smith
W. E. Smith

Cornelius Kimplen
Inventor

M McDOWELL.
Metal Plow-Beams.

No. 158,725.

Patented Jan. 12, 1875.

Witnesses:
Frank H. Kuyper

Witnesses.

Malcolm McDowell
Inventor.

T. E. C. BRINLY.
PLOW.

No. 170,516.

Patented Nov. 30, 1875.

Witnesses:
A. Ruppert
J. L. Wileman

T. E. C. Brinly
Inventor.
D. T. Holloway & Co.
S. H. 1/2

A. A. PRESTON.
PLOW.

No. 180,634.

Patented Aug. 1, 1876.

WITNESSES:

Charles M. Cade,
John Goethals

INVENTOR:

A. A. Preston
" Munn & Co.
ATTORNEYS.

E. GALE.
PLOW

No. 189,722.

Patented April 17, 1877.

Attest:
Edward Rayfield
Charles H. Hurd

Inventor:
E. Gale
By Atty.
M. S. Sprague

E. O. BEACH.
Plow.

No. 215,715.

Patented May 27, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:

Edw. H. Barnes
R. F. Barnes

Inventor:

Erasmus O. Beach

A. GOODYEAR.
Plow.

No. 218,517.

Patented Aug. 12, 1879.

Fig. 1.

Fig. 2.

Witnesses:

A. L. Rappert
J. L. Macom.

A. Goodyear
Inventor
D. P. Holloman, Jr.
Atty

A. J. NELLIS.
Plow-Beam.

No. 219,006.

Patented Aug. 26, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses:

John K. Smith
L. L. Fuller

Inventor:

Artem J. Nellis
by Perkins & Davis
Attorneys

J. J. ALLEY.
Plow.

No. 226,150

Patented April 6, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses:
A. B. Smith
Charles J. Hunt

Inventor:
John J. Alley
by Atty
Fred S. Sprague

(No Model.)

H. WIARD.
Plow Beam.

No. 229,216.

Patented June 22, 1880.

Witnesses:
Wm. L. Davis
William H. Ross

Inventor
H. Wiard
By J. H. Greenough

(No Model.)

J. J. ALLEY.
Plow.

No. 230,457.

Patented July 27, 1880.

Attest
Geo. S. Day

Inventor
J. J. Alley
By Geo. S. Day

(No Model.)

C. P. BUCKINGHAM.
Plow Beam.

No. 231,147.

Patented Aug. 17, 1880.

Witnesses

W. L. Davis
L. H. Greenough

Inventor
C. P. Buckingham
By Wm. H. Greenough
Attest

(No Model.)

J. G. COCKSHUTT.
Wrought Iron Plow.

No. 238,651.

Patented March 8, 1881.

Witnesses

W. L. Davis
Chas. H. Baldwin

Inventor
J. G. Cockshutt
Attest
Chas. H. Baldwin

(No Model.)

S. SEEGMILLER.
Plow.

No. 242,844.

Patented June 14, 1881.

Attest
J. H. Smith
Notary Public

Inventor:
Samuel Seegmiller
By J. H. Smith
Att'y

(No Model.)

A. BALL.
PLOW BEAM.

No. 246,363.

Patented Aug. 30, 1881.

Witnesses:
William J. Roper
Frederick W. Bond

Inventor:
Albert Ball
Per
Frederick W. Bond
Attorney

(Model.)

F. B. HUNT.
PLOW.

No. 253,055.

Patented Jan. 31, 1882.

Witnesses:
Aldison H. Grady
P. M. Worthington

Inventor:
Franklin B. Hunt

(No Model.)

J. A. McNEAL.
CLAMP FOR PLOW BEAMS.

No. 253,407.

Patented Feb. 7, 1882.

Witnesses:
J. H. Grady
J. H. Grady

Inventor:
John A. McNeal

(No Model.)

J. A. JOHNSON.
FLOW BEAM.

No. 263,528.

Patented Aug. 29, 1882.

WITNESSES:
Ad. S. Dietrich
Frederick Threlk.

John. A. Johnson
 INVENTOR
14 Louis Bragger & Co
 ATTORNEYS.

(No Model.)

W. C. CHAMBERLAIN.
FLOW BEAM.

No. 267,061.

Patented Nov. 7, 1882.

Witnesses:
B. G. G. G. G.
W. C. C. C. C.

W. C. Chamberlain
 INVENTOR
W. C. C. C. C.
 ATTORNEYS.

CLEAVERS.

<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>	
Batchelder, W., J. M.		Gehr, J.		Reasin, J. F.	
and Leiber, C.	43 34	Gibbs, G.	41 33	Rector, H. T.	39 33
Bills, E. C. Jr.	40 33	Gingrich, J. K.	44 35	Reeder, A.	53 38
Black, A. C.	46 36	Gitt, D. D.	42 34	Stone, W. H.	41 33
Blatchley, N.	39 33	Glasoe, O. J.	40 33	Storm, J. H.	49 37
Blue, H.	51 37	Godfrey, S. T.	51 37	Storm, J. H.	52 38
Boggs, A. B.	54 38	Gordon, C. M.	47 36	Storm, J. H.	52 38
Burr, G. W.	49 37	Groom, R.	49 37	Terrel, T.	52 38
Clarke, G. B.	42 34	Harper, C. A.	48 36	Thompson, N. S.	43 35
Clarke, G. B.	53 38	Harris, S. M.	46 36	Van Duine, M. and De	49 37
Cockley, D.	41 33	Hibbs, J.	52 38	Jonge, J.	48 36
Coombs, W. G.	48 36	Huntington, W. S.	40 33	Vaughan, G. B.	50 37
Cornell, T. J.	42 34	Jameson, J.	44 35	Veber, W. Jr.	43 35
Deal, J. J. and Hobbs, S.	51 37	Mattoon, A. B.	45 35	Wallace, J.	45 35
Denise, S. T.	45 35	Metcalf, W. W.	47 36	Wallis, T. and Case, O. J.	51 38
Devereaux, C. P.	45 35	Miles, J. and E. P.	39 33	Warren, D.	40 33
Dock, J. F.	52 38	Miles, J. and E. P.	44 35	Warren, O. F.	43 35
Dyer, C. V.	53 38	Norris, J. B.	47 36	Webber, A. P.	50 37
Eccles, W. M.	48 30	Patterson, J. A. B.	50 37	Witherow, S.	39 33
Elward, J. H.	46 35	Paul, D. H.	46 36	Woodcock, B.	41 34
Ford, E. T.	42 34	Phillips, B. F.	47 36	Zeller, W. and Lechner, R.	44 45
Gautier, F.	54 39	Place, J. B.	53 38		
			50 37		

S. WITHEROW.
Plow-Cleaner.

Patented Jan. 15, 1836.

W. W. McCaffie
Plow-Cleaner

N^o 5,855

Patented Oct. 17, 1848.

W. Bratton
Plow-Cleaner

N^o 6,973.

Patented Dec. 19, 1848.

J. F. Reason
Plow-Cleaner

N^o 7,274.

Patented Apr. 9, 1860.

D. D. Gitt.

Plow Cleaner.

No 7,344.

Patented May 7, 1850.

D. Waver,

Plow Cleaner.

No 7640.

Patented Sept. 10, 1850.

J. Hibbs.

Plow Cleaner.

No 11,935.

Patented Nov. 14, 1852.

E. C. Bills, Jr.

Plow Cleaner.

No 16,919.

Patented Dec. 21, 1856.

A. REEDER.
Plow-Cleaner.

No. 20,300.

Patented May 18 1856.

D. Cooley
Plow-Cleaner.

N^o 21,590

Patented Sep. 28 1856

J. Gehl.
Plow-Cleaner.

N^o 21,953

Patented Nov. 2, 1858

B. Mendenhall
Plow-Cleaner.

N^o 22,741

Patented Aug. 21, 1858

Witnesses
H. A. [illegible]
[illegible]

Witnesses
B. Mendenhall
[illegible]

*J. M. Gingrich**Plow.*N^o 4418
34,452.

Patented Feb 19, 1861

Witnesses:
Frederick
L. SchumanInventor:
J. M. Gingrich
per M. W. C. L.*E. T. Ford,**Plow Cleaner.*

No. 35,471

Patented May 6, 1862

Witnesses:
O. H. Phillips
Thos. WapetyInventor:
E. T. Ford*G. B. Clark.**Plow Cleaner.*N^o 42,838.

Patented May 24, 1864.

Witnesses:
Charles M. By
J. C. DennisInventor:
George B. Clark
per Atty. J. C. Dennis*T. J. Cornell.**Plow Cleaner.*N^o 52,807

Patented Feb 20, 1866

Witnesses:
W. Brown
G. W. BrownInventor:
T. J. Cornell
per Atty. W. Brown

Batchelder & Leiber

Plow Cleaner.

N^o 53, 100

Patented Mar. 13, 1866.

Witnesses:
J. H. Baggett
Henry L. Semiller

Inventors:
William A. Batchelder
Coburn Lister

O. F. Warren

Plow Clearer

N^o 66,296.

Patented Feb. 10, 1866.

Witnesses;
 P. H. to Garret
 G. C. Clark

Inventor,
Oscar F. Warren

T. Terrel,

Plow Cleaner.

No. 57216.

Patented Aug. 14. 1866.

Witnesses:
Jas A. Service
J. M. Lawrence

Inventor,
Timothy Tard
Per
Mumby
Mumby

W. Weber, Jr.

Flow Cleaner.

N^o 58,323.

Patented Sep. 25, 1866.

Witnesses.
Wm Dean Overell
J. A. Service.

Inventor:
W. Weber
Per M. M. C.
Attyr

*J. & E. P. Miles**Plow Cleaner**No. 61,083.**Patented Jan. 8, 1867.*

Witnesses,
Theo. Tusch
J. A. Service

Inventors,
J. Miles
E. P. Miles
per Wm. H. C. Adams

*W. S. Huntington,**Plow Cleaner.**No. 61,203.**Patented Jan. 15, 1867.*

Witnesses,
Theo. Tusch
J. A. Service

Inventor,
W. S. Huntington
per Wm. H. C. Adams

ZELLER & LECHNER.**Plow-Cleaner.****No. 63,838.****Patented Apr. 16, 1867.**

Witnesses,
W. Lockbridge
A. H. Spatman

Inventor,
W. Zeller & R. Lechner
per Alexander Mason

*C. Gibbs.**Plow Cleaner.**No. 64,213.**Patented Apr. 30, 1867.*

Witnesses,
Daniel M. Mear
John Ruff

Inventor,
C. Gibbs

J. WALLACE.
Plow-Cleaner.

No. 66,109.

Patented June 25, 1867.

Witnesses:
Thos. H. H. H.

Inventor:
James Wallace

C. P. DEVEREAUX.
Plow-Cleaner.

No. 66,809.

Patented July 18, 1867.

WITNESSES:
Wm. H. H. H.

INVENTOR:
C. P. Devereaux
Per Munn & Co.

J. Jameson.
Plow Cleaner

No. 67,550.

Patented Aug 6, 1867.

Fig. 1.

Fig. 2.

Witnesses:
Geo. E. Grindel
S. J. Dodge

Inventor:
J. Jameson
Dodge & Munroe atts.

S.T. Denise.

Plow.

71715

PATENTED
DEC 3 1867

Witnesses:

S. J. H. H.
W. H. H.

Inventor:

S. T. Denise
By Munn & Co.

J. H. Howard,

Flour Sifter.

No. 83708

Patented Nov. 9, 1868.

Witnesses:
J. H. Howard
J. H. HowardInventor:
J. H. Howard
J. H. Howard

C. A. Harper.

Flour Cleaner

No. 84,823

Patented Dec 5, 1868.

Witnesses:
L. C. Jones
Geo. SmithInventor:
C. A. Harper
J. H. Mumford
Attorneys

J. A. B. Patterson,

Flour Cleaner.

No. 89,237.

Patented Apr. 20, 1869.

Witnesses:
C. A. Black
A. B. BlackInventor:
J. A. B. Patterson
A. B. Black

A. C. Black.

Flour Cleaner.

No. 90,488.

Patented May 25, 1869.

Witnesses:
C. A. Black
A. B. BlackInventor:
Andrew C. Black
Chas. F. Sturtevant
Attorneys

S. T. Goffrey,
Flow Cleaner.

No. 91328. Patented June 15, 1869.

Witnesses
H. W. Hingrich
J. M. Hingrich

Inventor
S. T. Goffrey
Wm. H. Hingrich

A. B. Mather
Under Cleaner.

No. 91464. Patented June 15, 1869.

Witnesses
Paul J. Lerner
E. W. Rothwell

Inventor
A. B. Mather
By Frederick L. Hingrich

J. E. P. Miles,
Flow Cleaner.

No. 91957. Patented June 20, 1869.

Witnesses:
H. W. Hingrich
O. Hingrich

Inventors:
J. E. P. Miles
J. E. P. Miles
per H. W. Hingrich
attorney

D. H. Paul,
Cultivator.

No. 92,350. Patented Jul. 6, 1869.

Witnesses:
Wm. A. Morgan
E. C. Hingrich

Inventor:
D. H. Paul
per H. W. Hingrich
attorney

R. Groom.
Plow Cleaner.
No. 92,959. Patented Jul 27 1869

Witnesses,
M. Frankel
Samuel Shapiro

Inventor
Richard Groom

W. M. ECCLES.
Plow Cleaner.

No. 105,660.

Patented July 26, 1870.

Witnesses
E. W. Hughes
M. J. Smith

Inventor
W. M. Eccles
per Otto S. Springer
Att'y

W. G. Coombs,
Plow Cleaner.
No. 106,556. Patented Aug. 23. 1870.

Witness
Henry A. Houston
Wm. Frankel

Inventor
Wm. G. Coombs
per Wm. Frankel

VAN DUINE & DE JONGE.
Plow Attachment.

No. 111,155.

Patented Jan. 24, 1871.

Witness
H. Stuart
George H. H. H.

Inventor
M. Van Duine
A. De Jonge
per Wm. Frankel
Att'y

C. M. Gordon.

Flour Cutter.

No. 113,121.

Patented Apr. 4, 1871.

Fig. 2.

Fig. 3.

Fig. 1.

Witnesses.
*Wm. King
Ellis Linn*

Inventor.
*C. M. Gordon,
Chapman & Co
Ct. Hg.*

W. H. STONE.

Improvement in Plow-Collectors.

No. 114,220.

Patented April 25, 1871.

WITNESSES
*Arthur H. Bissell
Albert J. Baldwin*

INVENTOR
Wm. H. Stone

N. S. THOMPSON.

Improvement in Seeding-Cultivators.

No. 114,881.

Patented May 16, 1871.

Fig. 3.

Fig. 2.

Fig. 1.

GEORGE W. BURR.

Plow Clearers.

No. 122,155.

Fig. 1.

Patented Dec. 26 1871.

Fig. 2.

Witnesses:

*E. Hoff
Francis W. Cady*

Inventor:

Geo. W. Burr
Per *Wm. H. Stone*
Attorneys.

Witnesses
*A. L. Beck
S. E. Beck*

*Nelson S. Thompson
By *Wm. H. Stone*
Attorney*

A. P. WEBBER.
Improvement in Plows.

No. 130,832.

Patented Aug. 27, 1872.

Witnesses
Henry M. Hall
Charles M. M. M. M.

Almon L. M. M.
by Edmund R. M. M.
his atty.

J. B. PLACE.

Improvement in Plow-Cleaners.

No. 132,857.

Patented Nov. 5, 1872.

Witnesses:
W. M. M. M.
C. M. M. M.

John B. Place, Inventor.
per Alexander M. M. M.
Attorneys.

G. B. VAUGHAN.
Plows.

No. 139,036

Patented May 20, 1873.

Witnesses
H. M. M. M.
H. M. M. M.

G. B. Vaughan, Inventor.
by E. M. M. M.
his atty.

J. B. NORRIS.
Plows.

No. 145,120.

Patented Dec. 2, 1873.

Attest
L. M. M. M.
J. B. Norris, Inventor.
per S. M. M. M.

John B. Norris, Inventor.
per S. M. M. M.
Attorneys.

H. BLUE.
Plows.

No. 147,036.

Patented Feb. 3, 1874.

Fig. 1.

Fig. 2.

WITNESSES:

Chas. M. Hall
Chas. M. Hall

INVENTOR:

BY

ATTORNEYS.

J. J. DEAL & S. HOBBS.
Plow-Cleaners.

No. 154,323.

Patented Aug. 25, 1874

Fig. 1

Fig. 2

Witnesses:
Geo. D. Smith
J. P. Lyon

Inventors:
J. J. Deal
S. Hobbs
J. S. Brown

O. J. GLASOE.
Plow.

No 164,727.

Patented June 22, 1875.

Fig. 1.

Fig. 2.

Witnesses:

Wm. Bagge
J. C. Howell

Inventor:

O. J. Glasoe
Wm. Bagge
Att'y

T. WALLIS & O. J. CASE.
Plow-Cutter Cleaner.

No 164,784.

Patented June 22, 1875

Fig. 1

Fig. 2

WITNESSES:

C. N. Howe
Edgwick

INVENTORS:

T. Wallis
O. J. Case
Att'y

J. H. STORM.
ATTACHMENT FOR CLEAVING PLOWS.
No. 180,166. Patented July 25, 1876.

WITNESSES:

George W. Hays
J. H. Storm

INVENTOR:

James H. Storm
By *Thomas G. Orrig, Atty.*

S. M. HARRIS.
FLOW.
No. 181,674. Patented Aug. 29, 1876.

Fig. 2

WITNESSES:

E. W. Hays
John H. Storm

INVENTOR:

S. M. Harris
By *Thomas G. Orrig, Atty.*

J. F. DOCK.
CLEARING ATTACHMENT FOR PLOWS.
No. 189,087. Patented April 9, 1877.

Fig. 2

WITNESSES:

A. W. Hays
J. F. Dock

INVENTOR:

J. F. Dock
By *Thomas G. Orrig, Atty.*

J. H. STORM.
FLOW CLEANING ATTACHMENT.
No. 190,165. Patented May 1, 1877.

Fig. 2

Fig. 3

WITNESSES:

Lee L. Hays
John H. Storm

INVENTOR:

James H. Storm
By *Thomas G. Orrig, Atty.*

E. F. PHILLIPS.
STUBBLE-GUARD FOR PLOWS.
No. 190,781. Patented May 15, 1877.

WITNESSES:
Charles H. Hall
J. H. Carbondale

INVENTOR:
E. F. Phillips
BY *Mumf*
ATTORNEY.

G. E. CLARKE.
PLOWS.
No. 190,826. Patented May 16, 1877.

Witnesses
H. A. Dyer
A. O. Dyer

Inventor
George E. Clarke
per *T. H. Alexander & Co.*
Attorneys

H. T. RECTOR.
Plow-Clearer.
No. 205,574. Patented July 2, 1878.

WITNESSES:
Henry A. Miller
C. S. Squire

INVENTOR:
H. T. Rector
BY *Mumf*
ATTORNEY.

C. V. DYER.
Plow.
No. 213,878. Patented April 1, 1879.

WITNESSES
John E. Smith
A. C. Smith

INVENTOR,
Charles V. Dyer
BY *John E. Smith & Co.*
ATTORNEYS.

(No Model.)

A. B. BOGGS.
Plow Cleaner.

No. 236,298.

Patented Jan. 4, 1881.

Witnesses:
H. C. McArthurInventor:
Allen B. Boggs.per
J. W. Alexander

(No Model.)

F. GAUTIER.

Plow.

No. 254,952.

Patented Mar. 14, 1882.

WITNESSES:
Fred. J. Guterich
A. L. Lyne.

INVENTOR:

F. Gautier
BY
R. M. L.
ATTORNEYS.

CLEVELAND.

	Plate	Claim		Plate	Claim		Plate	Claim
Adams, C.	66	50	Gibbs, R.	83	56	Pope, S. W.	78	54
Adams, A.	83	56	Gilbert, I. R.	100	64	Poundstone, C. N.	86	57
Alden, L. W.	69	51	Hall, J. S.	67	50	Powers, J. W.	96	62
Armsby, J. M. C.	63	49	Hartzell, C.	82	55	Powers, J. W.	99	64
Arnold, J. H.	84	56	Harvey, E. O.	85	57	Prillaman, M.	75	73
Atteberry, W. W.	75	53	Hawes, B. B.	86	57	Prillamen, M.	78	54
Austin, H. W. and Shaw, W.	70	52	Hawse, B. B.	89	58	Prindle, R. B.	66	50
Axford, W.	79	54	Holton, G. W.	73	53	Reese, F.	81	55
Baldwin, J. L.	74	53	Hovis, J. T.	81	55	Rhodes, D.	68	51
Baldwin, T. B.	88	58	Hubbell, M.	102	65	Robinson, C.	90	59
Ball, J.	72	52	Ingraham, H.	70	52	Robinson, C.	93	61
Ball, J.	72	52	Iwan, H. and L.	98	63	Rogers, J. T.	102	65
Bateman, F.	101	64	Jackson, C. L.	76	54	Sanborn, A.	82	55
Baughman, S. P.	100	64	Jackson, W. B., Childs, J. M. and O. F.	82	56	Sanders, E. A.	94	61
Bednar, J. F.	97	62	Jennings, W. A.	99	64	Sandiford, R.	71	52
Bement, E.	68	50	Jerauld, H. F.	77	54	Sanford, A.	99	64
Bilz, J. A.	73	53	Jerauld, H. F. and Stolle, J. W.	93	61	Schofield, J.	87	58
Blair, R. A. and Reed, J. B.	68	50	Johnson, D. M.	93	60	Search, C. F.	95	62
Brinly, T. E. C.	76	54	Kagarice, E. R.	81	55	Seely, L. J.	85	57
Brisson, J.	78	54	Kaufman, A.	82	56	Shaw, J. H.	77	54
Carman, A.	63	49	Keech, J.	68	51	Shedd, W. F.	67	50
Chase, J. F.	89	58	Kennedy, D. A.	92	60	Shelton, G.	84	56
Chase, J. F.	92	60	Kidwell, G. W.	76	54	Shogren, A.	69	51
Church, M. C.	101	65	King, D. H. and Hulse, W. M.	83	56	Sieverling, H. C.	77	54
Coonley, J. C. and Buckius, A. O.	90	59	King, A. B.	89	58	Sigrist, F.	66	50
Culver, M. A.	103	65	Kinney, W.	92	60	Simmons, M. H.	98	63
Cunningham, J. T.	100	64	Lahman, W.	84	56	Simpson, J.	96	62
Dailey, A. A.	79	54	Lash, J. S.	65	50	Sims, Z. B.	75	53
Dailey, S. H.	80	55	Latimer, J. B.	79	54	Small, J. B., Holbrook, F. F. and Matthews, E. G.	77	54
Darrow, G. P.	69	51	McCall, E. R.	98	63	Smith, L. E.	85	56
Depew, G. W.	67	50	McCall, E. R.	99	63	Stearnes, L. M.	67	50
Dills, O. P.	69	51	McCollan, A.	78	54	Stewart, D.	72	52
Dow, T.	75	53	Machin, T. N.	87	58	Stewart, E.	80	55
Duling, C. F.	103	65	McKinney, H.	80	55	Stoner, J. B.	64	49
Eaton, J. M.	88	58	Masters Wm.	96	62	Tanger, D. B.	102	65
Eddy, W.	70	51	Matthews, E. G.	72	52	Tarpley, J. H.	76	53
Edwards, W. H.	89	59	Meech, C. L.	63	49	Tracy, J. D. and Platt, J. F.	87	57
Ellis, J. F. and Robinson, C.	94	61	Merrill, F. C.	86	57	Van Brocklin, J.	64	49
Ells, C. S.	97	62	Miller, R. J.	79	54	Vann, J. A.	91	60
Elmer, C. R.	71	52	Miller, J. G.	87	57	Wansbrough, E.	98	63
Erkson, G.	65	49	Mitchell, J. F.	97	63	Warren, T. P.	71	52
Estes, H.	96	62	Morrison, J. B.	88	58	Watt, G.	74	53
Evans, I.	64	49	Myers, I. L.	97	63	Weir, W. S.	91	59
Evans, E.	73	53	Napier, J.	81	55	Weir, W. S.	91	60
Falker, P.	74	53	Nason, C. O.	84	56	Whitcomb, W. E.	94	61
Flanagin, J.	83	56	Necker, C.	101	64	Wilder, C. O.	91	59
Fliedner, L.	73	53	Newhart, J.	71	52	Willis, H. M.	95	62
Foss, C. H.	85	57	Noble, H. T.	93	60	Willoughby, J. D.	65	50
Frederick, S. H.	74	53	Nourse, J. and Howe, J. A.	88	58	Wilt, S.	64	49
Gale, H.	92	60	Olson, J. A.	90	59	Woodward, W. A.	94	61
Gallagher, P.	63	49	Palm, J. H.	101	64	Wright, E. A.	80	55
Gibbs, L.	70	51	Palmer, E. A.	65	49			

A. Carman.

Plow Clevis.

N^o 791.

Patented Jan. 20, 1855

P. Gallagher.

Plow Clevis.

N^o 4,292

Patented Nov. 26, 1845

Fig. 2.

Fig. 1.

J. M. C. Armsby.

Plow Clevis.

N^o 4,466.

Patented Apr. 18, 1846

C. L. Merck.
Plow Clevis.

N^o 4,544.

Patented May 28, 1846.

S. Will.

Plow Clevis.

N^o 4,730.

Patented Sep. 3, 1846

J Van Brocklin.

Plow Clevis.

N^o 5,016

Patented Mar. 13, 1847

Fig 4

Fig 2

Fig 3

I Evans.

Plow Clevis.

N^o 5,581.

Patented May 16, 1848

J.B. Stoner.

Plow Clevis.

N^o 7,638.

Patented Sept. 10, 1850

G. Erikson.

Plow Clevis.

N^o 7,661.

Patented Sep. 17, 1850.

E. A. Palmer.

Plow Clevis.

N^o 15,743.

Patented Sep. 16, 1856.

J. D. Whitoughby.

Plow Clevis.

N^o 7,462.

Patented Jan. 2, 1867.

J. S. Lash.

Plow Clevis.

N^o 18,469.

Patented Oct. 20, 1867.

R. B. Prindle

Plow Clevis

N^o 22,403.

Patented Jan. 14, 1869.

Witnesses
G. W. Brown
J. S. Brown

Inventor
R. B. Prindle

Sheet 1 of 2 Sheets

C. Adams

Plow Clevis

N^o 28,337

Patented May 22, 1860

Witnesses
A. B. Baskinell
H. Baskinell

Inventor
C. Adams

Sheet 2 of 2 Sheets

C. Adams

Plow Clevis

N^o 28,337

Patented May 22, 1860

Witnesses
A. B. Baskinell
H. Baskinell

Inventor
C. Adams

F. Sigrist

Plow Clevis

N^o 30,766

Patented Nov. 27, 1860

Witnesses
D. Williams
Sam. Hoffman

Inventor
F. Sigrist

J. S. Hall.

Plow Clevis

N^o 39,813.

Patented Dec 4, 1860.

W. F. Sheald.

Storal Plow

N^o 561
31,565.

Patented Feb 26, 1861.

Witnesses,
H. H. H.
R. S. Spencer

Inventor,
W. F. Sheald
per M. H. H.
Attorneys

G. W. Deane,

Plow Clevis.

No. 757.
31,761.

Patented Mar. 19, 1861.

L. M. Stearns.

Plow Clevis.

N^o 14,85
32,489

Patented Jan 4, 1861.

Witnesses.
H. H. H.
R. S. Spencer

Inventor.
L. M. Stearns
per M. H. H.
Attorneys

Flair & Reed.

Plow Clevis.

*N^o 2062.
33,266.*

Patented Aug. 20, 1861.

Witnesses

*Jas. Coombs,
H. Fusch,*

Inventors

*R. A. Flair
& B. Reed,
per Wm. H. Allen*

E. Bennett.

Plow.

N^o 36446.

Patented Sept. 16, 1862.

Witnesses,

*J. Bennett
J. W. Allen*

Inventor,

Edwin Bennett

J. Neach.

Plow Clevis.

N^o 38,394.

Patented May 5, 1863.

Witnesses

*H. F. Allen
C. A. Allen*

Inventor

Joseph Neach

D. Rhodes,

Plow Clevis.

No. 42401.

Patented Apr. 12, 1864.

Witnesses

*J. W. Allen
B. W. Reed*

Inventor

*Daniel Rhodes
per Wm. H. Allen*

H. Stogren.

Plow-Clevis.

N^o 48,844.

Patented Jan 18, 1865.

Witnesses
George W. Gray
E. S. Johnson

Inventor
Andrew Stogren
By A. L. Bond
Att'y.

O. P. Dills.

Plow-Clevis.

N^o 49,733.

Patented Sep 6, 1865.

Witnesses
Chas. Fusch
Wm. Conington

Inventor.
O. P. Dills
By William H. K.
Atty.

L. W. Alden.

Plow-Clevis.

N^o 52,123.

Patented Jan 23, 1866.

Witnesses:
J. D. Patten
A. Moore

Inventor.
Loyall W. Alden
By att'y. A. B. Thompson.

G. P. DARROW.

Plow-Clevis.

No. 57,436.

Patented Aug 21, 1866

Witnesses
Frank W. Darrow
Chas. H. H. H.

Inventor.
Geo. P. Darrow
By Thos. H. H.
Atty.

*W. Eddy.**Plow Clevis.**N^o 65,357.**Patented Jan. 4, 1867.*

Witnesses:
Thos. Encke
J. A. Service.

Inventor:
Walden Eddy
 Per *Murray & Co.*

*L. Gibbs.**Plow Clevis.**N^o 66,016.**Patented Jan. 26, 1867.*

Witnesses:
John D. Patton
Thos. J. Chas. & Co.

Inventor:
Lewis Gibbs
 By atty. *H. B. Attingham*

*H. Ingraham.**Plow Clevis.**N^o 68,200.**Patented Aug. 27, 1867.*

Witnesses:
Isaac Jeff
James C. Smith

Inventor:
Samuel Ingraham
 by atty. *attorney*
L. B. Jones

*Austin G. Shaw.**Plow Clevis.**N^o 68,545.**Patented Sept. 3, 1867.*

Witnesses:
Thos. Encke
John A. Hagan

Inventor:
H. H. Austin
Wm. Shaw

J. NEWHART.

Plow-Clevis.

No 70,351.

Patented Oct. 29, 1867

Witnesses:

J. A. Biggley
Günther Weif

Inventor:

Jacob Newhart

R. Sandiford.

Plow Clevis

No 78,642.

Patented Jan. 2, 1868

Witnesses:

J. H. Hutchins
T. L. Cuyler

Inventor:

Roger Sandiford

T. P. Warren.

Plow Clevis

No 78,776.

Patented Jan. 9, 1868.

Witnesses:

W. H. Rogers
S. A. Collett

Inventor:

Thomas P. Warren
per Munroe
Attorney

C. R. Elmer.

Plow Clevis.

No 78,868.

Patented Jan. 16, 1868.

Inventor:

Charles R. Elmer
by his attorney
Stephen White

Witnesses:

J. A. Stetson
Willard Emory

J. Ball
Plow Clevis.

No. 81,731.

Patented Sep. 1, 1868.

WITNESSES:

M^{rs} M. J. Ball
Leopold Gierke

Inventor:

John Ball
per *Alexander Thomson*
Attorney.

E. G. Matthews
Plow Clevis.

No. 81,121.

Patented Mar. 2, 1869.

Witnesses:

Mar. 2, 1869
L. H. Miller

Inventor:

E. G. Matthews

J. Ball
Plow Clevis.

No. 81,458.

Patented Mar. 2, 1869.

Witnesses:

Leopold Gierke
Leopold Gierke

Inventor:

John Ball
per *Alexander Thomson*
Attorney.

D. STEWART.
Plow Clevis.

No. 82,764.

Patented Oct. 6, 1868.

Witnesses:

Leop. Green
D. P. Wright

Inventor:

David Stewart
per *J. B. Woodbury*
Attorney.

L. Friedner.

Elastic Link for Clevis.

No. 89,619

Patented for 6, 1869.

Fig 1

Fig 2

Witnesses

*J. H. Burridge
Frank P. Alden*

Inventor

Louis Friedner.

G. M. Wilson.

Flow Clevis.

No. 89,407.

Patented Jan 27, 1869

Fig 1

Fig 2

Witnesses:

*Wm. H. Brooks
C. J. Feltner*

Inventor:

*G. M. Wilson
by Wm. H. Brooks
Attorney.*

J. A. Biltz,

Flow Clevis.

No. 90,008

Patented May 18, 1869

Fig 1

Fig 2

Witnesses:

*J. L. Bone
Geo. H. Strong*

Inventor

*J. A. Biltz
by Geo. H. Strong
Attorney.*

J. Evans.

Flow Clevis.

No. 90,736.

Patented June 1, 1869

Witnesses

*C. A. Pettit
S. C. Krum*

Class Evans

*by Hiram W. Allen
Attorney.*

*G. Matt.**Plow Clevis**No. 92,109.**Patented July 6, 1869.*

Witnesses:
H. C. D. D. D.
Wm. H. D. D.

G. Matt.
by
Attorney

*J. L. Baldwin.**Clevis.**No. 92,775.**Patented Jul. 20, 1869.**Fig. 1* *Fig. 2*

Witnesses:
Wm. H. D. D.
Wm. H. D. D.

Inventor:
J. L. Baldwin
Per Wm. H. D. D.
Attorney

*P. Falker,**Clevis.**No. 92,806.**Patented Jul. 20, 1869.*

Witnesses:
Wm. H. D. D.
Wm. H. D. D.

P. Falker
by
Attorney

P. Falker
by
Attorney

*S. H. Frederick.**Clevis.**No. 92,953.**Patented Jul. 27, 1869.*

Witnesses:
Wm. H. D. D.
Wm. H. D. D.

S. H. Frederick
by
Attorney

Inventor:
S. H. Frederick

W. W. Atterberry

Flow Clevis.

No. 33,340. Patented Aug 19, 1864.

Fig. 2

Fig. 3

Witnesses.

*Alfred Roberts
David Brooks*

Inventor

*W. W. Atterberry
[Signature]*

T. Dow.

Flow Clevis.

No. 41,490. Patented Aug 31, 1864.

Fig. 2

Fig. 3

Witnesses

*E. W. Drue
C. H. E. Lee*

Inventor

*Thomas Dow
By [Signature]
Ed. Chapman*

Z. B. Sims,

Flow Clevis.

No. 94,348. Patented Aug. 11, 1869.

Fig. 2

Witnesses:

*Paul J. Loomis
W. J. Foy*

Inventor:

*Richard B. Sims
[Signature]
Vita*

M. Pullman.

Flow Joint Regulator.

No. 97,690. Patented Aug. 1869.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Witnesses:

*Adam Jackson
[Signature]*

Inventor.

Martin Pullman

*J. H. Parkey,**Plow Clevis**No. 91,990.**Patented Dec. 11, 1889.*

Witnesses:
P. Deland
John M. Stiles

Inventor:
J. H. Parkey
 by *J. D. Smith*
Atty.

T. E. C. BRINLY.
Plow Clevis

*No. 102,652.**Patented May 3, 1870.**Fig. 1* *Fig. 2* *Fig. 3*

Witnesses:
R. A. Sprague
Ch. L. Latham

T. E. C. Brinley
 Inventor:
D. H. Halloway
Atty.

*G. H. Redwell.**Plow Clevis**No. 107,092.**Patented Sept. 29, 1890.**Fig. 1* *Fig. 2* *Fig. 3*

Witnesses:
Frederick B. Smith
S. B. Mabee

Inventor:
G. H. Redwell
 Per *Wm. H. Co.*
Attorneys.

*O. L. Jackson,**Plow Clevis.**No. 109,215**Patented Nov. 13, 1890.**Fig. 1* *Fig. 2*

Witnesses:
Geo. H. H. H.
L. S. H. H.

Inventor:
O. L. Jackson
 Per *Wm. H. Co.*
Attorneys.

H.C. Sieverling,
Plow Clevise.
 No. 119,080. Patented Dec. 13, 1870.

Witnesses.

J. H. Foster
John Burns

Inventor.

H. C. Sieverling
by his Attys.
Richard & Co.

H. F. Jerauld,
Plow Clevise.
 No. 112,715. Patented Mar. 14, 1871.

Attest
W. H. Blackman
H. F. Jerauld

Inventor
H. F. Jerauld
by his Attys.
W. H. Blackman

J. B. SMALL, E. G. MATTHEWS & F. F. HOLBROOK.
 Improvement in Swivel-Clevises for Plows.
 No. 114,212. Patented April 25, 1871.

Witnesses.

Heath & Co.
A. C. Pierce.

Inventors.

J. B. Small
E. G. Matthews
F. F. Holbrook

JOHN H. SHAW.
 Improvement in Clevises.
 No. 115,113. Patented May 23, 1871.

Witnesses.
Volney Bliss
Lamin Bliss

Inventor
John H. Shaw

Andrew McCallum's Plow Clevis.

117187

PATENTED JUL 18 1871

Witnesses.
J. M. Callum.
H. M. Callum.

Inventor.
Andrew McCallum
By H. M. Callum
Att'y.

S.W. Pope

Improved Clevis

118050

PATENTED AUG 15 1871

Witnesses

W. B. Ruggles
C. G. Ruggles

Inventor

S. W. Pope by
H. W. Ruggles att'y

JERRY BRISON.

Improvement in Plow Clevis.

No. 119,502.

Patented Oct. 3, 1871.

Witnesses.
J. B. Brison.
J. A. Campbell

Inventor
Jerry Brison
By M. W. Brison & Son
Att'y.

Martin Prillaman.

Impt. in Draught Regulators for Plows

No. 122,853.

Patented Jan. 16, 1872.

Witnesses

John H. McCallum.
Samuel H. McCallum

Inventor

Martin Prillaman
By J. H. McCallum att'y

R. J. MILLER.

Improvement in Plows.

No. 122,956.

Fig. 1.

Patented Jan. 29, 1872.

Fig. 3.

Fig. 2.

Witnesses:

A. D. Munnell.

Francis M. O'Leary

Inventor:

R. J. Miller

Per

Munnell
Attorney

J. B. LATIMER.

Improvement in Plows.

No. 124,143.

Patented Feb. 27, 1872.

Fig. 1

Fig. 2.

Witnesses:

John R. Young

Inventor

J. B. Latimer
by A. D. Munnell
his atty

WILLIAM AXFORD

Improvement in Plow Clevis.

No. 124,313.

Patented March 5, 1872.

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses

George W. Rhodes

William V. Rhodes

Inventor

William Axford

ALBERT A. DAILEY.

Improvement in Plow Clevis.

No. 124,339.

Patented March 5, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses

John V. White

Gas. F. White

Inventor

Albert A. Dailey

M. Alexander
Atty

S. H. DAILEY.

Improvement in Draught Attachment to Plow.

No. 126,934.

Patented May 21, 1872.

Witnesses:

Gustave Distenck
Geo. W. Mabey

Inventor:

S. H. Dailey
 per *Miner & Co.*
 Attorneys.

E. A. WRIGHT.

Improvement in Plow-Clevis.

No. 128,087.

Patented June 18, 1872

Fig. 2.

Fig. 1.

WITNESSES.

C. A. Bates
Geo. E. Hume

INVENTOR.

Edgar A. Wright
 per *Chipman & Brown*
 Attys

H. McKINNEY.

Improvement in Plow-Clevis Pin.

No. 129,355.

Patented July 16, 1872.

Witnesses:

J. P. Brown
C. A. Smith

Inventor:

Henderson McKinney
 per *Blanchard & Reed*
 Attorneys.

E. STEWART.

Improvement in Plow-Clevises.

No. 129,614.

Patented July 16, 1872.

Witnesses:

J. A. McKim
C. A. Smith

Inventor:

Edward Stewart
 per *Henderson & Reed*
 Attorneys.

J. NAPIER.

Improvement in Plow-Clevis.

No. 130,145.

Fig. 1.

Patented Aug. 6, 1872

Fig. 2.

Witnesses:

James Eagleson
Robert H. Hanson

Inventor:

James Napier

J. T. HOVIS.

Improvement in Plows.

No. 130,717.

Patented Aug. 20, 1872

Fig. 1.

Fig. 2.

WITNESSES:

Wm. Linton
A. Bondy

INVENTOR:

John T. Hovis
by Geo. C. Brown
Atty

E. R. KAGARICE.

Improvement in Clevises.

No. 132,724.

Patented Nov. 5, 1872.

Witnesses:
J. A. Eli
G. L. Galt

Inventor:
Emanuel R. Kagarice
J. H. Alexander & Co.
Atty.

F. REESE.

Plow-Clevises.

No. 133,799.

Patented Dec. 10, 1872.

Fig. 1.

Fig. 2.

Witnesses:

J. A. Douglas
J. H. Reese

Inventor:

Francis Reese

A. SANBORN.

Plows.

No. 133,802.

Patented Dec. 10, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
C. F. Brown
M. Church.

Inventor
A. Sanborn.
by H. H. Hays.
Attest.

C. HARTZELL.

Plows.

No. 134,377.

Patented Dec. 31, 1872.

Fig. 2.

Fig. 1.

Witnesses

Edw. J. Nelson.
John Williams

Inventor

Conrad Hartzell
at M. Cool

A. KAUFMAN.

Plow-Clevises.

No. 137,078.

Patented March 25, 1873

Witnesses

J. L. Goss
C. H. Richardson

August Kaufman
per H. H. Hays
Attest.

W. B. JACKSON & J. M. & O. J. CHILDS.

Plows.

No. 138,895.

Patented May 13, 1873

fig. 1.

fig. 2.

Attest:

Edw. J. Nelson
Conrad Hartzell

Inventors:

William B. Jackson.
J. M. & O. J. Childs.
at M. Cool

R. GIBBS.
Clevis-Bars and Hooks.

No. 139,381

Patented May 27, 1873.

Witnesses:
J. Watkins
Solomon Kinnon

Inventor:
Robert Gibbs
Per [Signature]
Attorneys.

J. FLANAGIN.
Plow-Trucks.

No. 139,564

Patented June 3, 1873.

Witnesses:
A. W. Thompson
C. J. Quinn

Inventor:
J. Flanagan
Per [Signature]
Attorneys.

A. ADAMS.
Draft-Hooks for Cultivators.

No. 139,752

Patented June 10, 1873

Witnesses:
C. F. [Signature]
S. M. [Signature]

Inventor:
A. Adams
by [Signature]
Attorneys.

D. H. KING & W. M. HULSE.
Equalizing Attachments for Plows.

No. 140,632.

Patented July 8, 1873.

Witnesses:
A. [Signature]
C. [Signature]

Inventor:
D. H. King &
W. M. Hulse
Per [Signature]
Attorneys.

CLEVISES.

W. LAHMAN.
Plow-Clevises.

No. 140,715.

Patented July 8, 1873.

WITNESSES.

Henry S. Miller
G. L. Currier

INVENTOR.

Wm. Lahman
per H. A. D. Thorne
Attorneys

C. O. NASON.
Plows.

No. 141,375.

Patented July 29, 1873.

WITNESSES.

R. H. May
J. H. May

INVENTOR.

Charles O. Nason
per C. M. C. C. C.
Attys.

J. H. ARNOLD.
Clevises.

No. 148,345.

Patented March 10, 1874.

WITNESSES.

Will D. Boies
James H. Conner

INVENTOR.

James H. Arnold
per L. G. Hewitt
Attorney

G. SHELTON.
Clevises.

No. 157,976.

Patented Dec. 22, 1874.

WITNESSES.

M. H. Warringer
Paul. Hewitt

INVENTOR.

G. Shelton
per H. B. Richards
Attys.

L. E. SMITH.
Clevises.

No. 158,140.

Patented Dec. 22, 1874.

Fig. 1.

Fig. 2.

WITNESSES:

E. Wolff
A. J. Terry

INVENTOR:

Leander E. Smith
BY *Mumme*
ATTORNEYS.

E. O. HARVEY.
Clevise.

No. 159,549

Patented Feb. 9, 1875.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:
Samuel C. Shaw
H. C. Mearns

Inventor:
Edith O. Harvey
PER *C. A. Shaw*
Att.

C. H. FOSS.
Clevise.

No. 159,662

Patented Feb. 9, 1875.

FIG. 1.

FIG. 2.

ATTEST:

Robert Bernal
Henry Bernal

INVENTOR:

Charles H. Foss
By Knight & Co.
Att.

L. J. SEELY.
Draft-Equalizer.

No. 160,355

Patented March 2, 1875.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

WITNESSES:
Francis McDowell
A. J. Terry

Inventor:
L. J. Seely
Mumme
ATTORNEYS.

C. N. POUNDSTONE.
Safety-Clevis.

No. 165,253.

Patented July 6, 1875.

WITNESSES:
E. W. Hoff
A. J. Toney

INVENTOR:
Charles N. Poundstone
BY *[Signature]*
ATTORNEYS.

F. C. MERRILL.
Side-Hill Plow-Clevis.

No. 166,935.

Patented Aug. 24, 1875.

Witnesses:
Frank H. Jordan
Wm. Porter Ball

Inventor:
Freeman C. Merrill
Per *[Signature]*
att'y.

B. B. HAWES.
FURROW GAGE FOR PLOWS.

No. 170,256.

Patented Nov. 23, 1875.

2 Sheets—Sheet 1.

WITNESSES:
C. W. Bates
Francis J. Chasie

INVENTOR:
B. B. Hawes.
By *[Signature]*
ATTORNEYS.

B. B. HAWES.
FURROW GAGE FOR PLOWS.

No. 170,256.

Patented Nov. 23, 1875.

3 Sheets—Sheet 2.

WITNESSES:
C. W. Bates
Francis J. Chasie

INVENTOR:
B. B. Hawes.
By *[Signature]*
ATTORNEYS.

J. G. MILLER.
CLEVISES.

No. 170,758.

Patented Dec. 7, 1875.

WITNESSES:
E. Wolff
Alex. F. Roberts

INVENTOR:
J. G. Miller
Munn & Co.
ATTORNEYS.

J. D. TRACY & J. F. PLATT.
HOOKS FOR HARROWS.

No. 171,197.

Patented Dec. 14, 1875.

WITNESSES
Arthur Everett
Walter C. Roberts

INVENTOR:
John D. Tracy
James F. Platt
Chesterman & Co.
ATTORNEYS.

J. SCHOFIELD.
CLEVIS.

No. 172,180.

Patented Jan. 11, 1876.

WITNESSES
Arthur Everett
Walter C. Roberts

INVENTOR:
John Schofield
Chesterman & Co.
ATTORNEYS.

T. N. MACHIN.
ELASTIC-CLEVIS.

No. 175,572.

Patented April 4, 1876.

Witnesses,
W. F. Cambridge
W. F. Cambridge

INVENTOR:
Thomas N. Machin
W. F. Cambridge
W. F. Cambridge

T. B. BALDWIN.
WHIFFLETREE ATTACHMENTS FOR PLOWS.
No. 176,212. Patented April 18, 1876.

Fig. 1.

Fig. 2.

WITNESSES:

E. Hoff
John Gethals

INVENTOR:

T. B. Baldwin
BY *Munn & Co.*
ATTORNEYS

L. C. EATON, dec'd.
JULIA M. EATON, Adm'r.
SPRING-CLEVIS.
No. 179,285. Patented June 27, 1876.

Fig. 1

Fig. 2.

WITNESSES

Mc & Wigg
John F. Allen

INVENTOR

Julia M. Eaton
Administratrix of
L. C. Eaton
Edw. Smith & Co. ATTORNEYS

J. B. MORRISON.
DRAFT-EQUALIZERS.
No. 179,485. Patented July 4, 1876.

Fig. 1.

Fig. 2.

WITNESSES

Richard H. Lane
A. W. Bayley

INVENTOR

Joseph B. Morrison
BY *W. H. & Co.*
ATTORNEYS

J. HOURSE & J. A. HOWE.
FURROW-SAGES FOR PLOWS.
No. 180,726. Patented Aug. 8, 1876.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses.

E. A. Hildreth
Geo. E. Burt.

Inventors.

Joel Hourse
James A. Howe

A. B. KING.
DRAFT FOR PLOWS.

No. 181,180.

Patented Aug. 16, 1976.

WITNESSES
Villette Anderson
Francis J. Masi

INVENTOR
3 A B King
E W Anderson.
ATTORNEY

J. F. CHASE.
SPRING_CLEVIS.

No. 181,313.

Patented Aug. 22, 1876.

Witnesses.
C L Gunt
H V Miller

Inventor
John F. Blumer

B. B. HAWSE.
FURROW-GAGE FOR PLOWS.

No. 182,665.

Patented Sept. 26, 1876.

WITNESSES
Edw. J. Bulis
George E. Upham.

Benjamin B. House
C. J. Moore Smith & Co.
INVENTOR.
ATTORNEYS.

W. H. EDWARDS.
CLEVIS.

No. 183,551.

Patented Oct. 24, 1876.

Witnesses:
 Penn J. Fritchell
 H. H. Dodge

Inventor:
W. H. Edwards,
by Dodge & Son
Attys

C. ROBINSON.
CLEVIS FOR FLOWS.
No. 188,413. Patented March 13, 1877.

2 Sheets—Sheet 1.

WITNESSES
Jas. C. Hutchinson
Henry H. Hagerd.

INVENTOR
Clark Robinson, by
Amelia S. Robinson, atty.

C. ROBINSON.
CLEVIS FOR FLOWS.
No. 188,413. Patented March 13, 1877.

2 Sheets—Sheet 2.

WITNESSES
Jas. C. Hutchinson
Henry H. Hagerd.

INVENTOR
Clark Robinson, by
Amelia S. Robinson, atty.

J. C. COONLEY & A. C. BUCKIUS.
CLEVIS.
No. 189,021. Patented April 3, 1877.

Witnesses
Jas. C. Coonley
A. C. Buckius.

INVENTORS
John C. Coonley
Albert A. Buckius
by Lewis H. Hagerd, atty.

J. A. OLSON.
FLOW.
No. 190,070. Patented April 24, 1877.

Witnesses
Jas. C. Coonley
A. C. Buckius.

INVENTOR
John A. Olson,
by Lewis H. Hagerd, atty.

W. S. WEIR.
CLEVIS.

No. 190,653.

Patented May 8, 1877.

Witnesses:
Chas. Trupper
P. R. Richards.

Inventor:
William S. Weir
By H. B. Richards,
att'y.

C. O. WILDER.
FLOW-CLEVIS.

No. 191,629.

Patented June 5, 1877.

Witnesses:
Chas. Trupper
P. R. Richards.

Inventor:
Chas. O. Wilder
By H. B. Richards,
att'y.

W. S. WEIR.
FLOW-CLEVIS.

No. 192,608.

Patented July 3, 1877.

Witnesses:
Chas. Trupper
P. R. Richards.

Inventor:
William S. Weir
By H. B. Richards,
att'y.

J. A. VANN.
REVERSIBLE FLOW-HOOKS.

No. 194,276.

Patented Aug. 14, 1877.

Fig. 1

Fig. 2

Witnesses:
C. Nunn
J. H. Scarborough.

Inventor:
J. A. Vann
By H. B. Richards,
att'y.

J. F. CHASE.
Spring Plow-Clevis.

No. 198,275.

Patented Dec. 18, 1877.

WITNESSES:
H. C. McCall
C. L. Smith

INVENTOR:
John A. Chase

W. KINNEY.
Clevis.

No. 199,073.

Patented Jan. 8, 1878.

WITNESSES:
Francis McCall
J. H. Scarborough

INVENTOR:
W. Kinney
BY *McCall*
ATTORNEYS.

H. GALE.
Plow-Wheel Attachment.

No. 199,636.

Patented Jan. 29, 1878.

Witness:
H. C. McCall
C. L. Smith

INVENTOR:
H. Gale
By Atty
J. A. Sprague

D. A. KENNEDY.
Plow-Clevis.

No. 200,730.

Patented Feb. 26, 1878.

WITNESSES:
H. C. McCall
C. L. Smith

INVENTOR:
D. A. Kennedy
BY *McCall*
ATTORNEYS.

D. M. JOHNSON.
Plow-Regulators.

No. 200,919. Patented March 5, 1878.

WITNESSES:
A. W. Hargood
J. H. Scarborough

INVENTOR:
D. M. Johnson
BY *[Signature]*
ATTORNEYS.

H. T. NOBLE.
Plow-Clevis.

No. 201,120. Patented March 12, 1878.

Witnesses:
Henry L. Burns
Chas. Bond

Inventor:
Harry T. Noble
By *Wick & Bond*
attys

C. ROBINSON.
Plow Clevis.

No. 201,837. Patented March 26, 1878.

WITNESSES:
Asah Hutchinson
Henry L. Hargood

INVENTOR:
Clark Robinson, by
Quinell & Co his attys

H. F. JERAULD & J. W. STOLLE.
Sulky-Plow.

No. 202,349. Patented April 16, 1878.

ATTEST:
Robert Burns
L. Glend Gurdett

INVENTORS:
Henry F. Jerauld
James W. Stolle
Wm. Hargood
attys

E. A. SANDERS.
Plow-Clevis.

No. 204,253.

Patented May 28, 1878.

Witnesses:
J. O. Riegel
John Nelson

Inventor
E. A. Sanders
Perfaent-Richel
Atty

W. A. WOODWARD.
Draft-Adjuster for Plow.

No. 205,327.

Patented June 25, 1878.

WITNESSES:
Francis M. White
C. B. Bigham

INVENTOR
W. A. Woodward
BY Munn & Co.
ATTORNEYS.

J. F. ELLIS & C. ROBINSON.
Plow-Clevis.

No. 206,167.

Patented July 23, 1878.

Witnesses:
Will. R. Gage
Donn. B. Cartell

Inventors:
J. F. Ellis
Charles Robinson
Perfaent-Richel
Atty

W. E. WHITCOMB.
Plow.

No. 206,511.

Patented July 30, 1878.

Witness:
F. H. Schmitt
E. A. B. B. B.

Inventor
William E. Whitcomb
John B. Tustine & Co.

H. M. WILLIS.
Clevis-Bolt.

No. 207,375.

Patented Aug. 27, 1878.

WITNESSES

John A. Allen
C. J. Bates

Henry M. Willis
INVENTOR
by *Geo. A. Sawyer*

ATTORNEY

C. F. SEARCH.
Clevis.

3 Sheets—Sheet 1.

No. 208,042.

Patented Sept. 17, 1878.

Attest:

C. F. Search
O. L. Fox

INVENTOR:

Casper F. Search
By *Casper F. Search*
Attorneys

C. F. SEARCH.
Clevis.

3 Sheets—Sheet 2.

No. 208,042.

Patented Sept. 17, 1878.

Attest:

C. F. Search
O. L. Fox

INVENTOR:

Casper F. Search
By *Casper F. Search*
Attorneys

C. F. SEARCH.
Clevis.

3 Sheets—Sheet 3

No. 208,042.

Patented Sept. 17, 1878.

Attest:

C. F. Search
O. L. Fox

INVENTOR:

Casper F. Search
By *Casper F. Search*
Attorneys

W. MASTERS.
Plow-Clevis.

No. 208,621.

Patented Oct. 1, 1878.

WITNESSES
A. H. Sells
J. J. Massi.

INVENTOR
W. Masters
By E. W. Anderson
ATTORNEY

H. ESTES.
Plow-Clevis.

No. 208,899.

Patented Oct. 15, 1878.

WITNESSES
Geo. H. Hughes
Chas. J. Gooch

INVENTOR
Henderson Estes
By R. J. Knight, Bro.
Att'y.

J. W. POWERS.
Plow-Clevis.

No. 210,877.

Patented Dec. 17, 1878.

Fig 1.

Witnesses
A. H. Sells
J. J. Massi.

INVENTOR
J. W. Powers
By E. W. Anderson
ATTORNEY

J. SIMPSON.
Clevis.

No. 214,793.

Patented April 29, 1879.

WITNESSES
C. H. Atkinson
Geo. D. Seymour

INVENTOR
John Simpson
By J. H. Sargent & Co.
ATTORNEYS

J. F. BEDNAR.
Draft-Hook.

No. 217,194.

Patented July 8, 1879.

Witnesses:
Wm. Dietrich
Amos Hoff

Inventor
Joseph F. Bednar
Per *Manahem Ward* Attorney.

C. S. ELLS.
Clevis.

No. 217,352.

Patented July 8, 1879.

Attest:
Wm. J. Hardwick
W. J. Marshall

INVENTORS:
Charles Ells
By *Coyne & Co.* Attorneys.

J. F. MITCHEL.
Plow-Clevis.

No. 220,938.

Patented Oct. 28, 1879

ATTEST.
Chas. M. Haggan
John B. Haggan

INVENTOR.
J. F. Mitchel
Per *J. H. Waters* atty.

I. L. MYERS.
Plow-Clevis.

No. 221,851.

Patented Nov. 18, 1879.

Witnesses.
Sam R. Turner
Edwin Batty

Inventor:
Isaac L. Myers
Per *W. A. C. Lacey* atty.

H. & L. IWAN.
Draft Attachment to Plows.

No. 224,917.

Patented Feb. 24, 1880.

Fig. 1.

Fig. 2.

Witnesses

Nat. E. Siphant.
Geo. R. Porter

Inventors

Henry Iwan.
Louis Iwan.
per Charles Fowler
Attorney

E. WANSBROUGH,
Clevise.

No. 226,137

Patented Mar. 30 1880

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses

Ed. Nottingham
Geo. R. Porter

Inventor

E. Wansbrough
per Bennett & Sargent
Attorneys

E. R. McCALL.
Plow Attachment.

No. 226,667.

Patented April 20, 1880.

Fig. 1.

Fig. 3.

Fig. 2.

Attorney

James W. McCall.
H. R. Porter

Inventor

Edwin R. McCall
per H. R. Porter
Attorney

(No Model.)

M. H. SIMMONS.
Self-Locking Clevise.

No. 228,129.

Patented May 25, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

Ed. McCall
Geo. R. Porter

Inventor

M. H. Simmons
per M. R. Porter
Attorneys

(No Model.)

E. R. McCALL.
Plow Attachment.

No. 228,916.

Patented June 15, 1880.

WITNESSES:
O. H. B. Outhwaite
Leon T. Thodwick

INVENTOR:
Edwin R. McCall
By [Signature] ATTORNEYS

(No Model.)

W. A. JENNINGS.
Clevise.

No. 235,248.

Patented Dec. 7, 1880.

WITNESSES:
H. B. Brown
C. H. Brown

INVENTOR:
Wm. A. Jennings
By [Signature] ATTORNEYS

(No Model.)

A. SANFORD.
Clevise.

No. 237,447.

Patented Feb. 8, 1881.

Witnesses:
J. H. S. S. S.
J. H. S. S. S.

Inventor:
Albert Sanford
By [Signature] ATTORNEYS

J. W. POWERS.
Plow Clevise.

No. 237,772.

Patented Feb. 15, 1881.

Witnesses:
J. H. S. S. S.
J. H. S. S. S.

Inventor:
J. W. Powers
By [Signature] ATTORNEYS

(Model.)

2 Sheets—Sheet 1.

I. R. GILBERT.
Plow Clevis.

No. 238,384.

Patented March 1, 1881.

Witnesses:
H. C. McArthur
John S. Rogers

Inventor
I. R. Gilbert
per
Vanderzander
Attorney

(Model.)

2 Sheets—Sheet 2.

I. R. GILBERT.
Plow Clevis.

No. 238,384.

Patented March 1, 1881.

Witnesses:
H. C. McArthur
John S. Rogers

Inventor
I. R. Gilbert
per
Vanderzander
Attorney

(No Model.)

S. P. BAUGHMAN.
Clevis.

No. 239,700.

Patented April 5, 1881.

Fig. 2

Fig. 3

WITNESSES:
C. N. Mearns
A. S. Baughman

INVENTOR.
S. P. Baughman
BY
Mearns & Co.
ATTORNEYS.

(No Model.)

J. T. CUNNINGHAM.
Plow Beam Attachment.

No. 239,735.

Patented April 5, 1881.

Fig. 2

WITNESSES:
John S. Rogers
John S. Rogers

INVENTOR
J. T. Cunningham
By J. S. Rogers
Attorneys

(No Model.)

J. H. PALM.
Plow Clevis Adjuster.
No. 241,709. Patented May 17, 1881.

Fig. 2.

Fig. 3.

WITNESSES:
Rudolph Kuttisch
John Korman

INVENTOR:
James H. Palm
BY [Signature]
ATTORNEYS.

(No Model.)

O. NECKER.
CLEVIS.
No. 245,390. Patented Aug. 9, 1881.

Fig. 2.

WITNESSES:
Carl Kays
Otto Risch

INVENTOR:
Oskar Necker
BY [Signature]
ATTORNEY

(No Model.)

F. BATEMAN.
DRAFT EQUALIZER.
No. 245,432. Patented Aug. 9, 1881.

FIG. 1.

FIG. 2.

Witnesses:
Hubert Howson
Henry Howson Jr.

Inventor:
Frank Bateman
by his Attorneys
[Signature]

(No Model.)

M. C. CHURCH.
CLEVIS.
No. 245,448. Patented Aug. 9, 1881.

Fig. 2.

Fig. 1.

Fig. 3.

Fig. 4.

WITNESSES:
Cyrenus K. K.
[Signature]

INVENTOR:
Morris C. Church
By [Signature]
[Signature]

(Model.)

M. HUBBELL.
OLEVIS.

No. 249,941.

Patented Nov. 22, 1881.

Fig. 2.

WITNESSES:

Chas. N. Hall
C. S. Dyer

INVENTOR:

M. Hubbell
BY *Munn & Co.*
ATTORNEYS.

(No Model.)

J. T. ROGERS.
SHACKLE.

No. 251,464.

Patented Dec. 27, 1881.

Fig. 2.

WITNESSES

Edw. Strong
Frank A. Smith

Inventor
James T. Rogers
BY *Dewey & Co.*
ATTORNEYS.

(Model.)

D. B. TANGER.
FLOW GOVERNOR.

2 Sheets—Sheet 1.

No. 254,406.

Patented Feb. 28, 1882.

Fig. 1.

Attest
Geo. T. Smallwood Jr.
E. J. Taylor

Inventor
David B. Tanger
BY *Knight Bros.*
ATTORNEYS.

(Model.)

D. B. TANGER.
FLOW GOVERNOR.

2 Sheets—Sheet 2.

No. 254,406.

Patented Feb. 28, 1882.

Fig. 2.

Attest
Geo. T. Smallwood Jr.
E. J. Taylor

Inventor
David B. Tanger
BY *Knight Bros.*
ATTORNEYS.

(No Model.)

M. A. CULVER.

FLOW AND DRAG ATTACHMENT.

No. 263,768.

Patented Sept. 5, 1882.

Fig. 2

Witnesses
E. J. Schostack
Geo. D. Smith

Moses A. Culver
Inventor

E. J. Schostack
Geo. D. Smith

(No Model.)

C. F. DULING.

CLEVIS.

No. 268,785.

Patented Dec. 12, 1882.

Fig. 1

Fig. 4

Fig. 3

Fig. 5

Fig. 2

WITNESSES

J. C. Clark
P. B. Impin

INVENTOR

Charles F. Duling
By R. S. A. Lacey Attorney

COLTERS

Plate Claim			Plate Claim			Plate Claim		
Adams, S. J.	153	91	Hathaway, S.	148	89	Pinkham, J.	131	81
Adams, C. and S. J.	153	91	Heckendorn, J.	140	85	Pitcher, L. B.	117	76
Addams, A.	158	94	Higgins, R. S.	119	77	Pitcher, R. L. and Elwood,		
Aldrich, A.	151	90	Hovis, J. T.	129	80	R.	120	77
Aldrich, A.	154	91	Hoxie, H. S.	119	77	Porter, J. F. F.	145	87
Allen, D.	137	84	Hoxie, H. S.	129	80	Potter, M.	134	82
Allen, E.	257	93	Huber, S.	158	94	Pykiet, G. F.	127	80
Almy, D.	115	75	Hughes, D. W.	123	78	Reynolds, E. D. and O. B.	163	96
Armstrong, J. and G.	135	83	Hughes, D. W.	140	85	Rice, E. S.	117	76
Aughe, J.	118	76	Hughes, D. W.	163	97	Richards, M.	124	79
Augsburger, J.	147	88	Hunt, F. B.	164	97	Rick, F.	143	86
Bagwell, P. A.	154	92	Hunting, C. B.	114	74	Robinson, J. G.	121	78
Baker, J. W.	129	80	Huntsman, H.	166	98	Ross, A. M.	163	96
Beal, F. R. and Clark, S.	145	87	Jarrell, E.	148	88	Rowell, G. D.	122	78
Beals, J. S.	113	74	Jenkins, C. S.	162	96	Runyon, J. and Ingersoll,		
Beals, J. S.	116	75	Johnston, J. S.	124	79	G.	122	78
Beckwith, P. D.	117	76	Johnston, J. S.	138	84	Runyon, J.	133	82
Bement, A. O.	151	90	Jones, D.	136	83	St. John, G. B.	161	95
Bertrand, T. F. and Sames,			Keith, H. M.	126	79	Sanders, E. A.	146	87
P.	115	74	Keith, H. M.	127	80	Sater, H. H.	164	97
Bolick, W. A., J. D.			Keith, H. M.	130	81	Sattley, M.	120	77
and Fawcett, J. T.	150	89	Kellogg, A. A.	164	97	Schram, A. C.	160	95
Bowsher, N. P.	155	92	Kersh, A. J.	164	97	Sheenan, T.	125	79
Bradley, B. C.	161	96	Kettenring, P.	165	98	Shemwell, O. M.	136	83
Bristol, L. C.	132	81	Kloss, R.	167	99	Sherman, J. H.	116	75
Burlingame, A. H.	149	89	Knoblock, J. C. and Bissell,			Skinner, J. B.	114	74
Burlingame, A. H.	155	92	T. M.	146	87	Skinner, J. B.	115	75
Butler, M.	133	82	Lane, J.	121	78	Skinner, J. B.	116	75
Capehart, T.	166	99	Lane, M. W.	132	81	Skinner, H. M.	126	79
Casebeer, S.	114	74	Lane, J.	151	90	Skinner, H. M.	133	82
Chapman, L.	158	94	Lane, J.	157	93	Slocum, M. D.	149	89
Chubb, E. A.	123	78	Lane, Joseph,	157	93	Smith, F. C.	111	73
Chubb, A. L.	158	93	Lawrence, W. S.	137	83	Smith, F. F.	120	77
Clayton, J.	152	90	Lawrence, W. S.	138	84	Smith, J. M.	125	79
Clayton, J.	159	94	Lawrence, W. S.	141	85	Smith, J. M.	130	81
Clore, W.	142	86	Lawrence, W. S.	145	87	Smith, G. K.	143	86
Collett, W. H.	141	85	Leonard, J. M.	127	80	Spicer, A. J.	128	80
Corneyor, O. J.	165	98	Leonard, J. M.	128	80	Spink, M. A.	113	73
Curkendall, G.	124	79	Lewis, J. W.	122	78	Spink, M. A.	165	98
Currier, H. A.	161	95	Long, J.	112	73	Steller, C. E.	121	78
Custer, J. and Rowland, C.	113	74	Loomis, G. D.	152	90	Steller, C. E.	147	88
Davis, A. M.	137	84	Lovell, S. M.	141	85	Stillman, W. W.	113	74
Deane, G. S.	119	77	Lyon, G. C.	138	84	" " " (R.)	114	74
Delano, H.	111	73	McGregor, W.	149	89	Thomas, C. H.	134	82
Densmore, J.	143	86	Manny, A. J.	159	94	Thompson, C. R.	143	86
Dillenback, D.	127	80	Manny, A. J.	166	98	Thomson, G. and J.	140	85
Dodge, G.	116	75	Manwaring, K. W.	139	84	Thomson, R. B.	146	87
Dodge, J.	131	81	Manwaring, K. W.	155	93	Trump, G.	130	81
Dodge, G.	153	91	Manwaring, K. W.	159	94	Tuttle, B. W.	131	81
Eastwood, I.	126	80	Manwaring, K. W.	160	95	Tuttle, B. W.	131	81
Eaton, E. C.	167	99	Marable, T. E.	119	77	Twigg, C. W.	152	90
Emerson, R.	134	82	Masters, B. F.	122	78	Underwood, F. J.	123	78
Farber, M. W.	163	97	Matteson, D. C. and Wil-			Vincent, C. C.	166	99
Farmer, A. H.	144	87	liamson, T. P.	136	83	Wansbrough, E. and Speer,		
Ferguson, S. T.	139	84	Matthews, E. G.	121	78	W. W.	147	88
" " " (R.)	139	84	Matthews, E. G.	125	79	" " " " (R.)	147	88
Furst, C.	124	78	Meikle, T.	150	89	Wansbrough, E. and		
Gabel, A. C.	140	85	Mellon, W. H.	145	87	Speer, W. W.	159	94
Gale, H.	125	79	Miller, L. and Lighthall, H.	160	95	Way, S.	128	80
" " (R.)	126	79	Mitchell, R. B.	149	89	Webber, A. P.	137	83
Gale, H.	135	82	Moore, G.	142	85	Webster, J. B. and		
" " (R.)	135	83	Morris, D. and Speirs, H.	167	99	Baxter, R.	117	76
Galentine, H.	130	80	Muir, A.	139	84	Webster, T. L.	136	83
Gaunt, F.	154	92	Nash, C.	133	82	Welling, W. J.	150	89
Genzly, J.	142	85	Newton, R.	123	78	Whitbeck, G. V. H.	144	87
Gibbs, L.	132	81	Nichols, J. R.	134	82	Whiteman, E. B.	155	92
" " (R.)	132	81	Noble, H. T.	153	91	Whittlesly, A. and A. K.	111	73
Gibbs, M. L.	151	90	Nott, G. G.	160	95	Wiard, E.	135	82
Gibson, D. D.	159	80	Oldendorph, H. and J.	156	93	Wiard, T.	141	85
Graves, R.	156	93	Oliver, J.	142	86	Wilder, W. H.	150	90
Gross, J. G.	157	93	Oxenford, J.	148	88	Willard, W. H.	112	73
Hague, C. A.	162	96	Pates, T.	152	90	Wisner, H. E.	156	93
Hague, C. A.	162	96	Perfater, G. S.	120	77	Wood, J. W.	144	86
Hall, T. J.	112	73	Pfeil, J. C.	118	76	Woodcock, B. (A. I.)	111	73
" " " (R.)	112	73	" " " (R.)	118	76	Young, I.	115	75
Hall, J. H.	118	76	Pierpont, J.	146	88	Young, W. B.	165	98
Hartman, C. R.	161	95	Pinkham, J.	128	80	Zeller, J. P.	138	84

*E. Woodcock,**Plow.**No. 13**(A1) Patented Sept. 20, 1838.* *H. Delano,**Plow Coulters.**No. 2529**Patented Apr. 1, 1848.* *F. C. Smith,**Plow Coulters.**No. 5526.**Patented Apr. 25, 1848.**Fig. 1* *Fig. 2* *Fig. 3* *A. & A. K. Whittlesey**Fastening Coulters to Plows.**No. 7736.**Patented Oct. 22, 1850.**Fig. 1* *Fig. 3* *Fig. 2* *Fig. 5. Land blade* *Inside of Moldboard.**Plan of Moldboard.* *Side view of Fig. 6.*

T. J. Hall,

Flow Counter.

No. 12627.

Patented Apr. 9. 1855.

Figure 2

Figure 1

T. J. Hall,

Flow Counter.

No. 3782.

Patented Dec. 28. 1859.

Figure 2

Figure 1

J. Long,

Flow Counter.

No. 34893.

Patented Apr. 8. 1862.

Witnesses,
J. H. Lamon, cl.
D. M. Overacker

Inventor,
Josiah Long

W. H. Whitland,

Flow Counter.

No. 37065.

Patented Dec. 2. 1862.

Witnesses,
H. B. Burridge
Bramerd

Inventor
W. H. Whitland

*M. A. Sprink.**Plow Coulters.*N^o 48849.

Patented Jul. 18, 1865.

Fig 1

Fig 2

Witnesses:
Wm. Beaumont
W. A. McGuire

Inventor:
Moses A. Sprink

*J. S. Beale.**Plow Coulters.*N^o 53773.

Patented Apr. 10, 1866.

Fig 1.

Fig 2.

Witnesses
J. M. Blomington
Jas. A. Davies

Inventor:
J. S. Beale
Per Munnell
Att'y

*Custer & Rowland.**Plow Coulters.*N^o 55,476.

Patented Jan. 12, 1866.

Fig 3

Fig 1

Fig 4

Fig 2

Witnesses:
Wm. Colman
J. M. Blomington

Inventors:
Jacob Custer
Chas. Rowland
Munnell & Co.

W. W. STILLMAN.

Plow-Colters.

No. 57,007.

Patented Aug. 7, 1866.

Fig 3

Fig 2

Fig 1

Witnesses:
E. Alexander
John P. Sparks

Inventor:
Wm. Stillman
Per Alexander
Att'y

W^m W. STILLMAN,

Assignor to

Ralph Emerson, Plow-Coulter.

No. 4,597.

Reissued Oct. 17, 1871.

Fig. 1

Fig. 2

Fig. 3

Witnesses:-

W. H. Ross,
J. H. Poyton

Inventor:-

W. W. Stillman
by his atty
W. H. Ross

J. B. Skinner

Plow-Coulter

No. 57,200.

Patented Aug. 14, 1866.

Fig. 2.

Fig. 1.

Witnesses:

J. J. Poyton
Thos. Lang

Inventor:

J. B. Skinner
Baldwin & Son
attys

S. Casebeer

Plow-Coulter.

No. 57,286.

Patented Aug. 21, 1866.

Witnesses.

J. H. Poyton
John Casebeer

Inventor

Samuel Casebeer

C. B. HUNTING.

Plow-Coulter.

No. 57,909.

Patented Sept. 11, 1866.

Inventor

C. B. Hunting
Per. H. H. Hunt
Attorneys

Witnesses

J. H. Poyton
Thos. Lang

BERTRAND & SAMES.

Plow-Colter.

No. 61,608.

Patented Jan. 29, 1867.

Witnesses:
B. J. P. P.
Wm. H. L.

Inventors:
 B. J. P. P. & Wm. H. L.
 of the County of ... State of ...

I. YOUNG.

Shovel Plow.

No. 61,980.

Patented Feb. 12, 1867.

Witnesses:
Wm. H. L.
Wm. H. L.

Inventor:
 I. Young
 by his atty.
J. B. Brown

D. ALMY.

Plow-Coulter.

No. 64,619.

Patented May 14, 1867.

Witnesses:
Wm. H. L.
Wm. H. L.

Inventor:
 D. Almy
 by his atty.
Wm. H. L.

J. B. SKINNER.

Plow-Colter.

No. 66,259.

Patented July 2, 1867.

Witnesses:
Wm. H. L.
Wm. H. L.

Inventor:
 J. B. Skinner
 by his atty.
Wm. H. L.

J. B. SKINNER.
Plow-Colter.

No. 66,260.

Patented July 2, 1867.

Witnesses:

Walter DeLong
J. W. Webster

Inventor.

J. B. Skinner
by his attys
Baldwin How

J. H. SHERMAN.
Plow-Colter.

No. 67,222.

Patented July 30, 1867.

Witnesses:

J. M. Standish
H. A. Standish

Inventor.

J. H. Sherman

G. DODGE.
Plow-Colter.

No. 67,513

Patented Aug. 6, 1867.

WITNESSES

J. A. Lawrence
Wm. Freeman

INVENTOR.

G. Dodge
by *Mumford*
Attorneys

J. S. BEALS.
Plow-Colter.

No. 68,152.

Patented Aug. 27, 1867.

Witnesses.
Thos. Furber
J. A. Lawrence

Inventor.

J. S. Beale
by *Mumford*
Attorneys

L. B. PITCHER.
Plow-Colter.

No. 71,057.

Patented Nov. 19, 1867.

Witnesses.

A. B. Smith
E. W. Smith

Inventor.

Leman B. Pitcher

Webster & Baxler.

Plow Wheel.

No. 71,827

Patented Dec. 3, 1867.

Witnesses.
Chas. F. Brown,
H. E. Thompson.

Webster & Baxler
Inventors by
Amos Beadle
Attorneys.

P. D. Beckwith.

Plow-Gauge Wheel.

No. 73,564

Patented Jan. 21, 1868.

Witnesses.

Wm. H. Ham
M. H. Ham

Inventor.

P. D. Beckwith

per
Charles H. Ham

E. S. Rice

Plow Wheel.

No. 75,054

Patented March 3, 1868

WITNESSES.

W. L. Schmitt
J. A. Fraser

INVENTOR.

E. S. Rice
per M. H. Ham
attorneys

J. Aughe.
Coulter-Holder.

N^o 75287

Patented Mar. 10, 1868.

Witnesses.

Alvin Aughe

Korvac Aughe

Inventor

Jefferson Aughe

J. H. Hall.

Attaching Coulters to Plow-Beams.

N^o 75414

Patented Mar. 10, 1868

WITNESSES

Geo. H. Hall
Robert H. May

INVENTOR

Geo. H. Hall

Keays Hill, Ky.

J. C. Pfeil.

Plow Coulter,

N^o 76,343.

Patented Apr. 7, 1868.

WITNESSES:
Ruth A. Allen

J. McBeth

INVENTOR:

John C. Pfeil
by J. W. Allen

John C. Pfeil,

Rotary Plow Colter.

No. 4,533.

Reissued Aug. 29, 1871.

Witnesses:-

Wm. H. Allen
J. W. Allen

Inventor:-

John C. Pfeil
by W. H. Allen
W. H. Allen

*H. S. Hoxie.**Plow Coulters.**N^o 77,016.**Patented May 5, 1868.*

Witnesses:
Austin J. Mason
James Clark

Inventor:
H. S. Hoxie

*G. S. Deane.**Plow Coulters.**N^o 78,934.**Patented June 16, 1868.*

WITNESSES:
H. C. Ashketter
Wm. A. Morgan

INVENTOR:
G. S. Deane
Wm. A. Morgan

*T. E. Marable.**Plow Coulters.**N^o 81,187.**Patented Aug. 18, 1868.*

Witnesses:
Robert A. Pettit
A. S. Bennett

Inventor:
T. E. Marable
Wm. A. Morgan
Attorneys

*R. S. Higgins.**Plow Coulters.**No. 83,061.**Patented Oct. 13, 1868.*

Witnesses:
Wm. A. Morgan
Attorneys

Inventor:
R. S. Higgins
Wm. A. Morgan
Attorneys

G. S. Frazier,
Plow Colter.
No. 84,374. Patented Nov. 24, 1868.

WITNESSES:
J. A. Morgan
E. L. Collins

Inventor:
G. S. Frazier
per Munnell
Attorney

M. SATTLEY.
 Revolving Plow-Colter.

No. 84,380.

Patented Nov. 24, 1868.

WITNESSES:
A. M. Jamieson
E. A. Pettit

WITNESSES:
M. Sattley
Kennedy & Co.
attys

Pitcher & Ellwood,
Plow Colter.
No. 85,957. Patented Jan. 12, 1869.

Witnesses:
J. K. White
C. W. Howe

Inventor:
N. A. Pitcher
N. Ellwood
by G. L. Chapin
attys

F. F. Smith,
Plow Colter.
No. 85,971. Patented Jan. 19, 1869.

Witnesses:
Albert L. Thomas
Edward H. Sears

Inventor:
F. F. Smith

C. E. STELLER.
Plow Colter.

No. 87,220.

Patented Feb. 23, 1869.

Witnesses:
G. S. Chapin
A. Raymond

Inventor:
C. E. Steller

I. G. Matthews,
Plow.

No. 87,420.

Patented Mar. 2, 1869.

Witnesses:
Thos. C. Dodge
Geo. H. Miller

Inventor:
I. G. Matthews

J. Lane.
Plow Colter.

No. 88,303.

Patented Mar. 30, 1869.

Witnesses:
G. S. Dodge
J. Hailer

Inventor:
John Lane
by Dodge & Hailer
his atty

J. G. Robinson,
Plow.

No. 88,414.

Patented Mar. 30, 1869.

Witnesses:
L. O. May
John H. Cherry

Inventor:
John G. Robinson

*B. F. Masters,**Flour.**No. 38794.**Patented Apr. 13, 1869.*

Witnesses:
B. H. Smith

Inventor:
B. F. Masters
J. C. Frazier
 attorney

*J. M. Lewis**Roller Cutter for Flour.**No. 41,044.**Patented Jun 22, 1869.*

Witnesses
McCombs
Wm. Haynes

Inventor
J. M. Lewis
Per Brown & Co.
attys.

*C. D. Newell,**Flour Cutter.**No. 23,011.**Patented July 27, 1869.*

WITNESSES:
A. M. Haines
John L. Haines

INVENTOR
C. D. Newell
Wm. H. H.
attys.

*Runyon & Ingersoll,**Counter.**No. 23,538.**Patented Aug. 10, 1869.*

Witnesses
Wm. H. H.
John P. Haines

Inventors:
John Runyon
George Ingersoll

R. Newton.
Rolling-Cutter for Flows.
No 93,636. Patented Aug 10, 1869.

Witnesses
Edw. Thomas
C. A. Johnson

Inventor
R. Newton by
H. W. Steadell atty

D. W. Hughes.
Attch'g Flow Cutters.
No 93,888. Patented Aug 17, 1869.

Witnesses
C. O. Brown
W. B. Phillips

Inventor
D. W. Hughes
by Geo. H. Max Attorney

E. A. Chubb.
Flow Wheel.
No 96,194. Patented Sep. 28, 1869.

Witnesses
James Sherry
H. F. Ebbels

Inventor
E. A. Chubb
per Attorney
W. S. Shugart

F. J. Underwood.
Flow Counter.
No. 96,057. Patented Oct. 12, 1869.

Witnesses
L. Keiler
Phil. T. Dordick

Inventor
F. J. Underwood
by Lodger Thomas
his atty

C. First.

Plow Colter.

No. 96,575. Patented Nov. 2, 1869.

WITNESSES
L. L. Bond
C. A. West.

Inventor
Conrad First.

M. RICHARDS.

Plow Colter.

No. 101,509.

Patented April 5, 1870.

Witnesses:
fast How les.
J. M. Howard

Inventor:
Merritt Richards
by fast How les atty

J. S. JOHNSTON.

Plow Colter.

No. 101,739.

Patented April 12, 1870.

Witnesses:
H. H. Burson
C. A. West.

Inventor:
John S. Johnston

C. C. C. C.

Plow Colter.

No. 103,448.

Patented May 17, 1870.

Witnesses
Henry A. Miller
John A. Bell

Inventor
Ernest C. C. C.
J. H. Alexander
Att'y

F. O. Matthews,
Plow Colter.
No. 106,915. Patented July 17, 1870.

Witnesses
Henry Jones
Albert E. Chase

Inventor
F. O. Matthews

T. SHEEHAN
Plow Colter.
No. 106,134. Patented July 5, 1870.

Witnesses
James Jones
John White

Inventor
Thomas Sheehan
Wm. McQuinn

J. M. Smith,
Plow Colter.
No. 106,966. Patented Aug. 20, 1870.

Witnesses
James Jones
Ed. Davis

Inventor
Julius M. Smith
Alfred Mason
Atty.

H. Gale,
Plow.
No. 107,033. Patented Sep. 6, 1870.

Witnesses
Albert Paley
Otto L. Johnson

Inventor
Horatio Gale

H. GALE,
Assignor, by mesne assignments, to THE GALE MANUFACTURING CO.
Plow.

No. 8,082.

Reissued Feb. 12, 1878.

Witness:
R. T. Dyer
L. H. Seely

Inventor:
H. Gale
by J. W. Dyer
att'y.

H. M. KEITH.
Plow Colter.

No. 107,063.

Patented Sept. 6, 1870.

Witnesses:
Wm. Jacobs
J. H. White

Inventor:
H. M. Keith
Per
J. C. Alexander
att'y.

H. M. Skinner,
Flow Colter.

No. 107,238.

Patented Sept. 13, 1870.

Witnesses:
H. P. Beck,
J. J. Rogers

Inventor:
H. M. Skinner
by H. W. Dyer
att'y.

H. M. Keith,
Flow Colter.

No. 108,243.

Patented Oct. 11, 1870.

Witnesses:
John F. Fennell,
Henry A. Shapell

Inventor:
H. M. Keith
by H. W. Dyer
att'y.

H. M. Keith,
Plow Collar.
 No. 108,188. *Patented Oct. 18 1870.*

Witnesses:

John Smith
John White

Inventor:

H. M. Keith

J. A. Alexander

1870

D. DILLENBACK.
Plow Collar.

No. 108,771.

Patented Nov. 1, 1870.

Witnesses:
Henry W. Johnson
W. Johnson

Inventor:

Daniel Dillenback

J. M. Leonard,
Plow Collar.
 No. 110,351. *Patented Dec. 20 1870.*

Witness:

John Leonard
Charles A. Smith

INVENTOR

J. M. Leonard
per Atty
W. S. Sprague

G. F. Fyfe,
Plow Collar.
 No. 110,383. *Patented Dec. 20 1870.*

Witnesses:
W. F. Fyfe
S. B. Mader

Inventor:

G. F. Fyfe
 per *M. M. La*
Attorney.

*J. M. Leonard,**Plow.**No. 110,924.**Patented Jan. 10, 1871.*

Witnesses
George A. Davis
Edw. H. May Jr.

Inventor:
John M. Leonard,

*S. May,**Plow Coulter.**No. 111,158.**Patented Jan. 24, 1871.*

Attest
John W. Smith
Wm. G. Galloway

Inventor:
S. May
Per aty, S. C. Ross

*J. PINKHAM.**Plow Coulter.**No. 111,244.**Patented Jan. 24, 1871.*

Witnesses
Thomas A. Leamon
W. H. Singleton

Inventor
Joseph Pinkham

*A. J. Snitzer.**Prairie Plow Jointer.**No. 111,786.**Patented Feb. 14, 1871.*

Witnesses
Frank Little
R. H. Jackson

Inventor
Andrew J. Snitzer

H. S. HOXIE.

Improvement in Plow-Colters.

No. 114,822.

Patented May 16, 1871

Fig. 1.

Fig. 2.

Fig. 3.

Attest
 My hand
 George S. Smith

Inventor
 H. S. Hoxie
 by J. B. Thompson
 Attorney

JOHN W. BAKER.

Improvement in Root Cutters for Plows.

No. 115,013.

Patented May 23, 1871.

Witnesses,
 J. B. Thompson
 Benjamin W. West

Inventor
 John W. Baker
 by J. B. Thompson
 Attorney

John T. Hovis.

Plow Attachment.

116446

PATENTED JUN 27 1871

Witnesses:
 J. B. Thompson
 Benjamin W. West

Inventor:
 John T. Hovis
 by J. B. Thompson
 Attorney

DAVID D. GIBSON.

Plow Colters.

No. 120,055.

Patented Oct. 17, 1871.

Fig. 1.

Fig. 2.

Witnesses,
 J. B. Thompson
 Benjamin W. West

Inventor
 David D. Gibson
 by J. B. Thompson
 Attorney

HENRY GALENTINE.

Improvement in Plow Wheels.

No. 120,581.

Patented Nov. 7, 1871.

Witnesses:
J. B. Chase
A. H. Vincent

Inventor:
H. Galentine
By Coughlin & Co. Attys

George Krumpf

Improvement in Plows.

No. 120,839.

Patented Nov. 14, 1871.

Witnesses:
J. S. Coleman
A. C. T. Clark

Inventor:
George Krumpf
By J. H. Smith
Attys

Horace M. Keith

Plow.

No. 121,382.

Patented Nov. 28, 1871.

Witnesses:
John A. Shaw
G. P. White

Inventor:
Horace M. Keith
By J. H. Smith
Attys

J. M. Smith. Plow.

No. 121,676.

Patented Dec. 5, 1871.

Witnesses:
E. Wolff
J. H. Smith

Inventor:
J. M. Smith
By J. H. Smith
Attys

JOHN DODGE.

Improvement in Plows.

No. 122,582.

Patented Jan. 9, 1872.

Attest
Halter Allen
S. Scherwin

Inventor
John Dodge
Per Hugh H. H. Allen

JOSEPH PINKHAM.

Improvement in Plow Coulters.

No. 123,838.

Patented Feb. 20, 1872.

Witnesses:
J. H. P. P. P.
J. H. P. P.

Joseph Pinkham
by his attorney
R. H. H. H.

B. W. TUTTLE.

Improvement in Plows.

No. 126,655.

Patented May 14, 1872.

Witnesses:

H. H. H. H.
H. H. H. H.

Inventor.

B. W. Tuttle
per Attorney
H. H. H. H.

B. W. TUTTLE.

Improvement in Plows.

No. 126,656.

Patented May 14, 1872.

Witnesses:

H. H. H. H.
H. H. H. H.

Inventor.

B. W. Tuttle
per Attorney
H. H. H. H.

M. W. LANE.

Improvement in Plows.

No. 127,613.

Patented June 4, 1872.

WITNESSES:

Geo. H. Monard
J. C. Ketchum

INVENTOR:

M. W. Lane
By his attorney
J. S. Bell

L. C. BRISTOL.

Improvement in Plow-Wheel.

No. 127,734.

Patented June 11, 1872.

Fig. 2

Fig. 3

Witnesses.

Thos. Curtis
C. A. Smith

Inventor.

L. C. Bristol

L. GIBBS.

Improvement in Plows.

No. 130,292.

Patented Aug. 6, 1872.

James M. Grant
Andrew Liffon } Witnesses

Lewis Gibbs, Inventor
by J. S. Bell, Attorney

L. GIBBS.

Plows.

No. 5,421.

Reissued May 20, 1873.

WITNESSES.
Willie Anderson
J. S. Bell

INVENTOR.
Lewis Gibbs,
Chapman & Co.,
Attys.

M. BUTLER.

Improvement in Plows.

No. 130,697.

Patented Aug. 20, 1872.

Witnesses:
Chas. Bradford
Edw. Schick

Mamie Butler
Inventor
D. R. Mottley, & Co.
Attys.

J. RUNYON.

Improvement in Plows.

No. 130,751.

Patented Aug. 20, 1872

Witnesses:
Edw. Runyon
A. C. Bradley

Inventor:
John Runyon,
by Geo. W. Atherton
Att. Coun.

H. M. SKINNER.

Improvement in Plows.

No. 131,309.

Patented Sep. 10, 1872.

WITNESSES:

Geo. H. Howard, esq.
L. J. Hayes

INVENTOR:

H. M. Skinner by
A. W. Beadle atty.

C. NASH.

Improvement in Plows.

No. 132,406.

Patented Oct. 22, 1872.

Witnesses:
Jacot Bebel
by W. M. Malone

Inventor:
Charles Nash

M. POTTER.

Plow-Wheels.

No. 136,179.

Patented Feb. 25, 1873.

J. R. NICHOLS.

Plows.

No. 136,257.

Patented Feb. 25, 1873.

Witnesses:
A. H. Thompson
W. H. Smith

Inventor:
J. R. Nichols
 Per *M. M. L.*
 Attorneys.

R. EMERSON.

Colters.

No. 136,647.

Patented March 11, 1873.

C. H. THOMAS.

Coulters-Clasps.

No. 141,675.

Patented August 12, 1873.

Witnesses:
Timothy Edley
David Morris

Inventor:
Chas. H. Thomas

E. WIARD.
Plow-Colters.

No. 142,310.

Patented August 26, 1873

Inventor
Edward Wiard
By John H. Smith, Attorney

Witnesses
H. C. Jones, J. C. Jones

H. GALE.
Plow Jointers.

No. 147,629.

Patented Feb. 17, 1874

Witnesses
E. B. Jones, J. C. Jones

Inventor
H. Gale
By John H. Smith, Attorney

H. GALE.
Plow-Jointer.

No. 6,824.

Reissued Dec. 28, 1876.

Witnesses
Edward Smith, J. C. Jones

Inventor
H. Gale
By John H. Smith, Attorney

J. & G. ARMSTRONG.
Plow-Colters.

No. 148,915

Patented March 24, 1874

Witnesses
A. W. Duhamel, Thomas Hyatt

Inventor
James Armstrong, George Armstrong
By H. C. Jones, Attorney

T. L. WEBSTER.
Plows.

No. 152,887.

Patented July 7, 1874.

WITNESSES:

E. A. Cook
Wm. A. Cook

INVENTOR:

Thos. L. Webster
by atty H. H. H. H.

D. JONES.
Plow-Coulters.

No. 153,489.

Patented July 28, 1874.

Witnesses.

A. B. Orr
W. H. Lough

INVENTOR:

D. Jones

O. M. SHENWELL.
Cultivators.

No. 153,620.

Patented July 28, 1874.

Witnesses:

W. A. H. H.
W. A. H. H.

INVENTOR:

O. M. Shenwell
by atty H. H. H. H.

D. C. MATTESON & T. P. WILLIAMSON.
Gage-Wheels for Gang-Plows and Cultivators.
No. 154,182.

Patented Aug. 18, 1874.

Witnesses:

W. A. H. H.
W. A. H. H.

INVENTORS:

D. C. Matteson
T. P. Williamson
by atty H. H. H. H.

W. S. LAWRENCE.
Plow-Wheels.

No. 156,427.

Patented Nov. 3, 1874.

Witnesses
Hiram F. Brown
Lewis L. Coburn

Inventor:

William S. Lawrence

A. P. WEBBER.
Coulters.

No. 158,552.

Patented Jan. 5, 1875.

Witnesses.
O. B. Bond.
G. B. Howell

Hanson & Hedges.
By H. B. Bond, Atty.
Inventor

A. M. DAVIS.
Colter.

No. 160,309

Patented March 2, 1875

WITNESSES

David A. Ross
H. D. Steele

INVENTOR

Albert M. Davis

D. ALLEN.
Plow-Wheel.

No. 161,193.

Patented March 23, 1875

WITNESSES

Hiram L. Ousard
G. L. Ewer

INVENTOR

David Allen.
Alexander D. Dutton
Attorneys

J. P. ZELLER.
Plow.

No. 163,563

Patented May 18, 1875.

WITNESSES

Henry A. Miller
E. L. Ewert.

INVENTOR:
John P. Zeller.
Charles H. Mason
ATTORNEYS

W. S. LAWRENCE.
Plow.

No. 165,451.

Patented July 13, 1875.

WITNESSES:
Frederick E. Quinn
Lewis A. Gorman

Inventor:
William S. Lawrence

J. S. JOHNSTON.
Colter-Attachment.

No. 167,256.

Patented Aug. 31, 1875.

WITNESSES:

E. A. Jones
A. F. Thayer

INVENTOR:
John S. Johnston
Munnell
ATTORNEYS

G. C. LYONS.
Colter.

No. 168,840.

Patented Oct. 19, 1875

WITNESSES:
H. B. Galtier
James Keneck

Inventor:
Gibson & Lyons

A. MUIR.
COLTER.

No. 171,692.

Patented Jan. 4, 1876.

Fig. 1

Fig. 2.

WITNESSES:

Chas. N. Nite
Alex. F. Roberts

INVENTOR:

A. Muir
BY *mm*
ATTORNEYS.

S. T. FERGUSON.
COLTER.

No. 172,872.

Patented Feb. 1, 1876.

Fig. 1

Fig. 2

WITNESSES:

S. R. Brown
Will. H. Brown

INVENTOR:

Saml. T. Ferguson
per atty *Chas. N. Nite*

S. T. FERGUSON.
Colter.

No. 8,038.

Reissued Jan. 15, 1878.

Fig. 1

Fig. 2.

WITNESSES:

C. Plummer
Geo. H. Evans

INVENTOR:

Saml. T. Ferguson
per atty *A. H. Evans*

K. W. MANWARING.
COLTER.

No. 174,736.

Patented March 14, 1876.

Fig. 1.

Fig. 2.

WITNESSES:

John Westfall
Alfred Lyndcott

INVENTOR:

K. W. Manwaring
BY *mm*
ATTORNEYS.

A. C. GABEL.
FLOW-ATTACHMENT.

No. 175,963

Patented April 11, 1876.

WITNESSES
Robert Everett
George W. Leonard

INVENTOR.
Augustus C. Gabel
Chepman Newman & Co.
Attorneys

D. W. HUGHES.
ROLLING COLTER.

No. 178,443.

Patented June 6, 1876.

WITNESSES
Charles F. Lott
Gerrit & Co.

INVENTOR
David W. Hughes
Glenn & Co.
Attorneys

G. & J. THOMSON.
LAND SKIMMERS FOR FLOW.

No. 178,978.

Patented June 20, 1876.

Witnesses
Albert Noble
A. J. Sheffield

Inventors
George Thomson
John Thomson

J. HECKENDORN.
PLOW.

No. 179,699.

Patented July 11, 1876.

WITNESSES:
J. M. Gault
John Heckendorn

INVENTOR:
J. Heckendorn
BY [Signature]
Attorneys

S. M. LOVELL.
TURF AND GRUBBING COULTER.
No. 185,688. Patented Dec. 26, 1876.

WITNESSES,
John C. [unclear]
John C. [unclear]

INVENTOR:
S. M. Lovell.
BY *[Signature]*
ATTORNEYS.

W. H. COLLETT.
COLTER-PLOW.
No. 187,196. Patented Feb. 6, 1877.

WITNESSES
Frank L. [unclear]
Henry A. Miller

INVENTOR
W. H. Collett.
By *[Signature]*
ATTORNEYS.

T. WIARD.
PLOW.
No. 187,950. Patented Feb. 27, 1877.

Charles [unclear]
George H. [unclear]

INVENTOR
Thomas Wiard.
By *[Signature]*
ATTORNEY.

W. S. LAWRENCE.
PLOW.
No. 188,019. Patented March 6, 1877.

Attest
W. S. [unclear]
E. S. Lloyd.

INVENTOR,
William S. Lawrence.
By *[Signature]*
ATTYS.

J. GENZLY.
SOD-CUTTER.

No. 188,352.

Patented March 13, 1877.

WITNESSES:
W. H. Anderson
Walter C. Ellis

INVENTOR:
Jacob Genzly
by *W. H. Anderson*
ATTORNEY

G. MOORE.
COLTER JOURNAL.

No. 188,750.

Patented March 27, 1877.

Witnesses:

Chas. Tupper
W. R. Richards

Inventor:
Gilpin Moore
By *W. R. Richards*
ATTY.

W. CLORE.
FLOW.

No. 189,607.

Patented April 17, 1877.

WITNESSES:
W. H. Anderson
J. H. Scarborough

INVENTOR:
Wm. Clore
By *Wm. H. Anderson*
ATTORNEY

J. OLIVER.

COLTER OR JOINTER SUPPORTER FOR FLOWS.

No. 190,510.

Patented May 8, 1877.

WITNESSES:
Ed. A. Northrup
Wm. H. Anderson

INVENTOR:
James Oliver
By *Wm. H. Anderson*
ATTORNEYS

J. DENSMORE.
FLOW-JOINTER.

No. 190,672.

Patented May 15, 1877.

Witnesses
J. R. Drake.
T. H. Parsons.

Jay Densmore
Inventor,
by
J. A. Drake
att'y

F. RICE.
FLOW.

No. 191,469.

Patented May 29, 1877.

WITNESSES

J. W. Garner
Atty

INVENTOR
F. Rice
per
F. A. Linnam att'y

C. R. THOMPSON.
FLOW-COLTERS.

No. 191,622.

Patented June 5, 1877.

WITNESSES:
Francis M. Drake.
J. A. Scarborough.

INVENTOR:
C. R. Thompson
BY
Munn & Co
ATTORNEYS.

G. K. SMITH.
COMBINED COLTER AND JOINTER.

No. 192,538.

Patented June 26, 1877.

2 Sheets—Sheet 1.

WITNESSES:
Jas. T. Duhamel
H. B. Brown

INVENTOR:
Geo. K. Smith.
PER
H. S. Abbott.
ATTORNEY.

G. K. SMITH.

2 Sheets—Sheet 2.

COMBINED COLTER AND JOINTER.

No. 192,538.

Patented June 26, 1877.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

WITNESSES:

Jas. F. D. H. H. H.
H. B. Brown

INVENTOR:

G. K. Smith.
PER
H. A. H. H.
ATTORNEY.

J. W. WOOD.

FLOW.

No. 193,102.

Patented July 17, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

John A. T. T. T.
W. H. Dodge

INVENTOR:

J. W. Wood.
By Dodge & Co.
ATTY.

G. V. E. WHITEBECK.
ATTACHING COLTERS TO FLOWS.

No. 194,116.

Patented Aug. 14, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
William K. Brooks
Alexander Reedfield

INVENTOR:

George V. E. Whitebeck

A. H. FARMER.
COLTER AND FLOW-STOCK.

No. 194,665.

Patented Aug. 28, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

W. H. H. H. H.
J. H. H. H.

INVENTOR:

A. H. Farmer.
By H. H. H. H.
ATTORNEYS.

W. S. LAWRENCE.
Plow.
No. 196,026. Patented Oct. 9, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
N. C. Curtis.
Geo. C. Macbride

Inventor
William S. Lawrence.
By *Charles H. Macbride*
Attorney at Law.

W. H. MELLON.
Rotary Cutter and Shield for Plows.
No. 196,160. Patented Oct. 16, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

Chas. H. Macbride
J. H. Cartwright

INVENTOR:
W. H. Mellon
BY *Charles H. Macbride*
ATTORNEYS.

J. F. F. PORTER.
Fasteners for Colters and Plow-Standards.
No. 196,385. Patented Oct. 23, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

Chas. H. Macbride
J. H. Cartwright

INVENTOR:
J. F. F. Porter
BY *Charles H. Macbride*
ATTORNEYS.

F. R. BEAL & S. CLARK.
Colter or Jointer Arms for Plows.
No. 197,448. Patented Nov. 27, 1877.

Fig. 1.

Fig. 2.

Witnesses
Chas. H. Macbride
J. H. Cartwright

Inventors
F. R. Beal
& S. Clark
By *Charles H. Macbride*
Attorneys.

E. A. SANDERS.
Rolling-Colter.

No. 199,937.

Patented Feb. 5, 1878

Witnesses:
S. H. New
S. H. New

Inventor:
Ebenzer A. Sanders
Per Jacob K. Schell
Atty.

R. B. THOMSON.
Colter-Holder for Plows.

No. 200,230.

Patented Feb. 12, 1878.

Witnesses:
James M. Cook
J. H. Scarborough

Inventor:
R. B. Thomson.
BY Munn & Co.
ATTORNEYS

J. C. KNOBLOCK & T. M. BISSELL.
Plow.

No. 200,734.

Patented Feb. 26, 1878.

Witnesses:

Freight & Co. and
Munn & Co.

Inventor:
John C. Knoblock
Thomas M. Bissell
Munn & Co. ATTORNEYS

J. PIERPONT.
Plow-Colter.

No. 200,842.

Patented March 5, 1878.

Witnesses:
Amos A. Allen
H. L. Stuart

Inventor:
Joshua Pierpont,
By H. B. Richards,
Atty.

E. WANSBROUGH & W. W. SPEER.
Plow Cutter.

No. 201,470.

Patented March 19, 1878.

E. WANSBROUGH & W. W. SPEED,
Assignors to A. SPEED & SONS
Plow-Cutter.

No. 8,888.

Reissued Sept. 9, 1879.

J. AUGSPURGER.
Colter for Plows.

No. 202,624.

Patented April 23, 1878.

C. E. STELLER.
Colter.

No. 203,668.

Patented May 14, 1878.

E. JARBELL.
Plow-Colter.

No. 206,334.

Patented July 23, 1878.

Fig. 2.

WITNESSES

John A. Lee,
Edw. E. Smith

INVENTOR.

Edw. E. Smith,
Attorneys.

J. OXFORD.
Plow-Colter.

2 Sheets—Sheet 1.

No. 206,818.

Patented Aug. 6, 1878.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES

John A. Lee,
James J. Sherry

INVENTOR.

James J. Sherry,
Attorneys.

J. OXFORD.
Plow-Colter.

2 Sheets—Sheet 2.

No. 206,818.

Patented Aug. 6, 1878.

Fig. 9.

Fig. 11.

Fig. 12.

WITNESSES

John A. Lee,
James J. Sherry

INVENTOR.

James J. Sherry,
Attorneys.

S. HATHAWAY
Colter.

No. 207,352

Patented Aug. 27, 1878

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses:

John A. Lee,
James J. Sherry

Inventor:
Saml Hathaway,
by H. J. Ennis
Attorney.

M. D. SLOCUM.
Jointer-Clamp.

No. 207,451

Patented Aug. 27, 1878

WITNESSES:
Charles M. Wells.
C. Sedgwick

INVENTOR:
M. D. Slocum
BY *Ministery*
ATTORNEYS.

A. H. BURLINGAME.
Rolling-Colter.

No. 207,589.

Patented Sept. 3, 1878.

Witnesses:
J. P. The Long.
J. H. H. H. H.

Inventor:
A. H. Burlingame
BY *Ministery*
ATTORNEYS.

W. Mcgregor
Plow-Colter.

No. 209,129.

Patented Oct. 22, 1878.

WITNESSES:
George H. Smith
C. Sedgwick

INVENTOR:
W. Mcgregor
BY *Ministery*
ATTORNEYS.

R. B. MITCHELL.
Plow.

No. 209,412.

Patented Oct. 29, 1878

WITNESSES:
Henry N. Miller
C. Sedgwick

INVENTOR:
R. B. Mitchell
BY *Ministery*
ATTORNEYS.

T. MEIKLE.
Plow-Colter.

No. 210,047.

Patented Nov. 19, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses

J. Ruppert
J. Mamm

Thos. Meikle

Inventor:

D. P. Hillman & Co.
Attys

W. A. & J. D. BOLICK & J. T. FAUCETT.
Plow Attachment.

No. 210,290.

Patented Nov. 26, 1878.

FIG I

FIG II

FIG III

WITNESSES:

Jacob Brooks
Jno. D. Patton

INVENTORS:

W. A. Bolick & J. D. Bolick & J. T. Faucett,
by C. A. Snow & Co.
ATTORNEYS

W. J. WELLING.
Plow-Jointer.

No. 210,588.

Patented Dec. 3, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES

Wm. Anderson
S. J. Chase

INVENTOR

W. J. Welling
by Wm. Anderson
ATTORNEY

W. H. WILDER.
Plow-Wheel Standard.

No. 212,076.

Patented Feb. 4, 1879.

Fig. 1.

Fig. 2

Fig. 3

Witnesses

Geo. Coulter
J. Vance Lewis

Inventor

W. H. Wilder
By Daniel Breed, Attys

M. L. GIBBS.
Plow.

No. 212,209.

Patented Feb. 11, 1879.

WITNESSES

F. L. Russell
J. J. McCarthy

BY

INVENTOR
Markin L. Gibbs
Charles H. Mason
ATTORNEYS

A. ALDRICH.
Cutter for Plows.

No. 212,419.

Patented Feb. 18, 1879.

Witnesses:
H. C. McArthur
C. E. Smith

Inventor
A. Aldrich
W. Alexander Hollick
ATTORNEYS

A. O. BEMENT.
Plow Attachment.

No. 212,429.

Patented Feb. 18, 1879.

Attest.
A. O. Bement
Charles H. Mason

Inventor,
A. O. Bement
Ray Allen
Wm. S. Sprague

J. LANE.
Wheel-Colter.

No. 213,049

Patented Mar. 11, 1879.

Witnesses:
W. Ottman
Harry Dewitz

Inventor,
John Lane

G. D. LOOMIS.
Plow.

No. 213,051

Patented Mar. 11, 1879.

WITNESSES:
E. A. Hollingsworth
W. B. Wright

INVENTOR:
G. D. Loomis
BY *Dequet & Dequet*
ATTORNEYS

T. PATES.
Wheel-Colter.

No. 213,061

Patented Mar. 11, 1879

WITNESSES

W. Ottman
J. A. Joseph

INVENTOR

Thomas Pates

C. W. TWIGG.
Plow.

No. 213,475

Patented Mar. 18, 1879.

WITNESSES:
A. Schell
C. S. Squire

INVENTOR:
C. W. Twigg
BY *Mumford*
ATTORNEY

J. CLAYTON.
Plow-Colter.

No. 213,622.

Patented Mar. 25, 1879

WITNESSES:

George H. Miller
C. H. Smith

INVENTOR:

J. Clayton
BY *Mumford*
ATTORNEYS.

S. J. ADAMS.
Hub for Plow-Colters.

No. 214,229

Patented April 15, 1879.

Witnesses
H. H. Wood
J. L. Kuyf

Inventor
S. J. Adams
by James I. King
Attorney

H. T. NOBLE.
Caster-Colter.

No. 214,519.

Patented April 22, 1879

Witnesses:
H. L. Bond.
O. W. Bond.

Inventor
Henry T. Noble
By H. H. Wood, Atty.

C. & S. J. ADAMS.
Plow-Colter.

No. 214,864.

Patented April 29, 1879.

Witnesses:
H. H. Wood
J. L. Kuyf

Inventor.
C. & S. J. Adams
by James I. King
Attorney

G. DODGE
Colter and Jointer.

No. 215,587

Patented May 20, 1879.

Witnesses:
H. H. Wood
J. L. Kuyf

Inventor
George Dodge
By H. H. Wood, Atty.

G. DODGE.
Colter and Jointer.

No. 215,587.

Patented May 20, 1879.

WITNESSES:
E. D. Atkinson,
Mr. Bright

INVENTOR:
George Dodge,
By Everett & Bennett,
ATTORNEYS

A. ALDRICH.
Colter.

No. 216,128.

Patented June 3, 1879.

Witnesses:
W. C. M. O'Brien,
John C. Rogers

INVENTOR:
A. Aldrich,
per
T. H. Mendenhall & Co.,
Attorneys

P. A. BAGWELL.
Colter-Fastener.

No. 217,043.

Patented July 1, 1879.

WITNESSES:
Achilles Schuch,
C. S. S. S.

INVENTOR:
P. A. Bagwell,
BY Munroe & Co.,
ATTORNEYS

F. GAUNT.
Attaching Colters to Plows.

No. 217,363.

Patented July 8, 1879.

Witnesses:
Harry Smith,
Henry Kowoff

INVENTOR:
Fuller Gaunt,
by his attorney
Horton and Co.

A. H. BURLINGAME
Hanger for Plow-Colter.

No. 218,617.

Patented Aug. 19, 1879.

Witnesses:
J. P. Hurling,
H. B. Hurling.

Inventor.
A. H. Burlingame
Attest: H. B. Hurling,
Notary Public.

E. B. WHITMAN.
Colter-Holder for Plows.

No. 219,663.

Patented Sept. 16, 1879.

Witnesses:
Geo. H. Hurling,
A. C. Hurling.

Inventor.
E. B. Whitman
By Geo. H. Hurling,
Notary Public.

N. P. BOWSHER.
Rolling-Colter for Plows.

No. 219,680.

Patented Sept. 16, 1879.

Witnesses:
G. I. Nottingham,
A. Hurling.

Inventor.
N. P. Bowsher
Attest: A. H. Hurling,
Notary Public.

E. W. MANWARING.
Colter.

2 Sheets—Sheet 1

No. 220,161.

Patented Sept. 30, 1879.

Witnesses:
A. H. Hurling,
A. Hurling.

Inventor.
E. W. Manwaring
By Geo. H. Hurling,
Notary Public.

K. W. MANWARING.
Colter.

2 Sheets—Sheet 2.

No. 220,161.

Patented Sept. 30, 1879.

H. & J. OLDENDORPH.
Colter Attachment for Plows.

No. 220,650.

Patented Oct. 14, 1879.

R. GRAVES.
Jointer for Plow.

No. 221,053.

Patented Oct. 28, 1879.

WITNESSES:
C. N. Jones
C. S. Jones

INVENTOR:
R. Graves
BY *M. H. Jones*
ATTORNEYS.

H. E. WISNER.
Combined Jointer and Cutter.

No. 222,113.

Patented Nov. 25, 1879.

WITNESSES:
Achilles Schöbel
C. S. Jones

INVENTOR:
H. E. Wisner
BY *M. H. Jones*
ATTORNEYS.

J. LANE.
Wheel-Colter.

No. 222,711

Patented Dec. 16, 1879

Fig. 2.

Witnesses
Frank M. Wilson.
C. L. Lane

Inventor,
John Lane.

J. LANE.
Rolling-Colter.

No. 223,151.

Patented Dec. 30, 1879.

Fig. 2.

Fig. 3.

WITNESSES:

Wm. H. H. H. H.
E. H. H. H.

INVENTOR:

Joseph Lane
BY [Signature]
ATTORNEYS.

E. ALLEN.
Jointer and Colter Block.

No. 223,831.

Patented Jan. 27, 1880.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES
E. J. Nottingham
H. H. H.

INVENTOR
Ethan Allen.
By [Signature] ATTORNEY.

J. G. GROSS.
Plow.

No. 225,053.

Patented Mar. 2, 1880

Witnesses:
A. B. H. H.
C. H. H.

Inventor:
John G. Gross
By [Signature] ATTORNEY.

A. L. CHUBB.
Plow.

No. 225,342.

Patented Mar. 9, 1880.

Attest:
A. B. B. B.
C. P. B. B.

Inventor:
A. L. Chubb
By A. B. B. B.
C. P. B. B.

L. CHAPMAN.
Rolling-Colter.

No. 225,743.

Patented Mar. 23, 1880.

Witnesses:
A. B. B. B.
C. P. B. B.

Inventor:
L. Chapman
By A. B. B. B.
C. P. B. B.

A. ADDAMS.
Plow.

No. 226,148

Patented April 6, 1880.

Witnesses:
A. B. B. B.
C. P. B. B.

Inventor:
A. Addams
By A. B. B. B.
C. P. B. B.

S. HUBER.
Plow-Colter.

No. 226,316.

Patented April 6, 1880.

WITNESSES:

A. B. B. B.
C. P. B. B.

Inventor:
S. Huber
By A. B. B. B.
C. P. B. B.
ATTORNEYS

E WANSBROUGH & W. W. SPEER.
Plow.

No. 226,641.

Patented April 20, 1880.

WITNESSES
Chas. Volkening
Geo. A. Gayman.

INVENTORS
E Wansbrough.
W. W. Speer.
By Duquet & Duquet, ATTORNEYS.

(No Model.)

K. W. MANWARING.
Colter.

No. 227,373.

Patented May 11, 1880.

WITNESSES.
Israel Brownson
A. C. Behl

INVENTOR
K. W. Manwaring
By Geo. H. Smith, Atty.

J. CLAYTON.
Colter.

No. 229,381.

Patented June 29, 1880.

WITNESSES:
W. W. Thompson
Simon H. Hart

INVENTOR:
Jno Clayton
By R. M. O'Leary, ATTORNEYS.

A. J. MANNY.
Rotary Colter.

No. 230,883.

Patented Aug. 10, 1880.

WITNESSES

Geo. H. Wright
Walter Allen

INVENTOR

Abraham J. Manny
By R. H. Wright, Atty.

(No Model.)

K. W. MANWARING.
Colter Attachment.

No. 231,074.

Patented Aug. 10, 1880.

Witnesses:
J. H. Rogers,
J. M. Shivers,
A. B. Schell.

Inventor:
K. W. Manwaring,
Perfection, Mich.

(No Model.)

L. MILLER & H. LIDTHALL.
Plow.

No. 231,441.

Patented Aug. 24, 1880.

Witnesses

Chas. B. R. Colgate,
J. P. Edwards.

Inventors

L. Miller,
H. Lidthall,
W. R. Lighthill.

(No Model.)

A. C. SCHRAM.
Combined Colter and Jointer.

No. 232,370.

Patented Sept. 21, 1880.

Witnesses:
A. C. Schram,
J. B. Schram,
J. B. Schram.

Inventor:
A. C. Schram,
By Geo. H. B. Sprague.

G. G. NOTT.
Colter.

No. 233,793.

Patented Oct. 26, 1880.

Witnesses:
W. H. Knight,
W. Blackstock.

Inventor:
G. G. Nott,
By L. B. Nott,
Perfection, Mich.

(No Model.)

H. A. CURRIER.
Jointer for Plow.

No. 234,251

Patented Nov. 9, 1880.

WITNESSES
W. H. Mortimer.
A. C. Richardson

INVENTOR
H. A. Currier
By J. A. Schumann
att'y.

(Model.)

C. R. HARTMAN.
Colter.

No. 238,115.

Patented Feb. 22, 1881.

WITNESSES
John A. Davis.
Philip Callahan.

INVENTOR
Charles R. Hartman
By his Attorneys
Anderson & Smith

(Model.)

G. B. ST. JOHN.
Plow.

No. 241,086.

Patented May 3, 1881.

Witnesses.
James L. Curran
George F. Fennell

INVENTOR
Garland B. St. John.
By L. Deane
his att'y.

B. C. BRADLEY.
Caster Colter and Jointer.

No. 243,102.

Patented June 21, 1881.

Witnesses
H. W. Murphy
E. T. Bond

INVENTOR
Bryan C. Bradley
By West & Arnold
att'y.

(No Model.)

C. A. HAGUE.
Jointer.

No. 243,124.

Patented June 21, 1881.

Witnesses:
Albert H. Adams
Hunt L. Brown

Inventor:
Charles A. Hague
By West & Bond
His Atty.

(No Model.)

C. A. HAGUE.
Caster Gage Wheel.

No. 243,126.

Patented June 21, 1881.

Witnesses:
Albert H. Adams
Hunt L. Brown

Inventor:
Charles A. Hague
By West & Bond
His Atty.

(No Model.)

C. S. JENKINS.
Plow.

No. 243,138.

Patented June 21, 1881.

Witnesses:
Charles S. Jenkins
By his Atty.
The Patent

(No Model.)

C. S. JENKINS.
Plow.

No. 243,138.

Patented June 21, 1881.

Witnesses:
Charles S. Jenkins
By his Atty.
The Patent

Inventor:
Charles S. Jenkins
By his Atty.
The Patent

(No Model.)

A. M. ROSS.
JOINTER PLOW.

No. 243,799.

Patented July 6, 1881.

(Model.)

E. D. & O. B. REYNOLDS.
ROLLING CUTTER FOR PLOWS.

No. 246,557.

Patented Aug. 30, 1881.

(No Model.)

M. W. FABBER.
PLOW CUTTER.

No. 250,139.

Patented Nov. 29, 1881.

(No Model.)

D. W. HUGHES.
ROLLING COLTER.

No. 250,249.

Patented Nov. 29, 1881.

(Model.)

A. J. KERSH.
PLOW COLTER.

No. 251,802.

Patented Dec. 27, 1881.

WITNESSES:
W. L. Anderson,
*Philip C. Mason.*INVENTOR:
Alvin J. Kersh,
BY *Anderson & Smith*
ATTORNEYS

(No Model.)

H. H. SATER.

DEVICE FOR ATTACHING ROLLER COLTERS TO PLOWS.

No. 252,902.

Patented Jan. 31, 1882.

WITNESSES:
A. B. Spruth,
*J. C. Lawrence*INVENTOR:
H. H. Sater
BY *Geo. W. C. Clark*
ATTORNEYS

(Model.)

A. A. KELLOGG.
STALK CUTTER.

No. 254,334.

Patented Feb. 28, 1882.

WITNESSES:
James M. Apple,
*C. S. Sargent*INVENTOR:
A. A. Kellogg,
BY *Mumford & Co.*
ATTORNEYS

(No Model.)

F. B. HUNT.
ROLLING COLTER.

No. 255,081.

Patented Mar. 14, 1882.

WITNESSES:
Ad. & Dutcher,
*P. C. Dittler*INVENTOR:
Franklin A. Hunt

(Model.)

M. A. SPINK.
FLOW COLTER.

No. 256,250.

Patented Apr. 11, 1882.

WITNESSES:

Daniel Hiss
Edwin J. Caswell

INVENTOR

M. A. Spink

BY

ATTORNEY

(No Model.)

W. B. YOUNG.
WHEEL COLTER.

No. 256,941.

Patented Apr. 25, 1882.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses

W. B. Young
H. E. Lane

Inventor:

William B. Young
by John Lane
His Atty.

(No Model.)

O. J. CORNOYER.
ROTARY COLTER.

No. 257,662.

Patented May 9, 1882.

Fig. 3.

Fig. 4.

Fig. 2.

Attest:
Charles Hiss
George Haight.

Inventor:

Oscar J. Cornoyer
By H. H. Haight
Atty.

(No Model.)

P. KETTENRING.
FLOW ATTACHMENT.

No. 259,317.

Patented June 13, 1882.

Fig. 2.

Attest:
C. H. Haight
H. H. HaightInventor:
Peter Kettenring
His Atty.

(No Model.)

H. HUNTSMAN

FLOW JOINTER.

No. 259,861.

Patented June 20, 1882.

Witnesses
Frank Johnson
Albert C. Robinson

Inventor
Horace Huntsman
per John H. Robinson
 atty.

A. J. MANNY.

ROTARY COLTER.

No. 262,446.

Patented Aug. 8, 1882.

WITNESSES

John Wright
Walter Allen

INVENTOR

Abraham J. Manny
By Wright & Bates
 atty.

(No Model.)

C. C. VINCENT.

FLOW COLTER.

No. 263,079.

Patented Aug. 22, 1882.

Witnesses
Wm. Masson
C. C. Shepherd

Inventor
Comm. C. Vincent
by Wm. Masson
 atty.

(No Model.)

T. F. CAPEHART.

COLTER.

No. 263,112.

Patented Aug. 22, 1882.

WITNESSES

E. H. Bates
Philip Masson

INVENTOR

S. S. Carpenter
by And. Masson
 atty.

(No Model.)

D. MORRIS & H. SPEIRS.

FLOW COLTER.

No. 263,941.

Patented Sept. 5, 1882.

(No Model.)

R. KLOSS.
ROLLING COLTER.

No. 264,307.

Patented Sept. 12, 1882.

(No Model.)

E. C. EATON.
COLTER FASTENER.

No. 267,846.

Patented Nov. 21, 1882.

CORN-COVERERS.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Baker, D. C.	187	112	Haynie, J. D.	184	111	Moore, J. A.	186	112
Bennett, H. L.	183	111	Herbert, W. and C. T.	188	113	Roberts, W.	183	111
Bryan, J. P.	183	111	McChesney, T. B.	187	112	Smeltzer, D. B. D.	187	112
Combs, A. J.	184	111	Marcus, T.	183	111	Swart, J.	185	111
Dietz, F.	186	112	Metz, S. P. and			Weygandt, D.	185	112
Grant, W. H.	186	112	Rohrer, M.	184	111	Whitford, L.	186	112
Hardesty, B. T.	184	111	Monroe, I. N.	185	112			

J. P. Bryan.
Corn Coverer.

No. 3,161

Patented Jan. 24, 1863.

T. Marcus,
Corn Coverer.

No. 18,766.

Patented Dec. 1, 1861.

H. L. Bennett.
Corn Coverer.

No. 29,351

Patented Jul. 31, 1860.

W. Roberts.
Corn Coverer.

No. 126.
3/130.

Patented Jan. 15, 1861.

Witnesses:
J. C. Brown
R. S. Spear.

Inventor
W. Roberts
per J. M. B.
att. atty.

Witnesses:
J. C. Brown
R. S. Spear.

Inventor
H. L. Bennett.

*Metz & Rohrer**Corn-Coverer*N^o 68,277.

Patented Sep. 26, 1866.

Fig. 3

Fig. 1

Fig. 2

Witnesses
John P. Jacob
Charles Alexander

Inventors
Sam. P. Metz,
Martin Rohrer,
per
Alexander H. Mason

A. J. COMBS.

Corn-Coverer

No. 68,329.

Patented Aug. 27, 1867.

Witnesses:

Chas. D. Smith
J. E. W. Brown

Inventor

A. J. Combs
By K. H. H. H. H.

*B. T. Hardesty.**Tobacco-Hill Preparer.*N^o 74,350

Patented Feb. 11, 1868.

Witnesses

Wm. T. Lued
George J. Jones

Inventor
Bergman T. Hardesty

*J. D. Haynie.**Corn-Coverer*N^o 78,665.

Patented Oct. 9, 1868.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

Blackburn
B. T. Haynie

Inventor

J. D. Haynie
By K. H. H. H.

J. Swart

Attorney

Corn Coverer

No. 80,688

Patented Aug. 4, 1868

Fig 2

Witnesses
M. D. O'Connell
J. H. Smith

Inventor

James Dwyer

J. SWART.

2 Sheets—Sheet 2.

Corn and Potato Coverer.

No. 80,680.

Patented Aug. 4, 1868.

Fig 3

Fig 4

Witnesses
M. D. O'Connell
J. H. Smith

Inventor.

James Swart

I N MONROE

Corn Coverer

No. 108,717

Patented Oct. 25 1870.

Fig 2

Witnesses
G. H. Bates
J. H. Smith

Inventor

Isaac A. Monroe
James Dwyer

Clay

DAVID WEYGANDT.

Improvement in Corn-Coverer.

No. 127,534.

Patented June 4, 1872.

Fig 1

Fig 2

Witnesses
G. H. Bates
J. H. Smith

INVENTOR

David Weygandt
Shepherd H. H. H.
Attorneys

J. A. MOORE.
Corn-Coverers.

No. 144,918.

Patented Nov. 25, 1873.

Witnesses:

J. M. C. C. C.
Witnesses

Inventor:

J. A. Moore
Per *M. J. C.*
Attorneys.

F. DIETZ.
Corn and Potato Coverers.

No. 151,104.

Patented May 19, 1874.

Le R. WHITFORD.
Potato-Coverers.

No. 153,793

Patented Aug. 4, 1874.

Witnesses:

L. R. Whitford
Witnesses

Inventor:

L. R. Whitford
Per *M. J. C.*
Attorneys.

W. H. GRANT.
Plows for Covering Corn.

No. 155,080.

Patented Sept. 15, 1874.

Witnesses:

W. H. Grant
Witnesses

Inventor:

W. H. Grant
Per *M. J. C.*
Attorneys.

T. B. McCHESNEY.
CORN-COVERER.

No. 171,829.

Patented Jan. 4, 1876.

D. B. D. SMELTZER.
CORN-COVERER AND MARKER.

No. 174,020.

Patented Feb. 22, 1876.

D. W. C. BAKER.
CULTIVATOR.

No. 179,089.

Patented June 27, 1876.

D. W. C. BAKER.
CULTIVATOR.

No. 179,089.

Patented June 27, 1876.

W. & C. T. HERBERT.
Corn and Potato Coverer.

No. 200,295.

Patented Feb. 12, 1878.

Attest

John D. W. Herbert
John W. Herbert

Inventors.

William Herbert
Charles W. Herbert

COTTON-CHOPPERS.

Plate Claim			Plate Claim			Plate Claim		
Adams, R. N.	209	127	Golsan, W. W.	206	125	Mosely, D.	218	131
Adams, J.	211	128	Greeson, E. M.	215	130	Mullens, W.	237	140
Allen, B. S.	244	144	Hale, N. M.	216	130	Nance, A. P.	250	148
Altick, W.	210	127	Hall, J. M.	201	123	Neal, W. S.	240	142
Andrews, W. J.	207	126	Hall, J. M.	203	124	Nearn, M. L.	224	134
Bailey, C. and Bagby, G. K.	223	133	Hall, F. A. and Milton, N. B.	243	144	Nelson, E. H.	224	133
Banks, G. W.	235	139	Harcrow, J. M.	221	132	Newcomb, T. and Byrd, G. W.	204	124
Bates, F. L.	223	133	Harris, E. H. and Cleg-horn, J.	199	123	Nichols, J. B.	240	142
Bazemore, W. T.	200	123	Harrison, C. B.	229	136	Northcutt, E. W.	254	150
Bethune, J. H.	251	148	Harrison, J. P.	234	138	Owen, L. B.	255	151
Bibb, W. C.	218	131	Hart, T. M.	248	146	Parker, W. T.	222	132
Blair, W. W.	207	126	Hartsfield, J. A.	205	125	Parsons, J. W.	248	147
Babo, I. H.	238	141	Hatcher, J. W.	221	132	Patterson, J. D.	251	148
Bowman, L. D.	241	143	Helmecke, F. A.	249	147	Patton, W. G.	243	143
Brenner, A. W. and Fraser, J.	247	146	Henderson, R. B.	209	127	Pitt, H. W.	199	123
Bridges, E. C. L.	235	139	Henderson, L.	212	129	Powell, A. G.	221	132
Brown, T. J.	236	140	Hinman, J. and French, D. S.	205	125	Prairie, J. P.	239	141
Brown, S. E.	249	147	Holt, W.	215	130	Price, W.	200	123
Burch, I. W.	213	129	Holt, R. C.	215	130	Price, W.	222	132
Burnham, T. C.	227	135	Hood, J. R.	217	131	Price, J. F.	235	139
Burnham, T. C.	230	137	Houston, J. D.	207	125	Prunelle, R. H.	220	132
Burnham, T. C.	232	137	Howard, J. R.	252	149	Puckett, K.	208	127
Busch, W.	242	143	Hughes, J. L.	251	148	Rains, W. O.	254	150
Cage, H. B.	214	129	Hutson, E.	247	146	Rawls, J. G.	243	144
Camp, S. N.	236	139	Jefferson, S. A.	216	130	Reams, C. F.	222	133
Cannaday, C.	203	124	Johnson, W. F.	104	124	Robbins, P. D.	228	135
Carson, J. B.	240	142	Johnson, W. J.	225	134	Roberts, A. F.	224	133
Chambers, G. W. and Washam, I.	210	127	Johnson, D. M.	229	136	Roberts, G. W.	256	152
Collins, I. W. and Wilkin-son, R. Y.	206	125	Johnson, J. J.	248	147	Rudasill, M. E.	247	146
Coston, J.	225	134	Joyner, L. B.	204	124	Rumfelt, H. W.	225	134
Crichton, W.	200	123	Keith, A. M.	203	124	Runstetter, A. and Windeck, A.	211	128
Curry, B. J.	246	145	Keys, M. H.	255	151	Sanders, W. M.	232	138
Curry, B. J.	253	150	Kidd, I. J.	212	128	Sauls, W. W.	239	141
Dale, T.	220	132	Kidd, I. J.	212	129	Sellers, J. C.	206	125
Darden, S. C.	213	129	Killough, W. B.	233	138	Shannon, T. E.	201	123
Davis, M. E.	214	130	Kirtley, F. L.	212	129	Shields, F. M.	210	128
Davis, C. C. and A. G.	240	142	Lamar, M. B.	219	131	Smith, J. H.	242	143
DeForce, S. A. and Mc Connell, W. V.	239	141	Leatherman, P. R.	215	130	Smith, J. F.	248	146
Dever, J. P.	256	152	Lee, C. J.	242	143	Speer, J.	205	125
Dickert, C. P. and Heller, E. McD.	252	149	Leonhard, F. A.	220	131	Spencer, A. L.	231	137
Dollahon, C. T.	227	135	Lewis, D. P.	208	126	Sprague, C. A. and Sprague, C. A. and Clardy, J. W.	237	140
Doolittle, Z. and Crowder, A. M.	211	128	Lindsey, J. E.	247	146	Stoddard, J. C.	203	124
Douglas, C. B.	219	131	Lisle, J. B.	253	150	Stodaire, J. T.	241	142
Draughon, R. I.	214	130	Love, S. M.	242	145	Sutton, E. H.	226	134
Draughon, R. I.	245	145	Lutz, J. A.	216	130	" " " (R)	227	135
Dugger, G. W.	256	152	McCaskill, J. C.	250	148	Tilton, W. C.	223	133
Dunn, J. D.	214	130	McCaughan, C. A.	208	126	True, L. W.	246	145
Earlywine, N.	221	132	McClougherty, W. H.	230	136	Turnipseed, E. B.	219	131
Eaves, J. B.	234	139	McClung, R. L.	231	137	Tyson, E. P.	245	145
Enete, E.	213	129	McCormick, J. R.	233	138	Underwood, J. B.	223	133
Eustace, M.	229	136	McCracken, W.	208	126	" " " (R)	224	133
Evans, W. D.	230	137	McKinnon, K.	228	135	Walden, J. M.	250	148
Ewing, L.	232	137	McMeekin, T. G. W. and Hunt, W. W.	231	137	Walden, J. M.	251	149
Forney, D. P.	202	123	McMillan, J. W.	238	141	Walden, J. M.	253	149
Foster, A. K. and B. H.	207	126	McMullen, L. S.	254	151	Walden, J. M.	254	150
Gaines, W. C.	219	131	Marable, T. E.	226	134	Wallace, J. R. and Mc Clain, B. A.	209	127
Gardner, J. N.	234	138	Marsh, 2nd C.	217	131	Warren, J.	241	143
Garrett, J. M.	225	134	Marsh, 2nd C.	218	131	Wash, W. H.	227	135
Gatling, J.	199	123	Massee, D. W.	252	149	Washburn, A. W.	201	123
Gatling, R. J.	205	124	Matthews, E. T.	222	132	Watrous, J. J.	226	134
Gibbon, C.	210	128	Mickle, J. G. and Dear-ring, F. F.	230	137	Weaver, J.	199	123
Gibson, R. F. and Mc Daniel, R. P.	237	140	Middlebrooks, J. L.	206	125	Welsh, D. F.	217	131
Gilbert, J. W.	244	144	Mitchell, J. D.	229	136	Wetherell, L.	202	123
Gilleland, J. H.	233	138	Monaghan, P.	204	124	Wilder, B. S.	249	147
Glover, F. E.	236	139	Moore, J.	236	139	Wimpee, G. W.	228	136
Golet, E. H. and E. B.	211	128	Moore, J. A.	245	145	Withers, A. Q.	202	123
Going, A. J.	212	129	Morrel, A. H.	200	123	Young, J. H. W.	216	130
						Young, W. T. and Moody, W. T.	238	141

J. Catling
Rotary Cultivator

Patented Nov. 19, 1866.

H. W. PITTS.
Rotary Cultivator.

Patented Mar. 31, 1880.

J. H. H. H.
Rotary Cultivator

N° 2263.

Patented Feb. 6, 1867.

Harris & Chapman
Rotary Cultivator

N° 3,457.

Patented Aug. 21, 1867.

*W. Crichton.**Rotary Cultivator.**N^o 5,341.**Patented Oct 23, 1857.* *W. Price.**Rotary Cultivator.**N^o 11,008.**Patented Jan 6, 1854.* *W. T. Badmore.**Rotary Cultivator.**N^o 11,593.**Patented Aug. 29, 1854.**Fig. 1.* *Fig. 2.* *A. H. Morrel.**Rotary Cultivator.**N^o 12,690.**Patented Feb. 10, 1855.*

Sheet 1, of 2 Sheets

Sheet 2, of 2 Sheets

A. M. Washburn

Shovel Plow

No. 4,540

Patented Mar. 25, 1856

A. M. Washburn

Shovel Plow

No. 4,540

Patented Mar. 25, 1856

J. M. Hall

Rotary Cultivator

No. 7,091

Patented Apr. 21, 1867.

Witnesses
G. H. Brown

Inventor
John M. Hall

T. E. Shannon

Steam Plow

No. 7,849

Patented Jul. 21, 1867.

*D. P. Forney.**Steam Plow**No. 18,442.**Patented Dec. 20, 1857.* *A. G. Withers.**Sheet 1. No. 28,616.**Steam Plow**No. 18,755.**Patented Dec. 1, 1857.* *A. G. Withers.**Sheet 2. No. 28,616.**Steam Plow**No. 18,755.**Patented Dec. 1, 1857.* *L. McNamee.**Rotary Cultivator**No. 18,954.**Patented Dec. 22, 1857.*

C. Connally
 Rotary Cultivator

No. 22,487.

Patented Nov. 4, 1859.

Witnesses
B. C. Howell
J. G. Higgins

Inventor
Calvin Connally

John M. Hall's
 Improvement in Cotton Cultivators

No. 22,647

Patented July 18th 1859

Witnesses
J. C. Howell
J. G. Higgins

Inventor
John M. Hall

J. C. STODDARD.
 Rotary Cultivator.

No. 24,500.

Patented June 21, 1859.

Witnesses
Wm. H. Hall
James H. Brown

Inventor
J. C. Stoddard

A. M. Keith.
 Steam Plow.

No. 25,419

Patented Sept. 13, 1859

Witnesses
Edw. Young
J. H. Campbell

Inventor
A. M. Keith

*P. Monaghan.**Cultivator**N^o 46,676**Patented Dec. 27, 1859*

Witnesses
J. C. ...
J. B. ...

Inventor,
Peter Monaghan
att'y, J. B. Longdon

NEWCOMB & BYRD.

Rotary Cultivator.

No. 26,699

Patented Jan. 3, 1860.

Witnesses
A. T. ...
J. W. ...

Inventor,
Thomas Newcomb
J. T. Byrd

*L. B. Joyner.**Rotary Cultivator**N^o 27,987.**Patented Apr. 24, 1860.*

Witnesses
Wm. H. ...
J. P. ...

Inventor
L. B. Joyner

*W. F. Johnson.**Rotary Cultivator.**N^o 28,683.**Patented Jan. 6, 1860.*

Witnesses
R. B. ...
J. B. ...

Inventor
W. F. Johnson
J. B. ...

*R. J. Catling.**Rotary Cultivator.**N^o 28,978.**Patented Jul. 3, 1860.* *Hinman & French.**Cultivator.**N^o 29,187.**Patented Jul. 10, 1860.* *J. A. Hartsfield.**Rotary Cultivator.**N^o 29,166.**Patented Jul. 17, 1860.* *J. Speer.**Steam Flaw.**N^o 29,418.**Patented Jul. 31, 1860.*

*J. S. Middleton**Rotary Cultivator**No. 9,500**Patented Aug. 7, 1900*

Witnesses
J. H. Alexander
Wm. A. Hough

Inventor
J. S. Middleton

*W. W. Gibson**Rotary Cultivator**No. 895,771**Patented Sep. 4, 1900**Fig. 1* *Fig. 2* *Fig. 3*

Witnesses
J. H. Alexander
Wm. A. Hough

Inventor
W. W. Gibson

*J. C. Sells**Rotary Cultivator**No. 30,163**Patented Dec. 25, 1900* *Fig. 2*

Witnesses
J. H. Alexander
Wm. A. Hough

Inventor
J. C. Sells
Witnesses
J. H. Alexander
Wm. A. Hough

*Collins & Wilkinson**Rotary Cultivator**No. 30,721**Patented Nov. 27, 1900*

Witnesses
J. H. Alexander
Wm. A. Hough

Inventors
Collins & Wilkinson
Witnesses
J. H. Alexander
Wm. A. Hough

J. D. Houston
Rotary Cultivator

N^o 118,
34122.

Patented Jan. 15, 1861.

Witnesses
J. W. Combs
R. S. Spencer

Inventor
J. D. Houston
per M. M. C. Attorney

W. M. Blair
Rotary Cultivator

N^o 55,607

Patented Jan. 17, 1866.

Witnesses,
John P. Jacob
Charles Alexander

Inventor,
W. M. Blair
per M. M. C. Attorney

M. J. Andrews
Wheel Cultivator

N^o 57,841

Patented Sept. 11, 1866.

Witnesses
The Trust
J. A. Jackson

Inventor,
M. J. Andrews
per M. M. C. Attorney

A. K. & R. H. FOSTER
Rotary Cultivator.

No. 60,826.

Patented Dec. 18, 1866.

WITNESSES:
J. A. Jackson
The Trust

INVENTOR:
A. K. & R. H. Foster
per M. M. C. Attorney

D. P. LEWIS
Rotary Cultivator.

No. 61,438.

Patented Jan. 22, 1867.

Witnesses:
The English
J. A. Brown.

Inventor:
David P. Lewis
Per M. M. Brown

C. A. MCCAUGHAN.
Rotary Cultivator.

No. 61,846.

Patented Feb. 5, 1867.

Witnesses:
The English
J. A. Brown.

Inventor:
C. A. McCaughan
Per M. M. Brown

W. McCracken.
Rotary Cultivator.

No. 62,660.

Patented Mar. 6, 1867.

Witnesses:
H. P. Brown
W. M. Brown

Inventor:
W. McCracken
Per M. M. Brown

K. PUCKETT.
Rotary Cultivator.

No. 63,176.

Patented Mar. 26, 1867.

Witnesses:
H. P. Brown
James Brown

Inventor:
Kearns Puckett

R. B. HENDERSON.

2 Sheets—Sheet 1.

Rotary Cultivator.

No. 63,246.

Patented Mar. 26, 1867.

Witnesses:
H. H. Clayton
R. H. ClaytonInventor:
R. B. Henderson
by atty. J. H. Clayton

R. B. HENDERSON.

2 Sheets—Sheet 2.

Rotary Cultivator.

No. 63,246.

Patented Mar. 26, 1867.

Witnesses:
H. H. Clayton
R. H. ClaytonInventor:
R. B. Henderson
by atty. J. H. Clayton

R. N. ADAMS.

Rotary Cultivator.

No. 63,461.

Patented Apr. 2, 1867.

Witnesses:
J. H. Adams
J. H. AdamsInventor:
R. N. Adams
by atty. J. H. Adams

WALLACE & McCLAIN.

Rotary Cultivator.

No. 63,767.

Patented Apr. 9, 1867.

Witnesses:
J. H. Adams
J. H. AdamsInventor:
Wallace & McClain
by atty. J. H. Adams

W. ALTICK.
Rotary Cultivator.

No. 64,057.

Patented Apr. 23, 1867.

CHAMBERS & WASHAM.
Rotary Cultivator.

No. 66,128.

Patented June 25, 1867.

F. M. SHIELDS.
Cultivator.

No. 66,895.

Patented July 16, 1867.

G. GIBBON.

Rotary-Cultivator.

No. 67,289.

Patented July 30, 1867.

J. ADAMS.

Rotary Cultivator.

No. 67,700

Patented Aug 13, 1867.

Witnesses.
Chas. A. Petat
Solon E. Kinson

Inventor.
Jesse Adams
By M. H. Allen
Atty.

E. H. & E. B. Goelet.

Cotton-Cultivator.

N^o 72,479

Patented Dec 24, 1867

Witnesses.
W. J. Campbell
Ed. Taylor

Inventors.
E. H. & E. B. Goelet
By M. H. Allen
Atty.

A. Runstetter & A. Windeck,
Cotton-Scraper and Cutter.

N^o 74,000.

Patented Feb. 4, 1868.

Witnesses.
Edmond B. Barker
Noble Barker

Inventors.
Andrew Runstetter
Albert Windeck

Doolittle & Crowder.
Cotton-Cultivator & Chopper.

N^o 74,519

Patented Feb. 18, 1868.

Witnesses.
W. J. Campbell
Ed. Taylor

Inventors.
Zeno Doolittle
A. M. Crowder
per M. H. Allen
Attorney

I. J. KIDD.
Cotton Scraper.

No. 77,292.

Patented April 28, 1868.

Witnesses
V. D. Stocking
anman

Inventor
I. J. Kidd
per
H. W. P. P. P.

I. J. Kidd.
Rotary Cultivator.

No. 77,293.

Patented Apr 28, 1868.

Witnesses
V. D. Stocking
C. H. P. P.

Inventor
I. J. Kidd
per
H. W. P. P. P.

L. Henderson.

Rotary Cultivator.

No. 78,088.

Patented May 19, 1868.

Witnesses
S. G. Clayton
H. W. P. P.

Inventor
L. Henderson
per
H. W. P. P.

A. J. Going.

Cotton Cultivator.

No. 88,627.

Patented Apr 6, 1869.

Witnesses
C. S. Clayton
H. W. P. P.

Inventor
A. J. Going
per
H. W. P. P.

F. L. Hordley
Cultivator.

No. 90,274.

Patented May 18, 1869.

Witnesses

B. C. Peck
S. C. Kuntz

Inventor

F. L. Hordley
by *Wm. H. H. H.*

S. C. Darden
Cotton Cultivator.

No. 90,734.

Patented June 1, 1869.

Fig. 4

Fig. 2

Fig. 3

Witnesses

Chas. Nida
Winchman

Inventor

S. C. Darden
per *Wm. H. H.*

E. Enete
Rotary Cultivator

No. 94,481. Patented Sept. 7, 1869.

Witnesses

Rufus R. Rhodes
H. W. Gonslow

Inventor

E. Enete

I. W. Burch

Cotton-Thinning Machine

No. 96,422.

Patented Oct. 5, 1869.

Fig. 2

Fig. 3

Witnesses

Chas. Nida
Wm. H. H.

Inventor

I. W. Burch
per *Wm. H. H.*

*H. B. Cage.**Cotton Chopper.**No. 99,661.**Patented Oct. 12, 1869.* *Fig. 2.*

Witnesses:

S. C. Kinnon.
L. A. Pettit

Inventor:

H. B. Cage
by Munroe & Co.
Attys

*R. I. Draughton.**Cultivator.**No. 96,502.**Patented Nov. 9, 1869.*

Witnesses:

Alex. F. Roberts
Sam. J. Gentry

Inventor:

R. I. Draughton
Per Munroe & Co.
Attys

M. E. Davis,
*Flow.**No. 97,277.**Patented Nov. 30, 1869.*

Witnesses:

A. Moore
James L. Robinson

Inventor:

Major E. Davis
by his atty, C. A. Robinson

J. D. DUNN.

Cotton Chopper.

No. 100,128.

Patented Feb. 22, 1870.

Witnesses:

Sam. J. Gentry
C. A. Robinson

Inventor:

John S. Dunn
Per Mason & Co.
Attys

E. M. GREESON.
Cotton Cultivator.

No. 101,962.

Patented April 12, 1870.

Witnesses,
Chas. F. Roberts
Frank G. Hensley

Inventor,
E. M. Greeson,
Per Wm. M. C.
Attorney.

W. Kell.

Cotton Cultivator.

No. 103,541.

Patented May 3, 1870.

Witnesses:
J. M. Brooks
Edgar L. L.

Inventor:
W. Kell,
Per Wm. M. C.
Attorney.

R. C. Holt.

Cultivator.

No. 104,164.

Patented Jan. 14, 1870.

Witnesses,
Rufus R. Rhode
Charles L. Lacy
E. H. Hensley

Inventor,
Rufus R. Rhode,
Per Wm. M. C.
Attorney.

F. L. Leckman.

Cultivator.

No. 109,159.

Patented Oct. 11, 1870.

Witnesses:
J. H. Hensley
Chas. F. Roberts

Inventor:
F. L. Leckman,
Per Wm. M. C.
Attorney.

S. A. Jefferson,

Cultivator.

No. 108358

Patented Oct. 18, 1870.

Fig. 2.

Witnesses

M. Vorland
G. J. Haines

Inventor

S. A. Jefferson
per: *Mumflet*

J. H. Young,

Cotton Chopper.

No. 108918.

Patented Nov. 1, 1870.

Witnesses

Edwin P.
D. H. King

Inventor

John H. Young
Chapman & Co
Attys

N. M. Hale,

Rotary Cultivator.

No. 109184

Patented Nov. 8, 1870.

Fig. 2.

Witnesses
H. J. Smith
Wm. D. D. Conrad

Nathan M. Hale
his Attorney

J. H. W. YOUNG.

Cotton Cultivator, Scraper and Chopper.

No. 110,531.

Patented Dec. 27, 1870.

Witnesses
H. J. Smith
Wm. D. D. Conrad

Inventor
John H. Young
per: *Wm. D. D. Conrad*
Attys

D. F. Nash,
Rotary Cultivator.
 No. 111,043. Patented Jan. 17, 1871.

WITNESSES.
J. H. Hester
W. B. Hester

INVENTOR.
Dwight F. Nash
per C. C. Hester
Attorney

J. T. Hart,
Water Chopper.
 No. 111,346. Patented Jan. 21, 1871.

Witnesses
H. J. Hester
J. T. Hart
 Their Attorneys

Sheet 1-2 Sheets

C. Marsh & Co.
Corn & Cotton Scraper &c.
 No. 112,161 Patented Feb. 18, 1871

Witnesses
Harold Gray
Lewis Myers

Inventor
Cyrus Marsh & Co.
Att. & Sol.
Gray

Sheet 2 2 Sheets

C. Marsh & Co.
Corn & Cotton Scraper &c.
 No. 112,161 Patented Feb. 18, 1871

Witnesses
Harold Gray
Lewis Myers

Inventor
Cyrus Marsh & Co.
Att. & Sol.
Gray

No. 112,500.

Frame Cultivator.

No. 112,500.

Patented Feb. 28, 1891.

Witnesses:
Wm. B. Andrews
E. Charles & Co.

Inventor:
William C. Bish.

D. Morely,

Cultivator.

No. 112,681.

Patented Mar. 7, 1891.

Witnesses:
Wm. B. Andrews
E. Charles & Co.

Inventor:
D. Morely
By J. H. Brown & Co.
Attys.

C. Marsh, Jr.

2, Sheet, Sheet 1.

Frame Cultivator.

No. 113,320.

Patented Apr. 4, 1891.

Witnesses:
Wm. B. Andrews
E. Charles & Co.

Inventor:
Cyrus Marsh, Jr.
By S. H. Brown

C. Marsh, Jr.

2, Sheet, Sheet 2.

Cotton Scaper.

No. 113,320.

Patented Apr. 4, 1891.

Witnesses:
Wm. B. Andrews
E. Charles & Co.

Inventor:
Cyrus Marsh, Jr.
By S. H. Brown

*C. B. Douglas.**Cotton Plant Chopper.*

No. 113,640

Patented April 11, 1871.

Witnesses:
J. S. Conway
W. R. Remington

Inventor
Charles B. Douglas

E. B. TURNIPSEED.

Improvement in Cotton-Choppers.

No. 114,889.

Patented May 16, 1871.

Witnesses:

J. J. Hayes
D. H. Ford

Inventor

E. B. Turnipseed by
H. M. Hoadley atty.

William C. Gaines

Comb. Corn & Cotton
Cultivator & Chopper

116425

Fig. 1. PATENTED JUN 27 1871

Witnesses:

L. A. Covert
A. J. Pearson

Inventor:

W. C. Gaines
per
Alexander D. Smith
att'y.

Sheet No. 1.

M. B. LAMAR.

REGULATING COTTON CULTIVATOR.

Patented Aug. 22, 1871.

No. 118,371.

Inventor:

Marshall B. Lamar

Witnesses:

J. H. McEwen
Charles W. Smith

Sheet 212

M.B. LAMAR IMPROVING REGULATING, COTTON CULTIVATOR.

Patented Aug. 22, 1871.

No. 118,371.

Witnesses:

J. M. M. C. Lamar

Inventor:

F. A. Leonhard & Lamar

F. A. Leonhard. Combined Cotton Chopper, Scraper, and Cultivator.

No. 118,951.

Patented Sep. 12, 1871.

Witnesses:

J. M. M. C. Lamar

Inventor:

F. A. Leonhard

For

Attorneys.

THOMAS DALE.
Improvement in Cotton Cultivator.
119,015. Patented Sep. 19, 1871.

Witnesses:

J. C. Smith
J. C. Smith

Inventor:

Thomas Dale
by Geo. W. Allen
W. B. AdamsRichard H. Purnelle.
Cotton-Cultivator.

No. 119,644.

Patented Oct. 3, 1871.

Witnesses:

J. C. Smith
J. C. Smith

Inventor:

Richard H. Purnelle

For

Attorneys.

J. W. Hatcher Cotton Choppers & Scraper.

No. 120,274.

Patented Oct. 24, 1871.

Witnesses:
John Becker
James W. Smith

Inventor:
J. W. Hatcher
Per *Wm. L. Smith*
Attorneys.

A. G. POWELL.

Improvement in Cotton Choppers.

No. 122,057.

Patented Dec. 19, 1871.

Witnesses:
C. Hoff
James W. Smith

Inventor:
A. G. Powell
Per *Wm. L. Smith*
Attorneys.

N. EARLYWINE.

Improvement in Wheel Cultivators.

No. 122,373.

Patented Jan. 2, 1872.

Witnesses:
John Becker
James W. Smith

Inventor:
N. Earlywine
Per *Wm. L. Smith*
Attorneys.

JAMES M. HARCROW.

Improvement in Cotton Chopper and Cultivator.

No. 125,811.

Patented April 16, 1872.

Witnesses:
H. L. Smith
James W. Smith

Inventor:
J. M. Harcrow
Per *Wm. L. Smith*
Attorneys.

E. T. MATTHEWS.
Improvement in Cotton-Chopper.
No. 132,015. Patented Oct. 8, 1872.

Witnesses:

per *John P. Baker*
W. C. Graham

Inventor:

E. T. Matthews

Per

Wm. H. H. H.
Attorneys.

W. T. PARKER.
Cultivators.

No. 135,726.

Patented Feb. 11, 1873.

Witnesses:

E. Hoff
Francis Mc Card

Inventor:

W. T. Parker

Per

Wm. H. H. H.
Attorneys.

W. PRICE.
Cotton Choppers.

No. 137,715.

Patented April 8, 1873.

Witnesses:

W. P. Singleton
M. P. H. H.

Inventor:

Wm. H. H. H.

C. F. REAMS.
Cotton Cultivators.

No. 137,959.

Patented April 15, 1873.

Witnesses:

W. J. H. H.
A. C. H. H.

Inventor:

Cornelius F. Reams

Per

James L. Morris
Atty.

C. BAILEY & G. K. BAGBY.

Cotton-Choppers.

No. 138,363

Patented April 29, 1873.

Witnesses:
P. J. O'Brien
C. J. O'Brien

Inventor:
C. Bailey
G. K. Bagby
Per M. M. M.
Attorneys

F. L. BATES.
Cotton Cultivators.

No. 138,555

Patented May 6, 1873.

Witnesses:
M. M. M.
Attorneys

Inventor:
F. L. Bates
Per M. M. M.
Attorneys

W. C. TILTON.
Cotton-Choppers.

No. 138,596.

Patented May 6, 1873.

Witnesses: W. C. Tilton

W. C. Tilton

J. B. UNDERWOOD.
Combined Cotton-Choppers and Cultivators.

No. 140,746.

Patented July 8, 1873.

Witnesses:
J. B. Underwood
J. B. Underwood

Inventor:
Joseph B. Underwood
Per J. B. Underwood
Attorneys

J. B. UNDERWOOD.
Cotton-Choppers and Cultivators.

No. 5,741.

Reissued Jan. 27, 1874.

E. H. NELSON.
Cotton Cultivators.

No. 142,501.

Patented September 2, 1873.

A. F. ROBERTS.
Combined Cotton-Choppers and Cultivators.

No. 143,997.

Patented Oct. 28, 1873.

M. L. NEARN.
Cotton-Choppers and Cultivators.

No. 144,281.

Patented Nov. 4, 1873.

J. COSTON.
Cotton-Choppers.

No. 145,849.

Patented Dec. 23, 1873.

Witnesses:
H. L. Ransom
C. L. Smith

Inventor:
John Coston.
per Alexander D. Smith
Attorneys.

J. M. GARRETT.
Cotton-Choppers.

No. 146,061.

Patented Dec. 30, 1873.

WITNESSES:
Villett Anderson.
George S. Upham.

INVENTOR:
Joseph M. Garrett.
Chipman & Hosmer, Esq.
Attorneys.

H. W. RUMFELT.
Combined Plows, Scrapers, and Choppers.

No. 146,404.

Patented Jan. 13, 1874.

WITNESSES:
E. W. Hoff
Chalquist

INVENTOR:
H. W. Rumfelt
BY M. M. Hoff
ATTORNEYS.

W. J. JOHNSON.
Cotton-Choppers.

No. 147,844.

Patented Feb. 24, 1874.

WITNESSES:
H. W. Rumfelt
Chalquist

INVENTOR:
W. J. Johnson
BY M. M. Hoff
ATTORNEYS.

2 Sheets--Sheet 1.

J. J. WATROUS.
Combined Gang-Plows, Cultivators, and Choppers.
 No. 148,157. Patented March 3, 1874.

Witnesses:

E. Wolff
C. H. Brown

Inventor:

J. J. Watrous
 Per *M. M. M.*
 Attorneys.

2 Sheets--Sheet 2.

J. J. WATROUS.
Combined Gang-Plows, Cultivators, and Choppers.
 No. 148,157. Patented March 3, 1874.

Witnesses:

E. Wolff
C. H. Brown

Inventor:

J. J. Watrous
 Per *M. M. M.*
 Attorneys.

T. E. MARABLE.
Cotton-Choppers.

No. 149,492.

Patented April 7, 1874.

Fig. 3.

Witnesses:

E. Wolff
C. H. Brown

Inventor:

T. E. Marable
 by *his attys.*
W. H. Brown

E. H. SUTTON.
Cotton-Cultivators.

No. 149,543.

Patented April 7, 1874.

Fig. 2.

Witnesses:

H. A. Daniels
A. H. Davis

Inventor:

Edward H. Sutton
 by *Chas. S. Whitman atty*

E. H. SUTTON.
Cotton-Cultivator.

No. 7,955.

Reissued Nov. 20, 1877.

Witnesses:
D. H. Smith
Thos. H. Smith

Inventor:
Edward H. Sutton
By Norton Crawford
att'y.

C. T. DOLLAHON.
Cotton-Scrapers and Thinners.

No. 149,923.

Patented April 21, 1874.

Witnesses:
Chas. H. H. H.
Chas. H. H. H.

Inventor:
C. T. Dollahon
Per Munnelle

W. H. WASH.
Cotton-Cultivators.

No. 150,448.

Patented May 5, 1874.

Witnesses:
Richard Corcoran
Samuel Corcoran

Inventor:
Wm. H. Wash
By Henry Corcoran
att'y.

T. C. BURNHAM.
Cotton-Cultivators.

No. 152,069.

Patented June 16, 1874.

Witnesses:
E. H. H.
Chas. H. H.

Inventor:
T. C. Burnham
By Munnelle
ATTORNEYS.

P. D. ROBBINS.
Cotton Cultivators.

No. 152,304.

Patented June 23, 1874.

Witnesses:
H. A. Daniels
Barrell Webster

Inventor:
Parker D. Robbins
by H. H. M. Brand, atty.

Sheets--Sheet 1.

K. McKINNON.
Cotton Choppers and Cultivators.

No. 153,837.

Patented Aug. 4, 1874.

WITNESSES
J. H. Rutherford
John B. Lang

INVENTOR
Kenneth McKinnon
by Johnston and Johnston
his Attorneys

2 Sheets--Sheet 2.

K. McKINNON.
Cotton Choppers and Cultivators.
No. 153,837. Patented Aug. 4, 1874.

FIG III

FIG IV

WITNESSES
J. H. Rutherford
John B. Lang

INVENTOR
Kenneth McKinnon
by Johnston and Johnston
his Attorneys

G. W. WIMPEE.
Cotton Harrows and Choppers.

No. 154,110.

Patented Aug. 11, 1874.

Witnesses:
Geo. R. R. R.
John & C. M. Cornell.

Inventor
G. W. Wimpée
mark.

C. B. HARRISON.
Choppers and Cultivators.

No. 155,945.

Patented Oct. 13, 1874.

D. M. JOHNSON.
Cotton-Cultivators.

No. 156,164.

Patented Oct. 20, 1874.

M. EUSTACE.
Machine for Thinning Crops

No. 159,169.

Patented Jan. 26, 1875.

J. D. MITCHELL.
Cotton-Chopper.

No. 159,436

Patented Feb. 2, 1875.

W. H. McCLAUGHERTY.
Cotton Scraper and Chopper

No. 160,111

Patented Feb. 23, 1875

T. C. BURNHAM.
Cotton-Chopper.

No. 160,811

Patented March 16, 1875

J. G. MICKLE & F. F. DEARRING.
Cotton-Chopper.

No. 160,937

Patented March 16, 1875.

W. D. EVANS.
Cotton-Chopper.

No. 166,597.

Patented Aug. 10, 1875.

T. G. W. McEEMKIN & W. W. HUNT.
Cotton-Chopper.

No. 169,185.

Patented Oct. 26, 1875.

Fig. 1

WITNESSES:

Walter C. McLean
Geo. C. Upshaw.

INVENTORS:

Thomas G. W. McEekin
William W. Hunt
Attorneys

R. L. McCLUNG.
COTTON-SCRAPER, CHOPPER, AND CULTIVATOR.

No. 169,462.

Patented Nov. 2, 1875.

Fig. 1.

Fig. 2.

WITNESSES:

A. Deming
A. J. Terry

INVENTOR:

R. L. McClung
BY McClung & Co.
ATTORNEYS.

A. L. SPENCE.

COMBINED SCRAPER, CHOPPER AND DIRTIER.

No. 172,193.

Patented Jan. 11, 1876.

2 Sheets—Sheet 1

Fig. 2

Fig. 4

Fig. 3

WITNESSES:

A. H. Hingrich
A. J. Terry

INVENTOR:

A. L. Spence
BY McClung & Co.
ATTORNEYS.

A. L. SPENCE.

COMBINED SCRAPER, CHOPPER AND DIRTIER.

No. 172,193.

Patented Jan. 11, 1876.

2 Sheets—Sheet 2.

Fig. 6

Fig. 7

WITNESSES:

A. H. Hingrich
A. J. Terry

INVENTOR:

A. L. Spence
BY McClung & Co.
ATTORNEYS.

L. EWING.
COTTON SCRAPER.

No. 174,507.

Patented March 7, 1876.

2 Sheets—Sheet 1.

WITNESSES

Robert Smith
P. J. Chase

INVENTOR

Leander Ewing
Chapman & Co.
ATTORNEYS

L. EWING.
COTTON SCRAPER.

No. 174,507.

Patented March 7, 1876.

2 Sheets—Sheet 2.

WITNESSES

Robert Smith
Walter C. Brown

INVENTOR

Leander Ewing
Chapman & Co.
ATTORNEYS

T. C. BURNHAM.
COTTON-CHOPPER

No. 180,195.

Patented July 26, 1876.

Fig. 1.

Fig. 2.

WITNESSES

E. J. Hoff
John Boothals

INVENTOR

T. C. Burnham
BY mmf
ATTORNEYS

W. M. SANDERS.
COTTON CHOPPER AND SCRAPER.

No. 181,211.

Patented Aug. 15, 1876.

Fig. 1.

Fig. 2.

WITNESSES

Henry W. Miller
Frank L. Howard

INVENTOR

W. M. Sanders
BY Alexander T. Munson
ATTORNEYS

J. R. McCORMICK.
COTTON-CHOPPER.

No. 184,486.

Patented Nov. 14, 1876.

Fig. 2.

WITNESSES:
Charles M. Little
John G. Smith

INVENTOR:
J. R. McCormick
BY *Mumford*
ATTORNEY.

2 Sheets—Sheet 1

W. B. KILLOUGH.
CULTIVATOR AND CHOPPER.

No. 184,783.

Patented Nov. 20, 1876.

Fig. 2.

WITNESSES:
A. M. Hargrave
A. C. Roberts

INVENTOR:
W. B. Killough
BY *Mumford*
ATTORNEY.

2 Sheets—Sheet 2.

W. B. KILLOUGH.
CULTIVATOR AND CHOPPER.

No. 184,783.

Patented Nov. 20, 1876.

Fig. 4.

Fig. 5.

WITNESSES:
A. M. Hargrave
A. C. Roberts

INVENTOR:
W. B. Killough
BY *Mumford*
ATTORNEY.

J. H. GILLELAND.
COTTON-CHOPPER.

No. 185,916.

Patented Jan. 2, 1877.

Fig. 2.

Fig. 4.

Fig. 5.

Fig. 3.

Fig. 6.

Fig. 7.

WITNESSES:
E. W. Haff
J. H. Scarborough

INVENTOR:
J. H. Gilleland
BY *Mumford*
ATTORNEY.

J. M. GARDNER.
CULTIVATOR AND COTTON CHOPPER.

No. 186,571.

Patented Jan. 23, 1877

WITNESSES:
Edw. Bates
George E. Lyman

INVENTOR:
Jefferson M. Gardner
Gilmore, Smith & Co.
ATTORNEYS.

J. P. HARRISSON.
COTTON-CHOPPER.

No. 182,895.

Patented March 27, 1877.

WITNESSES:
H. C. Perkins
J. H. Scarborough

INVENTOR:
J. P. Harrison
BY *mmf*
ATTORNEYS.

J. E. EAVES.
COTTON-CHOPPER.

No. 189,347.

3 Sheets—Sheet 1.

Patented April 10, 1877.

Witness:
H. E. Danner
A. Scott

Inventor:
John B. Eaves

J. E. EAVES.
COTTON-CHOPPER.

No. 189,347.

3 Sheets—Sheet 2.

Patented April 10, 1877.

Witness:
H. E. Danner
A. Scott

Inventor:
John B. Eaves

3 Sheets—Sheet 3

J. E. EAVES.
COTTON-CHOPPER.

No. 189,347.

Patented April 10, 1877.

Witnesses:

A. E. Kneass
A. Scott

Inventor:

John B. Eaves

E. C. L. BRIDGES.

COMBINED COTTON-CHOPPER AND SCRAPER.

No. 190,815.

Patented May 15, 1877.

Fig. 2

Witnesses:

W. W. Hollingsworth
G. H. Kinnon

Inventor:

E. C. L. Bridges

BY

R. H. L. Bridges
ATTORNEY.G. W. BANKS.
COTTON-CHOPPER.

No. 191,219.

Patented May 29, 1877.

Witnesses:

W. W. Kinnon
A. Scott

Inventor:

G. W. Banks
per
F. O. Schumann
attly

J. F. PRICE.

COTTON-HARROW AND CHOPPER.

No. 193,830.

Patented Aug. 7, 1877.

Witnesses:

J. F. Price
G. W. Kinnon

Inventor:

J. F. Price

S. N. CAMP.
Cotton-Chopper.

No. 198,274.

Patented Dec. 18, 1877.

Fig. 1

Fig. 2

WITNESSES:

E. Hoff.
J. H. Scarborough.

INVENTOR:

S. N. Camp.
BY *Mum & Co.*
ATTORNEYS.

J. MOORE.
Sod-Cutter and Cotton-Chopper.

No. 200,327.

Patented Feb. 12, 1878.

Fig. 1.

Fig. 3.

Fig. 2.

WITNESSES

Henry N. Miller
Handyall

INVENTOR

John Moore,
Harnden & Mason
ATTORNEYS.

F. E. GLOVER.
Cotton-Chopper.

No. 201,240.

Patented March 12, 1878.

WITNESSES

John Smith
James L. Shady

INVENTOR:

Francis E. Glover.
Gilmore & Smith & Co.
ATTORNEYS.

T. J. BROWN.
Horse Hoe and Cultivator.

No. 201,645.

Patented March 26, 1878.

Fig. 1.

Fig. 2.

WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

T. J. Brown
BY *Mum & Co.*
ATTORNEYS.

W. MULLENS.
Combined Cotton Chopper and Cultivator.
No. 206,347. Patented July 23, 1878.

WITNESSES
J. J. Mass.

INVENTOR
W. Mullens
J. W. Anderson,
ATTORNEY

R. F. GIBSON & R. P. McDANIEL.
Combined Cotton Scraper and Chopper.
No. 206,871. Patented Aug. 13, 1878.

WITNESSES
Chas. E. Leonard
H. M. Anderson

INVENTORS
Richard F. Gibson
Richard P. McDaniel
J. W. Anderson, atty.

R. F. GIBSON & R. P. McDANIEL.
Combined Cotton Scraper and Chopper.
No. 206,871. Patented Aug. 13, 1878.

WITNESSES
Chas. E. Leonard
H. M. Anderson

INVENTORS
Richard F. Gibson
Richard P. McDaniel
J. W. Anderson, atty.

C. A. SPRAGUE & J. W. CLARDY.
Cotton Chopper and Rake.
No. 210,574. Patented Dec. 3, 1878.

WITNESSES:
W. M. Anderson
H. M. Anderson

INVENTOR:
C. A. Sprague
J. W. Clardy
BY J. W. Anderson
ATTORNEYS.

J. W. McMILLAN.
Combined Chopper and Cultivator.

No. 211,760

Patented Jan. 28, 1879.

WITNESSES:

Chas. N. Nida
W. H. H. H.

INVENTOR:

J. W. McMILLAN
BY *Mum & Co.*

ATTORNEYS.

W. T. YOUNG & W. D. MOODY.
Cotton-Chopper.

No. 213,489

Patented Mar. 18, 1879.

WITNESSES:

Phil. C. C.
A. C. C.

INVENTORS:

W. T. Young
W. D. Moody
BY *J. H. H. H.*
ATTORNEYS

I. H. BOBO.
Cotton-Chopper.

No. 216,825.

Patented June 24, 1879.

WITNESSES:

W. H. H.
Geo. B. B.

INVENTOR:

Isaac H. Bobo
per *Chas. H. H.*
ATTORNEY

R. L. LEE.
Cotton-Chopper.

No. 218,387.

Patented Aug 12, 1879.

WITNESSES:

J. H. H.
W. D. H.

INVENTOR:

R. L. Lee
per *W. A. H.*
ATTORNEY

C. C. & A. G. DAVIS.
Cotton Chopper and Cultivator.

No. 223,488.

Patented Jan. 13, 1880.

WITNESSES.

John J. ...
W. H. Mortimer

INVENTORS.

C. C. Davis
A. G. Davis
BY *F. A. Lehmann Atty*

J. B. CARSON.
Cotton-Chopper.

No. 224,645.

Patented Feb. 17, 1880.

WITNESSES

A. L. ...
H. ...

INVENTOR

J. B. Carson
BY *Alexander ...*
ATTORNEYS

W. S. NEAL.
Combined Cotton Chopper and Cultivator.

No. 225,411

Patented Mar. 9, 1880.

WITNESSES.

Chas. Neal
C. ...

INVENTOR:

W. S. Neal
BY *Mum ...*
ATTORNEYS.

J. B. NICHOLS.
Cotton Chopper and Cultivator.

No. 225,856.

Patented Mar. 23, 1880.

Fig. 1.

WITNESSES

W. ...
C. ...

INVENTOR

James B. Nichols
BY *W. ...*
ATTORNEY

J. T. SUSTAIRE.
Cotton-Chopper.

No. 225,890.

Patented Mar. 23, 1880.

WITNESSES:

W. H. H. Smith
Amos & Clark

INVENTOR:

J. T. Sustaire
BY *Samuel L.*
ATTORNEYS.

2 Sheets—Sheet 1

L. D. BOWMAN
Combined Cotton-Scraper and Chopper.
No. 226,703. Patented April 20, 1880.

WITNESSES:

Francis M. Arnold
C. S. Sargent

INVENTOR:

L. D. Bowman
BY *Mum & Co.*
ATTORNEYS.

2 Sheets—sheet 2.

L. D. BOWMAN.
Combined Cotton-Scraper and Chopper.
No. 226,703. Patented April 20, 1880.

WITNESSES:

F. M. Arnold
C. S. Sargent

INVENTOR:

L. D. Bowman
BY *Mum & Co.*
ATTORNEYS.

(No Model.)

J. WARREN.
Cotton-Chopper.
No. 227,864. Patented May 18, 1880.

WITNESSES:

A. Schuchl
C. S. Sargent

INVENTOR:

J. Warren
BY *Mum & Co.*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 1

W. BUSCH.
Cotton-Chopper.

No. 227,879.

Patented May 25, 1880.

Witnesses:
J. H. Hoffman,
J. A. L. Ladd.Inventor:
Wm. Busch,
per
J. A. L. Ladd, atty.

(No Model.)

2 Sheets—Sheet 2

W. BUSCH.
Cotton-Chopper.

No. 227,879.

Patented May 25, 1880.

Witnesses:
W. H. Hoffman,
J. A. L. Ladd.Inventor:
Wm. Busch,
per
J. A. L. Ladd, atty.J. C. LEE.
Rotary Cotton-Chopper.

No. 228,653.

Patented June 8, 1880.

WITNESSES:

Chas. L. Ladd,
Wagoner & Lee.

INVENTOR:

J. C. Lee,
By L. L. Ladd & Ladd
Attorneys.J. H. SMITH.
Cultivator.

2 Sheets—Sheet 1.

No. 229,194.

Patented June 22, 1880.

Attest:
J. H. Smith,
W. H. Ladd.Inventor:
J. H. Smith,
By L. L. Ladd & Ladd
Attorneys.

J. H. SMITH.
Cultivator.

2 Sheets—Sheet 2.

No. 229,194.

Fig. 1. Patented June 22, 1880.

Attest:
G. W. Blackwell,
W. Blackwell.Inventor:
J. H. Smith,
by C. L. Hill,
Attorney.

(Model.)

W. G. PATTON.
Cotton Chopper.

No. 231,063.

Patented Aug. 10, 1880.

WITNESSES:
C. A. V. V. V.,
C. S. S. S.INVENTOR:
W. G. Patton,
BY M. M. M.,
ATTORNEYS.

(No Model.)

F. A. HALL & N. B. MILTON.
Combined Scraper, Chopper and Drier.

No. 233,241.

Patented Oct. 12, 1880.

WITNESSES:
C. A. V. V. V.,
C. S. S. S.INVENTOR:
F. A. Hall & N. B. Milton,
BY M. M. M.,
ATTORNEYS.

(No Model.)

J. G. RAWLS.
Spiral Cotton Chopper.

2 Sheets—Sheet 1.

No. 233,546.

Patented Oct. 19, 1880.

Attest:
F. H. Schott,
L. M. CornellInventor:
Joseph H. Rawls,
BY J. M. Blanchard,
Attorney.

(No Model.)

2 Sheets—Sheet 2

J. G. RAWLS.
Spiral Cotton Chopper.

No. 233,546.

Patented Oct. 19, 1880.

Fig. 4.

Fig. 5.

Fig. 6.

Attest:

J. H. Schott.
L. M. Connell

Inventor:

Joseph G. Rawls
By Jas. M. Blanchard
Attorney.

(No Model.)

J. W. GILBERT.

Cultivator and Cotton Chopper.

No. 234,023.

Patented Nov. 2, 1880.

Fig. 2.

WITNESSES:

A. Schott.
C. S. Sargent

INVENTOR:

J. W. Gilbert
BY M. M. C. Munn
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 1

B. S. ALLEN.
Cotton Chopper.

No. 234,219.

Patented Nov. 9, 1880.

Fig. 2.

Attest:

W. H. Knight
W. Blackstock

Inventor:
Bryman S. Allen
By H. H. Church
Attorney.

(No Model.)

2 Sheets—Sheet 2

B. S. ALLEN.
Cotton Chopper.

No. 234,219.

Patented Nov. 9, 1880.

Attest:

C. S. Sargent
W. Blackstock

Inventor:
Bryman S. Allen
By H. H. Church
Attorney.

(No Model.)

J. A. MOORE.

Combined Cotton Scraper, Chopper and Cultivator.

No. 237,200.

Patented Feb. 1, 1881.

WITNESSES:
Donner & Twitchell
C. Redinger

INVENTOR:
J. A. Moore
 BY *Munn & Co.*
 ATTORNEYS.

(No Model.)

R. I. DRAUGHON.
Cotton Chopper.

No. 237,502.

Patented Feb. 8, 1881.

WITNESSES:
A. Schell
C. Redinger

INVENTOR:
R. I. Draughon
 BY *Munn & Co.*
 ATTORNEYS.

(Model.)

E. P. TYSON.
Cotton Chopper.

No. 237,931.

Patented Feb. 15, 1881.

3 Sheets—Sheet 1

WITNESSES:
Edwards & Tyson
Henry H. Brown

INVENTOR:
Edward P. Tyson
 BY *Howison and Co.*

(Model.)

E. P. TYSON.
Cotton Chopper.

No. 237,931.

Patented Feb. 15, 1881.

3 Sheets—Sheet 2

WITNESSES:
Edwards & Tyson
Henry H. Brown

INVENTOR:
Edward P. Tyson
 BY *Howison and Co.*

(Model.)

3 Sheets—Sheet 2

E. P. TYSON.
Cotton Chopper.

No. 237,931.

Patented Feb. 15, 1881.

FIG. 12

FIG. 13

WITNESSES

McDermott
Henry Shreve & Co.

INVENTOR

Edward P. Tyson
by his Attorneys
Howe & Mason

(No Model.)

B. J. CURRY.
Cotton Chopper and Scraper.

No. 238,028.

Patented Feb. 22, 1881.

Fig. 1.

Fig. 2.

Attest:

H. B. Schott
W. Willoughby

Inventor:

B. J. Curry
By H. B. Schott
att'y.

(Model.)

L. W. TRUE.
Cotton Chopper.

No. 238,183.

Patented Feb. 22, 1881.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

WITNESSES

H. B. Schott
W. Willoughby

By his Attorneys

INVENTOR

L. W. True.
C. W. Anderson

(No Model.)

S. M. LOVE.

Combined Cultivator and Cotton Chopper.

No. 239,176.

Patented March 22, 1881.

WITNESSES

Louis Bess Jr.
J. D. Smith

Samuel Merick Love.

INVENTOR, BY
Louis Bess Jr.
att'y.

(No Model.)

E. HUTSON.
Cotton Chopper.

No. 239,790.

Patented April 5, 1881.

Fig. 1.

Fig. 2.

Witnesses:

Frank M. Dunham
J. J. Mc Carthy

Inventor:

Elias Hutson
By Alexander L. Mason
Attorney

(No Model.)

M. E. RUDASILL.
Cotton Chopper.

No. 240,189.

Patented April 12, 1881.

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses:

M. E. Rudasill
D. W. Russell

Inventor:

M. E. Rudasill
By Robt. B. Tancey, Att.

(Model.)

J. E. LINDSEY.
Cotton Chopper.

No. 240,598.

Patented April 26, 1881.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

Phil. Smith
J. R. Smith

Inventor:

James E. Lindsey
By C. A. Snowdon

(Model.)

A. W. BRENNER & J. PRASER.
Cultivator.

No. 241,286.

Patented May 10, 1881.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 2.

WITNESSES:

Charles M. Andle
C. S. Sweeney

INVENTOR:

A. W. Brenner
By J. S. Mason
Attorneys

(No Model.)

2 Sheets—Sheet 2

J. W. PARSONS.

COMBINED HARROW AND COTTON CHOPPER.

No. 245,210.

Patented Aug. 2, 1881.

Fig. 4.

Fig. 5.

Witnesses:

Jas. L. Talley
E. H. Bradford

Inventor:

J. W. Parsons
By H. F. Ennis
Atty.

(Model.)

P. A. HELMECKE.

COTTON CHOPPER.

No. 245,492.

Patented Aug. 9, 1881.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:

Chas. A. Adams
Wm. J. Gordon

INVENTOR:

P. A. Helmecke
BY M. H. Co.
ATTORNEYS.

(No Model.)

S. E. BROWN.

COTTON CULTIVATOR.

No. 246,060

Patented Aug. 23, 1881.

Fig. 1.

Fig. 2.

Witnesses:

J. B. Garner
H. D. O'Brien

Inventor:

S. E. Brown.
By H. F. Ennis
Atty.

(No Model.)

B. S. WILDER.

COTTON CHOPPER.

No. 246,582.

Patented Aug. 30, 1881.

Fig. 1.

Fig. 2.

Witnesses:

Jas. E. Hutchinson
Mary C. Hugard

Inventor:

B. S. Wilder, by
Geo. B. Pinnell, his Atty.

(Model.)

J. M. WALDEN.
COTTON CHOPPER.

No. 248,237.

Patented Oct. 11, 1881.

(No Model.)

A. P. NANCE.
COTTON CULTIVATOR.

No. 248,779.

Patented Oct. 25, 1881.

(No Model.)

J. C. McCASKILL.

2 Sheets—Sheet 1.

COMBINED COTTON CHOPPER AND SCRAPER.

No. 248,871.

Patented Nov. 1, 1881.

Fig. 2.

Fig. 3.

WITNESSES:
All Long
A. M. Jansen

John C. McCaskill
Paine, Shafter & Fisk
Attorneys.

(No Model.)

J. C. McCASKILL.

2 Sheets—Sheet 2.

COMBINED COTTON CHOPPER AND SCRAPER.

No. 248,871.

Patented Nov. 1, 1881.

Fig. 4.

WITNESSES:
All Long
A. M. Jansen

John C. McCaskill
Paine, Shafter & Fisk
Attorneys.

(No Model.)

J. H. BETHUNE.
COTTON CHOPPER.

No. 251,820.

Patented Jan. 3, 1882.

WITNESSES:

Francis McCulloch
& Beagumack

INVENTOR:

J. H. Bethune
BY Munn & Co.
ATTORNEYS.

(No Model.)

J. L. HUGHES.
COTTON CHOPPER.

No. 252,221.

Patented Jan. 10, 1882.

WITNESSES:

Francis McCulloch
& Beagumack

INVENTOR:

J. L. Hughes
BY Munn & Co.
ATTORNEYS.

(No Model.)

J. D. PATTERSON.
COTTON CHOPPER AND CULTIVATOR.

No. 252,510.

Patented Jan. 17, 1882.

WITNESSES:

Francis McCulloch
& Beagumack

INVENTOR:

J. D. Patterson
BY Munn & Co.
ATTORNEYS.

(No Model.)

J. M. WALDEN.
COTTON CHOPPER.

No. 255,058.

Patented Mar. 14, 1882.

WITNESSES:

Francis McCulloch
& Beagumack

INVENTOR:

J. M. Walden
BY Munn & Co.
ATTORNEYS.

(No Model.)

C. P. DICKERT & E. McD. HELLER.
IMPLEMENT FOR SIDING AND THINNING COTTON.

No. 255,258.

Patented Mar. 21, 1882.

WITNESSES:

Thos. Houghton
John Chum

INVENTOR:

C. P. Dickert
E. McD. Heller
BY *Randall*
ATTORNEYS.

(No Model.)

D. W. MASSEE.
COTTON CHOPPER.

No. 255,643

Patented Mar. 28, 1882

WITNESSES:

Edmond Spence
J. J. McCutty

INVENTOR:

D. W. Massee
By *C. M. Alexander*
ATTORNEY.

(No Model.)

J. B. HOWARD.
COTTON CULTIVATOR.

No. 257,009.

Patented Apr. 25, 1882.

2 Sheets—Sheet 1.

Fig. 1.

Fig. 2.

WITNESSES:

A. C. For Arthur
W. J. Smith

INVENTOR:

J. B. Howard
per *W. Alexander*
ATTORNEY.

(No Model.)

J. B. HOWARD.
COTTON CULTIVATOR.

No. 257,009.

Patented Apr. 25, 1882.

2 Sheets—Sheet 2

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

WITNESSES:

A. C. For Arthur
W. J. Smith

INVENTOR:

J. B. Howard
per *W. Alexander*
ATTORNEY.

(Model.)

J. M. WALDEN.
COTTON CHOPPER.

No. 258,512.

Patented May 23, 1882.

(No Model.)

J. B. LISLE.
COTTON CHOPPER.

No. 259,770.

Patented June 20, 1882.

(No Model.)

B. J. CURRY.
COTTON CHOPPER.

2 Sheets—Sheet 1.

No. 260,458.

Patented July 4, 1882.

(No Model.)

B. J. CURRY.
COTTON CHOPPER.

2 Sheets—Sheet 2.

No. 260,458.

Patented July 4, 1882.

(No Model.)

W. O. RAINS.
COTTON CHOPPER.

No. 262,474.

Patented Aug. 8, 1882.

WITNESSES:

Red. & Dutcher,
Pl. Dutcher.

INVENTOR:

Wm. O. Rains,
By C. C. Brown & Co.
ATTORNEYS.

(No Model.)

E. H. NORTHCUTT.

COMBINED COTTON CHOPPER AND CULTIVATOR.

No. 263,425.

Patented Aug. 29, 1882.

Fig. 5.

WITNESSES:

Red. & Dutcher,
Geo. W. Cluckett.

INVENTOR:

E. H. Northcutt,
By C. C. Brown & Co.
ATTORNEYS.

(Model.)

J. M. WALDEN.
COTTON CHOPPER.

No. 263,632.

Patented Aug. 29, 1882.

Fig. 1

Fig. 2

WITNESSES:

Francis M. Latta,
A. Braquich.

INVENTOR:

J. M. Walden,
By M. M. Lacy,
ATTORNEYS.

(No Model.)

L. S. McMULLEN
COTTON CHOPPER.

No. 263,660.

Patented Aug. 29, 1882.

WITNESSES:

J. C. Clark,
C. B. Ferguson.

INVENTOR:

Louis S. McMullen,
By R. D. & A. Lacey,
ATTORNEYS.

2 Sheets—Sheet 1.

(No Model.)

2 Sheets—Sheet 2.

L. S. McMULLEN.
COTTON CHOPPER.

No. 263,660.

Patented Aug. 29, 1882.

WITNESSES:

J. B. Smith
P. B. Jones

INVENTOR

L. S. McMullen
By *R. B. H. Lacey*
Attorney

(Model)

L. B. OWEN.
CULTIVATOR.

No. 265,278.

Patented Oct. 3, 1882.

WITNESSES:

Wm. L. Dutcher
J. B. Smith

INVENTOR

L. B. Owen
By *C. B. H. Lacey*
Attorneys

(No Model.)

2 Sheets—Sheet 1.

M. H. KEYS.

CULTIVATOR AND COTTON CHOPPER.

No. 265,968.

Patented Oct. 17, 1882.

WITNESSES:

Phil. Britton
A. L. Collamer

INVENTOR

Mathew H. Keys
By *Cashow & Co.*
Attorneys

(No Model.)

2 Sheets—Sheet 2.

M. H. KEYS.

CULTIVATOR AND COTTON CHOPPER.

No. 265,968.

Patented Oct. 17, 1882.

WITNESSES:

Phil. Britton
A. L. Collamer

INVENTOR

Mathew H. Keys
By *Cashow & Co.*
Attorneys

(No Model.)

2 Sheets—Sheet 2.

G. W. ROBERTS.

COTTON CHOPPER AND HARBOW.

No. 269,716.

Patented Dec. 26, 1882.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses:
Philip L. H. H. H.
J. T. Bates

Inventor,
Geo. W. Roberts
By C. C. C. C. C.
Attorneys.

COTTON-SCRAPERS.

<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>	
Barry, A. P.	276 169	Guice, T.	274 169	Perkins, E. H. and S. D.	284 172
Beard, G. W.	264 166	Haiman, E.	279 170	Pugh, J. L.	285 172
Beard, G. W.	280 171	" " (R.)	280 170	Reese, F.	271 168
Bell, N. and Winfield, H.	278 170	Hardy, D.	290 174	Reynolds, J.	271 168
B'llups, C.	269 167	Harris, T. J.	272 168	Reynolds, J.	272 168
Blanchard, W. R.	271 168	Harris, J. R.	276 169	Rice, G. W.	268 167
Bowling, B. F.	272 168	Harris, J. R.	277 169	Richards, J. M.	286 173
Brantly, J.	288 173	Harris, J. R.	277 170	Rittenhouse, D. G.	272 168
Brinly, T. E. C.	274 169	Harrison, I. F.	282 171	Robertson, T. A.	264 166
Buhoup, H. C.	283 172	Harvey, W. W.	285 172	Sandlin, W.	280 171
Buhoup, H. C.	284 172	Heiway, F. E. and Walls,		Saunders, T.	269 167
Burbridge, C. H.	267 166	J. J.	276 169	Sharkey, P.	264 166
Cameron, J. C.	275 169	Henderson, J.	264 165	Shepard, J.	268 167
Carraway, L. W.	286 173	Hill, A. R.	287 173	Shields, F. M.	280 171
Casey, C.	265 166	Jarrell, W.	278 170	Smith, J. S.	271 168
Cobb, J. M.	266 166	Johnson, R. A.	287 173	Snow, M.	266 166
Cobb, J. M.	279 170	Johnson, R. A.	288 173	Speer, J. A. Jr.	268 167
Cullen, J. M.	261 165	Johnson, R. A.	288 173	Speer, W. W.	285 172
Davis, C. C. and Mercer,		Jones, E. P. and Harrell		Spencer, R. W.	287 173
W. H.	289 174	J. L.	275 169	Springsteen, A. B.	276 169
Day, A.	273 168	King, J. R.	265 166	Street, H. G.	267 167
Earnhart, M.	265 166	Landon, T. R.	283 172	Swart, J.	268 167
Estes, C. E.	286 172	Lattimer, J.	261 165	Swofford, J. P.	278 170
Eustace, M. and Kennan,		Lee, T. J.	282 171	Teague, J. C.	266 166
J. and T.	281 171	Lindsey, H.	289 174	Terrell, H. D.	285 172
Ewings, O. G.	262 165	Lyon, J. M. P.	274 169	Thom, D. K.	263 165
Farnsworth, J. L.	289 174	Lyon, H. L.	287 173	Thurston, F. G.	279 170
Farguhar, A. B.	281 171	Lytch, J.	273 168	Toms, Z. and McMullan,	
Farr, C. K.	262 165	McMurry, C. W.	284 172	L. W.	275 169
Finney, W. C.	261 165	McRae, R.	282 171	Trantham, T. H.	275 169
Fleming, T. T.	270 167	March, S.	269 167	Vick, R. A.	263 165
Gaines, C. A.	263 166	March, S.	270 167	Warren, T. P.	270 167
Gamong, L. M.	273 168	March, 2nd. C.	277 169	Wells, E.	266 166
Gates, W. A.	262 165	March, 2nd. C.	277 170	Wiley, J.	274 169
Gay, G. B.	286 172	Meggs, H. P.	289 173	Wilson, J. M.	270 167
Gillaspie, L. C. Sr.	283 171	Milholen, W. L.	267 166	Wingate, R. H.	288 173
Goldson, H.	261 165	Milliron, G.	273 168	Winger, J. G.	263 165
Gotton, N.	269 167	Mitchell, J. H.	265 166	Yost, G. W. N.	262 165
Graves, W. W.	267 166	Newton, J. R.	283 171	Zocher, C.	278 170

*J. M. Cullen.**Plow**N^o 4,563.**Patented May 30, 1846.* *Fig. 2* *Fig. 3* *W. C. Finney.**Shovel-Plow.**No 6379.**Patented Apr. 24, 1849.* *H. Goldson.**Shovel-Plow**N^o 8,624.**Patented Nov 18, 1851.* *J. LATIMER**Shovel-Plow**No 8802**Patented Mar 16, 1852*

W. A. GATES
Shovel-Plow.

No. 9,483

Patented Dec. 21, 1852.

C. H. Ewing
Shovel-Plow.

No. 11,454.

Patented Aug. 1, 1854.

O. C. Ewings.

Plow

No. 11,601.

Patented Aug. 29, 1854.

Milwaukee
Thomas G. Jones
J. W. Robinson

Inventor
O. C. Ewings

C. W. N. York.

Shovel-Plow

No. 12,671.

Patented Aug. 20, 1855.

*D. H. Thorn.**Plan.**Nº 8,475.**Patented Oct. 20, 1857.* *R. A. Vick.**Shovel Plan.**Nº 8,476.**Patented Oct. 20, 1857.* *J. C. Winger.**Cultivator.**Nº 8,526.**Patented Oct. 27, 1857.* *C. A. Gaines.**Shovel Plan.**Nº 2,167.**Patented Oct. 5, 1858.*

J. HENDERSON

Shovel-Plow

No. 23,971

Patented Mar. 8, 1859.

Witnesses:

J. A. P. Campbell
William Fuller

Inventor:

John Henderson

T. A. Robertson.

Shovel-Plow

No. 23,396.

Patented Mar. 29, 1869.

Witnesses
Chas. G. Page
Wm. H. Harrison

Inventor:

T. A. Robertson

P. Sharkey.

Cultivator

No. 23,788.

Patented Apr. 26, 1869

Witnesses

G. S. S. W. W. W.
H. W. Sharkey

Inventor:

P. Sharkey

G. W. BEARD.

Cultivator.

No. 24,983.

Patented Aug. 9, 1869.

Witnesses
J. H. S. W. W.
G. H. Gould

Inventor:

G. W. Beard

J. H. Mitchell.

Shovel-Plow.

No. 25,434.

Patented Sep. 13, 1859.

Fig. 1

Fig. 2

Fig. 3

M. EARNHART.

Shovel-Plow.

No. 26,096

Patented Nov. 15, 1859

Fig. 1

*Witnesses,
Am. Walton
James Butler*

*Inventor,
M. Earnhart*

J. R. KING.

Shovel-Plow.

No. 26,697.

Patented Dec. 27, 1859

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

*Witnesses,
C. S. King,
John & Fisher*

*Inventor,
J. R. King*

C. CASEY.

Shovel-Plow.

No. 27,616.

Patented Mar. 27, 1860.

Fig. 1

Fig. 2

Fig. 3

*Witnesses,
T. G. Clayton
James Johnson*

*Inventor,
C. Casey
by C. G. Casey
James & Co.*

*M. Snow**Cultivator**Patented Mar. 27, 1860.*

Witnesses

T. D. Wilson
H. H. HoughtonInventor,
M. Snow

J. M. COBB.

Shovel-Plow.

No. 28,836.

Patented June 26, 1860.

Witnesses

S. Cohen
J. Hirsch

Inventor,

J. M. Cobb
per atty. H. H. Houghton*E. Wells**Shovel Plow**N^o 29,836.**Patented May 28, 1860.*

Witnesses

S. Cohen
J. HirschInventor,
E. Wells
per atty. H. H. Houghton*J. C. Teague**Shovel Plow**N^o 29,924.**Patented Sep. 4, 1860.*

Witnesses

Franklin Smith
R. S. Cogood

Inventor,

J. C. Teague
per atty. H. H. Houghton

*C. H. Burdidge.**Shovel Plan.**N^o 30,718.**Patented Nov 27, 1860.* *W. W. Graves.**Shovel Plan.**N^o 30,729.**Patented Nov 27, 1860.* *W. L. Mulhollen.**Shovel Plan.**N^o 30,746.**Patented Nov 27, 1860.* *H. C. Street.**Shovel Plan.**N^o 30,773.**Patented Nov 27, 1860.*

*J. Shepard.**Shovel Plow*N^o 4,80.
31,484.

Patented Feb 19, 1861.

*J. A. Sner Jr.**Cultivator*N^o 1,006.
32,010.

Patented Apr 9, 1861.

Witnesses,
James Johnston
George P. BlackInventor,
James A. Sner Jr.*G. W. Rice.**Shovel Plow*N^o 1,078
32,082

Patented Apr 10, 1861.

Witnesses
J. B. Spence
R. B. SpenceInventor,
Geo W Rice
per Munn & Co.*J. Smart.**Shovel Plow*N^o 1,728.

Patented Feb 23, 1861.

Witnesses,
Charles D. Smith
Charles D. SmithInventor,
James Smart

N. GOTTEN.
Shovel-Plow.

No. 60,879

Patented Jan 1 1867

Witnesses
S. A. Jackson
W. T. Jones

Inventor.
N. Gotten
Per Munn & Co
Attys

T. Saunders,
Shovel-Plow.

No. 62,228.

Patented Feb. 19 1867.

Witnesses.
Thos Fusch
J. A. Service

Inventor.
Turner Saunders
Per Munn & Co
Attorneys

S. MARCH.
Shovel-Plow.

No. 63,912.

Patented Apr. 16. 1867

Witnesses.
W. T. Jones
W. T. Jones

Inventor.
S. March

C. BILLUPS.
Shovel-Plow

No. 67,252.

Patented July 30 1867

Fig. 2

Witnesses:
Chas. A. Pettit
W. T. Jones

Inventor.
C. Billups
Per Munn & Co.
Attorneys

T. T. Fleming,

Cotton Scraper.

No. 68,296.

Patented Aug. 29, 1867.

Witnesses:

Chas. Incke
W. L. Linn

Inventor:

T. T. Fleming
Per Munn & Co.
Attorneys

S. MARCH.

Plow Frame.

No. 77,203.

Patented April 29, 1868.

Witnesses:
J. M. Pol
J. H. SmithInventor:
S. March
By Geo. E. Brown
Attorney

T. P. WARREN.

Plow.

No. 77,855.

Patented May 12, 1868.

Witnesses:
J. B. Remond
B. A. RootInventor:
T. P. Warren
By Munn & Co.
Attorneys

J. M. Wilson,

Shovel Plow.

No. 78,091.

Patented June 23, 1868.

Witnesses:
H. A. Amherst
J. M. WilsonInventor:
J. M. Wilson
By Munn & Co.
Attorneys

F REESE.
Shovel Plow.

No. 82,990.

Patented Oct. 13, 1868.

Witnesses:
M. B. Smith
Albert H. Smith

Inventor:
F. Reese

M. R. Blanchard,

Cultivator.

No. 86,205.

Patented Jan. 20, 1869.

Witnesses:
M. R. Blanchard
H. A. Mendenhall

Inventor:
M. R. Blanchard
per Morris & Attorneys

I. S. Smith.
Cotton Scraper.

No. 86,704.

Patented Feb. 9, 1869.

Witnesses:
W. A. Smith
Steph. G. Briggs

Inventor:
James Scott Smith

J. Reynolds,

Plow.

No. 94,774.

Patented Sept. 16, 1869.

Witnesses:
Wm. C. Clark
M. B. Smith

Inventor:
J. Reynolds
per Morris & Attorneys

*B. F. Baskin,**Novel Flow.*

No. 98,641.

Patented Dec. 26, 1860.

Witnesses:
H. A. Harkness
J. H. C. Smith

B. F. Baskin,
Inventor,
J. D. Brown

*J. Reynolds,**Subsidiary Flow.*

No. 100,188.

Patented Feb. 26, 1871.

Fig. 3.

Fig. 1.

Fig. 2.

Witnesses:
Thomas Davidson
Orville Brooks

Inventor:
J. Reynolds
Per Munn
Attorney

T. J. HARRIS.

Cotton Scraper.

No. 103,877.

Patented June 7, 1870.

Fig. 1.

Fig. 2.

Witnesses:
Edwin C. Thomas
Jama M. Lyne

Inventor:
Thomas Harris

*T. G. Rittenhouse,**Cotton Scraper.*

No. 103,930.

Patented June 9, 1870.

FIG 1

FIG 2

FIG 3

Witnesses:
H. D. Harris
Orville Brooks

Inventor:
T. G. Rittenhouse
Per Wright & Co
Attorneys

J. LYTCH.
Cotton Scraper.

No. 104,396.

Patented June 14, 1870.

Figure 1.

Figure 2.

Figure 3.

Witnesses:
Chas. W. Hoffman
J. G. Davis

Inventor:
James Lytch
By his Attorneys,
Woffordman & Johnson.

L. M. GANONG.
Cultivator.

No. 105,326.

Patented July 12, 1870.

Fig. 1;

Fig. 2,

Fig. 3,

WITNESSES:
J. A. Davis
J. G. White

INVENTOR:
L. M. Ganong
By
T. J. Alexander
att'y.

A. Day,

Plow.

No. 108,979.

Patented Nov. 8, 1870.

Fig. 1

Fig. 2

Witnesses:
A. J. Mabey
J. J. Mabey

Inventor:
A. Day
By
M. J. Mabey
att'y.

G. MILLIORN
Shovel Plow.

No. 109,334.

Patented Nov. 15, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
J. A. Davis
J. G. White

Inventor:
G. J. Millorn
By
T. J. Alexander
att'y.

T. C. Emery,

Cotton Sweeper.

No. 109,491.

Patented Nov. 22, 1870.

T. Guice,

Cotton Plow.

No. 109,807

Patented Jan. 6, 1870.

Witnesses:
H. P. Smith
J. A. Smith
Inventor:
Thomas Guice
Attorneys

J. WILEY.

Cotton Plow.

No. 110,411.

Patented Dec. 20, 1870.

J. M. P. Lyon,

Cotton Scraper.

No. 109,868.

Patented Jan. 17, 1871.

Fig. 2.

Witnesses
John H. H. H.
John A. H. H.

Inventor
J. M. P. Lyon

*P. H. Trantham,**Cotton Scraper.**No. 118,307.**Patented Apr. 4, 1871.*

Witnesses:
J. N. Syphend
Alonzo Hughes

Inventor:
Thos. H. Trantham

*M. C. Cameron.**File.**No. 118,625.**Patented Apr. 11, 1871.*

Witnesses:
P. C. Dutick
Wm. B. & Smith

Inventor:
M. C. Cameron
Attorneys.

E. P. JONES & J. F. HARRELL.**Improvement in Cultivators.****No. 118,946.****Patented Sep. 12, 1871.***Figure 1.* *Figure 2.*

Witnesses:
Samuel H. Sweet, Jr.
Wm. Norris

Inventors:
E. P. Jones
J. F. Harrell
By John H. H. Harris

Z. TOMS & L. W. McMULLAN.**Improvement in Cultivators.****No. 126,165.****Patented April 30, 1872.**

Witnesses:
Wm. H. Syphend
C. H. H. Harris

Inventors:
Z. Toms & L. W. McMullan
By John H. H. Harris

A. B. SPRINGSTEEN.

Improvement in Cultivators.

No. 126,991.

Patented May 21, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
J. B. Gairdner
Geo. W. Mabey

Inventor:
A. B. Springsteen
per Munn & Co.
Attorneys.

J. R. HARRIS.

Improvement in Plows.

No. 128,390.

Patented June 25, 1872.

Fig. 1.

Fig. 2.

Witnesses:

H. B. Distenfeld
Wm. B. & Sonish

Inventor:

J. R. Harris.

per

Munn & Co.
Attorneys.

F. E. HEIWAY & J. J. WALLS.

Improvement in Cotton-Cultivators.

No. 128,393.

Patented June 25, 1872.

Fig. 1.

Fig. 2.

Witnesses:
J. E. Haynes
W. A. Haynes

Inventors:
F. E. Heyway
J. J. Walls
per F. E. Heyway & Co.
Attorneys.

A. P. BARRY.

Improvement in Plows.

No. 129,265.

Patented July 16, 1872.

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses:

J. G. Gurnea
Ludwig Distenfeld

Inventor:

A. P. Barry
per Munn & Co.
Attorneys.

COTTON SCRAPERS.

29 May 1872

J. R. HARRIS.

Improvement in Plows.

No. 132,828.

Patented Nov. 5, 1872.

Witness.

Henry N. Miller
C. L. Smith,

Inventor.

James R. Harris.
For *James R. Harris*
Attorneys.

C. MARSH, 2d.

Cultivators.

No. 133,467.

Patented Nov. 26, 1872.

Fig. 3.

Fig. 4.

Witnesses

Charles Blair
Columbus White

Inventor.

Cyrus Marsh 2d.
By Cyrus Marsh, Jr.
Attorney.

C. MARSH, 2d.

Cotton-Scrapers.

No. 134,080.

Patented Dec. 17, 1872.

Witnesses
H. C. Blair
J. J. Pope

Inventor.

Cyrus Marsh 2d.
By Cyrus Marsh, Jr.
Attorney.

J. R. HARRIS.

Plows.

No. 134,275.

Patented Dec. 24, 1872.

Witnesses
H. C. Blair
J. J. Pope

Inventor.

James R. Harris.
For *James R. Harris*
Attorneys.

N. BELL & H. WINFIELD.

Cotton-Cultivators.

No. 134,632.

Patented Jan. 7, 1873.

Witnesses:
Wm. C. Oast
Wm. H. Hille

Inventor

Josh Bell and
Henry Winfield
Chipman Rosner & Co
Attys

J. P. SWOFFORD.

Scraper Attachment to Plows.

No. 135,863

Patented Feb. 11, 1873.

Witnesses:
Wm. C. Oast
Wm. H. Hille

Inventor

James P. Swofford
Per Wm. C. Oast
Attorneys

C. ZOCHER.

Cotton-Cultivators.

No. 139,750

Patented June 10, 1873.

Witnesses:

Wm. C. Oast
Wm. H. Hille

Inventor:

C. Zocher
Per Wm. C. Oast
Attorneys

2 Sheets--Sheet 1

W. JARRELL.
Cotton Scrapers.

No. 141,355.

Patented July 29, 1873.

Witnesses:

Wm. C. Oast
Wm. H. Hille

Inventor:

W. Jarrell
Per Wm. C. Oast
Attorneys

W. JARRELL.
Cotton Scrapers.

2 Sheets--Sheet 2

No. 141,355.

Patented July 29, 1873.

Witnesses:

Wm. H. Hays
John H. Hays

Inventor:

Wm. Jarrell
By Wm. H. Hays
John H. Hays

J. M. COBB.
Cotton Scraping-Plows.

No. 144,509.

Patented Nov. 11, 1873.

Witnesses:

Henry R. Miller
C. L. Carter

Inventor:

James M. Cobb
Charles H. Hays

F. G. THURSTON.
Furrow-Scrapers.

No. 146,848

Patented Jan. 27, 1874.

Witnesses:

Wm. H. Hays
Alex. F. Roberts

Inventor:

F. G. Thurston
Per Munn
Attorneys.

E. HAIMAN.
Sweeps for Cultivators and Plows.

No. 147,633.

Patented Feb. 17, 1874.

Witnesses:

Alex. F. Roberts
Plough

Inventor:

E. Haiman
Per Munn
Attorneys.

E. HAIMAN.

SWEEPS FOR CULTIVATORS AND FLOWS.

No. 6,887.

Reissued Feb. 1, 1876.

WITNESSES:

A. W. Thompson
Wm. F. Roberts

INVENTOR:

Elias Haiman
 BY *Wm. F. Roberts*
 ATTORNEYS.

F. M. SHIELDS.

Plow Supporters.

No. 151,549.

Patented June 2, 1874.

WITNESSES:

A. W. Thompson
Wm. F. Roberts

INVENTOR:

F. M. Shields
 BY *Wm. F. Roberts*
 ATTORNEYS.

W. SANDLIN.
Cotton-Scrapers.

No. 155,893.

Patented Oct. 13, 1874.

WITNESSES:

A. W. Thompson
Wm. F. Roberts

INVENTOR:

W. Sandlin
 BY *Wm. F. Roberts*
 ATTORNEYS.

G. W. BEARD.
Cotton-Scrapers.

No. 158,457.

Patented Jan. 5, 1875.

WITNESSES:

G. W. Beard
Wm. F. Roberts

INVENTOR:

G. W. Beard
 BY *Wm. F. Roberts*
 ATTORNEYS.

A. B. FARQUHAR.
Plows

No. 158,580

Patented Jan. 12, 1875.

Fig. 2

Attest:
J. M. Williams
Not. J. Williams

Inventor:
Arthur B. Farquhar
per Robt. A. Lacey

4 Sheets--Sheet 1.

M. EUSTACE, J. & T. KENNAN.

Machine for Thinning or Spacing Crops.

No. 159,658

Patented Feb. 9, 1875.

Witnessed:
H. A. Daniels
J. H. Davis

Inventors:
Moses Eustace
James Kennan
Thos. Kennan by
C. S. Whitman atty.

4 Sheets--Sheet 2.

M. EUSTACE, J. & T. KENNAN.

Machine for Thinning or Spacing Crops.

No. 159,658

Patented Feb. 9, 1875.

Witnessed:
H. A. Daniels
J. H. Davis

Inventors:
Moses Eustace
James Kennan
Thos. Kennan by
C. S. Whitman atty.

4 Sheets--Sheet 3.

M. EUSTACE, J. & T. KENNAN.

Machine for Thinning or Spacing Crops.

No. 159,658

Patented Feb. 9, 1875.

Witnessed:
H. A. Daniels
J. H. Davis

Inventors:
Moses Eustace
James Kennan
Thos. Kennan by
C. S. Whitman atty.

4 Sheets--Sheet 4

M. EUSTACE, J. & T. KENNAM.
Machine for Thinning or Spacing Crops.

No. 159,658

Patented Feb. 9, 1875.

Fig. 16.

Fig. 17.

Fig. 19.

Witnessed:
H. A. Daniel,
A. H. PattenInventors:
M. Eustace,
J. Kennam,
T. Kennam, by
C. H. Whitman, atty.

R. McRAE.

Combined Cotton Chopper and Scraper.

No. 161,256

Patented March 23, 1875.

FIG. 1

FIG. 2

FIG. 3

FIG. 4

FIG. 5

WITNESSES
John C. Adams,
J. H. K. K. K.INVENTOR
R. McRae,
By Johnson, Johnson,
his atty.

T. J. LEE.

CULTIVATOR.

No. 170,632.

Patented Nov. 30, 1875.

Fig. 1

Fig. 2

WITNESSES

Wm. James,
Wm. E. Greenman

INVENTOR

Thos. Lee

I. F. HARRISON.

CORN AND COTTON CUTTER AND SCRAPER.

No. 178,769.

Patented June 13, 1876.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

WITNESSES

Chas. A. Burt,
John C. K. K.

INVENTOR

Isaac F. Harrison,
By Wm. E. Greenman,
attorney.

L. C. GILLASPIE, Sr.
COTTON-SCRAPER.

No. 182,915.

Patented Oct. 3, 1876.

Fig. 2.

WITNESSES:

P. C. Dutton
H. C. Dutton

INVENTOR:

L. C. Gillaspie, Sr.
T. H. Alexander
ATTORNEY.

J. R. NEWTON.
FLOW.

No. 183,199.

Patented Oct. 10, 1876.

Fig. 2.

WITNESSES:

P. C. Dutton
John Goodrich

INVENTOR:

J. R. Newton
M. M. Munn
ATTORNEYS.

H. C. BURCHUP.
COTTON-SWEEP.

No. 185,073.

Patented Dec. 5, 1876.

Fig. 2.

WITNESSES:

Ed. A. Nottingham
A. M. Bright

INVENTOR:

Harry C. Burchup
Ray Seagott & Seagott
ATTORNEYS.

T. R. LANDON.
CULTIVATOR.

No. 185,551.

Patented Dec. 19, 1876.

Fig. 2.

WITNESSES:

Thos. M. Munn
John Goodrich

INVENTOR:

T. R. Landon
M. M. Munn
ATTORNEYS.

H. C. BUHOUP.
COTTON-SWEEPS.

No. 185,722.

Patented Dec. 26, 1876.

WITNESSES
Edw. Nottingham
H. B. Bugh

INVENTOR
Harry C. Buhoup
Ray, Siegel & Co. Attorneys

E. H. & S. D. PERKINS.
CULTIVATOR.

No. 186,611.

Patented Jan. 23, 1877.

WITNESSES:
James M. Carter
John Goodrich

INVENTOR
E. H. Perkins
S. D. Perkins
Mumford
Attorneys

C. W. McMURRY.
Cotton-Scraper.

2 Sheets—Sheet 1.

No. 196,244.

Patented Oct. 16, 1877.

WITNESSES
Robert Everett
Geo. C. Upham

INVENTOR
Charles W. McMurry
Chapman & Hoadley & Co.

Attorneys

C. W. McMURRY.
Cotton-Scraper.

2 Sheets—Sheet 2

No. 196,244.

Patented Oct. 16, 1877.

WITNESSES
Robert Everett
Geo. C. Upham

INVENTOR
Charles W. McMurry
Chapman & Hoadley & Co.

Attorneys

W. W. SPEER.
Cotton-Sweep.

No. 199,590.

Patented Jan. 22, 1878.

WITNESSES:
Sam'l Nottingham
Am. Brough

INVENTOR:
W. W. Speer
BY *Sam'l Nottingham*
ATTORNEY

H. D. TERRELL.
Scraper Attachment for Shovel-Plow.

No. 206,505.

Patented July 30, 1878.

WITNESSES:
Charles Schickel
L. S. Squire

INVENTOR:
H. D. Terrell
BY *Charles Schickel*
ATTORNEYS

W. W. HARVEY.
Cotton-Cultivator.

No. 208,088.

Patented Sept. 17, 1878.

WITNESSES:
James McLeod
L. Squire

INVENTOR:
W. W. Harvey
BY *James McLeod*
ATTORNEYS

J. L. PUGH.
Corn and Cotton Scraper.

No. 216,059.

Patented June 3, 1879.

Witnesses:
Allen
Anthony A. Cook
William Parker

INVENTOR:
J. L. Pugh
BY *Allen*
ATTORNEYS

C. E. ESTES.
Cotton Wing-Sweep.

No. 217,597.

Patented July 15, 1879.

WITNESSES:

Apollon Schenk.
L. Augerick

INVENTOR:

C. E. Estes
BY *Mum & Co.*
ATTORNEYS.

G. B. GAY.
Scraper and Sweep Attachment for Plows.

No. 219,456.

Patented Sept. 9, 1879.

WITNESSES:

Henry V. Miller
L. Augerick

INVENTOR:

G. B. Gay
BY *Mum & Co.*
ATTORNEYS.

L. W. CARRAWAY.
Cotton-Scraper.

No. 220,700.

Patented Oct. 21, 1879.

Attest:

L. W. Carraway
Henry V. Miller

INVENTOR:

L. W. Carraway
BY *Henry V. Miller*
ATTORNEY.

J. M. RICHARDS.
Cotton-Scraper.

No. 222,367.

Patented Dec. 9, 1879.

Fig. 3

Attest:

William Paston.
Courtesy R. Cooper

INVENTOR:

J. M. Richards
BY *Henry V. Miller*
ATTORNEY.

R. W. SPENCER.
Cotton-Cultivator.

No. 222,541.

Patented Dec. 9, 1879.

Fig. 1.

Fig. 2.

WITNESSES:

Charles M. Hall
& *Dequien*

Fig. 3.

INVENTOR:

R. W. Spencer
BY *Mum & Co.*
ATTORNEYS.

A. R. HILL.
Cotton-Scraper.

No. 222,905.

Patented Dec. 23, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

W. W. Mortimer
& *W. H. Mortimer*

Inventor:

A. R. Hill
per
F. A. Lehmann
Att'y.

H. L. LYON.
Cotton-Scraper.

No. 227,802.

Patented May 18, 1880

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

A. R. Lytle
& *Alex. Scott*

Inventor:

H. L. Lyon
By *Thos. Munger*
Att'y.

(No Model.)

B. A. JOHNSON.
Cotton Cultivator.

No. 229,318.

Patented June 29, 1880

Fig. 1.

Fig. 2.

Witnesses:

W. W. Mortimer
& *W. H. Mortimer*

Inventor:

B. A. Johnson
per
F. A. Lehmann
Att'y.

COTTON SCRAPERS.

(No Model.)

R. A. JOHNSON.
Cultivator and Scraper.

No. 232,133.

Patented Sept. 14, 1880.

Witnesses:
W. H. Holmes
Chas. H. Johnson

Inventor:
R. A. Johnson
per
S. O. Linneman
att'y

(No Model.)

R. H. WINGATE.
SCRAPER ATTACHMENT TO PLOWS.

No. 247,977.

Patented Oct. 4, 1881.

Witnesses:

W. H. Holmes
A. B. Johnson

Inventor:

R. H. Wingate
per
J. W. Linneman
att'y

(No Model.)

R. A. JOHNSON.
CULTIVATOR.

No. 248,471.

Patented Oct. 18, 1881.

Witnesses:

W. H. Holmes
A. B. Johnson

Inventor:

R. A. Johnson
per
S. O. Linneman
att'y

(no Model.)

J. BRANTLY.
COTTON SWEEP.

No. 248,569.

Patented Oct. 25, 1881.

WITNESSES:

W. H. Holmes
A. B. Johnson

INVENTOR:

John Brantly
BY
S. O. Linneman
ATTORNEYS.

(No Model.)

H. P. MEGGS.

COTTON SCRAPER.

No. 248,774.

Patented Oct. 25, 1881.

WITNESSES

E. J. Butler
Phil. S. Bellman

INVENTOR

H. P. Meggs,
by Anderson & Smith
ATTORNEYS

(Model.)

H. LINDSEY.

CORN AND COTTON CULTIVATOR.

No. 251,784.

Patented Jan. 3, 1882.

WITNESSES
Walter Kuster
L. R. Colburn

INVENTOR

(No Model.)

J. L. FARNSWORTH.

COTTON SCRAPER.

No. 254,829.

Patented Mar. 7, 1882.

WITNESSES:
A. C. McArthur
W. J. Reynolds

INVENTOR

J. L. Farnsworth
per W. H. Alexander
ATTORNEY

(Model.)

C. C. DAVIS & W. H. MERCER.

COTTON SCRAPER.

No. 257,666.

Patented May 9, 1882.

WITNESSES:
W. H. Mortimer
W. H. Lewis

INVENTORS
C. C. Davis
W. H. Mercer
per
F. C. Schumann

(No Model.)

D. HARDY.

COMBINED SCRAPER AND CULTIVATOR.

No. 262,408.

Patented Aug. 8, 1882.

DITCHING

	Plate Claim	
Aiken, H.	301	185
Anderson, J. S. and Cooley, J. B.	315	190
Austin, M. J.	325	194
Baker, I. T.	321	192
Ballard, A. S.	307	187
Ballard, J. and Magee, T. J.	310	188
Ballard, P.	313	189
Barrowman, M.	306	186
Bartholomew, C.	315	190
Bartlett, C. K.	302	185
Bartlett, C. K.	302	185
Bartlett, E. S.	306	186
Brooks, J.	307	187
Burhyte, T. J.	309	187
Burtless, M. E.	315	190
Bussey, W. C.	304	185
Caldwell, S. N.	318	191
Clark, W. R.	311	188
Clark, G.	320	192
Clark, J. A.	323	193
Claton, T.	301	185
Cleveland, H.	302	185
Cline, W. Jr.	316	190
Comings, R.	303	185
Davies, J. and Skinner, C. C.	324	193
Davies, O. T.	327	195
Delfer, F. L.	324	193
Delfer, F. L.	325	194
Downman, R. W.	311	188
Edwards, C. D.	329	196
Edwards, C. D.	329	196
Farr, C. K.	305	186
Fisher, L. W.	323	193
Fleischmann, C. L.	310	188
Forbis, E.	307	186
Foreman, E. L.	313	189
Foreman, E. L.	314	190
Foreman, E. L.	315	190
Forsyth, R. G.	318	191
Furnas, S.	327	195
Gavett, H. L. F.	304	186
Hale, O. F.	322	192
Harmon, D.	317	191

	Plate Claim	
Hurned, A. L.	325	194
Haskins, A.	331	197
Herbert, J.	302	185
Hill, H. W.	327	195
Hill, F. A. and Church, M. J.	332	197
House, J. L.	332	197
House, J. L.	333	197
Humphreys, J. W.	326	194
Humphreys, J. W.	328	195
Hutchinson, T.	308	187
Hyde, W. B.	324	193
Karsner, I.	328	196
Kelly, J. and Henniss, W. H.	322	192
Kidder, N.	308	187
Kirkpatrick, G. O. and A.	333	198
Lugenbell, P. and Armstrong, J. S.	309	188
McAlister, J. W. and Poffenberger, J. C.	322	192
McClurkin, J. C.	330	196
Martin, E. C.	307	187
Martin, J. H. and Bradshaw, C. D.	319	191
Maxwell, D. N.	326	194
Miller, J. T.	310	188
Morrill, J. W.	305	186
Nichols, W. A.	312	189
O'Connor, P. and Collins, M.	313	189
Owen, E.	303	185
Peet, W. R.	326	194
Perkins, W. M.	309	188
Peterson, A.	326	194
Pierce, W.	317	190
Pirch, A.	327	194
Potter, S. T. W.	308	187
Primmer, R. M.	321	192
Railey, J. A.	330	196
Richards, H. G.	323	193
Rickard, L.	314	189
Roberts, J. W.	320	192
Routt, A. P.	305	186
Salvesen, V.	331	197

	Plate Claim	
Sheets, I. S.	314	190
Sheets, I. S.	318	191
Sisson, J. G. and Delana, L.	316	190
Smawley, H. B.	310	188
Smith, J. N. and Buckley, W. O.	313	189
Sommers, H. B.	304	186
Stacy, W.	318	191
Stacy, W.	329	196
Stacy, W.	329	196
Stafford, D. F.	303	185
Standart, S. W.	312	189
Stephens, A. J.	319	191
Stuart, I. W. and Allen, J. G.	328	195
Thraillkill, S.	304	186
Tichenor, W. B.	324	193
Tiffany, J. C.	305	186
Tobias, B.	308	187
Travis, D. W.	323	193
Vannatta, H.	320	192
Vinnedge, J. R.	331	197
West, C. O., Smith, J. R., Carey, J., Janney, G., Hunt, R., Hockett, A., West, D. and E., and Garner, J.	306	186
West, W.	314	190
Weston, J. W. and M. H.	316	190
Whisler, D.	311	188
" " (R.)	311	188
Whitesell, D.	321	192
Wiggin, G. W.	309	187
Wiley, A.	328	195
Williams, H. D.	322	192
Wilson, J. L. and Haworth, J. R.	312	189
Winter, H. A.	320	192
Wise, W.	306	186
Wood, S. S.	319	191
Woodruff, C. F.	317	190
Worth, E. and Davis, C. A.	312	189
Zoberlein, J.	321	192

T. Clator.

Ditching Plow.

N° 500.

Patented Dec. 1, 1837.

J. S. Mott, Sheet. 1.

H. Aiken,

Ditching Plow.

No. 2440.

Patented Feb. 1, 1842.

Fig. 1

J. S. Mott, Sheet. 2.

H. Aiken,

Ditching Plow.

No. 2440.

Patented Feb. 1, 1842.

Fig. 2

Fig. 4

Fig. 3

J. S. Mott, Sheet. 3.

H. Aiken,

Ditching Plow.

No. 2440.

Patented Feb. 1, 1842.

Fig. 5.

C. K. Bartlett,

Ditching-Plow.

No. 2512.

Patented Mar. 23, 1842.

C. K. BARTLETT

Ditching-Plow.

No. 2515

Patented Mar. 26, 1842.

H. CLEVELAND.

Ditching Plow.

No. 2507

Patented Dec. 31, 1842.

J. Herbert,

Plow.

No. 538.

Patented Apr. 13, 1844.

E. OWEN.

2 Sheets—Sheet 1

Ditching Plow

No. 3,757.

Patented Sept. 24, 1844

Witnesses:
Wm. G. Wood
Thos. L. Lacy

Inventor.
Edw. Owen

E. OWEN.

2 Sheets—Sheet 2

Ditching Plow.

No. 3,757

Patented Sept. 24, 1844

Witnesses:
Wm. G. Wood
Thos. L. Lacy

Inventor.
Edw. Owen

D. S. STAFFORD.

Ditching-Plow.

No. 4,107.

Patented July 10, 1845.

R. Comings,

Excavator.

No. 4,113.

Patented July 14, 1845.

W. C. Bussey

Ditching and Grading Machine

No. 1,751

Patented Sept. 10, 1846

S. Thraillhill

Ditching Plow

No. 1,751

Patented Sept. 10, 1846

H. B. Sammers

Ditching Plow

No. 6,148

Patented Jun 5, 1847

H. L. F. Corvett

Excavator

No. 8,341

Patented Sep. 9, 1851

*J. W. Morrill.**Ditching Plow**Nº 9,709.**Patented May 10, 1853.**Fig 1* *Fig 2* *J. C. Hyatt.**Ditching Plow**Nº 10,815.**Patented Sept. 25, 1854.* *C. H. Farr.**Ditching Plow**Nº 10,886.**Fig. 1**Patented May 9, 1854.* *Fig 2.* *Fig 3* *A. P. Reut.**Ditching Plow**Nº 17,809.**Patented Jan. 14, 1867.*

W. Wise
Ditching Plow
N^o 19,597. Patented Mar. 9, 1868.

M. Barrowman
Ditching Plow
N^o 20,689. Patented Jan. 29, 1868.

Witnesses
H. B. Perkins
F. L. Baldwin

Inventor
M. Barrowman

E. S. Bartlett
Ditching Plow
N^o 26,377. Patented Sep. 13, 1869.

Witnesses
R. F. Cogswell
J. L. Brown

Fig. 4. Fig. 5. Fig. 6.
Inventor
E. S. Bartlett

*C. O. West, J. R. Smith, J. Carey, G. Janney,
R. Hunt, A. Hockett, D. & E. West, & J. Garner.*

Ditching Plow
N^o 28,320. Patented May 15, 1860.

Witnesses
G. C. Halsey
W. B. Allen

Inventors
Charles O. West
John R. Smith
John Carey
George Janney
Reuben Hunt
Amos Hockett
David West
Elihu West
Jephthah Garner

*E. Forbes.**Ditching Plow.*

No. 29,258.

Patented Jan. 24, 1860.

Witnesses
J. R. Alexander
C. M. AlexanderInventor
E. Forbes*J. Brooks's,**Ditching Plow.*

No. 29,357.

Patented July 31, 1860.

Witnesses
A. M. Hulme
W. T. LundyInventor
James Brooks*A. S. Ballard.**Ditching Plow.*

No. 29,627.

Patented Aug. 14, 1860.

Fig. 1

Fig. 2

Fig. 3

Witnesses
M. Conner
R. S. SpencerInventor
A. S. Ballard
per Murray &
Atty.*E. C. Martin.**Ditching Plow.*No. 29,627.
31,051.

Patented Feb. 26, 1860.

Witnesses
William B. Allen
R. W. SpruickInventor
E. C. Martin
by Allen &
Atty.

T. Hutchinson.

Ditching Plow.

*N^o 1,993
34,647*

Patented Aug 6, 1861.

*Witnesses
J. H. Smith
J. A. Brown*

*Inventor
T. Hutchinson*

E. Tobias.

Ditching Plow

N^o 36,403.

Patented May 27, 1862

Fig. 1

*Witnesses
J. H. Smith
J. A. Brown*

*Inventor
E. Tobias
per M. C. Smith*

N. S. S. S.

Examiner

N^o 35,756

Patented Jan 24, 1862

*Witnesses
J. H. Smith
J. A. Brown*

*Inventor
N. S. S. S.
per M. C. Smith*

S. T. W. Potter

Ditching Plow

N^o 35,690

Patented July 15, 1862

*Witnesses
J. H. Smith
J. A. Brown*

*Inventor
S. T. W. Potter
per M. C. Smith*

G. W. Morgan
Ditching Plow

N^o 43,060

Patented Jan 21, 1864

Witnesses,
Geo. H. Gregory
David Wilson

Inventor,
Geo. W. Morgan
By Wm. H. Chase,

T. I. Burtyle
Ditching Plow

N^o 51,016

Patented Nov 21, 1863.

Witnesses,
Wm. H. Chase
Chas. H. Emerson

Inventor,
Thos. I. Burtyle

Luggerbell & Armstrong
Ditching Plow

N^o 51,067

Patented Nov 21, 1863.

Witnesses,
Geo. H. Gregory
David Wilson

Inventors,
P. Luggerbell
& H. Armstrong
By Wright Bros.
Attorneys

W. M. Perkins
Ditching Plow

N^o 51,857

Patented Jan 2, 1866

Witnesses,
Chas. H. Emerson
David Wilson

Inventor,
Wm. M. Perkins
By Chas. H. Emerson
Attorneys

*Ballard & Magee.**Ditching Plow*

No. 57,915

Patented Sept. 4, 1866

Witnesses,
 L. H. Johnson
 H. H. Johnson

Inventor:
 Jacob Ballard
 Geo. Magee
 By Knight Bros
 Attys

J. T. MILLER.

Ditching Plow.

No. 62,215.

Patented Feb. 19, 1867.

Fig. 2.

Fig. 3.

Witnesses:
 Geo. Smith
 J. A. Service

Inventor:
 John T. Miller
 Per Munn & Co.
 Attys

C. L. FLEISCHMANN.

Plow.

No. 62,325.

Patented Feb. 26, 1867.

Fig. 2.

Fig. 3.

Fig. 5.

Fig. 4.

Fig. 1.

Witnesses:
 H. H. Johnson
 H. H. Johnson

Inventor:
 C. L. Fleischmann

H. B. SMAWLEY.

Ditching Plow.

No. 63,952.

Patented Apr. 16, 1867.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 2.

Witnesses:
 W. H. Smailey
 J. A. Service

Inventor:
 Henry B. Smailey

R. W. DOWNMAN.

Mole-Plow.

No. 66,139.

Patented June 26, 1867

Witnesses:

John W. Downman
John H. High

Inventor.

R. W. Downman

W. R. CLARK.

Ditching Plow.

No. 68,697.

Patented Sept. 10, 1867

Witnesses:

John F. Foster
W. T. Freeman

Inventor.

W. R. Clark
By Munn & Co
Attorneys

David Whisler's Ditching Plow.

72953

Fig. 1.

PATENTED
DEC 31 1867

Fig. 2.

Witnesses:
John A. Allen
John H. Allen

Inventor.

David Whisler
By J. H. Allen

D. Whisler.

Ditching Plow.

Nov. 9 23.

Reissued May 5, 1868.

Witnesses:
D. Whisler
John A. Allen

Inventor:
David Whisler
Per J. H. Alexander

F. Worth & C. A. Davis,

73560

Ditching Machine

Fig. 1.

PATENTED
JAN 21 1868

Fig. 2.

Witnesses
Wm. Wagner.
O. Noble DavisInventors,
C. A. Davis
F. Worth
By J. H. Mason
J. P. Phelps

D. R. Haworth & J. L. Wilson's Ditching

73858

Plow.

PATENTED
JAN 28 1868

Fig. 1.

Fig. 2.

Witnesses

J. A. Pils
J. White

Inventor

D. R. Haworth &
J. L. Wilson
J. H. Alexander
Attys

S. W. Standard's Plow.

74729

PATENTED
FEB 18 1868

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
C. A. Davis
F. WorthInventor
S. W. Standard
per
Alexander & Watson
Attys

W. A. Nichols.

Ditching-Machine.

No 76237

Patented Mar. 31 1868.

Fig. 1.

Fig. 2.

Witnesses
C. A. Davis
F. WorthInventor
W. A. Nichols
per
Alexander & Watson
Attys

E. L. FOREMAN.

Ditching Plow.

No. 77,024.

Patented April 21, 1868.

O'Conner & Collins.

Excavator.

No. 79,861.

Patented Jan. 13, 1868.

Fig. 1.

Fig. 2.

Witnesses:
Jas. C. Foster
J. H. Ryland

Inventors:
O'Conner & Collins
per
Richard Wilson
Attorney

P. Ballard.
Ditching Plow.

No. 80,113.

Patented Jul. 21, 1868.

Witnesses:
Wm. H. Allen
O. D. Stokbridge

Inventor:
P. Ballard
per
Richard Wilson
Attorney

Smith & Buckley.
Ditching Plow.

No. 80,880.

Patented Aug. 18, 1868.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Witnesses:
O. D. Stokbridge
J. H. Ryland

Inventors:
Smith & Buckley
per
Richard Wilson
Attorney

*L. Richard.**Ditching Machine.*N^o 84,136.

Patented Nov 17, 1868.

Witnesses,
Leopold Cuvill
J. H. Mann

Inventor
Leonard Richard
Attest: Mason

*E. L. Foreman.**Ditching Plow.*N^o 86,294.

Patented Jan 26, 1869.

Witnesses:
C. J. Foreman
Leopold Cuvill

Inventor:
E. L. Foreman
Attest: Mason

*I. S. Sheets.**Ditching Plow.*N^o 86,947.

Patented Feb 16, 1869.

Witnesses,
O. H. Chapman
J. H. Mann

Inventor,
I. S. Sheets
Attest: Mason

*W. West.**Ditching Plow.*N^o 87,892.

Patented Mar 16, 1869.

Witnesses,
Chas. Woods
D. Harpoch

Inventor
Washington West
Attest: C. E. McDonald

*M. E. Burdless**Ditching Mach.*N^o 90,495.

Patented May 25, 1869.

FIG. 2.

FIG. 3.

WITNESSES

R. F. Cogswell.
Geo. H. Maltby

INVENTOR

M. E. Burdless
By J. F. L. & Co.
attys.*Anderson & Cooley,**Ditching Machine.*N^o 94,539.

Patented Sept. 7, 1869.

Fig. 1

Fig. 2

Fig. 3

Witnesses

H. H. Cooley
J. B. Cooley
Per M. E. & Co.
attys.

Inventors

H. Anderson
J. B. Cooley
Per M. E. & Co.
attys.*C. Bartholomew**Ditching Machine.*N^o 94,696.

Patented Sept. 14, 1869.

Fig. 1

Fig. 2

Witnesses
John L. Brown
J. A. Thomas

Inventor

C. Bartholomew
J. A. Thomas
attys.*E. L. Foreman,**Ditcher.*N^o 97,183.

Patented Nov. 23, 1869.

Witnesses

J. A. Thomas
Leopold K. & Co.
attys.

Inventor

E. L. Foreman
J. A. Thomas
attys.

J. W. & M. H. Weston,

Ditching Machine.

No. 97,464.

Patented Nov. 30. 1869

Fig. 1

Fig. 2

Witnesses

James D. Smith
Alex. F. Roberts

Inventors

J. W. Weston
M. H. Weston
per M. H. Weston

W. Cline, Jr.,

2, Sheets, Sheet 1.

Ditching Plow.

No. 97,606.

Patented Dec. 7. 1869.

Witnesses

F. A. Johnson
C. L. Green

Inventor

W. Cline, Jr.
per Abraham Mason

W. Cline, Jr.,

2, Sheets, Sheet 2.

Ditching Plow.

No. 97,606.

Patented Dec. 7. 1869.

Fig. 2

Witnesses

James F. Jones
C. L. Green

Inventor

W. Cline, Jr.
per Abraham Mason

Amey.

Sisson & Delany,

Ditcher.

No. 100,199.

Patented Feb. 22. 1870.

Fig. 1

Fig. 2

Witnesses

J. L. Johnson
C. L. Green

Inventor

J. L. Johnson
S. Delany
per Abraham Mason

C. F. Woodruff,

Inventor.

No. 100,231.

Patented Feb. 22, 1870.

Fig. 2

Witnesses:

Victor Haggman
Chas. A. Petal

Inventor:

C. F. Woodruff
Attorneys.

W. PIERCE.

Ditching Plow.

2 Sheets—Sheet 1.

No. 100,664.

Patented March 8, 1870.

Witnesses:

Jos. B. Thompson
C. L. Hunt

Inventor:

W. Pierce
Attorneys.

W. PIERCE.

Ditching Plow.

2 Sheets—Sheet

No. 100,664.

Patented March 8, 1870.

Witnesses:

Harry King
C. L. Hunt

Inventor:

W. Pierce
Attorneys.

D. HARMON

Ditching Plow.

No. 101,729.

Patented April 12, 1870.

Witnesses:

Robt. Hunt
Chas. A. Petal

Inventor:

D. Harmon
Attorneys.

J. S. Steep,
Ditching Plow.

No 102599.

Patented May 3, 1870.

Fig. 1.

Fig. 2.

Witnesses:

Geo. T. L.
Wm. H. B.

Inventor:

J. S. Steep
Per *Wm. H. B.*
Attorney.

R. G. Foyth,
Ditching Plow.

No 102595.

Patented May 31, 1870.

Witnesses:
R. W. Kane
Wm. H. B.

Inventor:
R. G. Foyth
Wm. H. B.
Attorney.

W. Stacy,
Ditcher.

No. 105858.

Patented July 26, 1870.

Fig. 1.

Fig. 2.

Witnesses:
Wm. H. B.
Geo. T. L.

Inventor:

W. Stacy
Per *Wm. H. B.*
Attorney.

S. N. CALDWELL.
GRADING AND DITCHING PLOW.

No. 105,902.

Patented Aug. 2, 1870.

Fig. 1.

Fig. 2.

Witnesses:
Wm. H. B.
Geo. T. L.

Inventor:

S. N. Caldwell

S. N. CALDWELL. 2 Sheets—Sheet 2
 GRADING AND DITCHING PLOW.
 No. 105,902. Patented Aug. 2, 1870.

Witnesses:
Wm. H. Hare
Wm. H. Hare

Inventor:
 S. N. Caldwell.

A. J. Stephens,
 Ditching Plow.
 No. 105,995. Patented Aug. 2, 1870.

Witnesses:
Geo. A. A. A.
L. B. W. A.

Inventor:
A. J. Stephens
 per *Wm. H. Hare*
 Attorneys.

S. S. WOOD.
 Ditching Plow.
 No. 106,443. Patented Aug. 16, 1870.

Witnesses:
Wm. H. Hare
Wm. H. Hare

Inventor:
 S. S. Wood
 per *Wm. H. Hare*
 Attorneys.

MARTIN & BRADSHAW.
 Ditching Plow.
 No. 107,393. Patented Sept. 13, 1870.

Witnesses:
Harry J. J.
L. B. W. A.

Inventor:
John D. Martin
Clinton D. Bradshaw
 per *Wm. H. Hare*
 Attorneys.

H. Vannatta.

Ditching Plow.

No. 108,217.

Patented Oct. 11, 1870.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses:
E. J. Smith
W. J. Bond

Inventor:
Henry Vannatta

G. CLARK.
Ditching Plow.

No. 108,238.

Patented Oct. 11, 1870.

FIG 1

FIG 3

FIG 2

FIG 4

Witnesses:
W. B. Doring
Michael H. H. H. H.

Inventor:
George Clark
by C. H. H. H.

H. A. Winter,

Ditcher.

No. 109,091.

Patented Nov. 8, 1870.

Fig. 1.

Fig. 2.

Witnesses:
W. J. Smith
W. J. Bond

Inventor:
H. A. Winter
per W. J. Bond

J. W. Roberts,

Ditcher.

No. 109,251.

Patented Nov. 15, 1870.

Fig. 1.

Fig. 2.

Witnesses:
W. J. Smith
W. J. Bond

Inventor:
J. W. Roberts
per W. J. Bond

J. ZOEGERLEIN.

Ditching Plow.

No. 109,567.

Patented Nov. 22, 1870.

Fig 1.

Fig 2.

Witnesses:

Geo. Henmann
Julius Weber

Inventor:

J. Zoegerlein
per. Paschard & Hagmann
Attorneys.

J. T. Baker,

The Ditcher.

No. 113722.

Patented Apr. 18, 1871.

Fig. 1.

Fig. 2.

Witnesses:

A. B. B. Smith
Wm. H. & Smith

Inventor:

J. T. Baker
per. Munn & Co.
Attorneys.

Robert M. Primmer. Ditching Machine.

117813

PATENTED AUG 8 1871

Witnesses:

E. W. H.
Wm. H. & Smith

Inventor:

Robert M. Primmer
per. Munn & Co.
Attorneys.

D. Whitesell. Ditching Machine.

No. 119,209.

Fig. 1.

Patented Sep. 19, 1871.

Fig. 2.

Witnesses:

A. B. B. Smith
Wm. H. & Smith

Inventor:

D. Whitesell
per. Munn & Co.
Attorneys.

O. F. Hale, Ditching Machine.

No. 119,759.

Patented Oct. 10, 1871.

Fig. 1. *Fig. 2.*

Witnesses:

C. A. Root
Witness

Inventor:

O. F. Hale
 Per *Mumf*
 Attorneys.

H. D. Williams. Ditching Plow

No. 120,690.

Patented No. 7, 1871.

Fig. 1. *Fig. 2.* *Fig. 3.*

Witnesses:

E. Hoff
Witness

Inventor:

H. D. Williams

Per *Mumf*
 Attorneys.

JOHN KELLY & W. H. HENNIS.

Improvement in Ditcher.

No. 123,267.

Patented Jan. 30, 1872.

Fig. 1. *Fig. 2.* *Fig. 3.*

Witnesses:

Henry A. Miller
C. L. Gunt

Inventor:

John Kelly
W. H. Hennis
 Per *Alexander Dumas*
 Attys.

J. W. McALISTER & J. C. POFFENBERGER.

Improvement in Ditching Machines.

No. 124,074.

Patented Feb. 27, 1872.

Fig. 1. *Fig. 2.*

Witnesses:

A. H. H. H. H.
Witness

Inventor:

J. W. McAlister
J. C. Poffenberger
 Per *Mumf*
 Attorneys.

L. W. FISHER.
Ditching-Machines.

No. 133,974.

Patented Dec. 17, 1872.

Fig. 1.

Fig. 2.

Witnesses:

A. Cunningham
C. H. G. G. G.

Inventor:

L. W. Fisher
per J. H. Fisher
Attorney.

D. W. TRAVIS.
Ditching-Machines.

No. 146,725

Patented Jan. 20, 1874.

Fig. 1.

Fig. 2.

Witnesses:

W. H. G. G.
W. H. G. G.

Inventor:

D. W. Travis
per T. A. G. G.
Attorney.

H. G. RICHARDS.
Ditching and Tile-Laying Machines.

No. 149,337.

Patented April 7, 1874.

Fig. 4.

Fig. 3.

Fig. 2.

Fig. 1.

Witnesses:

A. M. G. G.
W. H. G. G.

Inventor:

H. G. Richards
per H. G. Richards
Attorney.

J. A. CLARK.
Ditching-Machines.

No. 150,529.

Patented May 5, 1874.

Fig. 1.

Fig. 2.

Witnesses:

A. G. G. G.
W. H. G. G.

Inventor:

J. A. Clark
per J. A. Clark
Attorney.

W. B. TICHENOR.

Ditching Plows.

No. 152,436.

Patented June 23, 1874.

Witnesses:

M. E. Clark
John M. Gown

Inventor:

Wm. B. Tichenor

F. L. DELFER.

Ditching-Machines.

No. 155,184.

Patented Sept. 22, 1874.

Witnesses:
A. B. Smith
J. B. Townsend

Inventor:

Frank Leo Delfer
By his atty Geo. Sprink

W. B. HYDE.

Ditching and Embanking Machines.

No. 155,309.

Patented Sept. 22, 1874.

Witnesses:

John L. Borne
L. H. Richardson

Inventor:

William B. Hyde
by Dewey & Allen

J. DAVIES & C. C. SKINNER.

Ditching-Plows.

No. 156,139.

Patented Oct. 20, 1874.

Witnesses:
E. Middleton Brooks
Chas. Brock

Inventors:

James Davies
Charles C. Skinner
by Colborne Brooks
their atty

A. L. HARNED.
Ditching-Plow.

No. 161,509.

Patented March 30, 1875.

Witnesses:
A. Ruppert
C. C. J. C. J.

A. L. Harned
Inventor.
S. P. H. H. H. H. H. H.

F. L. DELFER.
DITCHING-MACHINE.

No. 175,275.

Patented March 28, 1876.

Attest:
Clarence A. A.
N. C. L. L. L.

Inventor:
F. L. Delfer
By his Attorneys
R. D. O. Smith

M. J. AUSTIN.
DITCHING-MACHINE.

No. 182,986.

Patented Oct. 10, 1876.

2 Sheets—Sheet 1.

Witnesses:
R. H. H. H. H. H.

Inventor:
M. J. Austin.
By his Attorneys
H. H. H. H. H. H.

M. J. AUSTIN.
DITCHING-MACHINE.

No. 182,986.

Patented Oct. 10, 1876.

2 Sheets—Sheet 2.

Witnesses:
H. H. H. H. H. H.

Inventor:
M. J. Austin.
By his Attorneys
H. H. H. H. H. H.

A. PETERSON.
DITCHING-MACHINE.

No. 186,160.

Patented Jan. 9, 1877.

Fig. 2.

Witnesses

Chas. Maynard
J. M. Smith

Alfred Peterson

Inventor.

D. N. MAXWELL.
DITCHING FLOW.

No. 187,400.

Patented Feb. 13, 1877.

Fig. 2.

WITNESSES

Frank L. Arnold
C. L. Evert.

INVENTOR

David N. Maxwell
By Alexander H. Henson
Attorneys.

J. W. HUMPHREYS.
DITCHING-MACHINE.

No. 187,466.

Patented Feb. 20, 1877.

Fig. 2.

Fig. 3.

Witnesses:

Henry A. Daniels
R. M. Bass.

Inventor:

James W. Humphreys
by Preston Mungen.
Attorney.

W. R. PEET
DITCHER.

No. 189,647.

Patented April 17, 1877.

Fig. 2.

WITNESSES

Charles W. Dutton
J. T. Scarborough

INVENTOR

W. R. Peet
By Munnell
Attorneys.

A. PIRCH.

COMBINED DITCHING, GANG AND SHOVEL PLOW.

No. 191,880

Patented June 12, 1877.

Fig. 1.

Fig. 2.

Witnesses:
A. H. Evans.
Geo. H. Evans

Inventor:

August Pirch,
 by *James E. Colton*
 his Attorney.

S. FURNAS.
DITCHING-FLOWS.

No. 194,865.

Patented Sept. 4, 1877.

Fig. 1

Fig. 2

WITNESSES:

Wm. Hollingsworth
E. C. M. (unclear)

INVENTOR:

S. Furnas
 BY *James E. Colton*
 ATTORNEYS

O. T. DAVIES.
Ditcher and Cultivator Combined.

No. 202,416.

Patented April 16, 1878.

- FIG. I -

- FIG. II -

- FIG. III -

- FIG. IV -

- WITNESSES -

W. T. Hutchinson
W. T. Hutchinson

- INVENTOR -

O. T. Davies.
 by *Wm. H. Howard*
 Attorney

H. W. HILL.
Machine for Opening Ditches.

No. 203,042.

Patented April 30, 1878.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

Theo. Coleman
John Ruby

Inventor:

Hugh W. Hill
 per *Chas. P. Hornum*
 Attorney

A. WILEY.
Ditching-Plow.

No. 205,325.

Patented June 25, 1878.

Witnesses:

A. Rappert.

Geo. L. Mason.

Inventor:

A. Wiley
By S. H. Halloway & Co.
Attorneys.

I. W. STUART & J. G. ALLEN.
Ditching-Flow.

No. 207,993.

Patented Sept. 10, 1878

Witnesses:

Wm. A. Arthur.

John L. Davis.

Inventors:

I. W. Stuart
J. G. Allen.Per
J. H. Halloway & Co.
Attorneys.

J. W. HUMPHREYS.
Ditching-Machine.

No. 208,682.

Patented Oct. 8, 1878.

Witnesses:

W. Burris

H. A. D. M. C. L.

Inventor:

James W. Humphreys.

By Theodore Munger.

Attorney.

I. KARSNER.
Road-Ditcher.

No. 214,399.

Patented April 15, 1879.

WITNESSES:

Gehelteschicht.
H. Scarborough & Co.

INVENTOR:

I. Karsner.
BY Munger & Co.
ATTORNEYS.

C. D. EDWARDS.
Ditching-Machine.

No. 216,162.

Patented June 3, 1879.

Witnesses:

J. W. Garner
W. D. Harnett

Inventor:
Charles D. Edwards
by *F. W. Leland* atty.

W. STACY.
Ditcher.

No. 219,778.

Patented Sept. 16, 1879.

Witnesses:

P. C. Osterich
John A. Stockman

Inventor:

William Stacy
Per *C. H. Muldough & Co.* Attorneys.

C. D. EDWARDS.
Ditching-Machine.

No. 225,579.

Patented Mar. 16, 1880.

Witnesses:

John Best
John A. Stockman

Inventor:
Charles D. Edwards
by *J. L. Fisher* atty.

W. STACY.
Ditching-Machine.

No. 225,657.

Patented Mar. 16, 1880.

Witnesses:

P. C. Osterich
Frank H. Duff

Inventor:

William Stacy
Per *C. H. Muldough & Co.* Attorneys.

2 Sheets—Sheet 1

W. STACY.
Ditching-Machine,

No. 225,657.

Patented Mar. 16, 1880.

Witnesses:

W. D. Stetson
Frank H. Coffey

Inventor
William Stacy
Per *C. H. Watson & Co. Attorneys.*

J. A. BAILEY.
Ditching-Machine.

No. 227,651.

Patented May 18, 1880.

Witnesses:

Alfred W. Martin
W. H. Smith

Inventor
James A. Bailey
BY *H. H. Jenkins*
Attorney.

J. C. McCLURKIN.
Ditching Plow.

No. 231,598.

Patented Aug. 24, 1880.

Attest:
W. D. Stetson
W. H. Smith

Inventor
John C. McClurkin
W. B. Richards
Atty.

J. C. McCLURKIN.
Ditching Plow.

No. 231,598.

Patented Aug. 24, 1880.

Attest:
W. D. Stetson
W. H. Smith

Inventor
John C. McClurkin
W. B. Richards
Atty.

(No Model.)

A. HASKINS.
Ditching Plow.

No. 240,127.

Patented April 12, 1881.

WITNESSES

Geo. N. Strong
Attorney at Law

INVENTOR

A. Haskins
By
Dewey & Co.
Attys

(No Model.)

J. R. VINNEDGE.
Ditching Machine.

No. 241,520.

Patented May 17, 1881.

WITNESSES
H. C. Arthur
Geo. R. SelmanInventor
James R. Vinnedge
By
Geo. R. Selman
Attorney

(No Model.)

J. R. VINNEDGE.
Ditching Machine.

2 Sheets—Sheet 2.

No. 241,520.

Patented May 17, 1881.

WITNESSES
H. C. Arthur
Geo. R. SelmanInventor
James R. Vinnedge
By
Geo. R. Selman
Attorney

(No Model.)

V. SALVESEN.
Ditching Plow.

No. 242,159.

Patented May 31, 1881.

WITNESSES
Louis B. Selman
Geo. R. SelmanInventor
Vilhelm Salvesen
By
Louis B. Selman
Attorney

(No Model.)

3 Sheets—Sheet 1.

J. L. HOUSE.
Ditching Plow.

No. 242,450.

Patented June 7, 1881.

(No Model.)

3 Sheets—Sheet 2

J. L. HOUSE.
Ditching Plow.

No. 242,450.

Patented June 7, 1881.

(No Model.)

3 Sheets—Sheet 3.

J. L. HOUSE.
Ditching Plow.

No. 242,450.

Patented June 7, 1881.

(No Model.)

2 Sheets—Sheet 1.

P. A. HILL & M. J. CHURCH.
DITCHING AND GRADING PLOW.

No. 258,064.

Patented May 16, 1882.

FENDERS.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Ahearn, J.	349	212	Gardener, F. M.	352	213	Wright, L.	347	211
Alden, R.	343	110	Garrett, G.	346	211	Monical, J. W.	348	211
Applegate, D.	350	212	Gillespie, R. T.	356	214	Moore, W. E.	348	211
Austin, R. and Gardiner, W. H.	260	215	Gillespie, R. T.	358	215	Moore, D. O. and Reid, F.	254	213
Bailey, F. L.	357	214	Hain, M. and D.	360	215	Murphy, E. B. and Bramell, C. D.	360	215
Barber, P.	343	210	Harpster, R.	356	214	Neely, B. F.	355	214
Batchelder, W. J. M.	344	210	Haviland, G. W.	363	217	Neely, B. F.	357	214
Bates, I. S.	362	216	Higgins, J. and J. W.	352	213	Perry, G. L.	358	214
Beaumont, L. B.	363	217	Hoyt, O. W.	359	215	Pond, J. N.	344	210
Bell, J. C.	350	212	Ivey, W. D.	441	209	Pyle, I. N.	357	214
Bennett, W.	345	210	Jackson, G. H.	354	213	Reed, S. J.	347	211
Brain, G.	345	210	Jennings, A.	347	211	Reedy, J.	345	210
Brown, D. F. and E. C.	351	212	Jennings, G.	350	212	Rigell, M. and Ivey, W. D.	342	209
Browne, G.	363	216	Kelly, R. A.	349	212	Rigell, M.	454	214
Cameron, J. F.	342	209	Kendall, F. B.	361	216	Rubsam, J. B.	360	215
Cluckner, J.	355	214	Kidder, W. B.	356	214	Seeger, G. Loveless, J. W. and Throp, J. W.	349	212
Cogswell, C. A.	346	211	King, A. B.	353	213	Shular, L. H.	351	212
Cook, R.	344	210	Kinney, J.	457	214	Simmons, A. and M.	361	216
Curryer, J. C. and W. F.	248	211	Kirkham, M.	346	210	Snow, G. B.	362	216
Curryer, J. C. and W. F.	355	214	Kirkpatrick, A.	446	211	Spedden, H. B.	350	212
Custer, W.	347	211	Kring, H. O.	361	216	Taylor, J. V.	341	209
Davis, L. Jr.	361	216	Lannay, E.	355	214	Thornton, A. B.	352	213
Dearth, W. L. and Ronde- bush, G. P.	353	213	Lostutter, W. C. and Wol- cott, S.	342	209	Thornton, A. B.	456	214
Dement, J.	343	209	Loveless, J. W.	349	212	Tull, J. W.	354	213
Dirst, A. L.	358	215	Lowden, F. M. and J. D.	353	213	Vaughan, G. B.	359	215
Doddridge, L. M.	351	212	Lowe, J.	345	210	Voigt, C. I.	352	213
Dodge, T. H.	341	209	McConaughey, T. B.	343	210	Webber, A. P.	458	215
Dougherty, J. C.	344	210	McLeary, A. C.	359	215	Witt, L. C. and Jones, W. F.	353	213
Douglass, J. T.	362	216	Martin, A. T. Jr.	359	215	Woolley, J. F.	351	212
Emmert, E.	342	209	Meggs, H. P.	362	216			
Fox, J.	348	211	Miller, E. and B.	341	209			
			Miller, S. J. and					

*E. & B. Miller.**Plow Fender.**N° 25,432.**Patented Sept. 13, 1859.* *Fig. 1* *Fig. 2*

Witnesses:
John H. Miller
William H. Johnson

Inventor:
Edmund Miller
Benzamin Miller

*J. V. Taylor.**Plow Fender.**N° 26,718.**Patented Jan. 3, 1860.* *Fig. 2* *Fig. 1* *Fig. 3*

Witnesses:
John B. Watson
Bartholomew

Inventor:
J. V. Taylor

*W. D. Day.**Plow Fender.**No. 37,808.**Patented Apr. 10, 1860.*

Witnesses:
John H. Day
John H. Day

Inventor:
W. D. Day

*T. H. Dodge.**Cultivator.**N° 29,147.**Patented Jan. 17, 1860.* *Fig. 1**Fig. 2**Fig. 3**Fig. 4**Fig. 5**Fig. 6**Fig. 7**Fig. 8**Fig. 9**Fig. 10*

Witnesses:
John H. Dodge
John H. Dodge

Inventor:
T. H. Dodge

Ryall & Key

Cultivator

N^o 29,366

Patented Jul 17, 1860

Witnesses
John Quincy Adams
J. H. St. John

Inventor
Ryall & Key
By J. H. St. John
Attorney

E. Emmert

Cultivator

N^o 29,368

Patented Jul 31, 1860

Witnesses
J. H. St. John
R. S. Jones

Inventor
E. Emmert
J. H. St. John
Attorneys

Lostutter & Molecott

Plow Fender

N^o 29,391

Patented Jul 31, 1860

Witnesses
R. S. Jones
J. H. St. John

Inventors
W. L. Lostutter
J. Molecott
per J. H. St. John
Attorneys

J. F. Cameron

Plow Fender

N^o 105,
31,109

Patented Jan 15, 1861

Inventor
J. F. Cameron
per J. H. St. John
Attorneys

*J. Demerit*No. 962.
32,966. Cultivator

Patented Jul. 30, 1861.

WITNESSES:

W. M. Alexander
M. M. Dow

INVENTOR.

*John Demerit**P. Fender*

Pile Fender

No. 99,333

Patented Jul. 29, 1863

Witnesses,
H. S. Campbell
E. M. F. AdamsInventor,
P. Fender
H. M. F. Adams*R. Alden*

Tree Protector

No. 46,616

Patented Mar. 7, 1865.

Witnesses,
W. S. Spaff
W. S. Spaff

Inventor,

R. Alden
*R. Alden**T. B. McConaughey*

Cultivator

No. 77,747

Fig. 1.

Patented Sep. 4, 1866.

Witnesses

J. R. B. Huntington
W. S. Spaff

Inventor,

T. B. McConaughey
T. B. McConaughey

J. C. DAUGHERTY.

Plow Fender.

No 59,191.

Patented Oct 30, 1866.

J. M. Pond.

Plow Fender.

No 59,516.

Patented Nov 6, 1866.

W. J. M. Patchelder.

Shovel Fender.

No 63,134.

Patented Mar 26, 1867.

R. COOK.

Flow-Fender.

No. 63,140.

Patented Mar 26, 1867.

J. REEDY.

Plow-Fender,

No. 64,707.

Patented May 14, 1867.

Witnesses.

H. H. H. H. H.

Inventor.

J. Reedy
by
L. J. Hallway &
his Attys.

J. LOWE.

Plow-Fender.

No. 69,362

Patented Oct. 1, 1867.

Witnesses.
H. H. H. H. H.

Inventor.

John Lowe

G. Brain

Imp^d Screen Guard for Cultivator Plows

PATENTED

DEC. 3 1867

Fig. 1

71691

Fig. 2

Fig. 3

Witnesses.
G. Brain
H. H. H. H. H.Inventor
G. Brain
Per H. H. H. H. H.

W. Bennett.

Attachment for Plow.

N^o 73,158

Patented Jan. 7, 1868.

Fig. 2

Inventor.
W. Bennett
Per H. H. H. H. H.Witnesses.
H. H. H. H. H.

M. KIRKHAM.

Plow Fender.

No. 78,100.

Patented May 19, 1868.

Fig. 1

Fig. 2

Witnesses
George Kirkham
Bartlett & Co. of New York

Inventor
Michael Kirkham

C. A. COGSWELL.

Cultivator.

No. 78,186.

Patented May 26, 1868.

Witnesses:
Jas. E. Baeholder
C. H. Fuller

Inventor
C. A. Cogswell

G. Garrett

Fender for Cultivators

No. 78,147

Patented Jun 9, 1868

Fig. 1

Fig. 2

Fig. 3

Witnesses
W. H. Fuller
A. C. Hunt

Inventor
Geo. Garrett
New York & England

A. Kirkpatrick.

Shielding Plants from Hoos.

No. 79,133.

Patented Jun 23, 1868.

Fig. 1

Fig. 2

Fig. 3

Witnesses
W. M. Goring
D. Feniston

Inventor
Alex. Kirkpatrick

A. Jennings.
Sward Plow. Patented Aug. 18, 1868.
No. 84,173.

WITNESSES:
Wm. A. Morgan
G. B. Cotton

INVENTOR:
A. Jennings
C. L. Munnell & Co.
attorneys

W. CUSTER.
Plow Fender.

No. 83,259.

Patented Oct. 20, 1868.

Witnesses:
Glenn Smith
N. P. Lapham

Inventor:
William Custer
Chapman, Hosmer & Co.
attys

S. J. REED.
Plow Fender.

No. 83,999.

Patented Nov. 10, 1868.

Witnesses:
Asa D. Rich
M. H. Dick

Inventor:
Samuel J. Reed
per attys
Asa D. Rich

MILLER & WRIGHT.
Plow Fender.

No. 85,118.

Patented Dec. 22, 1868.

Witnesses:
Alonzo Robb
B. J. Boyce

Inventors:
Samuel Miller
Lucy Wright
per Joseph Ridge

J. W. Monical,
Plow Attachment.

No. 85,001.

Patented Jan. 5, 1869.

Witnesses:
W. Burris
David Abbott

Inventor:
James W. Monical
by *G. B. Fowler*

J. FOX,
Corn Shield.

No. 86,521.

Patented Feb. 2, 1869.

Witnesses:
A. C. Yeatman
Chas. Marr

Inventor
John Fox
per
Charles Mason

J. G. & W. F. Cuyver,
Clod Fender.

No. 89,470.

Patented Apr. 27, 1869.

Witnesses:
James F. Cuyver
Paul J. H. Cuyver

Inventors:
J. G. & W. F. Cuyver
by *Chapman H. Cuyver*

W. E. Moore,
Plow Fender.

No. 90,376.

Patented Mar. 25, 1869.

Witnesses:
R. J. Campbell
J. H. Campbell

Inventor
W. E. Moore
per
Wm. H. H. Moore

SEEGER, LOVELESS & THROP.

Plow Fender.

No. 91,777.

Patented June. 22, 1869.

Witnesses
H. J. Davis
A. Ruppert

Inventors
Seeger, Loveless & Throp
By H. J. Davis
Att'y

R. A. Kelly,

Plow Fender.

No. 92,318.

Patented July 6, 1869.

Witnesses.

Witnesses
H. J. Davis
A. Ruppert

Inventor
R. A. Kelly

per H. J. Davis
Attorneys.

L. Finean,
Plow Fender.

No. 92,772

Patented July 20, 1869.

Witnesses:
H. J. Davis
A. Ruppert

Inventor
L. Finean
By H. J. Davis
Att'y

J. M. Loveless,
Plow Fender.

No. 92,852.

Patented July 20, 1869.

Witnesses
H. J. Davis
A. Ruppert

Inventor
J. M. Loveless
By H. J. Davis
Att'y

*H. B. Stedder.**Flow Gate.**No. 93,302.**Patented Aug. 9, 1869.* *Witnesses.*

A. C. Bradley
A. T. Kingston

Hugh B. Stedder
By his Attorney
Chas. T. Pansbury

*G. E. Fender.**Flow Fender.**No. 93,997**Patented Aug. 24, 1869.* *Witnesses:*

Geo. W. K. Mable
Wm. H. Brooks

Inventor:

George Fender
Per
Attorneys.

*D. Applegate.**Clod Fender**No. 94,208.**Patented Aug. 31, 1869.* *Inventor**D. Applegate**Witnesses*

A. H. Applegate
J. A. Lehmann

Chas. T. Pansbury
Attorney

*Clod**J. C. Bell.**Flow Fender.**No. 94,383.**Patented Aug. 31, 1869.* *Witnesses*

Wm. H. K. Mable
Wm. H. Brooks

Inventor

J. C. Bell
A. E. H. Applegate, atty

J.F. WOOLLEY.

No. 94684

Rotary Clod Fender.

PATENTED
SEP 7 1869

J.F. Woolley
INVENTOR.
By Jas. H. Knight
Attorney

ATTEST
I, John W. Knight, Clerk of the Court,
do hereby certify that the foregoing is a true and correct copy of the original of the above and entitled invention as the same appears from the records of the Patent Office.

J.H. Stolar,

Witness.

No. 94,784.

Patented Sept. 14, 1869.

Fig. 1

Fig. 2

G.H. Safford
Wm. H. Lyman
Witness

J.H. Stolar
Witness

L. M. DODDRIDGE.

Clod Fender.

No. 94,875.

Patented Sept. 14, 1869.

Fig. 1

Fig. 2

Witnesses
J. H. Stolar
A. R. R. R.

Inventor
L. M. Doddridge
By J. H. Stolar
Att'y

J. V. E. Brown,

Witness.

No. 95,070.

Patented Sept. 21, 1869.

Witnesses
J. H. Stolar
A. R. R. R.

Inventor
J. V. E. Brown
By J. H. Stolar
Att'y

A. B. THORNTON.
Corn-Plow Fender.

No. 95,287.

Patented Sept. 28, 1869.

Fig. 1

Fig. 2

Witnesses

Samuel M. Wood
J. L. Jones

Inventor.

A. B. Thornton
by Russell & Co.
attys.

C. I. Vought,

Flax Fender.

No. 95,551.

Patented Oct. 5, 1869.

Fig. 1

Witnesses:

Alvin F. Roberts
Samuel Allen,

Inventor:

C. I. Vought
per Munn & Co.
Attorneys.

F. M. Gardner.

Clod Fender.

No. 95,670.

Patented Oct. 12, 1869.

Witnesses:

John S. A. ...
Wm. Rust

Inventor.

Frederick M. Gardner.

J. W. Higgins,

Clod Fender.

No. 95,634.

Patented Oct. 20, 1869.

Fig. 1.

Fig. 2

Witnesses

Ed. Anderson
D. D. Kane.

Inventors

Jas. Higgins,
John W. Higgins,
Chapman & Co.
Attorneys.

*J. W. Tull**Clot Fender.**No. 98,168.**Patented Dec. 21. 1869.*

Witnesses

John A. Collins
Myer Smith

Inventor

John W. Tull
Per.
J. H. Alexander
*Atty.**Moore & Reid.**Flow Fender.**No. 98,989**Patented Nov. 18, 1870* Witnesses
Samuel King
*E. L. Cook*Inventor
Samuel Q. Moore
Frank Reid
per Alexander Macon
*Atty.**G. H. Jackson,**Clot Fender.**No. 98,905.**Patented Feb. 15, 1870.* Witnesses
J. Clausen
*O. Rappelt*Inventor
G. H. Jackson
D. P. Hildner & Co
*Atty.**M. Rigell,**Flow Fender.**No. 100,325.**Patented Mar. 1, 1870.* Witnesses
Nich. Hagmann
*Salom. C. H.*Inventor
M. Rigell
per H. H. H.

J. Cluckner,

Cultivator.

No. 102,984.

Patented Mar. 22, 1890.

Witnesses:

Alex. F. Roberts
Jas. A. Hays

Inventor:

J. Cluckner
Per Munn & Co.

F. P. Nealey,

Flow Tender.

No. 102,959.

Patented May 10, 1890.

Witnesses:
C. H. Hays
O. Hays

F. P. Nealey

Inventor
D. P. Holloway & Co.
Attys.

E. Lannoy,

Chisel Tender.

No. 103,203.

Patented May 19, 1890.

Signed E. Lannoy
Atty for Lannoy

ATTEST:
J. Lannoy
Atty for Lannoy

J. C. & W. F. Cargner,

Flow Tender.

No. 105,047.

Patented July 5, 1890.

Witnesses:
Samuel Smith
N. H. Armstrong

Inventor
J. C. & W. F. Cargner

By Allen A. & Hancock
Attorneys

*W. F. Miller,**Fur Fender.**No. 109,004.**Patented Aug. 2, 1870.*

Witnesses
C. F. Carson
Chas. J. Cole

Inventor
W. F. Miller
Atty.

*A. Harpster,**Clad Fender.**No. 109,511.**Patented Nov. 22, 1870.*

Witnesses

Harry King
C. L. Quat.

Inventor

Reuben Harpster
Alexander D. Mason

*Atty.**R. T. Gillespie,**Clad Fender.**No. 110,631.**Patented Feb. 9, 1871.*

Witnesses

C. L. Quat.
J. P. Whitehouse

Inventor

Robert T. Gillespie
per Alexander D. Mason
Atty.

*A. B. Thurston,**Flow Fender.**No. 111,790.**Patented Feb. 14, 1871.*

Witnesses

George A. Brown
J. S. Mason

Inventor

A. B. Thurston
per M. M. Mason
Atty.

*J. Kinney,**Plow Tender.**No. 112,152.**Patented Feb. 28, 1871.*

ATTEST
Martha Stewart
Frederick C. Smith

INVENTOR
J. Kinney
Charles C. Smith

*F. L. Bailey,**Chd. Tender**No. 112,105.**Patented Mar. 7, 1871.* *Fig. 1.* *Fig. 2.* *Fig. 2.*

Witnesses
Geo. F. Clark
Q. J. Marsh

Fortune L. Bailey Inventor

*I. N. Pyle.**Improvement in Cultivators.**No. 114,040.**Patented April 25, 1871.*

Witnesses:

C. H. Smith
L. H. Baber

Inventor:

I. N. Pyle
 Per *Munn & Co.*
 Attorneys.

B. F. Neely's Tender for Plows.

117317

PATENTED JUL 25 1871

Fig. 2.

Witnesses:

Geo. F. Clark
Wm. B. C. Smith

Inventor:

B. F. Neely
 Per *Munn & Co.*
 Attorneys.

GEORGE L. PERRY.
Improvement in Clod Fenders.
No. 118,267. Patented Aug. 22, 1871.

Witnesses:
John A. Smith
Thomas W. Smith

Inventor:
George L. Perry
per Munroe
Attorneys.

A. P. WEBBER.
Plow Fender.

No. 122,087.

Patented Dec. 19, 1871.

Witnesses:
Henry W. Wells
John A. Smith

Inventor:
Alanson P. Webber
by Edmund R. Ransom
his attorney.

ROBERT T. GILLESPIE.
Improvement in Clod Fender.
No. 125,732. Patented April 16, 1872.

Witnesses:
C. H. Smith
J. W. Smith

Inventor:
R. T. Gillespie
per Munroe
Attorneys.

A. L. DIRST.
Clod-Fenders.

No. 135,896.

Patented Feb. 18, 1873.

Witnesses:
J. A. Smith
J. W. Smith
Inventor:
Albert S. Dirst

G. B. VAUGHAN.
Plows.

No. 151,732.

Patented June 9, 1874

Fig. 1.

Fig. 2.

Fig. 2. is
the same as Fig. 1

Fig. 3.

Witnesses
James H. Smith
Thomas H. Smith

Inventor
G. B. Vaughan
by J. H. Smith
Attorney

O. W. HOYT.
Fender.

No. 168,999.

Patented Oct. 19, 1875

ATTEST
J. H. Smith
J. P. Lovell

INVENTOR
O. W. Hoyt

A. T. MARTIN, Jr.
FLOW SHIELD AND CLEANER.

No. 179,122.

Patented June 27, 1876.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES

J. H. Smith
Thomas H. Smith

INVENTOR
A. T. Martin, Jr.
PER
H. S. Abbott
ATTORNEY

A. C. MURRAY
FLOW-FENDERS.

No. 183,952.

Patented Oct. 31, 1876.

Fig. 1.

Fig. 2.

WITNESSES
James H. Smith
John Lovell

INVENTOR
A. C. Murray
BY
Murray
ATTORNEYS

E. B. MURPHY & C. D. BRAMMELL.

CORN-GUARDS FOR FLOWS.

No. 189,128.

Patented April 3, 1877.

Fig. 2.

WITNESSES:

Thomas McArthur
J. H. Scarborough

INVENTOR:

E. B. Murphy
C. D. Brammell
Attorneys

J. B. RUBSAM.

PLOW-FENDERS.

No. 194,374.

Patented Aug. 21, 1877.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

WITNESSES:

H. H. Lowrey
M. M. Conner

INVENTOR:

Jacob B. Rubsam
Attorneys

R. AUSTIN & W. H. GARDINER.

Fender.

No. 205,463.

Patented July 2, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:

H. Gardiner
C. W. Starnes

INVENTOR:

William H. Gardiner
Rufus Austin
by J. D. Staples atty.

M. & D. HAIN.

Plow Attachment.

No. 209,885.

Patented Nov. 12, 1878.

Fig. 1.

Fig. 5.

Fig. 6.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES:

J. M. Henthel
Chas. Henthel

Inventors:
Martin & David Hain
per Henthel atty.

A. & M. SIMMONS.
Cultivator-Fender.

No. 213,948.

Patented April 1, 1879.

Fig. 2.

Fig. 4.

Fig. 3.

Fig. 5.

WITNESSES:

Achilles Schehl
A. Schagard

INVENTOR:

A. Simmons

M. Simmons

BY

Mumbe

ATTORNEYS.

F. B. KENDALL.
Cultivator.

No. 214,825.

Patented April 29, 1879.

Fig. 2.

Fig. 3.

Witnesses:

M. H. Nunnell
C. R. Richards

Inventor:

Francis B. Kendall
By J. B. Richards
Att'y.

H. C. KRING.
Fender.

No. 219,163.

Patented Sept. 2, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

W. C. Kephart
Geo. A. Foster

INVENTOR:

Henry C. Kring

per Chas. H. Fowler

Attorney

L. DAVIS, Jr.
Fender for Cultivator.

No. 226,501.

Patented April 13, 1880.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES

Robert L. Evans
Chas. H. Page

INVENTOR

Leon Davis Jr.
Edmund Smith & Co.

ATTORNEYS

G. B. SNOW.
Shield or Fender for Corn Cultivators.

No. 227,134.

Patented May 4, 1880.

Witnesses:

G. B. Snow
J. D. Pollock

G. B. Snow
Inventor
By *James D. Fox*
Attorney in fact

(No Model.)

J. T. DOUGLASS.
Cultivator Guard.

No. 235,140.

Patented Dec. 7, 1880.

Fig. 2.

Witnesses
E. H. Houghton
A. M. Wright

INVENTOR
John T. Douglass
By *Samuel S. Sargent*
ATTORNEYS

(No Model.)

I. S. BATES.
FENDER ATTACHMENT TO CULTIVATORS.

No. 248,129.

Patented Oct. 11, 1881.

Fig. 2.

Witnesses:

W. H. Hollingsworth
W. Read

INVENTOR:
I. S. Bates
BY *James F. Le*
ATTORNEYS

(No Model.)

H. P. MEGGS.
COTTON SCRAPER.

No. 248,774.

Patented Oct. 25, 1881.

Fig. 2.

Witnesses
E. H. Houghton
Phil. G. Houghton

INVENTOR
H. P. Meggs
By *Anderson & Smith*
ATTORNEYS

(No Model.)

G. BROWNE.
PLOW ATTACHMENT.

No. 249,740.

Patented Nov. 22, 1881.

Attest:
A. Barthol
C. Sully,

Inventor:
George Browne
by Thos. S. Sprague
Att.

(Model.)

G. W. HAVILAND.
CULTIVATOR FENDER.

No. 250,527.

Patented Dec. 6, 1881.

Witnesses:
M. H. & Co.
John P. Young

Inventor:
George W. Haviland
by M. H. & Co.
Att.

(No Model.)

L. B. BEAUMONT.
FENDER.

No. 265,006.

Patented Sept. 26, 1882.

WITNESSES:
C. N. ...
A. ...

INVENTOR:
L. B. Beaumont
BY ...
ATTORNEYS.

HAND.

<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>		
Adams, W.	370	227	Falsom, S. H.	388	233	O'Callahan, J. D.	396	235
Adams, A. B.	373	228	French, W. and			Pagett, W. F. and		
Alling, P.	379	230	Prentice, J. W.	392	234	Gard, S. H.	382	231
Armstrong, J.	378	230	Fuller, M. H.	401	238	Parker, C. A. and G. R.	392	234
Arnold, A. C.	373	228	Ganse, H. D.	370	227	Perkins, C. D.	387	233
Baldwin, P. O.	385	232	Goodwin, W. C.	377	229	Petticrew, D.	377	229
Beach, L. L.	383	231	Goodwin, W.	386	232	Pierpont, J. Tuttle, S. S. and		
Beal, T.	374	229	Gowen, W.	382	231	Thomkins, C. B.	394	235
Beecroft, N. D.	388	233	Graham, E. M.	389	233	Polen, C. W.	399	237
Blake, W.	400	238	Guyer, J.	371	227	Reed, J. E.	385	232
Blanchard, E.	389	233	Hall, J. A.	375	229	Reed, S.	392	234
Blum, R.	375	229	Hall, J.	391	234	Reynolds, E. D. and O. B.	377	230
Russell, E. T.	386	232	Halsted, J. D. and			Robinson, J. A.	399	227
Byrns, P.	381	231	A. M.	372	228	Ross, A. W.	390	233
Carstens, N. and C.	378	230	Harris, C. A.	376	229	Roys, J. S.	390	234
Chapman, J. H.	380	230	Hawley, E. E.	369	227	Rue, N.	384	232
Chase, N. B. and Saunders,			Haynsworth, H.	383	231	Rue, G. W.	388	223
C. W.	370	227	Hess, G. H.	377	229	Ruggles, C. F.	384	232
Christy, J.	393	234	Jarvis, C.	373	228	Ruhlmann, E.	398	236
Clark, E.	383	231	Johnson, C. H.	381	231	Ruhlmann, E.	399	237
Clark, W. O.	393	234	Johnson, M.	395	235	Rust, R.	389	233
Clinger, P. S.	371	227	Johnson, M.	397	236	Sanford, J. W.	376	229
Cole, G. W.	381	231	Johnson, M.	397	236	Scott, R.	382	231
Colvin, B.	400	238	Johnson, M.	398	236	Sherwood, A. H.	386	232
Comstock, W. G. (H.)	380	230	Jones, W. G.	386	232	Sherwood, H. B.	400	237
Cane, M. D. and Douglass,			Jordon, D. C.	371	227	Skelton, W. M.	391	234
A. N.	375	229	Joynes, R. F.	372	227	Smith, J. B.	369	227
Conrad, S. A.	360	233	Keefer, F.	375	229	Smith, G.	374	228
Coston, J.	384	232	Kelly, W. C.	401	238	Smith, G. W.	376	229
Crawford, J. M.	374	228	Kelly, W. W.	400	238	Smith, W. D.	385	232
Croft, C.	373	228	Kingsland, G.	398	237	Smoot, T. E.	397	236
Croft, C.	393	234	Lees, J. A.	398	236	Spratt, W. S.	380	230
Culver, J. M.	380	230	Lindley, N. H.	379	230	Taylor, B.	378	230
Dawdy, L. J.	388	233	Lindley, N. H.	383	232	Thompson, M. Y.	393	235
Dowler, J. W.	396	235	Lucas, J. S.	396	235	Tietjens, H. H.	376	229
Dugdale, J. K.	372	228	McCulloch, J. L.	394	235	Treffitz, L. and Slimpert		
Dugdale, J. K.	395	235	Mack, D.	389	233	G. H.	379	230
Duvall, L.	384	232	Marsh, W.	390	234	Trigalet, F.	387	233
Eddy, H. D.	399	237	Marshall, S. M. and			Vampill, R.	396	235
Emerson, C. W.	371	227	Coburn, J. W.	369	227	Von Achen, J.	374	228
Fey, C.	399	237	Matthews, E. G.	381	231	Vosburg, H.	391	334
Finson, C. H.	395	235	Mays, W. L. and			Warbasse, E. H.	391	234
Fitts, R. B. and Thackara,			Tigrett A. B.	395	235	Warren, A.	370	227
J. W.	372	228	Mosher, W. H.	394	235	Winecoff, J.	379	230
Fitzhugh, B. G.	385	232	O'Callahan, J. D.	382	231	Winton, W. B.	378	230

Marshall & Colburn

Cultivator

N^o 955.

Patented Oct. 5, 1839

Inventors
Marshall & Colburn

Attorneys
J. B. Smith & Co.

J. B. SMITH.

Hand Plow.

No. 1,117.

Patented Apr. 10, 1839

E. E. Hawley

Hand Plow

N^o 5,966.

Patented Dec. 5, 1848.

Fig 1

Fig 2

J. A. Robinson

Hand Plow

N^o 12,428

Patented Feb. 20, 1865.

Inventor
J. A. Robinson

Attorney
Jonathan A. Allen

*Chase & Saunders**Hand Plow*N^o 12,178

Patented Mar 6, 1855.

*H. D. Conser.**Hand Plow*N^o 12,589.

Patented Mar 27, 1855.

*W. Adams**Hand Plow*N^o 21,055

Patented Aug 3, 1858

*A. Warren.**Hand Plow*N^o 26,066.

Patented Aug 9, 1859

Witnesses
Wm. L. Adams
John H. Adams

Inventor
A. Warren

J. Guyer.
Hand Plow

No. 27,445.

Patented Mar. 13, 1860.

Witnesses
W. S. Guyer
Th. Madon.

Inventor
John Guyer

P. S. Olinger.
Hand Plow

No. 27,694.

Patented Apr. 3, 1860.

Fig. 3.

Fig. 1.

D. C. Jordan,
Hand Plow.

No. 28,376.

Patented May 22, 1860.

Fig. 5.

Fig. 1.

Fig. 4.

Fig. 2.

Witnesses:
Geo. Combs
Wm. J. Kingston

Inventor:
Daniel C. Jordan
per Murray & Co.
(Attorneys)

C. W. Emerson.
Hand Plow

No. 1124.
32,128.

Patented Apr. 23, 1861.

Fig. 2.

Fig. 4.

Fig. 3.

R F JOYNES

Halo-Flow

No. 1,475,
32,479.

Patented June 4 1861

Witnesses:
H. J. Rogers
H. J. Brown

Inventor.

R. F. Joynes
by J. H. Brown

J K DUGDALE

Cultivator.

No. 35,223

Patented May 13 1862

WITNESSES:

J. H. Brown
S. M. G. Dugdale

INVENTOR.

James H. Dugdale

J. D. & A. M. Halsted.

Hand Plow

No. 35,313.

Patented May 20 1862.

Fig 2

Witnesses:
J. A. Roberts
H. James WestonInventors
J. D. Halsted
A. M. Halsted

Fitts & Thackara,

Hand Plow.

No. 39,560.

Patented Aug. 18 1863.

Fig 1

Fig 2

Witnesses:
Mr. Brown
J. H. BrownInventor:
K. F. Fitts
J. H. Thackara

A. B. Adams.

Weeding Hoe.

Nº 44,036.

Patented Aug. 30, 1864.

Witnesses.

*Geo. F. H. Camera
J. P. Hall.*

Inventor.

*A. B. Adams
per Mundell
Attorney.*

C. Jarvis.

Hand Flaw.

Nº 45,831.

Patented Nov. 10, 1865.

Fig. 2

Witnesses

*N. H. Dinkhaus
Geo. W. Newbigen*

*Inventor
Charles Jarvis*

C. Croft.

Weeding Hoe.

Nº 49,986.

Patented Sept. 19, 1865.

Witnesses.

*C. H. Yarn
A. C. Ames*

Inventor.

Charles Croft

A. C. Croft.

Weeding Hoe.

Nº 50,436.

Patented Oct. 17, 1865.

Witnesses.

*N. H. Yarn
S. W. Townsend*

Inventor.

Henry C. Croft

G. SMITH.
Hand Plow.

No. 52,083.

Patented Jan. 16, 1866.

Witnesses

Geo. C. Conklin
Wm. Lynn

Inventor

George Smith
Munn & Co.

J. Van Aken.

Hand Plow.

No. 33,061

Patented Mar. 6, 1866.

Witnesses

Isaac Horns
Geo. H. Hailson

Inventor

Joseph Van Aken
by H. H. Dodge

J. M. Crawford

Hand Plow.

No. 37,841.

Patented Sept. 11, 1866.

Fig. 1

Fig. 2

Fig. 3

Witnesses

Samuel H. Crawford
James H. 25th Street

Inventor

John H. Crawford
by H. H. Hailson

T. Beale,

Cultivator.

No. 58,578.

Patented Oct. 9, 1866.

Fig. 1

Fig. 2

Fig. 3

Witnesses

Wm. H. Hailson
Wm. Hailson

Inventor

T. Beale
by Munn & Co.

Hand-Plow

No 63,884

Patented Feb. 16, 1866.

Fig 1

Fig 2

Fig 3

Witnesses
Oliver F. Roberts
James Thompson

Inventor
Robert A. Ball
per Alexander
McDonald

CONE & DOUGLASS.

Hand-Plow

No 62,317

Patented Feb. 26, 1867.

Witnesses.
Wm H. Butler
John H. Rogers

Inventor.
C. Douglas
& W. B. Cone
By Wm B. Douglass

R. Blum.

Hand-Plow

No 63,840.

Patented Apr 16, 1867.

Fig 1

Fig 2

Witnesses
J. F. Dodge
A. H. Mann

Inventor
R. Blum
per Alexander
McDonald

F. Keefer.

Hand-Plow

No 64,771.

Patented May 14, 1867

WITNESSES.
A. H. Mann
Alexander H. Mann

INVENTOR
F. Keefer
Alexander H. Mann

G. W. SMITH.
Hand Plow.

No. 64,917.

Patented May 21, 1867

Witnesses:

Geo. W. Northwell.
James L. Egan

Inventor:

George W. Smith
per Munn & Co. attys.

H. H. TIETJENS.
Hand Plow.

No. 68,469

Patented Sept. 3, 1867.

Witnesses:

B. H. Himmington.
Geo. W. Northwell

Inventor:

Hans H. Tietjens

C. A. HARRIS
Hand-Plow

No. 69,803

Patented Oct. 15, 1867

Witnesses:

Geo. W. Northwell.
James L. Egan

Inventor:

C. A. Harris

Jared W. Stanford, Cultivator:

PATENTED
DEC 3 1867

71794

Fig. 3

Fig. 5

Witnesses:
J. H. Stanford
Geo. W. Northwell

Fig. 6

Inventor:

J. H. Stanford
per Munn & Co. attys.

William G. Goodwin.
Hand Cultivator

Witnesses.
James B. Locke
W. H. Thompson

W. H. Thompson

G. H. HESS.
 WEEDING MACHINE

PATENTED
DEC 31 1867

Witnesses.
J. H. Hensley
Jas. R. Hayden

Geo. H. Hess, inventor
By J. H. Hensley
his attorney

D. Petticrew.
Garden-Plow.

N^o 73644

Patented Jan. 21, 1868

Witnesses.
Wm. B. Lawrence
James Murphy

Inventor.
David Petticrew
 by
Wm. B. Lawrence
his atty.

E. D & O. B. Reynolds.
Wheel-Hoe.

N^o 75460

Patented Mar. 10, 1868

Witnesses.
J. T. Hensley
W. H. Thompson

Inventors. *E. D & O. B. Reynolds*
 by *Geo. H. Hess*
his attorney

N. C. Carstens,
Reeding-Mach.

No. 75,858.

Patented Mar. 24, 1868.

Fig. 2.

Witnesses.

H. C. Melick
J. A. Morgan

Inventor.

N. C. Carstens
C. Carstensper Munnell
Attorneys

J. Armstrong.

Rotary Harrow

No. 79,540

Patented Oct. 7, 1868.

Witnesses

H. C. Melick
J. A. Morgan

Fig. 3.

Inventor.

J. Armstrong

B. Taylor,

Hand Plow.

No. 81,034.

Patented Aug. 11, 1868.

Witnesses

H. C. Melick
J. A. Morgan

Inventor.

B. Taylor

per Munnell
Attorneys

W. B. Winton.

Hand Plow

No. 81,857

Patented Sept. 1, 1868.

Witnesses

H. C. Melick
J. A. Morgan

Inventor.

W. B. Winton

per
V. C. Alexander
Attorney

P. Alling,
Hand Plow,

No. 83,484.

Patented Oct. 27, 1868.

WITNESSES:
J. H. Burdette
Frank G. Allen

INVENTOR:
P. Alling

J. WINECOFF.
Hand Plow.

No. 84,331.

Patented Nov. 24, 1868.

Witnesses
J. A. Ashmore
D. P. Wilson

Inventor
Jesse Winecoff

Treffz & Stumpert
Cultivator.

No. 86,709

Patented Jan. 5, 1869.

Witnesses
R. J. Campbell
John Campbell

Inventors
John Treffz
Stumpert
John Treffz & Stumpert
Manufacturers of Cultivators

N. H. Lindley
Hand Plow.

No. 86,846.

Patented Feb. 9, 1869.

Fig. 3

Witnesses
John A. Schumway
A. J. Tubbitz

Inventor
N. H. Lindley
By John E. Cook
Attorney

*W. S. Spratt**Garden Cultivator**N^o 86,879**Patented Feb 9, 1869.*

Witnesses,
A. C. Johnston
W. Johnston

Inventor,
W. S. Spratt

*J. H. Chapman**Garden Cultivator**N^o 88,275**Patented Mar 30, 1869*

Witnesses,
J. H. Hurd
Leopold Green

Inventor,
James H. Chapman
Att'y

*J. M. Culver**Garden Cultivator**N^o 89,634**Patented May 4, 1869.*

Witnesses
G. Prouty
Wm. H. Morgan

Inventor,
J. M. Culver
Att'y

*W. H. Comstock**Cultivator and Hoe**N^o 90,639**Patented Jan 1, 1869*

Witnesses
Wm. H. Comstock Jr.
David Comstock

Inventor,
William H. Comstock

E. G. Matthews.
Cultivator.

No. 91,144.

Patented Jan. 8, 1869.

Fig. 1

Fig. 2

Witnesses
Thos. H. Dodge
Albert E. Davis

Inventor
E. G. Matthews

F. Jours.
Hand Flou.

No. 92,581.

Patented July 13, 1869

Fig. 1

Fig. 2

Witnesses
Jas. A. Ellis
C. H. Smith

Inventor
F. Jours
Per
J. H. Andrews.

C. H. Johnson,
Hand Flou.

No. 92,835.

Patented July 20, 1869.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Witnesses
J. H. Johnson
Jas. H. Johnson

Inventor
C. H. Johnson
Per
J. H. Johnson

G. W. Cole,
Hand Flou.

No. 93,277.

Patented Aug. 3, 1869

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses
J. H. Johnson
Jas. H. Johnson

Inventor
G. W. Cole

Per
J. H. Johnson

*W. Gowen,
Hand Plow.*

No. 93,431.

Patented Aug. 10, 1869.

Fig. 1

Fig. 2 Fig. 3 Fig. 4 Fig. 5

Witnesses:

W. T. Fitzgerald
Geo. W. H. H. H.

Inventor:

W. Gowen
Per *W. T. Fitzgerald*
Attorneys.

*Fageth's Gard.
Hand Plow.*

No. 94,434.

Patented Aug. 31, 1869.

Witnesses:

W. A. Reed
S. E. Hymon

Inventor:

W. A. Reed
S. E. Hymon
Attorneys.

R. Scott.

Garden Plow.

No. 94,657.

Patented Sept. 7, 1869.

Fig. 1

Fig. 2

Fig. 4

Witnesses,

Robert A. Ford
J. W. H. H.

Inventor:

Robert Scott

J. C. Gilman.

Hand Plow.

No. 95,718.

Patented Oct. 12, 1869.

Fig. 1

Witnesses

J. C. Gilman
J. W. H. H.

Inventor:

J. C. Gilman
J. W. H. H.

Fig. 2

Fig. 3

Fig. 4

I. Clark
East Portland
 No. 95,986. *Patented Jan. 19, 1880*

Witnesses:
 Luke W. Clark
 Alexander Montgomery.

Inventor:
 I. Clark.

H. Haysworth
East Portland
 No. 97,508. *Patented Jan. 7, 1880*

Witnesses:
 Alex. F. Roberts
 David Roberts
 (20)

Inventor:
 H. Haysworth
 Attorney.

L. L. Frank
Portland
 No. 98,377. *Patented Jan. 28, 1880*

Witnesses:
 L. J. Loomis
 A. C. Loomis

Inventor:
 Luman L. Frank
 by *Wm. H. Loomis*
 his atty.

N. H. LINDLEY.
 Horse Hoe.
 No. 98,983. *Patented Jan. 18, 1870.*

Witnesses:
J. K. Loomis
A. J. Loomis

N. H. Lindley
 Attorney
 by *Wm. H. Loomis*
A. C. Loomis

L. Duwall,

Hand Plow.

No. 99,543.

Patented Feb. 3, 1870.

Witnesses:

B. H. Stevens
S. H. Sweetland

Inventor:

L. Duwall
per J. H. Whitman
Att'y.

N. Roe,

Hand Plow.

No. 112,497.

Patented Mar. 7, 1871.

Witnesses:

J. H. Whitman
L. L. Curtis

Inventor:

Nelson Roe
per Alexander Mason
Att'y.

C. F. RUGGLES.

Improvement in Garden-Cultivators.

No. 115,526.

Patented May 30, 1871.

Witnesses:

L. L. Curtis
J. H. Whitman

Inventor:

Charles F. Ruggles
per Alexander Mason
Att'y.

JOHN COSTON.

Improvement in Plows.

No. 115,710.

Patented June 6, 1871.

Witnesses:

L. L. Curtis
J. H. Whitman

Inventor:

John Coston
per Alexander Mason
Att'y.

J. E. REED.

Improvement in Cultivators.

No. 115,771.

Patented June 6, 1871.

Witnesses
J. E. Reed
C. E. Reed

Inventor:
J. Eugene Reed.
Alexander M. Reed

P. O. BROWN.

CULTIVATOR

117034

ENTERTED JUL 18 1871

Witness
Frank Brown
H. C. Brown

Inventor
P. O. Brown
J. E. Brown
H. C. Brown

W.D. Smith. Hand Garden Plow.

118290

ENTERTED AUG 22 1871

Fig 1

Witnesses;
John A. Beckner
W. D. Smith

Inventor:
W. D. Smith.
Per M. M. Smith
Attorneys.

Benjamin C. Fitzhugh.

Combined Wheel-barrow & Plough.

No. 119,973.

Patented Oct. 17, 1871.

Figure 2.

Figure 1.

Witnesses
Benjamin C. Fitzhugh
J. M. Wagner

Inventor:
Benjamin C. Fitzhugh
by John A. Beckner
his attorneys

A. H. SHERWOOD

Improvement in Weeding Machines.

No. 123,944.

Patented Feb. 20, 1872.

Witnesses
L. H. Sherman
A. J. White

Inventor
A. H. Sherwood
By E. Earl

W. G. JONES

Improvement in Hand Cultivators.

No. 124,140.

Patented Feb. 27, 1872.

Witnesses
E. H. Bates
J. G. Jones

Inventor
W. G. Jones
By E. H. Bates

WILLIAM GOODWIN.

Improvement in Hand Hoe Cultivators.

No. 124,810.

Patented March 19, 1872.

Witnesses
John W. Rodgers
William H. Bone

Inventor
William Goodwin

3 Sheets--Sheet 1.

E. T. BUSSELL

Cultivators.

No. 129,712.

Patented July 23, 1872.

Witnesses
A. Ruppert
Joseph Farnet

Inventor
Eugene T. Bussell
By Theodore H. H. H. H.

E. T. BUSSELL.
Cultivators.

3 Sheets--Sheet 2

No. 129,712.

Patented July 23, 1872.

Witnesses.
A. Ruppert.
Joseph Forrest

Inventor
E. T. Bussell
By Thomas Morgan
Attorney

E. T. BUSSELL.
Cultivators.

3 Sheets--Sheet 3.

No. 129,712.

Patented July 23, 1872.

Witnesses
A. Ruppert.
Richard Livingston

Inventor
E. T. Bussell
By Thomas Morgan, Jr.
Attorney

C. D. PERKINS.
Improvement in Cultivators

No. 131,066.

Patented Sep. 3, 1872.

Fig. 1.

Fig. 2.

Witnesses.
J. M. Roberts

Inventor
C. D. Perkins
By Marshall
Attorney

F. TRIGALET.

Improvement in Cultivators.

No. 132,504.

Patented Oct. 22, 1872.

Fig. 1.

Fig. 2.

Witnesses
F. M. Harnes
Richard Livingston

Inventor
F. Trigalet

S. H. FOLSOM.

Hoes.

No. 133,932.

Patented Dec. 17, 1872.

FIG. 3.

FIG. 2.

FIG. 1.

WITNESSES.

W. H. H. H.
A. M. Rogers

INVENTOR.

Samuel H. Folsom

N. D. BEECROFT.

Hoes.

No. 136,020

Patented Feb. 18, 1873.

Fig. 2.

Fig. 1.

Fig. 3.

Witnesses
J. W. H. H.
J. W. H. H.

Inventor
Norval D. Beecroft
Per my Wm. H. H. H.

L. J. DAWDY.

Hand-Cultivators.

No. 136,220.

Patented Feb. 25, 1873.

Fig. 1.

Fig. 2.

Witnesses
J. W. H. H.
C. L. H. H.

Inventor
Lewis J. Dawdy
Per my Wm. H. H.
Attorneys.

G. W. RUE.

Hand-Cultivators.

No. 137,098

Patented March 25, 1873.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Witnesses.
Wm. H. H.
J. W. H. H.

Inventor.
G. W. Rue
Per my Wm. H. H.

E. BLANCHARD.

Combined Garden-Hoes and Rollers.

No. 137,124

Patented March 25, 1873

E. M. GRAHAM.

Cultivators.

No. 139,001

Patented May 20, 1873.

R. RUST.
Cultivators.

No. 139,193

Patented May 20, 1873.

D. MACK.
Garden-Cultivating Implements.

No. 144,912

Patented Nov. 25, 1873.

A. W. ROSS.
Hand-Cultivators.

No. 144,927.

Patented Nov. 25, 1873.

Witnesses:

E. J. Ross
C. L. Court

Inventor:

A. W. Ross
Per *Munn & Co.*
Attorneys.

S. A. CONRAD.
Hand-Cultivators.

No. 145,153.

Patented Dec. 2, 1873.

WITNESSES
E. J. Conrad
C. L. Court

By

INVENTOR.
Samuel A. Conrad.
Alexander Munn & Co.
Attorneys.

J. S. ROYS.
Wheeled-Hoes.

No. 146,712.

Patented Jan. 20, 1874.

WITNESSES

E. J. Roys
C. L. Court

By

INVENTOR

J. Sidney Roys
Alexander Munn & Co.
Attorneys.

W. MARSH.
Hand-Cultivators.

No. 148,226.

Patented March 3, 1874.

Fig. 1.

Fig. 2.

WITNESSES

W. Marsh
C. L. Court

By

INVENTOR

W. Marsh
Alexander Munn & Co.
Attorneys.

E. H. WARBASSE.
Wheeled Hoos.

No. 149,083

Patented March 31, 1874.

WITNESSES.
Amos R. Cuffee.
Edward L. Swann.

INVENTOR.
Elias H. Warbasse

H. VOSBURG.
Garden Scarifiers.

No. 153,865.

Patented Aug. 4, 1874.

Witness
L. S. Hume
W. P. Spalding

Inventor:
H. Vosburg
per *Wm. H. H. H. H.*

J. HALL.
Cultivators.

No. 156,482.

Patented Nov. 3, 1874.

WITNESSES
Robert C. Smith
E. H. Bates

INVENTOR
Jenniah Hall
Chapman & Co.

Attorneys

W. M. SKELTON.
Combined Hand-Rakes and Rollers.
No. 156,715.

2 Sheets--Sheet 1.

Patented Nov. 10, 1874

WITNESSES
Robert C. Smith
George C. Hume

INVENTOR
William M. Skelton
Chapman & Co.

ATTORNEYS

W. M. SKELTON.
Combined Hand-Rakes and Rollers.

2 Sheets--Sheet 2
No. 156,715. Patented Nov. 10, 1874.

WITNESSES
Wm. M. Skelton
George E. Johnson BY

INVENTOR
William M. Skelton
Clapman & Co. ATTORNEYS

W. FRENCH & J. W. PRENTICE.
Hand-Cultivators.

No. 156,919. Patented Nov. 17, 1874.

Witnesses
A. B. Allen
F. Raymond

Inventors
Wm. French
John Wesley Prentice

C. A. & G. R. PARKER.
Hand Snow-Plows.

No. 157,078. Patented Nov. 24, 1874.

Witnesses
Chas. Parker
G. R. Parker

Inventors
Charles Parker
George R. Parker

S. REED.
Cultivators.

No. 157,761. Patented Dec. 15, 1874.

Witnesses
F. B. Townsend
W. A. Kiser

INVENTOR
S. Reed
J. C. Loomis

J. PIERPONT, S. S. TUTTLE & C. B. TOMPKINS.
HAND-CULTIVATOR.

No. 173,179

Patented Feb. 6, 1876.

Witnesses:
J. L. Pierpont,
C. B. Tompkins.

Inventors:
Joshua Pierpont,
S. S. Tuttle,
Charles B. Tompkins.
D. W. R. Smith & Co. Attorneys

W. H. MOSHER.
CULTIVATOR.

No. 173,324.

2 Sheets—Sheet 1.
Patented Feb. 8, 1876.

Witnesses:
Richard G. Smith,
E. H. Bates.

Inventor:
W. H. Mosher.
Chapman & Townsend, Attorneys

W. H. MOSHER.
CULTIVATOR.

No. 173,324.

2 Sheets—Sheet 2.
Patented Feb. 8, 1876.

Witnesses:
Richard G. Smith,
E. H. Bates.

Inventor:
W. H. Mosher.
Chapman & Townsend, Attorneys

J. L. McCULLOCH.
CULTIVATOR.

No. 176,438.

Patented April 25, 1876.

Fig. 1.

Fig. 2.

Witnesses:
Charles E. Rose,
Barton & Ross.

Inventor:
John L. McCulloch.

J. K. DUGDALE.
HAND CULTIVATOR

No. 176,845.

Patented May 2, 1876

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:

Benjamin H. Addelman
Benjamin H. Dugdale

Inventor:

James H. Dugdale

M. JOHNSON.
GARDEN-WEEDER.

No. 176,963.

Patented May 2, 1876.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES

Robert Everett
George E. Johnson

INVENTOR

Moses Johnson
Chipman & Co.
ATTORNEYS

W. L. MATS & A. B. TIGRETT.
HAND-FLOW.

No. 177,262.

Patented May 9, 1876.

FIG 1

FIG 2

FIG 3

FIG 3

FIG 6

FIG 6

WITNESSES

Mary A. Trett
George E. Johnson

INVENTORS

William L. Mats
Andrew B. Trett
Chipman & Co.
ATTORNEYS

C. H. FINSON.
WHEEL-HOE.

No 177,390

Patented May 16, 1876.

Charles H. Finson
George E. Johnson
Frank H. Johnson

Charles H. Finson
George E. Johnson
Frank H. Johnson

E. VAMPILL.
WHEEL-HOE.

No. 181,380.

Patented Aug. 22, 1876.

WITNESSES:
E. Vampill
John G. Smith

INVENTOR:
E. Vampill
BY *Wm. H. Miner*
ATTORNEY.

J. S. LUCAS.
HAND-CULTIVATOR.

No. 182,374.

Patented Sept. 19, 1876.

WITNESSES:
J. S. Lucas
John G. Smith

INVENTOR:
J. S. Lucas
BY *Wm. H. Miner*
ATTORNEY.

J. D. O'CALLAGHAN.
COMBINED WHEELBARROW AND GARDEN CULTIVATOR.
No. 186,606.

Patented Jan. 23, 1877.

Witnesses:

J. D. O'Callaghan
John G. Smith

Inventor:

J. D. O'Callaghan

J. W. BOWLER.
HAND-CULTIVATOR.
No. 187,222.

Patented Feb. 13, 1877.

Witnesses:
J. W. Bowler
John G. Smith

Inventor:
J. W. Bowler
John G. Smith

M. JOHNSON.
HAND GARDEN WEEDER.
No. 188,917. Patented March 27, 1877.

2 Sheets—Sheet 1.

Fig. 2.

WITNESSES
Robert Smith
George E. Upshaw.

INVENTOR.
M. Johnson.
Attorneys.
Johnson, Smith & Co.

M. JOHNSON.
HAND GARDEN WEEDER.
No. 188,917. Patented March 27, 1877.

2 Sheets—Sheet 2.

Fig. 3.

WITNESSES
Robert Smith
George E. Upshaw.

INVENTOR.
M. Johnson.
Attorneys.
Johnson, Smith & Co.

M. JOHNSON.
DIGGER AND WEEDER.
No. 192,697. Patented July 9, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 6.

WITNESSES
H. Bates
George E. Upshaw.

INVENTOR.
M. Johnson.
Attorneys.
Johnson, Smith & Co.

T. E. SMOOT.
GARDEN-PLOWS.
No. 194,007. Patented Aug. 7, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES
W. H. H. H. H. H.
John H. H. H.

INVENTOR.
Thomas E. Smoot.
Attorneys.
Smith & Co.

E. RUELMANN
GARDEN WHEEL-HOES.

No. 194,977.

Patented Sept. 11, 1877.

Fig. 1.

Fig. 2.

Fig. 4.

Fig. 3.

Witnesses:

Frank Hirsch
Edw. Brosart

Inventor:

Eugene Ruhlmann
Richard A. Stark
Per Attorney

M. JOHNSON.
Garden-Weeder.

No. 197,731.

Patented Dec. 4, 1877.

Fig. 7.

Fig. 5.

Fig. 2.

Fig. 3.

Fig. 4.

Attest:
H. C. Fennell
H. C. Fennell

Moses Johnson,
Inventor.
By: Myron H. Co.

J. A. LEES.
Weed-Cutter.

No. 198,129.

Patented Dec. 11, 1877.

Fig. 1.

Fig. 4.

Fig. 2.

Fig. 3.

Fig. 5.

Fig. 6.

Fig. 7.

Witnesses:

Edw. A. Brown
Ed. P. Grant

Inventor:

J. A. Lees.
J. A. Lees

G. KINGSLAND.
Strawberry-Vine Cutter.

No. 202,951.

Patented April 30, 1878.

Fig. 1.

Fig. 2.

Witnesses:
H. C. Fennell
H. C. Fennell

Inventor:

George Kingstand
per James A. Whitney

C. W. FOLEN.
Garden-Hoe.

No. 203,643.

Patented May 14, 1878.

WITNESSES:
Thomas Mulder
E. Sengnick

INVENTOR:
C. W. FOLEN
BY *Miner*
ATTORNEYS.

C. FEY.
Malt-Plow.

No. 207,495.

Patented Aug. 27, 1878.

Witnesses.

J. H. H. H.
H. J. H. H.

Inventor.

Charles Fey
San Francisco & Hoff
Att.

E. RUHLMANN.
Cultivator.

No. 212,575.

Patented Feb. 25, 1879.

Fig. 2.

Witnesses:
Bank Hirsch
H. J. H. H.

Inventor:
Eugene Ruhlmann
By *Michael J. H. H.*

H. D. EDDY.
Sod-Trimmer.

No. 214,496.

Patented April 22, 1879.

WITNESSES
C. A. H. H. H.
J. H. H. H.

INVENTOR
H. D. Eddy
By *Dequette & Dequette*
ATTORNEYS

(No Model.)

H. B. SHERWOOD.
Hand Cultivator.

No. 237,057.

Patented Jan. 25, 1881.

WITNESSES:

Chas. Shaw
C. Sedgwick

INVENTOR.

H. B. Sherwood
BY *Mum & Co.*
ATTORNEYS.

(No Model.)

W. W. KELLY.

COMBINED WHEELBARROW AND CULTIVATOR.

No. 258,305.

Patented May 23, 1882.

Attest:
J. Hurdell
Charles Pratt

Inventor:
Walter W. Kelly
per *Thos. L. Sprague*
Att.

(No Model.)

B. COLVIN.
ROTARY HAND CULTIVATOR.

No. 264,138.

Patented Sept. 12, 1882.

WITNESSES:

L. Ashurst
L. W. Greene

INVENTOR.

Benson Colvin
BY *Robt. H. Wilson*
ATTORNEY

(No Model.)

W. BLAKE.
CULTIVATOR.

No. 265,009.

Patented Sept. 26, 1882.

WITNESSES:

C. Novick
C. Sedgwick

INVENTOR:

W. Blake
BY *Mum & Co.*
ATTORNEYS

(No Model.)

W. C. KELLY.

REVERSIBLE BARROW CULTIVATOR.

No. 266,697.

Patented Oct. 31, 1882.

Attest

A. Smith

Inventor.

Wallace C. Kelly

per

Thos. L. Thompson

att.

(No Model.)

M. H. FULLER.

WEEDING MACHINE.

No. 266,956.

Patented Oct. 31, 1882.

Witnesses.

Edmund G. Yarnall

J. J. McCarthy

Inventor.

M. H. Fuller

By E. W. G. G. G.

Attorney.

HANDLES.

	<i>Plate</i>	<i>Claim</i>
Allen, W. B.	415	248
Babcock, W. S.	414	248
Bigelow, D. F.	416	248
Bissel, T. M.	417	249
Brown, W. P.	416	248
Burghardt, J. H.	415	248
Clark, J. M.	417	249
Couch, W. A.	414	248
Finnegan, J.	416	248

	<i>Plate</i>	<i>Claim</i>
Friberg, A.	412	247
Gibbs, L.	416	248
Hacke, F.	417	249
Huff, E. S.	412	247
Laughlin, J. L.	413	247
Miles, W. A.	417	249
Moore, J. A.	411	247
Morgan, L. B.	415	248
Olmsted, S. J.	411	247

	<i>Plate</i>	<i>Claim</i>
Pope, S. W.	413	247
Potter, J. C.	414	247
Rastery, J. T.	413	247
Watt, G.	411	247
Weaver, W.	414	248
Wiard, E.	412	247
Wiard, E.	412	247
Williams, C.	411	247
Wyche, W. E.	413	247

*S. J. Olmsted,**Plow.**No. 42,220.**Patented Apr. 5, 1866.*

Witnesses,
Geo. C. Lambing
T. Smith

Inventor,
S. J. Olmsted
by Ally T. P. Consett

*J. A. Moore,**Plow.**No. 59,437.**Patented Nov. 6, 1866.*

Witnesses,
George W. Ellis
W. C. Clayton

Inventor,
J. A. Moore
by atty.
W. C. Clayton

G. WATT.
Plow-Handle.

No. 64,464.

Patented May 7, 1867.

Witnesses,
Geo. H. H. H. H.
W. C. Clayton

Inventor,
G. Watt
by Chas. H. H. H.

*C. Williams.**Plow.**No. 79,532.**Patented Jan. 30, 1868.*

Witnesses,
J. S. Williams
J. W. Young

Inventor,
C. Williams
by atty.
J. S. Williams

A. FRIBERG.

Plow.

No. 82,934.

Patented Oct. 13, 1868

Witnesses:
D. F. Dodge
L. Haller

Inventor
A. Friberg
by Dodge & Haller
his attys.

E. Wiard.

Side-Hill Plow.

No. 85,162.

Patented Dec. 22, 1868.

INVENTOR
E. Wiard,

WITNESSES:
Hammant & Co.
New York.

per Munn & Co.
Attorneys.

E. S. Huff.

Calibrator.

No. 91,847.

Patented Jan. 29, 1869.

Witnesses:
Chas. Engstrom
J. S. Allen

Inventor
E. S. Huff
by his attorneys
Fursted & Co.

E. Wiard,

Plow.

No. 102,071.

Patented Apr. 19, 1870.

Witnesses:
J. W. Thompson
Edgar Tate

Inventor:
E. Wiard
per Munn & Co.
Attorneys.

S. W. POPE.
Plow Handle.

No. 102,860.

Patented May 10, 1870

Witnesses
J. J. Hayes
J. H. Johnson

Inventor
S. W. Pope
per Attorney
H. W. Randall & Co.

W. E. WYCHE.
Plow Handle.

No. 108,671.

Patented Oct. 25, 1870.

WITNESSES

Charles D. Smith
Mott & Co.

INVENTOR

W. E. Wyche
per Munn & Co.
attorneys

JOHN L. LAUGHLIN.

Improvement in Attaching Handles to Plows.

No. 115,069.

Patented May 23, 1871.

Witnesses:
Julius V. Vicks
H. B. Rogers

Inventor:
J. L. Laughlin
per Attorney
The J. Sprague

J. T. RAFTERY.
Plow-Handles.

No. 138,434.

Patented April 29, 1873

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES.
Plow to handle
C. B. Smith

INVENTOR.

J. T. Raftery
per J. H. Johnson
attorney

J. C. POTTER.
Plows.

No. 140 302

Patented June 24, 1873.

Fig. 2.

Witnesses

John L. Dore
Chas. C. Peterson

Inventor

John C. Potter
per Amey & Co.
Attys

W. A. COUCH.
FLOW-HANDLE.

No. 172,394.

Patented Jan. 18, 1876.

Fig. 1

Fig. 2

WITNESSES:

C. A. Smith
A. F. Terry

INVENTOR:

W. A. Couch
BY M. W. Co.
ATTORNEYS.

W. S. BARCOCK.
FLOW AND CULTIVATOR HANDLES.

No. 174,055.

Patented Feb. 29, 1876.

Fig. 2.

Fig. 3.

Witnesses

Edmund H. Morgan
Levi S. Morgan

Inventor

William S. Barcock

W. WEAVER.
FLOW-HANDLE TIPS.

No. 187,684.

Patented Feb. 20, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES

Robert Everett
George E. Upham

INVENTOR

William Weaver.
Gilbert & Co.

ATTORNEYS.

W. B. ALLEN.
Plow.

No. 214,272.

Patented April 15, 1879.

WITNESSES:
E. A. Nottingham
Amstrong

Wm. B. Allen
BY H. A. Dwyer
ATTORNEY

W. B. ALLEN.
Plow.

No. 214,272.

Patented April 15, 1879.

WITNESSES:
E. A. Nottingham
Amstrong

Wm. B. Allen
BY H. A. Dwyer
ATTORNEY

J. H. BURGHARDT.
Plow.

No. 214,487.

Patented April 22, 1879.

WITNESSES:
J. A. West
Barnes & Co.

INVENTOR:
JOHN H. BURGHARDT,
BY
H. A. Dwyer & Co.
ATTYS.

L. B. MORGAN.
Plow and Cultivator Handles.

No. 226,535.

Patented April 13, 1880.

WITNESSES:
W. A. Nottingham
Amstrong

INVENTOR:
L. B. Morgan
BY
H. A. Dwyer & Co.
ATTORNEYS

(No Model.)

J. FINNEGAN.
Plow.

No. 236,881.

Patented Jan. 25, 1881.

Attest:
J. Burchel
J. Paul MeyerInventor:
John Finnegan
by J. B. Sprague
Att'y

(No Model.)

D. P. BIGELOW.
Plow.

No. 252,419.

Patented Jan. 17, 1882.

Attest:
A. Burchel
R. B. HalloryInventor:
Dwight P. Bigelow
by J. B. Sprague
Att'y

(Model.)

W. P. BROWN.
PLOW HANDLE.

No. 252,722.

Patented Jan. 24, 1882.

WITNESSES
W. H. Brown
H. P. BrownINVENTOR
W. P. Brown
by C. H. Brown
Att'ys

(No Model.)

L. GIBBS.
Plow.

No. 259,126.

Patented June 6, 1882.

Witnessed
Samuel H. Brown
George A. RobinsonInventor
Lewis Gibbs
by Chadford Howland
Attorney

(Model.)

F. HACKE.
PLOW HANDLE.

No. 259,133.

Patented June 6, 1882.

WITNESSES:

Wm. H. Smith
Chas. H. Smith

INVENTOR:

F. Hacke
BY *Wm. H. Smith*
ATTORNEYS.

(No Model.)

T. M. BISSELL.
PLOW HANDLE.

No. 260,642.

Patented July 4, 1882.

WITNESSES:
H. C. Smith
W. H. Smith

INVENTOR:

T. M. Bissell
BY *Wm. H. Smith*
ATTORNEYS.

(No Model.)

W. A. MILES.
ATTACHING PLOW HANDLES.

No. 267,443.

Patented Nov. 14, 1882.

WITNESSES:
Wm. H. Smith
Chas. H. Smith

INVENTOR:

Wm. A. Miles
BY *Wm. H. Smith*
ATTORNEYS.

(Model.)

J. M. CLARK.

ADJUSTABLE AND DETACHABLE HANDLE FOR PLOWS, &c.

No. 267,837.

Patented Nov. 21, 1882.

WITNESSES:
Wm. H. Smith
Chas. H. Smith

INVENTOR:

J. M. Clark
BY *Wm. H. Smith*
ATTORNEYS.

LANDSIDES.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Bacon, J.	424	260	Harding, W. E.	423	259	Reese, E.	425	260
Benton, J. F.	424	260	Holland, J. J.	426	250	Robarts, J. I.	422	259
Benton, J. F.	425	260	Humphrey, D. F.	422	259	Rouse, B. C.	423	260
Bowen, J. D.	423	259	Koffend, J.	424	260	Schram, A. C.	425	260
Burrall, T. D.	421	259	Mason, J. R.	422	259	Sprouse, W. T.	423	259
Christ, A.	421	259	Omlstead, S. J.	422	259	Van Loan, W. W.	421	259
Fitzer, J. G.	424	260	Opp, H.	425	260	Williams, S. Jr.	421	259

T. D. Burrall.

Plow

N^o 3,320

Patented Oct. 28, 1863.

A. Christ.

Plow

N^o 6,744.

Patented Sept. 18, 1864.

W. W. Van Loan.

Plow

N^o 19,391

Patented Feb. 16, 1868.

S. Williams & Co.

Plow

N^o 23,211

Patented Mar. 8, 1869.

Witnesses

H. T. Smith
W. H. Smith

Inventor

S. Williams & Co.

*J. R. Mason.**Plow,**No 34,371.**Patented Feb. 11, 1862.* Witnesses: *Charles Roberts*
*R. L. Corbin*Inventor:
James R. Mason
by *Robert J. Mason*
*Attorney**S. J. Olmsted.**Plow**No 37,939.**Patented Mar. 17, 1863.* Witnesses:
Charles Roberts
*J. Smith*Inventor:
S. J. Olmsted
by *at. Wm. D. Smith**D. F. Humphrey.**Plow.**No 46,362.**Patented Feb. 14, 1865.* Witnesses:
W. D. Smith
*James R. Mason*Inventor:
D. F. Humphrey
by *James R. Mason*
*Attorney**J. L. Roberts.**Plow.**No 59,078.**Patented Oct. 23, 1866.* Witnesses:
James R. Mason
Wm. D. Smith
Inventor:
Jas L Roberts
by *Wm. D. Smith*
Attorney

J. D. BOWEN.

Plow.

No. 66,935

Patented July 23, 1867.

Witnesses,
H. C. Norton
J. W. Bray

Inventor,
John D. Bowen

N. E. Hardin.

Plow.

No. 67,756.

Patented Aug. 13, 1867.

Witnesses
Samuel J. Burroughs
Chas. H. Brown

Inventor,
N. E. Hardin

W. T. SPROUSE.

Plow.

No. 88,253

Patented Aug. 27, 1867.

Witnesses,
Samuel J. Burroughs
Chas. H. Brown

Inventor,
W. T. Sprouse

B. C. ROUSE.

Plow.

No. 68,313.

Patented Aug. 27, 1867

Witnesses,
W. T. Sprouse
John J. H. H.

Inventor,
B. C. Rouse by
Attorney Wm. H. H.

J. BACON.
Plow.

No. 77,242.

Patented April 28, 1868.

Fig. 2.

Witnesses
Wm. A. Morgan
H. C. Aschbacher

Inventor
Jerome Bacon
per Munnell
Attorneys

J. KOPFEND.
Plow.

No. 78,293

Patented May 26, 1868.

Fig. 2.

Witnesses
H. C. Aschbacher
J. C. Lasser

Inventor
Jno. Kopfend
per Munnell
Attorneys

J. G. FETZER.
Plow.

No. 80,859.

Patented Aug. 11, 1868.

Fig. 2.

Fig. 3.

Witnesses.
H. C. Aschbacher
Edw. H. Cook

Inventor
J. G. Fetzer
By his Atty
Munnell & Co.

J. F. BENTON,
Plow.

No. 87,533.

Patented Mar. 9, 1869.

Fig. 2.

Fig. 3.

Witnesses
J. C. Lasser
Charles W. Johnson

Inventor
J. F. Benton

E. REESE.
Plows.

No. 135,363.

Patented Jan. 28, 1873.

Fig. 1.

Fig. 2.

Witnesses:
G. Mottley
Charles A. Pettit

Inventor:
E. Reese
Per [Signature] Attorney.

J. F. BENTON.
Plows.

No. 142,074.

Patented August 26, 1873.

Fig. 1.

Fig. 2.

Witnesses:
John L. Davis
Charles W. Johnson

Inventor:
James F. Benton.

H. OPP.
Plows.

No. 190,779.

Patented May 15, 1877.

Fig. 1.

Fig. 2.

WITNESSES.

[Signatures]

INVENTOR:
Harry Opp
Per [Signature] Attorney.

A. G. SCHRAM.
Plow.

No. 222,313.

Patented Dec. 2, 1879.

Fig. 1.

Fig. 2.

Attest
A. B. Smith
Charles J. Smith

Inventor:
A. G. Schram
Per [Signature] Attorney.

(No Model.)

J. J. HOLLAND.

FLOW.

No. 249,727.

Patented Nov. 15, 1881.

WITNESSES

Ed. L. Dietrich
Wm. A. Ostrander

Joseph J. Holland
 INVENTOR.
Louis Wagner

MOLE.

	<i>Plate Claim</i>		<i>Plate Claim</i>		<i>Plate Claim</i>
Adams, S.	440 275	Gillet, H.	445 276	Miller, J. C. and Clemens,	
Adair, J.	441 275	Goolman, W. P.	431 271	S. A. and G. H.	436 273
Atkinson, W. B.	443 276	Goolman, W. P.	439 274	Miller, A.	437 274
Bagley, H.	444 276	Grabo, C. G.	447 277	Miller, A.	447 277
Baker, H. F.	435 273	Green, L.	446 277	Morrison, J.	437 274
Baker, H. F.	442 275	Griffin, G. L. and Carper,		Morton, E. H.	447 277
Bates, M.	431 271	J. H.	440 275	Nevill, G. W.	450 278
" " (A. I.)	431 271	Hamilton, E. M. and Earl,		Nevison, J. and E.	430 271
Ballard, H. H. and Mc		C. N.	455 280	Parish, E. and W. Jr.	439 274
Clure, H.	445 276	Hamlet, W.	455 281	Pratt, I. C.	439 274
Barnett, J. R.	449 278	Hammer, J. A. and Gor-		Reynolds, S. H.	451 279
Bowers, A. Griggs J. H.		don, J. P.	445 276	Robbins, D. F. and Mor-	
and Wilson, J.	438 274	Hammond, A.	434 273	rison, S.	432 272
Briggs, B. B.	439 273	Hammond, A.	441 275	Roland, H. W. and	
" " (A. I.)	436 273	Hanon, J. Jr.	441 275	Forbis, E.	432 272
Bucklin, M.	433 272	Hawkins, A. B. and Pun-		Routt, A. P.	448 277
Campbell, J. J.	451 279	tenney, J.	442 275	Scott, J.	451 279
Carrington, J.	432 271	Hinckley, F. E.	538 274	Smith, R. P. and Gates,	
Case, J.	430 271	Hobson, I.	435 273	J. R.	446 277
Chamberlin, G.	448 278	Hoffhein, R.	450 278	Snyder, W. W.	452 279
Clemens, S. A.	447 277	Howell, M. A. Jr.	445 276	Sparkes, J. H.	453 280
Coil, T. G.	452 279	Hudgson, I.	442 275	Stafford, C. W.	442 275
Cole, J. and Wall, A. L. O.	429 271	Hughes, A. S.	455 281	Stripe, I.	449 278
Cornell, E.	429 271	Hussey R. and Thornburg,		Sturdevant, O.	444 276
Cox, T. S.	434 272	U. Sr.	436 273	Swift, A.	453 280
Crandall, C. U., J. H. and		Jerome H. R.	434 273	Thorn, E.	437 274
Hawkins, A.	435 273	Jones, S. F.	437 274	Tyner, W. L.	453 280
Creamer, J. and Ricards,		Jones S. F.	446 277	Voorhis, O. W., Mapes,	
T. W.	432 272	Karr, A. M.	443 275	S. H. and Voorhis, W. M.	448 278
Creamer, J.	448 277	Kazar, L.	443 276	Wall, A. L. O. Roberts, G.	
Critchett, M. H.	450 278	Kline, C. B.	452 279	and Carter, M. S.	440 275
Critchett, M. H.	451 279	Lane, J.	439 274	Wall, A. L. O. Roberts, G.	
Defenbaugh, A.	430 271	Lee, J.	435 273	and Carter, M. S.	441 275
Divelbiss, H. T. and Bras-		Lucas, D. T.	452 279	Wall, A. L. O. Roberts, G.	
field, J. S.	449 278	Marquiss A., E., C., and		and Carter, M. S.	443 276
Elmer, A.	433 272	Emerson, C.	429 271	Wasson, W. T.	455 281
Elmer, A.	434 272	Metler, J. I.	449 278	Watson, D.	430 271
Elward, J. H.	444 276	Mettler, W. J. and J. I.	453 280	Watson, A.	431 271
" " (R.)	444 276	Mettler, W. J. and J. I.	454 280	Watson, A.	433 272
Fudge, J. M., Holmes, F.		Mettler, W. J. and J. I.	454 280	Watson, A.	440 275
M. and McDonald, S.	454 280	Miller, A.	433 272	Whitcomb, G.	438 274

E. Correll
Mole Plow

N^o 3,466.

Patented Feb 28/1844.

A. E. & C. Marquis & C. Emerson
Mole Plow

N^o 4,287.

Patented Feb 19/1866.

Sheet 1. of 2 Sheets.

Cole & Wall.

Mole Plow.

N^o 6,046.

Patented Nov. 11, 1856.

Sheet 2. of 2 Sheets.

Cole & Wall.

Mole Plow.

N^o 6,046.

Patented Nov. 11, 1856.

*A. Deffenbaugh.**Mole Plow.**N^o 81,491.**Patented Sept. 14, 1858.* *J. & E. Verison.**Mole Plow.**N^o 22,194.**Patented Nov. 30, 1858.* *D. Watson.**Mole Plow.**N^o 22,522.**Patented Jan. 4, 1859.*

Witnesses,
W. H. H. H.
W. H. H. H.

Inventor,
Daniel Watson

*J. Case.**Mole Plow.**N^o 2,701.**Patented Jan. 15, 1859.*

Witnesses,
W. H. H. H.
W. H. H. H.

Inventor
James Case

*A. Watson.**Mole Plow*N^o 22,906

Patented Feb 8, 1869.

*M. Bales.**Mole Plow*N^o 22,928

Patented Feb 16, 1869

*M. Bales.**Mole Plow*N^o 248.

A. I. Patented Aug 23, 1869.

*W. P. Coolman.**Mole Plow*N^o 23,334

Patented Mar 22, 1869.

J. Carrington.

Mole Plow

N^o 23,348.

Patented Mar 29, 1869.

*Witnesses;
G. W. Green
G. W. Benjamin*

*Inventor;
J. Carrington*

Craemer & Richards.

Mole Plow

N^o 23,452.

Patented Apr 6, 1869.

*Witnesses;
H. W. Green
S. A. M. Druell*

*Inventors
J. A. Craemer
Thomas H. Richards*

Robbins & Morrison.

Mole Plow

N^o 25,609.

Patented Apr 12, 1859.

*Inventors
D. W. Robbins
Amos Morrison*

Roland & Forbes.

Mole Plow.

N^o 25,745.

Patented Apr. 19, 1859.

*Witnesses
H. W. Green
Charles L. Fisher*

*Inventor
H. W. Roland
& Forbes*

*M. Bucklin**Mole Plow**N^o 24,928.**Patented Aug 2, 1859.*

Witnesses
Francis A. Smith
John B. Smith

Inventor
Moses Bucklin

*H. Mason**Mole Plow**N^o 24,969**Patented Aug 2, 1859*

Witnesses
Wm. H. Smith
Wm. H. Smith

Inventor
H. Mason

*A. Miller**Mole Plow**N^o 26,027.**Patented Aug 9, 1859.*

Witnesses
E. W. Framson
S. A. Alexander

Inventor
Adam Miller

*A. Elmer**Mole Plow**N^o 25,274**Patented Aug 9, 1859*

Witnesses
Wm. H. Smith
Wm. H. Smith

Inventor
Asahel Elmer

I.S. Cox

Mole Plow

N^o 25,096.

Patented Aug 16, 1850.

Witnesses
John A. Miller
Henry J. Blodgett

Inventor
Henr as S Cox

A. Elmer.

Mole Plow.

N^o 25,105.

Patented Aug 14, 1859

Witnesses
E. C. ...
...

Inventor
Alfred L. Elmer

A. Hammond

Mole Plow

N^o 25,114.

Patented Aug 16, 1859

Witnesses
J. ...
Lester H. Hammond

Inventor
A Hammond

H.R. Jerome.

Mole Plow

N^o 25,121.

Patented Aug 16, 1859.

Witnesses
A. ...
H. Young

Inventor
H. R. Jerome

*J. Lee.**Mole Plow.**N^o 25,127**Patented Aug. 16, 1859* *C. V. & J. H. Chandler & H. N. Hawkins.**Mole Plow.**N^o 25,178**Patented Aug. 23, 1859*

Witnesses:
Chas. B. Ogden
Oren W. Hart

Inventors:
Cyprian V. Chandler
J. H. Chandler
H. N. Hawkins

*I. Hobson.**Mole Plow.**N^o 26,334**Patented Sep. 6, 1869*

Witnesses:
Robert C. Mottrell
John H. Haver

Inventor:
I. Hobson

*H. F. Baker.**Mole Plow.**N^o 25,616**Patented Oct. 12, 1859.*

Witnesses:
J. F. Baker
Henry F. Baker

Inventor:
H. F. Baker

E. B. Briggs

Mole-Plow

N^o 25,621

Patented Oct. 4, 1859

B. B. Briggs

Mole-Plow

No. 284

A. I. Patented June 26, 1860.

Hassey & Thornberg, Sr.

Mole Plow

N^o 25,649

Patented Oct. 4, 1859

Miller, Clements & Clements

Excavator

N^o 25,703

Patented Oct. 4, 1859

*A. Miller.**Mole Pion**N^o 26,846.**Patented Oct. 18, 1869.*

Witnesses:

A. A. Galtman,
C. W. Granzone

Inventor:

*Adam Miller**J. Morrison.**Mole Pion**N^o 26,846.**Patented Oct. 18, 1869.**Fig. 1.* *Fig. 2.* *Fig. 2.*

Witnesses:

a John Cole
W. Amos W. L. Am.

Inventor:

*John Morrison**E. Thorn.**Mole Pion**N^o 26,866.**Patented Oct. 18, 1869.*

Witnesses:
C. W. Granzone
J. R. K. K. K.

Inventor:

*Edward Thorn**S. F. Jones.**Mole Pion**N^o 26,902.**Patented Oct. 25, 1869.* *Fig. 1.* *Fig. 3.* *Fig. 4.**Fig. 2.*

G Whitcomb

Mole Plow.

N^o 25,918.

Patented Nov. 1, 1859.

Witnesses:
W. H. Clapp
J. H. Clark

Inventor:
George Whitcomb

Sheet 1, 2 Sheets

Bowers, Griggs & Wilson.

Mole Plow.

N^o 26,082.

Patented Nov. 15, 1859.

Witnesses:
J. S. Adams
J. H. Clark
J. H. Clark

Inventors:
J. S. Adams
J. H. Clark
J. H. Clark
J. H. Clark

Sheet 2, 2 Sheets

Bowers, Griggs & Wilson.

Mole Plow.

N^o 26,082.

Patented Nov. 15, 1859.

Witnesses:
J. S. Adams
J. H. Clark
J. H. Clark

Inventors:
J. S. Adams
J. H. Clark
J. H. Clark
J. H. Clark

F. E. Hunkley

Mole Plow.

N^o 26,355.

Patented Dec. 6, 1859.

Witnesses:
J. S. Adams
J. H. Clark
J. H. Clark

Inventor:
F. E. Hunkley

M. P. Goodman

Mole Plow.

Patented Dec. 13, 1859.

N° 26,426

Witnesses
 Chas. C. Fran
 J. P. Hoffman

Inventor
 M. P. Goodman

J. C. Pratt.

Mole Plow.

Patented Jan. 3, 1860.

N° 26,708.

Witnesses
 Joseph B. Smith

Inventor
 J. C. Pratt

J. Lane.

Mole Plow.

Patented Jan. 10, 1860.

N° 26,771.

Witnesses
 Wm. H. Hartman
 C. A. Melek

Inventor

John Lane

E. M. Parrish, Jr.

Mole Plow.

Patented Feb. 21, 1860.

N° 27,833

Witnesses
 Wm. H. Hartman
 John D. Adams

Inventor
 E. M. Parrish, Jr.
 By Theobald
 Hays

S. Adams.
Mole Plow.

N^o 27,283.

Patented Feb. 28, 1860.

Witnesses:
David Lowman,
John W. Downing

Inventor
Saul Adams.

Grylls & Carter.
Mole Plow.

N^o 27,285

Patented Feb. 28, 1860

Witnesses:
G. H. (Sigs),
R. H. (H. H. H.)

Inventors:
Grylls & Carter,
J. H. (Sigs),
R. H. (H. H. H.)

A. Watson.
Mole Plow.

N^o 27,324.

Patented Feb. 28, 1860.

Witnesses:
H. W. (H. W. H.),
C. (C. H. H.)

Inventor:
Augustus Watson,
per A. B. (A. B. H.)

Wall, Roberts & Carter.
Mole Plow.

N^o 27,606.

Patented Mar. 20, 1860

Witnesses:
S. B. (S. B. H.),
Geo. H. (Geo. H. H.)

Inventors:
A. B. (A. B. H.),
George Roberts,
Wm. S. (Wm. S. H.)

Hanon
Mole-Plow.

N^o 27,606.

Patented Mar. 27, 1860.

Fig. 3

Fig. 1

Fig. 2

Witnesses
to above and
signature

Inventor
James Hanon

J. HANON, Jr.

Mole-Plow.

No. 27,630.

Patented Mar. 27, 1860.

Fig. 2

Fig. 3

Fig. 1

Fig. 4

Witnesses.

J. H. Alexander
W. H. Schuman

Inventor.

James Hanon Jr.

Wall, Roberts & Carter
Mole Plow.

N^o 27,751.

Patented Apr. 3, 1860.

Witnesses

J. A. C. Tankerschmitt
Geo. H. Layman

Inventor
A. B. Wall
George Roberts
Niles S. Carter

A. Hanson
Mole Plow.

N^o 27,796.

Patented Apr. 10, 1860.

Fig. 1

Fig. 2

Witnesses
J. A. C. Tankerschmitt
R. S. Schuman

Inventor
A. Hanson
Geo. H. Layman
Niles S. Carter

*H. P. Baker,**Mole Plow.**No. 28,050**Patented May 1, 1860.*

Inventor,
H. P. Baker
Witnesses:
Geo. M. Alexander
A. J. Patterson

*Hawkins & Funtunney**Mole Plow.**No. 28,067**Patented June 12, 1860.*

Witnesses
John H. Adams
A. C. Middlecomb

Inventor
A. B. Hawkins
John Funtunney
Witnesses:
Thos. H. Dodge

*C. M. Stafford**Mole Plow.**No. 29,200**Patented Jul. 17, 1860*

Witnesses
Wm. C. Adams
A. J. Patterson

Inventor,
C. M. Stafford
per Wm. C. Adams

*I. Hodgson.**Mole Plow.**No. 29,269.**Patented Jul. 24, 1860.*

Witnesses
Wm. C. Adams
R. B. Spence

Inventor
Isaac Hodgson
per Wm. C. Adams

*A. M. Harr.**Mole Plow.*N^o 29,285

Patented Jul. 22, 1860.

Witnesses:
A. M. Harr
Wm. G. Harr

Inventor:
A. M. Harr
Wm. G. Harr
Wm. G. Harr

*L. Nazar.**Mole Plow.*N^o 29,601.

Patented Aug. 14, 1860.

Witnesses:
J. M. Harr
Wm. G. Harr

Inventor:
L. Nazar
Wm. G. Harr

WALL, ROBERTS & CARTER.

Mole Plow.

No 30,015

Patented Sept. 11, 1860.

Witnesses:
J. M. Harr
Wm. G. Harr

Inventors:
W. B. Harr
W. B. Harr
W. B. Harr

*M. B. Atkinson.**Mole Plow.*N^o 30,036.

Patented Sept. 18, 1860.

Witnesses:
J. M. Harr
Wm. G. Harr

Inventor:
M. B. Atkinson
Wm. G. Harr

*H. Bagley,**Mole Plow.**No. 30041.**Patented Sep. 18, 1860.**Fig 1* *Fig 2* *Witnesses.**J. W. Coombs
R. S. Spencer**Inventor**H. Bagley
per Munnell
Atty.**J. H. ELWARD**Mole-Plow.**No. 30 625**Patented Nov. 13, 1860.* *Witnesses:
Octavius Knight
J. C. Robbins**Inventor:**John H. Elward
by W. L. Pic R.
Att'y.**J. H. Elward
Mole Plow.**N^o 33,
1/38.**Reissued Feb. 14, 1861.* *Witnesses**Octavius Knight
J. C. Robbins**Inventor**John H. Elward
by W. L. Pic R.**O. Sturdevant.**Mole Plow.**N^o 39,659**Patented Nov. 13, 1860* *Witnesses**A. H. Potter
H. C. Woods**Inventor**Owen Sturdevant.*

H. Chisel.
Mole Plow

N^o 3113.
31,117

Patented Jan. 15, 1861.

Hammer & Gordon.
Mole Plow

N^o 3119.
31,313

Patented Feb. 6, 1861

M. A. HOWELL, Jr.
Mole-Plow.

N^o. } 313,
31,317.

Patented Feb. 5, 1861.

Ballard & McClure.
Mole Plow.

N^o 3167.
31,771.

Patented Mar. 20, 1861

L. Green.
Mole Plow

Patented Jul 11, 1861

N^o 1862
38,866

Witnesses
J. E. Smith
C. R. Knowlton

Inventor
L. Green
per J. E. Smith
Att'y

S. F. Jones.
Mole Plow

Patented Aug 27, 1861

N^o 2,145
38,149

Witnesses

Charles A. Woodward
E. L. Lloyd

Inventor
Samuel F. Jones

Smith & Gates.

Sheet 2 of 2 Sheets.

Mole Plow

N^o 34,074.

Patented Jan 7, 1862.

Witnesses

J. E. Smith
C. R. Knowlton

Inventors
R. P. Smith
J. R. Gates

Smith & Gates.

Sheet 2 of 2 Sheets.

Mole Plow

N^o 34,074

Patented Jan 7, 1862.

Fig 2

Fig 7

Fig 6

Witnesses

J. E. Smith
C. R. Knowlton

Fig 5

Inventors

R. P. Smith
J. R. Gates

*C. G. Grabe.**Mole Plow.**N^o 38,677.**Patented May 26, 1863.*

WITNESSES,
Emus Schober
J. Rohmstedt

INVENTOR,
Christian S. Grabe

*S. A. Clemens,**Mole Plow.**No. 39,118.**Patented July 7, 1863.* *E. H. Morton**Mole Plow**N^o 45,735.**Patented Jan 3, 1865.*

Witnesses,
Henry Adams
John C. Smith

Inventor,
E. H. Morton
per Thomas H. Adams

A. MILLER.

Mole-Plow.

No 59,049

Patented Oct 23 1866

Witnesses,
Edw. L. Ford
L. M. Ford

Inventor,
Adam Miller

A. P. ROUTH.
Mole Plow.

No. 61,263.

Patented Jan. 15, 1867.

Witnesses:

Chas D Smith
Thomas J Kewell

Attorney & Co
Attorneys for
Inventor.

A. P. Routh
By C. A. Smith
Clerk

J. CREAMER.
Mole-Plow Capstan

No. 62,116.

Patented Feb. 19, 1867.

Witnesses:

A. A. Smith
J. H. Brown

Inventor.

J. Creamer

Forchis, Mages & Forchis,
Tinkers.

No. 143,801.

Patented May 31, 1870.

WITNESSES

C. S. Hayken
F. A. Skinner

Oliver W. Forchis
Smith & Forchis,
Tinkers.

INVENTORS

LAWRENCE, MARSH & JONES

G. CHAMBERLIN.
Mole Plow

No. 107,162.

Patented Sept. 6, 1870.

Witnesses:

Philip M. Pooler
W. H. Hitchman

Inventor.

George Chamberlin
By J. P. Moulton
Attorney at Law

James I. Muller
Ditcher and Tile Layer

117441

PATENTED JUL. 25 1871

Witnesses:
J. R. Barnett
J. H. H. H.

James I. Muller
Inventor.
By J. H. H. H.
Attorney.

H. T. DIVELBISS & J. S. BRASFIELD.
Improvement in Ditching or Drain making Machines.
No. 123,092
Patented Jan. 30, 1872.

Witnesses:
J. H. H. H.
H. H. H.

Inventors:
H. T. Divebiss
J. S. Brasfield
By J. H. H. H.
Attorney.

J. R. BARNETT.

Improvement in Mole-Plows.

No. 128,842.

Patented July 9, 1872

Witnesses:
Scott R. Richards
W. H. H. H.

Inventor,
James R. Barnett,
By J. R. Richards,
Attorney.

I. STRIPE.

Apparatus for Laying Drain Tile.

No. 134,228.

Patented Dec. 24, 1872.

James H. H. H.
Andrew H. H.
Witnesses

Isaac Stripe, Inventor
By J. H. H. H., Attorney

2 Sheets--Sheet 2.

I. STRIPE.

Apparatus for Laying Drain Tile.

No. 134,228.

Patented Dec. 24, 1872.

Witnesses:
James H. Brown
James H. Brown

Inventor:
I. Stripe, Jr.
per Alexander
Attorney

G. W. NEVILL.

Drain Tile Laying Apparatus.

No. 136,751.

Patented March 11, 1873.

Witnesses:
G. Mearns
G. Mearns

Inventor:
George W. Nevill
per
Attorneys

M. H. CRITCHET.

Ditching and Tile Laying Machines.

No. 156,451.

Patented Nov. 3, 1874.

Witnesses:
P. B. Townsend
H. C. Smith

Inventor:
M. H. Critchet
per Alexander
Attorney

H. HOFFHEIN.

Tile-Making and Laying Machine.

No. 166,104.

Patented July 27, 1875.

Witnesses:
P. B. Townsend
H. C. Smith

Inventor:
H. Hoffhein
per
Attorneys

M. H. CRITCHET.

DITCHING AND TILE-LAYING MACHINE.

No. 173,911.

Patented Feb. 22, 1876.

J. SCOTT.

MOLE-FLOW.

No. 176,201.

Patented April 18, 1876.

Witnesses:
Edm. James
John R. Jones.

Inventor:
John Scott,
per J. B. Holmead.
ATTORNEY.

J. J. CAMPBELL.

DITCHER AND TILE LAYER.

No. 178,231.

Patented June 6, 1876.

S. H. REYNOLDS.

TILE-LAYING MOLE-FLOW.

No. 178,957.

Patented June 20, 1876.

WITNESSES:
M. H. Reynolds
John G. Gethals

INVENTOR:
S. H. Reynolds
BY M. H. Reynolds
ATTORNEYS.

D. T. LUCAS.
DITCH-DIGGING AND TILE-LAYING MACHINE.
No. 189,044. Patented July 18, 1876.

WITNESSES:

W. H. Hollingsworth
John K. Kuman

INVENTOR:

Daniel T. Lucas

ATTORNEYS.

C. B. KLINE.
LAYING DRAIN-TILES.
No. 188,149. Patented March 6, 1877.

Fig. 4

Witnesses:-

Frank P. Davis
C. T. Haverhill

Inventor:

Charles B. Kline
by C. T. Haverhill
his attorney.

T. G. COIL.
DITCHING AND TILE LAYING.
No. 188,779. Patented March 27, 1877.

Witnesses:

Mrs. Mellickin
J. B. Gardner

Inventor:

T. G. Coil

W. W. SNYDER.
FLUE DITCHER.
No. 189,667. Patented April 17, 1877.

WITNESSES:

H. H. Snyder
J. H. Scarborough

INVENTOR:

W. W. Snyder
by J. H. Scarborough
ATTORNEYS.

A. SWIFT.

DITCHING AND DRAINING MACHINE.

No. 130,096.

Patented April 23, 1877.

WITNESSES

Robert Bennett
George W. Bennett

INVENTOR

Alfred Swift
Alfred Swift
 ATTORNEYS.

W. J. & J. I. METTLER.

TILE-LAYING MACHINE.

No. 193,019.

Patented July 10, 1877.

WITNESSES

A. Rappaport
J. J. Huerfano

W. J. Mettler
J. I. Mettler
 Inventor

W. L. TYNER.

IMPLEMENTS FOR LAYING TILE.

No. 195,186.

Patented Sept. 11, 1877.

WITNESSES

John A. Tinkers
John J. Tinkers

INVENTOR

William L. Tyner
by David C. Allen
 atty.

J. H. SPARKES.

TILE-LAYING MACHINES.

No. 195,775.

Patented Oct. 2, 1877.

WITNESSES

C. A. Sparkes
J. H. Sparkes

INVENTOR

J. H. Sparkes
J. H. Sparkes

J. I. & W. J. METTLER.
Tile-Laying Machine.

No. 200,557.

Patented Feb. 19, 1878.

Fig. 1.

Fig. 2.

Witnesses:

A. R. R. R. R.
L. B. R. R. R.

W. J. S. Mettler

Inventor:

D. P. Hollaway & Co.
Attorneys

J. I. & W. J. METTLER.
Tile Laying Machine.

2 Sheets—Sheet 1

No. 201,548.

Patented March 19, 1878.

Fig. 1.

Fig. 2.

Witnesses:

A. R. R. R. R.
J. M. R. R. R.

J. I. Mettler

W. J. Mettler

Inventor:

D. P. Hollaway & Co.
Attorneys

J. I. & W. J. METTLER.
Tile Laying Machine.

2 Sheets—Sheet 2

No. 201,548.

Patented March 19, 1878.

Fig. 3.

Fig. 4.

Witnesses:

A. R. R. R. R.
J. M. R. R. R.

J. I. Mettler

W. J. Mettler

Inventor:

D. P. Hollaway & Co.
Attorneys

J. M. FUDGE F. M. HOLMES & S. McDONALD.
Ditching-Plow.

No. 209,756.

Patented Nov. 12, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 5.

Fig. 4.

Witnesses:
A. R. R. R. R.
J. M. R. R. R.

Inventors:

J. M. Fudge
F. M. Holmes
S. McDonald
By Horch & Casper
Attorneys

E. M. HAMILTON & C. N. EARL.
Apparatus for Making and Laying Continuous
Concrete-Pipe.

No. 220,757.

Patented Oct. 21, 1879.

Witnesses

Charles S. Brooks
John A. Brown

Inventors

E. M. Hamilton
C. N. Earl
By Henry H. Co. atty

(No Model.)

W. HAMLET.
Machine for Forming and Laying Continuous Drain
Pipes.

No. 231,908.

Patented Sept. 7, 1880.

Fig. 1

Fig. 2

Witnesses

Wm. D. Co.
J. L. Boone

Inventor

William Hamlet
By H. H. Co. atty

(No Model.)

W. T. WASSON.
DITCHING MACHINE.

No. 259,248.

Patented June 6, 1882.

Witnesses:

Chas. P. Wood
Sam. T. Shelly

INVENTOR:

William T. Wasson
By H. P. Wood atty

(Model.)

A. S. HUGHES.
DITCHING AND TILE LAYING MACHINE.
No. 265,085. Patented Sept. 26, 1882.

WITNESSES:

J. S. J. J. J.
H. S. J. J. J.

INVENTOR:

A. S. Hughes
BY M. S. Co.
ATTORNEYS.

MOLD-BOARDS.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Andrus, E.	464	292	Etzler, E. J.	482	298	May, J. M.	462	291
Azbill, R. I.	475	295	Faught, N.	473	295	Mead, S.	465	292
Baltzer, C. H.	476	296	Fields, J. W.	480	297	Miller, W. D.	471	294
Bard, E. M.	463	292	Fosdick, L.	470	294	Moore, G. H.	465	292
Beard, G. A.	466	293	Gaines, R. and Scott, M.	468	293	Moore, G.	467	293
Beckett, S.	466	293	Gibbs, J.	463	292	Olmsted, S. J.	466	293
Begon, L.	480	297	Gooch, J. H.	465	292	Payne, J. M.	475	295
Bell, F. R.	477	296	Hall, A.	477	296	Peacock, G.	474	295
Bell, F. R.	477	296	Hulbert, S.	462	291	Pitts, W. C.	465	292
Bergen, C.	461	291	" " (R.)	462	292	Pollock, J.	479	297
Bradley, B. C.	476	296	Jett, J. R. P.	473	295	Quin, J.	482	298
Bryan, C. M.	464	292	Kennedy, I.	471	294	Richardson, L. W.	473	295
Burton, O. F. and Hoit L.			Kennedy, J. T.	481	298	Rider, L. P.	467	293
B.	466	293	Knight, E. R.	477	296	Rider, L. P.	474	295
Butler, M.	473	295	Knox, S. A.	463	292	Sessions, F. E. and		
Canty, T.	476	296	Lafin, M. and Slosson, E.	472	295	Knox, S. A.	472	294
Carpenter, J. C.	479	197	Lane, J.	470	294	Seymour, J.	469	293
Cartwright, E.	475	295	Lane, J.	472	295	Smith, A.	462	291
Clark, J. and Yost, G. W.			Leach, S. J.	468	293	Smith, D.	470	294
N.	463	292	Lewis, C. C.	474	295	Snider, I.	461	291
Close, J. H.	480	297	Long, J.	479	297	Thom, J. W.	478	296
Colwell, W. S.	468	293	Looker, J. M.	478	296	Thompson, L. P.	480	297
Colwell, W. S.	470	294	Maddux, T. B.	481	298	Townsend, J. T.	464	292
Coreth, R.	478	297	March, T.	468	293	Trowbridge, R.	467	293
Davis, A. B.	471	294	Marsh J. S.	467	293	Tucker, A. W.	479	297
Domschke, C.	482	298	Matteson, D. C. and			Whiteley, W.	469	294
English, E. O. and Whyte,			Williamson, T. P.	475	295	Witherow, S. and Peirce, D.	461	291
R.	478	296	May, H. H.	461	291	Wooldridge, S. H.	481	268

I. SNIDER.
Plow-Moldboard.

Patented July 2, 1836.

Witherow & Peirce.

Plow Moldboard.

No. 1367.

Patented Oct 5, 1839.

Fig. 2.

C. Bergen.

Plow Moldboard.

No. 2,626.

Patented May 16, 1842.

H. H. MAY.

Plow.

No. 3,069.

Patented May 2, 1843.

A. Smith

Floor Moldboard

No 3576

Patented May 6, 1844

J. M. May

Pat.

No 4488

Patented May 2, 1846

S. Hulbert

Sheet 2 of 2, Sheet 5

Floor Moldboard Patent Sep 20, 1853

No 10,031

Reissued Jan 1, 1856

No 337

S. Hulbert

Sheet 2 of 2, Sheet 5

Floor Moldboard Patent Sep 20, 1853

No 10,031

Reissued Jan 1, 1856

No 337

E. M. Bard,

Plow,

N^o 10629.

Patented Mar. 14, 1854.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

J. Clark,

Plow.

N^o 10623

Patented Aug. 16, 1854.

Clark & Yost.

Plow.

N^o 14,224.

Patented Feb. 12, 1856.

Fig. 1.

Fig. 2.

Fig. 3.

S. A. Knox.

Plow Moldboard

Patented Oct. 14, 1856.

N^o 15,887.

Fig. 1.

Fig. 2.

Fig. 3.

*Witness
for S. A. Knox
J. W. Greenleaf*

*Master
Samuel A. Perry*

J. H. Cochr.

Plow.

N^o 28,169.

Patented May 8, 1860.

Witnesses:
J. H. Cochr.
J. H. Cochr.

Inventor:
J. H. Cochr.

W. C. Pitts.

Plow.

N^o 28,329.

Patented May 15, 1860.

Witnesses:
J. H. Cochr.
J. H. Cochr.

Inventor:
W. C. Pitts.
W. C. Pitts.

C. H. Moore.

Plow-Moldboard.

N^o 30,023.

Patented Jan. 1, 1861.

Fig. 1.

Witnesses:
J. H. Cochr.
J. H. Cochr.

Inventor:
C. H. Moore.

S. MEAD

Plow.

No. 30,048

Patented Sept. 15 1863

Witnesses:
J. H. Cochr.
J. H. Cochr.

Inventor:
Solomon Mead.

S. J. Olmsted

Plow

N^o 24. 315.

Patented Sep. 13. 1864.

Witnesses.

Bel & Son
T. Smith

Inventör:

S. J. Knicker
by M. D. Everett.

BURTON & HOIT.

Plow.

No. 51,917

Patented Jan. 9, 1866.

WITNESSES:

J. H. Fuller
Cambridge

INVENTORS:

Cisco J. Burton
L. B. Kent

S. Beckett.

Flora.

N^o 55,984.

Patented Jul. 3, 1866.

Fig: 2.

Section 2.2: $\mathcal{L}$

Witnesses
Charles Phelps
Thomas

Inventor
Solomon Beckett

C. A. Beard

Play-

N^o 67,463.

Patented Aug. 28, 1866.

Fig. 6

Fig. 2

1632

Witnesses,
J. C. Koser
R. H. Reynolds

Inventor,
George A. Burt

*J. S. Marsh,**Plow.**No. 58855.**Patented Oct. 16, 1866.**Fig 1* *Fig 2* *Fig 3*

Witnesses,
R. T. Banfield
E. S. Schaefer

Inventor,
J. S. Marsh
by Atty.
Wm. T. Allen & Co.

*L. P. Rider,**Plow Moldboard**No. 59,807**Patented Oct. 30, 1866.**Fig 1* *Fig 2* *Fig 3* *Fig 4* *Fig 5* *Fig 6*

Witnesses,
J. H. Burridge
E. C. Mark

Inventor
L. P. Rider.

*B. TROWBRIDGE,**Shovel Plow.**No. 66,267.**Patented July 2, 1867*

Witnesses,
J. S. Marsh
Wm. T. Allen & Co.

Inventor,
B. Trowbridge.

*G. MOORE**Plow Moldboard.**No. 68,102.**Patented Aug. 27, 1867**Fig 1* *Fig 2* *Fig 3* *Fig 4* *Fig 5* *Fig 6*

Witnesses,
Wm. T. Allen
In Capt. Chellum

Inventor
G. Moore
by Wm. T. Allen
for Atty.

T. March,

Making Plow-Irons

Nº 68,635.

Patented Sep. 10, 1867.

Witnesses
J. H. Smith
Chas. A. Armstrong

Inventor
T. March
By his attorney
Chas. A. Armstrong

S. J. Leach.

Plow.

Nº 72305

Patented Dec 17, 1867

Witnesses,
Thos. C. Smith
W. T. Towner

Inventor,
S. J. Leach
By his attorney
Wm. H. L. Atwood

William S. Colwell's

Impton Ploughs

73504

PATENTED
JAN 21 1868

Witnesses
J. H. Smith
Chas. A. Armstrong

Inventor, W. S. Colwell
By his attorney
Chas. A. Armstrong

74679

R. GAINES & M. SCOTT.

IMPROVEMENT IN PLOW MOULD-BOARDS.

PATENTED
FEB 18 1868

Witnesses,
Jas. R. Hayden
L. H. Smith

R. Gaines
M. Scott
Attorneys
By J. D. Gurdie
his attorney

*J. Seymour,
Mould-Board*

N^o 75,987

Patented Mar. 24 1868.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses

W. C. Green.
S. E. Gardner.

Inventor

Jos. Seymour
by Attorney
J. B. Morrill & Co.

W. Whiteley

Plow Mould-Board

N^o 78,501

Patented Jan. 12, 1868

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
J. B. Morrill & Co.

Inventor
W. Whiteley
by Attorney
J. B. Morrill & Co.

W. Whiteley

Plow Mould-Board

N^o 78,502

Patented Jan. 12, 1868

Fig. 1.

Fig. 5.

Fig. 10.

Fig. 11.

Fig. 12.

Fig. 12.

Witnesses
J. B. Morrill & Co.

Inventor
W. Whiteley
by Attorney
J. B. Morrill & Co.

W. Whiteley

Plow Mould-Board

N^o 78,503

Patented Jan. 12, 1868

Fig. 5.

Fig. 6.

Witnesses
J. B. Morrill & Co.

Inventor
W. Whiteley
by Attorney
J. B. Morrill & Co.

J. Smith

Plow

No 89,314.

Patented Oct 28, 1868

Witnesses

*W. J. Campbell
C. H. Schuyler*

Inventor

*J. Smith
By J. H. Smith
Attorney*

J. Lane

Flow Moldboard

No 82,130.

Patented Sep 16, 1868.

Witnesses;

*L. Hailer
D. T. Dodge*

Inventor;

*John Lane
By D. T. Dodge
his atty*

L. Fardick,

Plow.

No 83,703.

Patented Nov 3, 1868.

Witnesses

*G. C. Brown
Wm. L. Smith*

Inventor

*L. Fardick
By Wm. L. Smith
Attorney*

W. S. Cornell

Plow

No 88,851.

Patented Apr 13, 1869.

*Witnesses,
A. B. Smith
John F. Smith*

Inventor,

*William S. Cornell
By John F. Smith
Attorney*

*T. Kennedy.**Plow.**N^o 90,271.**Patented May 18, 1869.*

Witnesses:

H. W. B. Kelley
E. M. Rogers

Inventor.

T. Kennedy

*W. D. Miller.**Steel- & Sticks**Plow.**N^o 91,472.**Patented Jan 15, 1869.*

Witnesses:

W. J. Brown
A. J. Turner

Inventor.

W. D. Miller
per atty
R. D. Smith

*W. D. Miller.**Sticks & Sticks**Plow.**N^o 91,472**Patented Jan 15, 1869.*

Witnesses:

W. J. Brown
A. J. Turner

Inventor.

W. D. Miller
per atty
R. D. Smith

*A. B. Davis,**Plow.**N^o 93,284.**Patented Aug 3, 1869.*

Witnesses:

W. J. Brown
A. J. Turner

Inventor.

A. B. Davis

Section of Mold
Fig. 1
No. 99,516.
Patented Feb. 1, 1892.

Witnesses
John H. Dodge
Albert C. Davis

Inventors
Edw. Sessions
Samuel A. Hines

Section of Mold
Fig. 1
No. 99,516.
Patented Feb. 1, 1892.

Fig. 1

Witnesses
John H. Dodge
Albert C. Davis

Inventors
Edw. Sessions
Samuel A. Hines

Light & Shovel
Kindergarten Plows
No. 104,106.
Patented June 16, 1892.

Fig. 1

Fig. 2

Witnesses:
James C. Dutton
John H. Dodge

Inventors:
Matthew D. Taylor
Enos Stetson
By A. Crawford, atty.

J. LANE.
 Mold Board for Plow.
 No. 107,925
 Patented Oct. 4, 1870

Fig. 1

Fig. 2

Fig. 3

Witnesses
Thomas Taylor
W. A. Lupton

Inventor:
John Lane
By J. H. Dutton
Att'y.

M. Butler,

Plow.

No. 108,004.

Patented Oct. 4, 1870.

Witnesses
A. R. Phipps
Edw. C. Eide

M. Butler
Inventor
D. P. Holloway & Co.
Attys

J. A. F. Jett,

Plow.

No. 108,143.

Patented Oct. 11, 1870.

Witnesses:
J. S. Maher
Geo. W. Maher

Inventor:
J. A. F. Jett
Per M. Jett
Attorneys.

L. W. Richardson.

Plow.

No. 909,250.

Patented Mar 15, 1870.

Witnesses
Edw. Blackinton
C. C. Vance

Inventor
L. W. Richardson

N. Faight,

Plow. Mould Board.

No. 107,558.

Patented Jan. 9, 1871.

Witnesses
Wm. Wagner
Wm. H. H. H. H.

Inventor
Nelson Faight
By H. C. & H. H. H. H.
Attorneys.

L. P. RIDER.

2 Sheets--Sheet 1.

Improvement in Plow Mold-Boards.

No. 114,044.

Patented April 25, 1871.

Witnesses:

A. M. Danner
Thos. D. D. Curran

Inventor:

L. P. Rider
Per [Signature]
Attorneys.

L. P. RIDER.

2 Sheets--Sheet 2.

Improvement in Plow Mold-Boards.

No. 114,044.

Patented April 25, 1871.

Fig. 8

Witnesses:

L. P. Rider
Per [Signature]
Attorneys.

Inventor:

L. P. Rider
Per [Signature]
Attorneys.

Geo. Peacock.

Moldboard for Plows.

No. 118,551.

Patented Aug. 29, 1871.

Witnesses:

L. P. Rider
Thos. D. D. Curran

Inventor:

Geo. Peacock
Per [Signature]
Attorneys.

C. C. LEWIS.

Improvement in Plows.

No. 130,435.

Patented Aug. 13, 1872.

Witnesses:

C. C. Lewis
Per [Signature]
Attorneys.

Inventor:

Charles C. Lewis
Per [Signature]
Attorneys.

E. CARTWRIGHT.
Plows.

No. 144,255.

Patented Nov. 4, 1873.

WITNESSES

E. A. Payne
G. W. Latham

INVENTOR

E. Cartwright

J. M. PAYNE.
Plows.

No. 149,515.

Patented April 7, 1874.

WITNESSES
Phil. C. Lane
A. Bates

INVENTOR

J. M. Payne
G. W. Latham

DON C. MATTESON & T. P. WILLIAMSON.
Moldboards for Plows.

No. 151,143

Patented May 19, 1874.

WITNESSES

John L. Osborn
C. M. Rice

Don C. Matteson
T. P. Williamson
by Deane & Co.
Attys.

R. I. AZBILL
Plows.

No. 153,297

Patented July 21, 1874.

WITNESSES
Frank C. Quand
C. L. Evers

INVENTOR

R. I. Azbill

Alexander Morton
Attorneys.

R. I. AZBILL.
Plows.

2 Sheets--Sheet 2.

No. 153,297

Patented July 21, 1874.

WITNESSES:
Charles L. Quindt
to R. E. Enck.

INVENTOR:
R. I. Azbill.
Alexander H. Smith
 Attorneys.

B. C. BRADLEY.

Plows.

No. 154,119.

Patented Aug. 18, 1874.

WITNESSES:
Edw. Steel
W. Bond.

INVENTOR:
B. C. Bradley

C. H. BALTZER.

Plows.

No. 156,836.

Patented Nov. 17, 1874.

WITNESSES:
A. M. Hargraves
P. A. Graham

INVENTOR:
Charles Henry Baltzer
 per *Wm. L. ...*
 Attorneys.

T. CANTY.

Plows.

No. 158,026.

Patented Dec. 22, 1874.

WITNESSES:
A. M. Hargraves
A. F. Terry

INVENTOR:
T. C. Canty
 BY *Wm. L. ...*
 Attorneys.

F. R. BELL.
Plow.

No. 163,352

Patented May 18, 1875.

WITNESSES:
A. H. Hingrich
A. J. Tury

INVENTOR:
Francis R. Bell
BY *Mumford*
ATTORNEYS.

A. HALL.
Plow.

No. 171,477.

Patented Dec. 28, 1876.

Accut.
J. C. Bickel
J. C. Bickel

Inventor
A. H. Hall
By J. C. Bickel
Att'y

E. R. KNIGHT.
Plow.

No. 174,423.

Patented March 7, 1876

WITNESSES:
A. H. Hingrich
J. H. Hingrich

INVENTOR:
E. R. Knight
BY *Mumford*
ATTORNEYS.

F. R. BELL.
Plow.

No. 178,898.

Patented June 20, 1876.

WITNESSES:
J. C. Bickel
John Bickel

INVENTOR:
F. R. Bell
BY *Mumford*
ATTORNEYS.

J. M. LOCKER.

PLOW.

No. 189,636.

Patented April 17, 1877.

WITNESSES:

E. Wolff.
J. H. Scarborough.

INVENTOR:

J. M. Locker
BY *Mumford*
ATTORNEY.

J. W. THOM.

PLOW.

No. 191,267.

Patented May 29, 1877.

WITNESSES:

A. B. Murch
W. H. Wells.

INVENTOR:

John W. Thom

E. O. ENGLISH & N. WHYTE, dec'd.
R. WHYTE Adm'r's of J. WHYTE, Dec'd.
PLOW.

No. 194,231.

Patented Aug. 14, 1877.

ATTEST.

W. H. English
James M. Wright Jr.

E. O. English
Receives Whyte
Administration of the estate of J. Whyte dec'd.
By *James L. Norris*
Attorney.

R. CORETH.

PLOW.

No. 196,744.

Patented Nov. 6, 1877.

Witnesses:
James M. Wright Jr.
J. H. Scarborough

Inventor:
Rudolph Coreth
Witness: James M. Wright Jr.

J. POLLOCK.
Plow.

No. 201,355.

Patented March 19, 1878.

WITNESSES:

R. V. Garner
W. D. Harris

INVENTOR:
Jos. Pollock
By *30. Lehmann*

J. C. CARPENTER
Plow.

No. 201,387.

Patented March 19, 1878

WITNESSES:

Edmund N. Miller
C. Edgwick

INVENTOR:
J. C. Carpenter
BY *M. M. M.*
ATTORNEYS.

J. LONG.
Plow.

No. 207,751.

Patented Sept. 3, 1878.

Witnesses:

John Long
Paul. Taylor

INVENTOR:
John Long
By *W. L. Singleton*

A. W. TUCKER.
Plow.

No. 213,149

Patented Mar. 11, 1879.

Witnesses:

P. Dietrich
Frank Duff

INVENTOR:
Angelo W. Tucker
Per *C. H. Watson & Co.* Attorneys.

J. W. FIELDS.
Mold-Board for Plows.

No. 223,124.

Patented Dec. 30, 1879.

WITNESSES:

Chas. M. Mott
to Registrar

INVENTOR:

J. W. Fields
BY *Mum & Co.*
ATTORNEYS.

J. H. CLOSE.
Plow.

No. 223,708.

Patented Jan. 20, 1880.

WITNESSES:

Paul B. Smith
W. H. Lawrence

INVENTOR:

Jas. H. Close
Gilmore & Smith
ATTORNEYS.

L. BEGON.
Plow.

No. 227,405.

Patented May 11, 1880.

WITNESSES:

Frank A. Brooks
John A. Mott

INVENTOR:

Louis Begon
BY *D. W. Mott*
ATTORNEYS.

(d. Model.)

L. P. THOMPSON.
Plow.

No. 231,378.

Patented Aug. 17, 1880.

Attest.
G. A. Mott
C. H. White

Inventor.
Lester P. Thompson
BY *R. L. Mott*
ATTORNEYS.

(No Model.)

S. H. WOOLDRIDGE.
Plow.

No. 232,868.

Patented Oct. 5, 1880.

Fig 1.

Fig 2.

Fig 5.

Fig 3.

Fig 4.

Witnesses:

J. S. The Long,
Superintendent

Inventor:

S. H. Wooldridge
by James H. Wooldridge
Attorney

2 Sheets—Sheet 1.

I. T. KENNEDY.
Plow.

No. 234,915.

Patented Nov. 30, 1880.

Fig 1.

Fig 2.

Witnesses:

Red B. Schuch,
George Binkenburg

Inventor:

James T. Kennedy
by C. Brown & Co.,
attys.

2 Sheets—Sheet 2

J. T. KENNEDY.
Plow.

No. 234,915.

Patented Nov. 30, 1880.

Fig 3

Fig 4

Fig 5.

Fig 6.

Witnesses:

Red B. Schuch,
George Binkenburg

Inventor:

James T. Kennedy
by C. Brown & Co.,
attys.

(No Model.)

T. B. MADDUX.

PULVERIZING ATTACHMENT FOR PLOWS.

No. 247,079.

Patented Sept. 13, 1881.

Fig 1.

Fig 2.

Fig 3.

WITNESSES:

Chas. Hall
C. Binkenburg

INVENTOR:

T. B. Maddux
BY M. H. M. & Co.,
ATTORNEYS

(Model.)

C. DOMSCHKE.

PLOW.

No. 252,022.

Patented Jan. 10, 1882.

Witnesses:
 Amy F. Dicks,
 John C. Sanbridge.

Inventor:
 Charles Domschke
 by his attorneys
 Birney & Betts

(Model.)

J. QUIN.
PLOW MOLD BOARD.

No. 258,806.

Patented May 30, 1882.

WITNESSES:
 W. H. Hollingsworth,
 W. Reach

INVENTOR:
 John Quin
 BY
 Munn & Co.
 ATTORNEYS.

(No Model.)

E. J. ETZLER.

PLOW.

No. 266,121.

Patented Oct. 17, 1882.

WITNESSES:
 C. D. Gifford,
 B. V. Anderson.

INVENTOR:
 E. J. Etzler.
 BY
 Munn & Co.
 ATTORNEYS.

PLOWS.

	Plate	Claim		Plate	Claim		Plate	Claim
Adams, W.	618	358	Burns, P.	581	345	Eavenson, J. I.	650	372
Adamson, R.	658	376	Burton, W. V.	519	323	Eavenson, J. I.	657	376
Albert, E.	514	321	Butler, M.	656	376	Eberle, L. Sr., E. and L.		
Allen, W. K.	509	319	Byrd, J. A.	534	327	Jr.	643	369
Allen, R. L.	550	333	Cadenhead, J. J.	523	324	Edey, H. F.	666	380
Allen, S. L.	662	378	Canterberry, S.	535	328	Edwards, A. N.	576	343
Anthony, D.	512	320	Card, J. and Newell, G.	503	317	Eichar, P.	509	319
Atherton, G. M.	572	341	Carlson, T.	651	373	Elcock, J.	664	380
Aughe, S. S.	616	357	Case, J. I.	663	379	Elliot, J. W.	602	352
Avery, G. D.	491	409	Cassidy, R. Lamb, T. B.			Elton, C. A.	559	336
Avery, B. F.	522	324	and Vaughan, C. L.	627	362	Emerson, B. K.	637	367
Avery, B. F.	531	326	Chafee, V. M.	533	327	Emery, G. and Wilson, A.		
Avery, B. F.	559	336	Chafee, V. M.	615	358	C.	531	326
Baker, N.	498	315	Chambers, C. F.	694	348	Esterly, G.	520	323
Baker, H. F.	520	323	Chapin, T. F.	520	323	Evans, C. and O.	493	310
Ball, E.	511	320	Chapman, L.	659	377	Evans, L. G.	521	323
Ball, J.	511	320	Chapman, L.	659	377	Evarts, W. C.	559	236
Ball, E.	518	322	Chapman, L.	659	377	Farquhar, A. B.	600	351
Ball, E.	547	332	Chenoweth, R. B.	491	309	Feldhans, F.	561	337
Ball, A.	670	382	Chenoweth, R. B.	497	314	Felton, S.	494	312
Ball, A.	675	385	Chevalier, F.	624	361	Fenner, R. R.	575	343
Ball, J.	577	343	Chichester, H. S.	540	329	Fenner, R. R.	603	352
Ball, J.	570	340	Christman, A. G.	672	383	Ferguson, D. P.	641	368
Ball, E. Jr.	558	335	Christman, A. G.	660	377	Fish, J.	556	335
Barger, N. S.	669	382	Chubb, A. L.	661	378	Fleischmann, C. L.	554	334
Barry, M.	612	356	Clark, E. B.	535	328	Flippen, C. W.	631	364
Bartlett, G.	513	320	Cleasy, G.	508	319	Foster, N. H.	666	381
" " (R)	513	320	Cloud, J. C.	516	321	Forter, C.	563	338
Bates, C.	669	382	Cochran, R. F.	679	387	Foster, A. G. W.	625	361
Bates, C.	602	352	Coggeshall, W.	542	330	Fowler, J.	549	333
Beach, W.	494	312	Cole, G. W.	568	339	Frank, W.	545	331
Beam, H. T.	570	340	Condo, D.	667	381	Franklin, F. M.	574	342
Beggs, J. R.	544	331	Conklin, J. H.	514	321	Franklin, A.	581	345
Begon, L.	661	378	Cook, I. and Bever, J. T.	531	326	Franklin, F. M.	585	347
Beidler, C.	541	329	Cook, E. S.	602	352	Franklin, A. and F. M.	587	347
Beidler, C.	551	333	Cooley, W.	554	334	Freeman, I.	623	360
Beidler, C.	676	386	Cooley, S.	597	350	French, C. M.	569	340
Bell, W. N.	628	363	Cottman, T.	549	333	Fulton, D.	586	347
Belt, A. C.	560	336	Cox, C. G.	617	357	Gale, H.	584	346
Benkelman, A.	537	328	Crenshaw, J. B.	657	376	Gale, H.	615	357
Bergstresser, E. L.	560	337	Cromwell, J. and H. F.	504	318	" " (R)	615	357
Bettice, M. S.	661	378	Cromwell, H. F.	532	327	Gale, H.	642	369
Bidwell, J. C.	610	355	Cummings, J. G.	525	325	Gallatin, J.	507	318
Billing, J. O.	590	348	Cummins, A. G. and J. R.	575	343	Garrett, C. and Cottman, T.	523	324
Billups, C.	631	364	Cunningham, G. W.	537	328	Gauter, F.	655	375
Black, W.	508	319	Curtis, S.	572	341	Gaylord, C. H. and Ayers,		
Blanchard, J.	593	349	Dahl, M. K.	583	346	E. M.	622	360
Blatchly, N.	518	322	Dahl, A. K.	609	355	George, J.	548	332
Blodgett, C.	540	329	Davidson, E.	530	326	George, J.	672	384
Blomsten, B. C.	586	347	Davis, G.	493	310	Gibbs, J.	499	316
" " " (R)	586	347	Davis, J. W.	662	379	Gibbs, J.	550	333
Bogenrief, S. H. and Patti-			Dawson, W. W.	640	368	Gibbs, L.	556	335
son, W.	642	369	Deats, J.	495	313	Gibbs, G.	565	338
Bonander A. J.	603	352	" " (R)	495	313	Gibbs, R.	585	346
Bond, J. L.	592	349	Deats, J.	500	316	Gibbs, M. L.	587	347
Bowen J. D.	636	366	Deats, J.	502	317	" " " (R)	587	347
Bradley, B. C.	619	358	Deere, J.	547	332	Gibbs, M. L.	594	350
Brewer, G. T.	562	337	Dement, J.	546	332	" " " (R)	595	350
Brinly, T. E. C.	536	328	Denise, S. T.	570	341	Gibbs, L.	646	370
Brinly, T. E. C. and Dodge,			Dennett, L. B.	550	333	Gibbs, L.	648	371
J. G.	542	330	Dick, J. M.	543	330	Gill, J. L.	522	324
Brinly, T. E. C.	551	333	Dickie, R. and Johnston,			Gilliam, J. W.	577	344
" " " (R)	551	333	H. K.	585	346	Gilmer, J.	603	352
Brinly, T. E. C.	559	336	Dickson, J.	528	325	Gilmore, A.	566	339
Brinly, T. E. C.	576	343	Dietsch, E.	588	348	Gilson, T. and Martin, N.	551	333
Brinly, T. E. C.	582	345	Dodge, J. G.	561	337	Glidden, C.	553	234
Brinly, T. E. C.	588	348	Dodge, G.	550	372	Godfrey, H. C.	604	353
Brinly, T. E. C.	589	348	" " (R)	650	373	Goodyear, A.	648	372
Brinly, T. E. C.	606	353	Dolhaner, J.	498	315	Goodyear, A.	651	374
Brinly, J. L.	663	379	Downs, J. W.	601	352	Goodyear, A.	658	377
Britton, W.	593	349	Dozier, M. D.	630	364	Gordon, C. M.	585	347
Brous, T. M.	622	360	Dudley, J.	495	313	Graham, R. A.	519	323
Brown, R. A.	609	355	Dugdale, C. R. and Breed,			Grant, C. W.	560	336
Bruce, J. B.	660	377	D.	617	357	Green, L.	535	328
Buch, J.	495	313	Duncan, J. C.	557	335	Green, L.	544	331
Buchanan, J. M.	676	386	Durfee, H. B.	573	342	Green, L.	547	332
Burch, N.	605	353	Durfee, H. B.	580	345	Gregory, S.	502	317
Burns, P. H. and Mc-			" " " (R)	581	345	Greif, J. V.	557	335
Elhany, W. G.	642	369	Dutcher, J.	503	317	Grimes, C. T.	570	341

PLOWS.

	Plate Claim			Plate Claim			Plate Claim	
Grover, M.	525	325	Jory, J. W.	678	387	Meikle, T. and Coleman, B.	652	374
Grover, M.	541	329	Judd, J. L.	964	380	Meikle, T.	667	381
Gum, J. S.	664	379	Judson, A. C.	582	345	Melancon, E. D. and Ay-		
Hackman, A.	655	275	Julier, E.	533	327	rand, J. H. Sr.	668	381
Haeger, J.	543	330	Kee, C. T.	602	352	Mendenhall, M. D.	558	335
Haeger, J.	556	335	Kellogg, A. B.	614	357	Merit, R. C.	667	381
Hafner, J.	663	379	Kellogg, K.	679	387	Middleditch, J.	621	360
Haight, D. B.	515	331	Kelly, E.	496	314	Miller, T.	494	312
Haiman, E.	591	348	Kennedy, M.	597	350	" " (R)	494	312
" " (R)	591	348	Kern, I. R.	626	362	Miller, T.	499	316
Hall, S.	514½	321	Kern, I. R.	633	365	Miller, P. G.	633	365
Hall, J. S.	535	328	Kerns, H. O.	679	387	Milroy, J. W.	571	341
Hall, J. S.	568	340	Kessler, P.	659	377	Minor, J. O.	617	358
Hall, J. D.	584	346	Kessler, P.	669	382	Mitchell, H.	545	331
Hampe, A.	617	358	Killam, H.	580	345	Mitchell, J. J.	610	355
Hampe, A.	616	357	Kinney, H. R.	533	327	Mitchell, D. L. H.	613	356
Hanson, C.	678	387	Kinstler, J.	653	374	Mock, C. F.	676	386
Harper, D.	542	330	Klineline, J. W.	653	374	Moore, J.	507	319
" " (R)	543	330	Koppenheffer, C.	643	369	Moore, J. B.	508	319
Harrell, W. K.	600	351	Krog, H. Sr.	622	360	Moore, G.	564	338
" " (R)	600	351	Kuenzel, J.	612	356	Moore, G.	630	364
Harris, Z.	492	309	Lane, J. Jr.	526	325	Moorers, J.	510	319
Harris, J.	553	334	Lane, J.	591	348	Morris, D.	586	347
Hartpence, S. and Bowne,			" " (R)	591	349	Morrison, W.	517	322
J. D.	500	316	Lane, J. Jr.	593	347	Morrison, W.	541	330
Hartzell, J. S.	629	363	" " " (R)	593	349	Morrison, S. D., D. A. and		
Hartzell, C.	574	342	Lane, J.	618	358	J. B.	596	350
Hastings, P.	496	614	Lane, J.	645	370	" " " (R)	596	350
Haven, G. S.	644	369	Lane, J.	645	370	Movers, J. M. and G. W.	598	351
Heald, R. K.	678	387	Lane, J.	648	372	Meyers, S.	506	318
Heckendorn, J.	524	324	Lape, W.	540	329	Mvers, C.	619	359
Heckendorn, J.	574	342	Lauer, A. and Hartmann,			Myers, C.	632	304
Hedrick, G. T.	629	363	J.	635	366	Nash, J.	492	310
Hefley, G., Conrad, S. and			" " " (R)	635	366	Nash, J.	507	319
Wigle, J.	517	322	Laughlin, J. L.	608	354	Newbold, C.	491	309
Hege, C. A.	618	358	Lawrence, W. S.	636	366	Newbold, C.	491	309
Heiges, D.	583	345	Layman, J.	515	321	Nicholson, W.	530	326
Hendley, J. W.	632	365	Laech, S. J.	604	353	Nisbet, S.	494	312
Henry, W.	546	332	Lee, W. A.	677	386	Nitschmann, F.	644	370
Hinds, W.	546	331	Leland, A.	515	321	Nitschmann, F.	671	383
Hoagland, J. N., Cumming,			Lewis, J. W.	553	334	Norris, J. B.	609	355
H.L. and Tallman, F. G.	670	382	Liles, L. W.	636	366	Norris, J. B., Bowers, M.		
Hoke, D.	528	325	Ling, L.	646	371	M. and Dimmock, W. C.	619	358
Hoke, F. P.	677	386	Lockhart, T. S. and J. A.	537	328	Norton, J. B.	500	316
Halloway, P.	631	364	Lacklin, N.	499	316	Odell, J. K. and Little, W.		
Hoover, W. U.	571	341	Lockwood, N. S. and Winn,			S.	589	348
Horney, S. Jr.	519	323	J. D.	523	324	Ogle, W.	506	318
Howell, J., W. D. and			Long, I.	509	319	Oldendorph, J. Jr.	644	369
Sipe, J.	517	322	Long, J.	574	342	Oliver, J.	592	349
Huber, S.	632	265	Lowe, J. W.	611	356	Oliver, I.	600	351
Hubley, H. H.	623	360	McCool, W. C.	608	354	Oliver, J.	608	354
Hullert, S.	528	325	McCormick, S.	492	319	" " (R)	608	354
Hulbert, S.	569	340	McCormick, S.	493	311	Oliver, J.	632	364
Hull, N.	505	318	" " (R)	493	311	Olson, H.	618	358
Hummer, H. A.	532	333	McCormick, S.	501	316	Ormi-ton, J.	501	317
Humphrey, D. F.	542	330	McCune, W. H.	623	320	Ormi-to, J.	514	321
Hunt, L.	575	342	McKinley, J.	552	333	Ormi-ton, J.	525	324
Hunter, W. L. and Gard-			McMeekin, F. M.	624	353	Oranion, I. M.	623	460
ner, A.	518	322	McMillen, R.	504	318	Orrick, N. C.	665	380
Hunter, C. E.	645	370	McNutt, J. C. and Furman,			Osburn, O.	578	344
Ingalls, A. P.	572	341	A. B.	579	344	Osburn, O.	589	348
Ingersoll, C. B.	525	324	" " " (R)	580	344	Overshiner, G. J.	627	362
Jacobs, J.	497	314	McWane, C. P.	647	371	Pagett, W. F.	578	344
Jacques, A. C.	569	340	Mahoney, J. W.	641	368	Painter, W.	636	366
Jarrell, W.	538	328	Mann, H. F.	539	329	Palmer, L. E.	561	337
Jefferson, T. E.	640	372	Marsh, 2nd, C.	607	354	Parker, I.	555	334
Jennings, F. K.	648	371	Martin, H. A.	552	333	Parlett, J. A. and Thomp-		
Jewett, B. F.	504	318	Martin, J.	647	371	son, J.	539	329
Jinkins, J. E.	562	337	Masson, J.	667	381	Parrish, W.	601	352
Johnson, B.	497	314	Matteson, D. C. and Wil-			Paterly, J. P.	662	379
Johnson, J.	513	320	liamson, T. P.	555	334	Peacock, A. and S.	521	323
Johnson, A. W.	624	361	" " " (R)	555	334	Peck, J. A.	677	386
Johnson, W. S.	652	374	" " " (R)	555	335	Peet, R.	558	335
Jones, W. T.	532	327	Matthews, E. G.	568	340	Penning, M.	597	339
Jones, R.	543	330	Mathews, J. M.	654	374	Pentreath, J.	628	363
Jones, M. R.	590	348	May, H. H.	512	320	Peters, D. and Pauly, J. W.	556	335
Jones, H.	711	355	May, J. M.	512	320	Peter-on, G. W.	633	365
Jones, T. B.	637	367	May, E.	665	380	Pfouts, L. S.	680	387
Jones, T. F.	665	380	Meagher, E. D.	671	383	Phillips, O. F.	637	397

PLOWS.

	Plate	Claim		Plate	Claim		Plate	Claim
Phillips, O. F.	646	371	shaw, C. W.	534	327	Vernon, G. W.	678	387
Piatt, J. J.	639	367	Shunk, A. Sr.	563	338	Vertrees, J. C.	596	350
Pierpont, J.	646	332	Simonds, F.	674	384	Vincent, R.	539	326
Pinney, N. G.	666	380	Sinclear, H. B.	515	321	Wadsworth, W. S.	622	360
Plank, J.	499	316	Skinner, J. B.	557	335	Waggoner, E. M.	495	312
Platt, N.	547	332	Small, W.	502	317	Walker, W. M.	498	315
Pope, S. W.	627	362	Smith, J. C.	500	316	Walker, Wm. and M. C.	508	319
Posey, J.	639	367	Smith, M.	503	317	Walker, J.	514	321
Prentiss, S. and Flint, G.	572	341	Smith, A.	509	319	Walker, S.	532	327
Preston, A.	530	326	Smith, D. H. and E. E.	534	327	Wallace, J.	549	333
Price, W.	606	353	Smith, J.	536	328	Wallace, J.	597	351
Prouty, D. and Mears, J.	498	315	Smith, G. K. and Strasser, J.	566	339	Welsh, M. D.	612	356
Prouty, D. and Mears J.	502	317	Smith, H.	589	348	Walter, E.	611	355
Prouty, D. and Mears, J.	504	318	Smith, A. C.	590	348	Ward, S. B.	625	361
Prouty, D.	513	320	Smith, H. B. D.	599	351	Warren, J.	516	322
Prutzman, J. P., J. E. and McIntyre, J. P.	626	362	Smith, H. D.	599	351	Warren, W.	528	325
Purefoy, A. F.	674	384	Smith, J. A.	615	357	Warren, W.	537	328
Putnam, T. E.	601	352	Smith, G. E.	649	372	Washburn, H.	592	349
Quigley, T. B.	507	319	Smoot, J. Sr.	668	381	Washburn, A. W.	652	374
Quigley, T. B. and Hall, H.	511	320	Soule, S. W.	629	363	Watkins, J. T.	624	361
Quin, J.	676	318	Sparks, M. P.	607	354	Watt, G.	505	318
Rakestraw, Y.	571	341	Speer, W. W.	629	363	Watt, G.	524	324
Rall, W.	601	352	Speer, W. W.	655	375	" " [R]	524	324
Ream, G. W.	588	348	Speer, W. W.	656	376	Watt, G.	526	325
Reancy, W.	529	226	Spiehlman, G.	562	337	" " [A I]	527	325
Reed, J. W.	605	353	Sprague, H.	519	322	" " [R]	527	325
Reese, G. and P.	644	369	Spratt, W. S.	548	332	" " [R]	527	325
Reich, J.	634	366	" " [R]	548	332	Watt, G.	564	338
Renak, F.	612	356	Sprouse, W. T.	501	317	" " [R]	564	338
Reynolds, I.	521	323	Stansbury, T. A.	550	333	Wait, G.	576	343
Rich, J.	516	322	Starke, P. H.	536	328	Watt, G.	600	978
Rich, J.	524	324	Starke, P. H.	568	340	Watson, W. M.	604	353
Richards, M. and Vandegrift, J.	554	334	Starke, P. H.	571	341	Weaver, A.	594	349
" " " " (R)	554	334	Starke, P. H.	595	350	Weed, C. A.	643	369
Richard, A.	670	382	Starnes, S. S.	606	353	Westcott, N.	609	355
Rigell, M.	582	345	Stem, H.	563	338	Wharton, G.	584	346
Riggan, J. H.	641	369	Stephenson, W.	577	343	Wheatley, R. J.	583	346
Ringen, G.	563	338	Stewart, S. M.	628	363	White, C.	567	339
Ringen, G.	620	359	Stoker, N. W.	592	349	White, L. B.	606	353
Roberts, S. I.	510	320	Story, J. T.	542	334	White, M. F.	613	356
Robinson, N.	497	314	Straight, H. D.	594	349	White, L. B.	620	359
Robinson, N.	579	344	Stridde, F.	624	360	White, L. B.	620	359
Robinson, J. S. and E. C.	658	376	Stridde, F.	614	357	White, L. B.	675	385
Robinson, J. S. and E. C.	670	383	Swartz, D.	647	371	Whitehurst, R. W.	661	378
Rockwood, L. O.	557	335	Swartz, D.	518	322	Whiting, E. G.	503	317
Roden, A.	536	328	Swartz, D. and S.	520	323	Whiting, E. G.	549	332
Rogers, H. D.	539	329	Sweeny, R.	493	311	Whiting, E. G.	630	363
Roles, R.	584	346	Sweitzer, J.	538	329	Wiard, T.	505	318
Rose, M. P.	595	350	Swenson, N., Lindquist J. S. and Hedlund, C.	669	382	Wiard, T.	529	326
Ross, M.	620	359	Tavcnner, E. C. and Nesmith, O.	521	323	Wiard, E.	573	342
Ross, M.	645	370	Taylor, C. B.	496	313	" " [R]	573	342
Ross, M.	674	384	Taylor, A.	496	314	Wiard, E.	578	344
Ruch, G. W.	610	355	Taylor, H.	501	317	Wiard, E.	578	344
Ruch, J.	633	365	Taylor, A.	510	319	Wiard, E.	595	350
Rulofson, I.	529	326	Taylor, A. C.	510	319	Wiard, E.	607	354
" " (R)	530	329	Teague, A.	673	384	Wiard, E.	613	356
Rulofson, I and DeGarmo, D.	539	329	Teague, A.	505	318	Wiard, G. and T.	621	359
St John C.	553	334	Teague, A.	579	344	" " [R]	621	359
Salsbury, G. M. and G. S.	544	331	Teague, A.	506	318	Wiard, G. and T.	625	361
Sample, J. R.	621	359	Teague, A.	579	344	Wiard, E.	634	365
Sanders, N.	671	383	Teague, A.	579	344	Wiard, H.	639	368
Sanford, T.	527	326	Teague, A.	526	325	" " [R]	640	368
Sayer, S. D.	583	346	Thompson, S. R.	573	341	" " [R]	640	368
Seaman, J.	638	367	Thomson, R. B.	634	365	Wiard, E.	654	375
Seaman, J.	652	374	Tingley, J. M.	611	355	Wiard, E.	654	375
Selick, H.	580	345	Titus, W. D.	566	339	Wiard, G.	673	384
Selick, H.	605	353	Tomlinson, J.	545	331	Wiard, G. and Hough, C. W.	628	362
Saylor, B.	516	322	Towers, W. M.	635	366	Wiard, G. and Hough, C. W.	634	366
Shaffer, L. W.	541	329	Towers, W. M.	639	368	Wiard, H. and Bullock, W. R.	656	375
Shearer, S.	411	320	Urie, J.	56	339	Wiard, H. and Bullock, W. R.	663	379
Shelton, G.	599	351	Urie, J. Sr.	649	372	Wilder, W. H.	650	372
" " (R)	599	351	Utley, G.	569	340	Wilder, C. O.	653	374
Shepard, J.	575	343	Vandegrift, J.	561	337	Wilder, C. O.	655	375
Shickel, J.	627	362	" " [R]	562	337	Wilkins, C.	567	339
Shipp, J. W. and Cren-			Vandegrift, J.	673	384	Williams, W. B.	531	326
			Vaughan, S. O.	533	327			
			Vaughn, J. B.	538	329			

PLOWS.

	<i>Plate Claim</i>	
Willson, F. R.	598	351
Wilson, L. S.	596	350
Wimpee, G. W. and W. F.	643	369
Winslow, T.	548	332
Winston, R. B.	526	325
Witherow, S.	512	320
Wolf, L.	538	328
Wolf, D.	666	380
Wood, J.	492	310
Wood, D. and Byington, A.	534	327

	<i>Plate Claim</i>	
Woodcock, B.	510	320
Woodward, J.	517	322
Woodward, L. E.	651	373
Woodward, L. E.	657	376
Wright, A.	582	345
Wright, S. D.	614	356
Wright, J. W.	624	361
Wyche, W. E.	522	324
Wyche, W. E.	522	324
Wyman, G. D.	605	353

	<i>Plate Claim</i>	
Yeager, W. F.	532	327
Yeiser, E.	641	368
Yocom, J.	615	357
Yost, G. W. N.	544	331
Yost, G. W. N.	545	331
Yost, W.	597	351
Young, W. B.	567	339
Zeigler, G. W.	523	324

C. NEWBOLD.

Plow.

Patented June 26, 1797.

C. NEWBOLD.

Plow.

Patented June 26, 1797.

R. B. CHENOWETH.

Plow.

Patented Nov. 26, 1898.

G. D. AVERY.

Plow.

Patented Dec. 28, 1818.

S McCORMICK

Plow

Patented Feb. 3, 1819.

Z HARRIS

Plow

Patented Mar. 17, 1819.

J. WOOD.

Plow.

Patented Sep. 1, 1819.

J. NASH

Plow.

Patented Oct. 11, 1823

C. & O. Evans.

Plow.

Patented Apr 14, 1826

C. Davis.

Plow

Patented Oct 1, 1826.

S. McCORMICK

Plow

Patented Jan 28 1826

Reissued Oct 22 1828

R. SWEENEY.

Plow.

Patented May 18, 1827.

W. BEACH.

Plow.

Patented June 27, 1827.

T. MILLER.

Plow.

Patented Oct. 23, 1829.

*S. Misset.**Plow.**Patented May 25, 1830.*

S. FELTON.

Plow.

Patented Nov. 1, 1830.

E. M. WAGGONER.

Plow.

Patented Jan. 12, 1831.

J. DEATS.

Plow.

Patented Dec. 28, 1831.

No 70. Issued May 16, 1845

J. DUDLEY.

Plow

Patented May 6, 1832.

J. BUCH.

Plow.

Patented Dec. 28, 1832.

C. B. TAYLOR.

Plow.

Patented Aug. 23, 1833.

E KELLY

Plow

Patented Aug. 28, 1833

P. HASTINGS.

Plow.

Patented Dec. 19, 1833.

A. TAYLOR.

Plow.

Patented Dec. 26, 1833.

R. B. CHENOWETH.

Plow.

Patented Mar. 17, 183

J. JACOBS.

Plow

Patented July 8, 1831

H. Robinson

Plow

Patented Feb. 13, 1835

B. JOHNSON.

Plow

Patented Feb. 20, 1835

N. BAKER.

Plow

Patented Mar. 24, 1835.

W. M. WALKER.

Plow.

Patented Oct. 6, 1835.

J. DOLHANER

Plow

Patented Jan. 15, 1836.

Prosser & Mearns.

Plow. Patented May 4, 1836.

N. LOCKLIN.

Plow.

Patented Apr. 28, 1836.

J. PLANK.

Plow.

Patented June 2, 1836

J. GIBBS.

Plow.

Patented June 16, 1836.

T. Miller

Plow

Patented July 2, 1836.

HARTPENCE & BOWNE.

Plow.

No. 259.

Patented July 5, 1837.

J. C. SMITH.

Plow.

No. 260.

Patented July 11, 1837.

J. B. NORTON.

Plow.

No. 273.

Patented July 17 1837.

J. DEATS.

Plow.

No. 327.

Patented July 31, 1837.

S. McCORMICK.
Plow.

No. 501

Patented Dec. 1, 1837

W. T. SPROUSE.
Plow.

No. 604.

Patented Feb. 15, 1838.

J. ORMISTON.
Plow.

No. 638

Patented Mar. 17, 1838

H. TAYLOR.
Plow.

No. 743.

Patented May 17, 1838.

PROUTY & MEARS.

Plow.

No. 922.

Patented Sept. 15, 1838.

S. GREGORY.

Plow.

No. 1,008.

Patented Nov. 14, 1838.

J. DEATS.

Plow.

No. 1,019.

Patented Nov. 26, 1838.

W. SMALL.

Plow.

No. 1,133.

Patented Apr. 23, 1839.

E. G. WHITING.

Plow.

No. 1,232.

Patented July 11, 1839.

J. DUTCHER

Plow

No. 1,360

Patented Oct. 9, 1839.

CARD & NEWELL

Plow.

No. 1,401.

Patented Nov. 9, 1839.

M. SMITH.

Plow.

No. 1,482.

Patented Jan. 28, 1840.

B. F. JEWETT.

Plow.

No. 1,976.

Patented Feb. 12, 1841.

PROUTY & MEARS.

Plow.

No. 2,132.

Patented June 16, 1841.

J. & H. F. CROMWELL.

Plow.

No. 2,274.

Patented Sept. 25, 1841.

R. McMILLEN.

Plow.

No. 2,389.

Patented Dec. 14, 1841.

C. Watt.

Model - 2 Sheets

Plow.

N^o 2,548

Patented for 11, 1842.

Fig. 1

C. Watt.

Second Sheet

Plow.

N^o 2,548.

Patented for 11, 1842.

Fig. 2

T. WIARD.

Plow.

No. 2,557.

Patented Apr. 16, 1842.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

N. Hull.

Plow.

N^o 2,620.

Patented May 12, 1842.

Fig. 1

S MYERS

Plow

No. 2,712.

Patented July 11 1842

J. S. TEFFT.

Plow.

No. 2,762.

Patented Aug. 25, 1842.

A. TEAGUE.

Plow.

No. 2,998.

Patented Mar. 10, 1843.

W. Ogle.

Plow

No. 3,034.

Patented Apr. 6, 1843

J. Callahan.
Plow.

No. 3,062.

Patented Apr. 16, 1843.

J. NASH
Plow.

No. 3,110.

Patented May 26, 1843

T. B. QUIGLEY.
Plow.

No. 3,137.

Patented June 14, 1843.

J. MOORE
Plow

No. 3,193

Patented July 22 1843

*W. Black.**Plow**N^o 3,269**Patented Sep. 14, 1843.* *C. Olney.**Plow**N^o 3,266.**Patented Sep. 14, 1843.* **W. & M. C. WALKER.***Plow.***No. 3,311.****Patented Oct. 20, 1843.** **J. B. MOORE***Plow***No. 3,362****Patented Nov. 24, 1843**

P. Elchar.

Plow.

No. 3,372.

Patented Feb. 6, 1848.

W. K. ALLAN.

Plow.

No. 3,416.

Patented Jan. 31, 1844

I. LONG.

Plow.

No. 3,485

Patented Mar. 9, 1844

A. SMITH.

Plow.

No. 3,579.

Patented May 10, 1844.

J. MOORE'S.

Plow.

No. 3,614.

Patented July 1, 1844.

A. TAYLOR.

Plow.

No. 3,864.

Patented Dec. 19, 1844.

B. WOODCOCK.

Plow.

No. 3,898.

Patented Jan. 31, 1845.

S. J. ROBERTS.

Plow.

No. 3,913.

Patented Feb. 12, 1845.

Witnesses.

Samuel C. Allen,
Jesse Brown.

Inventor.

S. J. Roberts

E. BALL

Plow.

No. 3,918

Patented Feb. 20, 1845

S. SHEARER.

Plow.

No. 4,112.

Patented July 14, 1845

QUIGLEY & HALL.

Plow.

No. 4,222.

Patented Oct. 7, 1845.

E. BALL

Plow.

No. 4,263

Patented Nov. 8, 1845

S. WITHEROW.

Plow.

No. 4,465.

Patented Apr. 18. 1846.

H. D. MAY

Plow

No. 4,482

Patented Apr. 25. 1846

J. M. MAY.

Plow

No. 4,493

Patented May 2. 1846.

D. ANTHONY.

Plow.

No. 4,549

Patented May 30. 1846.

M. J. W. 1846
 David W. 1846
 William Allen

In order
 David W. 1846

J. Johnson.
Plow.

No. 552.

Patented May 30 1846

D. PROUTY.
Plow.

No. 4,928.

Patented Jan. 13, 1847.

G. BARTLETT.
Plow.

No. 4,976.

Patented Feb. 20, 1847.

G. BARTLETT.
Plow.

No. 125.

Reissued Nov. 7, 1848.

J. H. CONKLIN

Plow.

No. 4,980

Patented Feb. 27, 1847.

E. ALBERT

Plow.

No. 4,995

Patented Mar. 6, 1847

J. WALKER.

Plow.

No. 5,164

Patented June 19, 1847.

J. ORMISTON.

Plow.

No. 5,750.

Patented Sept. 5, 1848.

D. B. HAIGHT.

Plow

No. 5,981

Patented Dec. 26, 1848

A. LELAND

Cultivator

No. 5,998

Patented Jan. 2, 1849

J. Layman.

Plow

No. 5,999.

Patented Jan. 9, 1849.

H. B. SINCLEAR.

Plow.

No. 6,020.

Patented Jan. 9, 1849.

J. C. CLOUD.

Plow.

No. 6,100.

Patented Feb. 6, 1849.

J. RICH.

Plow.

No. 6,611.

Patented July 31, 1849.

J. WARREN.

Plow.

No. 6,620.

Patented July 31, 1849.

B. SEYLER.

Plow.

No. 6,788.

Patented Oct. 16, 1849.

J. & W. D. Howell & J. Sire.

Plow

No 7,021.

Patented Jan. 15, 1850.

W. Morrison.

No 7,666. Plow Patented Sep. 7, 1850.

Heffley, Conrad & Wigle.

Plow

No 7,994.

Patented Mar. 26, 1861.

J. Woodward.

Plow

No 8,794.

Patented Mar. 9, 1862.

*E. Ball**Plow**No 8819.**Patented Mar 23, 1862.* *J. Swartz**Plow.**No 9061.**Patented June 22, 1862.* **N. BLATCHLY.****Plow.****No. 9,129****Patented July 20, 1852.** **HUNTER & GARDNER.****Plow.****No. 9,362.****Patented Oct. 26, 1852.**

H. SPRAGUE.

Plow.

No. 9,473.

Patented Dec. 14, 1852.

S. Horney,
Plow,

No. 9,646.

Patented June 1, 1853.

W. V. BURTON.

Plow.

No. 9,875.

Patented July 26, 1853.

R. A. GRAHAM.

Plow.

No. 10,069.

Patented Oct. 4, 1853.

T. F. CHAPIN.

Plow.

No. 11,356.

Patented July 25, 1854.

D. & S. SWARTZ.

Plow.

No. 11,575.

Patented Aug. 22, 1854.

H. F. BAKER.

Plow

No. 11,821.

Patented Oct. 24, 1854.

G. ESTERLY.

Plow Standard.

No. 12,381.

Patented Feb. 13, 1855.

I. Reynolds.

Plow.

No. 12,398

Patented May 13, 1855.

TAVENNER & NESMITH.

Plow.

No. 12,838.

Patented May 8, 1855.

L. G. EVANS.

Plow.

No. 13,082.

Patented June 19, 1855.

Witnesses
W. J. Evans
J. J. Allen

Inventor
L. G. Evans

A. & S. PEACOCK.

Plow.

No. 13,228.

Patented July 10, 1855.

J. L. CILL

Plow.

No. 13,493.

Patented Aug. 25, 1855.

B. F. AVERY

Plow.

No. 13,044.

Patented Jan. 8, 1856.

W. E. WYCHE.

Plow.

No. 14,075.

Patented Jan. 8, 1856.

W. E. WYCHE.

Plow.

No. 14,233.

Patented Feb. 26, 1856.

W. W. Anderson
Plow
No. 4,846 *Patented May 4, 1856.*

G. W. ZEIGLER.
 Plow.
 No. 14,989. *Patented May 27, 1856.*

GARRETT & COTTMAN
 Plow.
 No. 15,039. *Patented June 3, 1856.*

LOCKWOOD & WINN
 Plow.
 No. 15,137. *Patented June 17, 1856.*

J. RICH.
Plow.

No. 15,344.

Patented July 15, 1856.

G. Watt.

Plow.

No. 16,218.

Patented Dec. 9, 1856.

G. Watt.

Plow.

No. 506.

Reissued Nov. 10, 1867.

J. HECKENDORN.

Plow.

No. 16,277.

Patented Dec. 23, 1856.

J. ORMISTON

Plow

No. 17,476

Patented June 2, 1857.

C. R. INGERSOLL

Plow

No. 17,577

Patented June 16, 1857

WITNESSES:

Wm. H. Weston
Charles B. Ingersoll

INVENTOR:

Charles B. Ingersoll

M. GROVER

Plow

No. 18,335

Patented Oct. 6, 1857

J. G. CUMMINGS

Plow

No. 18,682

Patented Nov. 24, 1857

Wm. F.
Constructive Plows

R. B. WINSTON.
Plow.

No. 19,783.

Patented Dec. 1, 1857.

T. THOMPSON.
Plow.

No. 19,163.

Patented Jan. 19, 1858.

G. WATT.
Plow.

No. 19,321.

Patented Feb. 9, 1858.

C. Watt

Plow

No. 246.

J. J. Remondet, New York

Witnesses
E. R. R. R.
W. R. R. R.

Inventor
C. Watt

G. WATT.

Plow.

No. 790.

Reissued Aug. 2, 1859.

G. WATT.

Plow.

No. 3,071.

Reissued Aug. 4, 1868.

T. SANFORD.

Plow.

No. 19,455.

Patented Feb. 23, 1858.

D. HOKE

Plow

No. 19,563.

Patented Mar. 9, 1855.

W. WARREN

Plow.

No. 20,968.

Patented July 20, 1858.

Witnesses

J. D. Appleton
J. D. Appleton

Inventor

W. Warren

S. HULBERT.

Plow.

No. 21,423.

Patented Sept. 7, 1858.

J. DICKSON.

Plow.

No. 21,824.

Patented Oct. 19, 1858.

W. REANCY.
Plow.

No. 21,846.

Patented Oct. 19, 1858.

J. Ward

No. 22,832. Patented Dec. 14, 1858.

R. VINCENT.
Plow.

No. 22,389.

Patented Dec. 21, 1858.

J. Robinson

Plow

No. 23,116 Patented May 18, 59

Witnesses:
Charles H. H. H.
H. H. H. H.

Inventor:
J. Robinson

J. Rulphson

No 863 Plow Patent May 13, 1869

E. Davidson

No 23,904 Plow Patent May 10, 1869

W. H. Hutton

No 23,938 Plow Patent May 10, 1869

A. P. Patten

No 24,063 Plow Patent May 17, 1869

Witnesses
H. W. Hutton
B. S. Wagner

Inventor
A. P. Patten

Cook & Bever

Plow

N^o 24,617

Patented Jul 5, 1854

Witnesses

W. B. B. B. B. B.
H. C. Young

Inventors

John P. B. B. B.
Spac. B. B. B.
By John B. B. B.

W. E. Williams

Plow

N^o 25,463

Patented Sep 13, 1860

Witnesses

W. B. B. B. B.
J. B. B. B. B.

Inventor

W. E. Williams

Emery & Wilson

Plow

N^o 26,817

Patented Oct 10, 1859

Witnesses

Mark Wood
Silvest. F. Wood

Inventor

Emery & Wilson.
Aaron C. Wilson.

B. F. Avery

Plow

N^o 26,873.

Patented Oct 25, 1859

Witnesses

H. B. B. B. B.
B. B. B. B. B.

Inventor

B. F. Avery

M. T. Jones,

Plow.

No. 26,111.

Patented Nov. 13, 1859.

Fig. 1.

Fig. 2.

WITNESSES:
R. D. G. L. L.
M. T. Jones

INVENTOR:
M. T. Jones

M. F. Vazger,

Plow

No. 26,390.

Patented Feb. 6, 1869.

Fig. 1

Fig. 2

S. Walker,

Plow.

No. 26,633

Patented Dec. 27, 1859.

Fig. 1

Fig. 2

Witnesses

J. D. G. L. L.
S. Walker

Inventor

S. Walker

H. F. Cromwell,

Plow

No. 26,655.

Patented Jan. 3, 1860.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses
J. D. G. L. L.
H. F. Cromwell

Inventor
H. F. Cromwell

H. K. Kinney,

Plow.

No. 26682.

Patented Jan. 3, 1860.

J. M. Chappin,

Plow.

No. 26833.

Patented Jan. 17, 1860.

S. O. Vaughan,

Plow.

No. 27322.

Patented Feb. 28, 1860.

J. M. Chappin,

Plow.

No. 27460.

Patented Feb. 13, 1860.

*D. H. & E. E. Smith.**Plow**Nº 27,746.**Patented Apr. 3, 1860.* *J. A. Egan.**Plow**Nº 28,764.**Patented May 1, 1860.* *Wood & Brynston.**Plow**Nº 28,323.**Patented May 16, 1860.* *Shipp & Cranshaw.**Plow**Nº 28,907.**Patented Jan. 26, 1860.*

E. B. Clark
Plow

Nº 29,139

Patented Jan. 17, 1860.

Witnesses,
R. A. Spencer
J. B. Correll

Inventor,
E. B. Clark,
per Munn & Co.
Attorneys.

E. B. Clark
Plow

Nº 29,162.

Patented Jan. 17, 1860.

Witnesses:
High Young
John Howard

Inventor,
E. B. Clark,
per Munn & Co.
Attorneys.

S. Canterbury
Plow

Nº 29,569.

Patented Aug. 14, 1860.

Witnesses,
John M. West
S. C. Skiff

Inventor,
Samuel Canterbury

J. S. Hall
Plow,

Nº 29,591.

Patented Aug. 14, 1860.

Witnesses,
John M. West
S. C. Skiff

Inventor,
John S. Hall
per A. B. Livingston
attorneys.

I. Smith.

Plow

N^o 29,620

Patented Aug. 4, 1860.

P. F. Stuart.

Plow

N^o 29,726

Patented Aug. 21, 1860

A. Reeder.

Plow

N^o 29,823

Patented Aug. 28, 1860.

T. E. C. Brinley.

Plow

N^o 29,838

Patented Sep. 4, 1860.

G. W. Cunningham

Plow

No 30,126.

Patented Sep 26, 1860.

Witnesses,
Anderson & Allen
[Signature]

Inventor,
G. W. Cunningham
by *[Signature]*
Attorneys

W. Warner

Plow

No 30,170

Patented Sep 26, 1860

Witnesses
[Signature]
[Signature]

Inventor
Walter Warner

A. Benkelmann.

Plow.

No 30,712.

Patented, Nov. 27, 1860.

Witnesses
[Signature]
[Signature]

Inventor
A. Benkelmann
by *[Signature]*
Attorneys

T. S. & J. F. Lockhart

Plow

No 30,740

Patented Nov 27, 1860

Witnesses:
[Signature]
[Signature]

Inventors
[Signature]
[Signature]
by *[Signature]*
Attorneys

E. Mearns
Plow.

No. 132
3/1860

Patented Jan. 16, 1861

W. Jarrell
Plow.

No. 168
3/1862

Patented Jan. 28, 1861

J. Sweitzer
Plow.

No. 190
3/1864

Patented Jan. 22, 1861

E. Vaughan
Plow.

No. 358
3/1862

Patented Feb. 5, 1861

H. D. Rogers,

Plow.

*No 403,
21,407.*

Patented Feb. 12, 1861.

*Witnesses:
Geo. N. Tolhurst
Charles B. Rogers*

*Inventor:
Henry D. Rogers*

Ruliffson & DeGarmo

Plow.

*No 673,
3,677.*

Patented Mar. 12, 1861

*Witnesses:
John J. Bouma
L. A. Hughes*

*Inventors:
Isaac Ruliffson
Garud DeGarmo*

Parlett & Thompson.

Plow.

*No 899,
31,903.*

Patented Apr. 2, 1861.

*Witness
E. P. Arnold*

*Inventors
John A. Parlett
Deborah Thompson*

H. F. Mann

Plow

*No 1069,
32,073*

Patented Apr. 16, 1861

*Witnesses
John J. Bouma
L. A. Hughes*

*Inventor
Henry F. Mann*

W. LAPE

2 Sheets—Sheet 1

Plow.

No. { 1,662, }
32,666 }

Patented June 26, 1861.

W. LAPE

2 Sheets—Sheet 2.

Plow.

No. { 1,662, }
32,666 }

Patented June 26, 1861.

C. BLODGETT.

Plow

No. { 1,742, }
32,746 }

Patented July 9, 1861.

H. S. CRICHESTER.

Plow.

No. { 1,972, }
32,976 }

Patented Aug 6, 1861.

L. W. SHAFFAR.

Plow.

No. { 2,902.
33,906. }

Patented Dec. 10, 1861.

Witnesses:

N. Miller.
J. Hayes

Inventor.

L. W. Shaffar.

M. Grover.

No. 34,092. Plow. Patented Jan. 7, 1862.

Witnesses:

S. Franklin Peigan.
C. H. Bay

Manuel Grover

C. BEIDLER.

Plow.

No. 34,191.

Patented Jan. 21, 1862.

Witnesses:

J. W. Bonds.
A. M. Longfellow.

Inventor.

Charles Beidler
per Wm. D. S.
Hayes

W. MORRISON.

Plow.

No. 34,262.

Patented Jan. 28, 1862.

Witnesses:

J. W. Bonds.
Wm. D. S. Hayes

Inventor.

William Morrison
per Wm. D. S. Hayes

D. F. HUMPHREY

Plow.

No. 36,004

Patented July 29 1862

Witnesses.

*W. C. Brown,
Geo. Reed*

Inventor.

*D. F. Humphrey
per M. H. C. Allen*

BRINLEY & DODGE.

Plow.

No. 36,135.

Patented Aug 12. 1862.

Witnesses,
*L. H. Smith
Geo. Reed*

Inventors,
*L. H. Dodge
J. C. Moody
by L. H. Dodge & Co.*

W. COGGESHALL

Plow

No. 35,416

Patented May 27 1862

Witnesses.
*W. C. Brown,
Geo. Reed*

Inventor.

*W. Coggeshall
per M. H. C. Allen*

D. HARPER

Plow.

No. 36,711

Patented Oct. 21. 1862

WITNESSES:
*W. C. Brown,
Geo. Reed*

INVENTOR:
*Daniel Harper
per M. H. C. Allen*

T. Kapter,
Plow.

No. 3736.

Reissued Aug. 2. 1866.

WITNESSES
McDonald
McDonald

INVENTOR.
Thomas Kapter
per Messrs H.C.

R. JONES

Plow

No. 37,626

Patented Feb. 10. 1863

WITNESSES
McDonald
McDonald

INVENTOR.
R. Jones
per Messrs H.C.

J. M. DICK

Plow.

No. 37,740.

Patented Feb. 24. 1863

WITNESSES
McDonald
McDonald

INVENTOR.
James M. Dick

J. HAEGE

Plow.

No. 38,478.

Patented May 12. 1863.

Witnesses.
McDonald
McDonald

INVENTOR.
J. Haege
per Messrs H.C.

L. GREEN.

Plow.

No. 38,581

Patented May 19, 1863.

WITNESSES:

A. S. B.
J. C. B.

INVENTOR:

L. Green

J. R. BEGGS

Plow

No. 38,803

Patented June 9, 1863.

WITNESSES:
J. R. B.
J. C. B.INVENTOR,
J. R. Beggs
per J. R. B.
J. C. B.

G. M. & G. S. SALSBUURY.

Plow.

No. 39,425.

Patented Aug. 4, 1863.

WITNESSES:

J. R. B.
J. C. B.

INVENTOR.

G. M. & G. S. Salsbury
by J. R. B. & J. C. B.

G. W. N. YOST.

Plow.

No. 39,536.

Patented Aug. 11, 1863.

WITNESSES:

J. R. B.
J. C. B.

INVENTOR.

G. W. N. Yost
per J. R. B.
J. C. B.

C. W. Voss

Plow

No. 39,637

Patented Aug. 11, 1863

Witnesses:

*Shuffler
John G. Budge*

Inventor:

*C. W. Voss
per Atty.
Chas. C. Voss*

W. FRANK.

Plow

No. 39,639

Patented Aug. 25, 1863.

Witnesses
*McCombs
Ed. Reed*

Inventor
*Wm. Frank
per Atty. C. C. Voss*

H. MITCHELL.

Plow

No. 39,741

Patented Sept. 1, 1863

Witnesses
*McCombs
Ed. Reed*

Inventor
*Henry Mitchell
per Atty. C. C. Voss*

J. TOMLINSON.

Plow.

No. 41,407.

Patented Jan. 26, 1864.

Witnesses:

*McCombs
Ed. Reed*

Inventor:

*James Tomlinson
per Atty. C. C. Voss*

W. HINDS
Plow.

No. 11,997

Patented Mar. 22, 1864

W. Lenny
Plow

No. 2,086

Patented Mar. 29, 1864

J. Egan
Plow

No. 3,975

Patented May 30, 1864

J. Payson
Plow

No. 4,745

Patented Oct. 18, 1864

I. Green,

Plow.

No 45036.

Patented Nov 15, 1864.

Witnesses

*J. D. Eastbrook
L. C. Green*

Inventor

I. Green

E. Ball,

Plow

No 46321.

Patented Feb. 14, 1865.

*Witnesses
Wm. Busch
J. H. Brown*

Inventor

*E. Ball
per Messrs J. C.
Atty.*

J. Deere,

Plow

No 46454.

Patented Feb. 21, 1865.

*Witnesses
J. H. Deere
J. H. Deere*

*Inventor
J. H. Deere
per Messrs J. C.
Atty.*

N. Platt,

Plow.

No 46937.

Patented Mar. 21, 1865.

*Witnesses
J. H. Deere
J. H. Deere*

*Inventor
N. Platt*

J. George

Plow

No 7,294.

Patented Apr 18, 1866

Witnesses
G B Hinderoff
J B Hull

Inventor
Joseph George
Atty. B Clark
Clerk

I. Winslow

Plow

No 7,486.

Patented Apr 26, 1866

Witnesses

M. H. Hinderoff
J. B. Hull

Inventor

I. Winslow

M. S. Spratt

Plow

No 9,799

Patented Sept 5, 1865.

Witnesses
J. B. Hinderoff
J. B. Hull

Inventor
M. S. Spratt

M. S. Spratt

Plow

No 9,559

Reissued July 6, 1869

Witnesses
J. B. Hinderoff
J. B. Hull

Inventor
M. S. Spratt

E.C. Whiting

No. 49,816. Plow. Patented Sep. 6, 1865.

Witnesses

*And M. A. Ames
J. P. Hall*

Inventor

*E. C. Whiting
per Messrs
Honey*

J. W. H. H.

Plow

No. 96,246.

Patented Nov. 28, 1865.

Witnesses

*Charles H. Brown
Paul P. Brown*

Inventor

*J. W. H. H.
per Messrs
Honey*

J. Fowler,

Plow.

No. 52,407.

Patented Feb. 6, 1866.

Fig. 2

Witnesses

Geo. Druskin

Inventor

Joseph Fowler

T. Cottman,

Plow

No. 52,539.

Patented Feb. 13, 1866.

Witnesses
*R. C. Phillips
John A. Bailey*

Inventor
Thos. Cottman

*T. A. Stansbury.**Plow**N^o 52,903.**Patented Feb 27, 1866.*

Witnesses
Wm. H. H. H. H.
Wm. H. H. H. H.

Inventor:
T. A. Stansbury
 By *Wm. H. H. H. H.*

*R. L. Allen.**Plow**N^o 52,948.**Patented Mar 6, 1866.*

Witnesses
Wm. H. H. H. H.
Wm. H. H. H. H.

Inventor:
R. L. Allen

*L. Gibbs.**Plow**N^o 53,918.**Patented Apr 10, 1866.*

Witnesses
Wm. H. H. H. H.
Wm. H. H. H. H.

Inventor:
L. Gibbs
 By *Wm. H. H. H. H.*

*L. B. DENNETT.**Plow.**No. 55,069.**Patented May 29, 1866.*

Witnesses
Wm. H. H. H. H.
Wm. H. H. H. H.

Inventor:
L. B. Dennett

Gilson & Martin

Plow.

N^o 55,279

Patented Jan 5, 1866.

Fig 1

Witnesses
J. H. Dunn
Geo. H. H. H.

Inventors
J. H. Gilson
& Martin
By *[Signature]*

T. E. C. Brinly

Plow.

N^o 55,999.

Patented July 3, 1866.

Fig 1

Fig 2

Inventor
T. E. C. Brinly
Witnesses *[Signatures]*

T. E. C. BRINLY.

Plow.

No 2,726

Reissued Aug 13, 1867

Fig 2

Inventor
T. E. C. Brinly
Witnesses *[Signatures]*

C. Beidler

Plow.

No 56,350

Patented July 17, 1866.

Fig 2

Fig 1

Witnesses
[Signatures]

Inventor
C. Beidler
Witnesses *[Signatures]*

*H. F. Martin,**Plow.**No. 56,584.**Patented July 24, 1866.* *H. A. Kinner,**Plow.**No. 57,124.**Patented Sept. 4, 1866.* *J. M. Kinley,**Plow.**No. 57,748.**Patented Sept. 4, 1866.* *A. W. Stoker,**Plow.**No. 57,991.**Patented Sept. 11, 1866.*

C. St John
Plow

No 58,911.

Patented Oct. 16, 1866.

Witnesses
J. A. Jackson
J. C. Lawrence

Inventor
Carlisle St John
Per *W. M. Munn*
Attorney

J. Harris
Plow.

No 59,010,

Patented Oct. 23, 1866.

Witnesses:
J. A. Jackson
W. C. Lawrence

Inventor
James Harris
Per *W. M. Munn*
Attorney

C. GLIDDE
Plow.

No 60,172.

Patented Dec. 4, 1866.

Witnesses
J. A. Jackson
J. B. Jones

Inventor
Charles Glidde
by *Wm. D. Covert*

J. W. LEWIS
Plow

No 61,075

Patented Jan 8 1867

Witnesses
Samuel Wright
Solomon H. Hinton

Inventor
John W. Lewis
by *Wm. D. Covert*
Attorney

Richards & Vandergriфт

Plow

No. 96,762

Patented Feb. 6, 1867.

Richards & Vandergriфт

Plow

No. 93,098.

Reissued Sept. 1867

W. COOLEY.

Plow.

No. 61,809

Patented Feb. 5, 1867

C. L. FLEISCHMANN

Plow.

No. 62,325.

Patented Feb. 26, 1867.

J. PARKER.

Plow.

No. 62,497.

Patented Feb. 26, 1867.

Witnesses.

A. H. Beaman
Barley, Illinois

Inventor

J. Parker
Alexander & Wilson

MATTESON & WILLIAMSON.

Plow

No. 62,506

Patented Mar. 12, 1867

Fig. 3

Fig. 2

Fig. 1

Witnesses.
Geo. H. Strong
C. W. Smith

Inventors
D. C. Matteson and
T. P. Williamson
By John L. Dorn

Matteson & Williamson

Plow.

No. 3,179.

Reissued Nov. 3, 1868

Fig. 3

Fig. 2

Fig. 1

Witnesses
Geo. H. Strong
C. W. Smith

Inventors
D. C. Matteson and
T. P. Williamson
By John L. Dorn

D. C. MATTESON & T. P. WILLIAMSON.

Plows

No. 5,735

Reissued Jan. 20, 1874.

Fig. 1

Fig. 2

Fig. 3

Witnesses.

John L. Dorn
C. W. Smith

Inventors
D. C. Matteson and
T. P. Williamson
By John L. Dorn

J. Gibbs,

Plow.

No. 62,881.

Patented Mar. 12, 1867.

Witnesses:

J. W. H. H. H.
J. W. H. H. H.

Inventor:

J. Gibbs
By J. H. H. H.

PETERS & PAULY.

Plow.

No. 62,881

Patented Mar. 12, 1867.

Witnesses:

J. W. H. H. H.
J. W. H. H. H.

Inventor:

J. W. H. H. H.
J. W. H. H. H.

J. Fish,

Plow.

No. 63,377.

Patented Apr. 2, 1867.

Witnesses:

J. W. H. H. H.
J. W. H. H. H.

Inventor:

J. Fish

J. Häge,

Plow.

No. 63,381.

Patented Apr. 2, 1867.

Witnesses:

J. W. H. H. H.
J. W. H. H. H.

Inventor:

J. Häge

J. B. SKINNER.

Plow.

No. 64,259.

Patented Apr. 30. 1867.

Witnesses.
J. S. Peyton
Frederick Lang

Inventor.
J. B. Skinner
by his Atty.
Holden & Son

J. C. DUNCAN.

Plow

No. 64,647

Patented May 14, 1867

Witnesses.
Chas. B. Smith
J. B. Allen, under

Inventor.
James C. Duncan
by Chas. B. Smith

L. O. ROCKWOOD.

Plow.

No. 64,906.

Patented May 21, 1867.

Witnesses.
C. C. Case
Henry Thiele

Inventor.
Loring Otis Rockwood

J. V. Craig

Plow.

No. 65,212

Patented May 28, 1867

Witnesses.
J. B. Smith
G. A. Reed

Inventor.
J. V. Craig
per John C. Reed

*W. D. Mendenhall,**Plow.**No. 65,412.**Patented June 4, 1867.* *Witnesses:**W. H. Haskell
W. C. Schickel**Inventor,**William D. Mendenhall**R. F. Peat.**Plow.**No. 65,426.**Patented Jan. 1, 1867.* *Witnesses:
Chas. Snodgrass
J. O. S. S. S.**Inventor:
Rufus Peat
Per Wm. L. Co.
Attorneys**E. BALL, Jr.**2 Sheets—Sheet 1.**Plow.**No. 65,529.**Patented June 11, 1867.* *Witnesses:
Pro. F. Reynolds
E. C. S. S.**Inventor:
Ephraim Ball Jr.
By J. O. S. S.**E. BALL, Jr.**2 Sheets—Sheet 2**Plow.**No. 65,529.**Patented June 11, 1867.* *Witnesses:
Pro. F. Reynolds
E. C. S. S.**Inventor:
Ephraim Ball Jr.
By J. O. S. S.*

C. A. ELTON.
Plow.

No. 66,691.

Patented July 16, 1867.

Witnesses
H. F. Young
W. B. Donnell

Inventor
C. A. Elton
By his attorney
J. C. Robbins

B. F. Avery,
Plow.

No. 66,774.

Patented July 16, 1867.

Witnesses
J. A. Horner
W. J. Swan

Inventor
B. F. Avery
for himself
Attorney

T. E. C. Brinley,
Plow.

No. 66,787.

Patented July 16, 1867.

Witnesses,
T. C. B.
Ritch.

Inventor,
T. E. C. Brinley
By D. W. Munn

W. C. EVARTS.
Plow.

No. 66,958.

Patented July 23, 1867.

Witnesses
J. D. Smith
J. W. Smith

Inventor,
W. C. Everts

J. M. Green

Plow

No 67,976

Patented Aug 20, 1867

A. C. Bell

Plow

No 68,032

Patented Aug 27, 1867

E. L. BERGSTRESSER

2 Sheets—Sheet 1

Plow.

No. 68,560.

Patented Sept 3, 1867.

E. L. BERGSTRESSER

2 Sheets—Sheet 2

Plow.

No. 68,560

Patented Sept 3, 1867.

F. Feldhaus.

Plow.

No. 69,555.

Patented Oct. 8, 1867.

Witnesses
A. D. Evans
John F. Cook

Inventor
Ferdinand Feldhaus

J. G. Dodge

Plow

No. 69,555.

Patented Oct. 8, 1867.

Witnesses
J. S. Lusk
Geo. H. Green

Inventor
J. G. Dodge
By J. S. Lusk

L. E. Palmer,

Plow.

No. 69,834.

Patented Oct. 15, 1867.

Witnesses
Albert Holcomb
Samuel Poye

Inventor
L. E. Palmer

J. VANDEGRIFT.

Plow.

No. 69,867.

Patented Oct. 15, 1867.

Witnesses
J. S. Lusk
C. A. Selig

Inventor
John VanDegrift
By J. S. Lusk

J. VANDEGRIFT.
Plow.

No. 4,119.

Reissued Sept. 13, 1870.

Witnesses
J. C. Korman
C. A. Pittet

Inventor
James Vandegrift
Per Korman & Co
Witnesses

G. SPIELMAN.
Plow.

No. 69,943.

Patented Oct. 15, 1867.

Witnesses.

Joseph B. Smith
Wm. Hildebrand

Inventor

George Spielman

J. E. JINKINS.
Plow

No. 69,999

Patented Oct. 22, 1867

Witnesses
J. H. Smith
Wm. Brown

Inventor
J. E. Jenkins
Per Smith & Co
Witnesses

G. T. BREWER.
Plow.

No. 70,159

Patented Oct. 29, 1867.

WITNESSES:

J. M. Kunkle
Chas. H. Boyle

INVENTOR

G. T. Brewer
Per Kunkle & Co
Witnesses

G. RINGEN.

Plow.

No. 70,287.

Patented Oct. 29, 1867.

Witnesses.

Thomas Bridge
John H. Doyle

Inventor.

Richard Ringen
By his attorney
J. M. Landis & Co.

A. SHUNK, Sr.

Plow.

No. 71,234.

Patented Nov. 19, 1867.

Witnesses.

O. R. Harris
L. M. Lindsey.

Inventor.

A. Shunk, Sr.

Charles Forster, Plow.

71376

PATENTED
NOV 26 1867

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Witnesses
Theo. Ennsche
A. G. Quinn

Inventor

Charles Forster
Per Munnell

Samuel S. Starnes

PATENTED
NOV 26 1867

Plow

71419

Witnesses
John Forster
H. S. Starnes

Fig. 3 Inventor

Samuel S. Starnes by
Thos. Biddle & Co.

G. MOORE,

PLOW PATENTED
NOV 26 1867

71507

Fig. 1

Fig. 2

Fig. 3.

Witnesses.
G. T. Dodge
Geo. L. Leland

G. Moore
Inventor
by Dodge & Leland
Attorneys

Sheet 2.
3 Sheets.

G. Watt.

Plow.

Patented Nov 26, 1867

N° 71560

Fig. 1.

Fig. 2.

Witnesses.

Chas. D. Smith
J. M. Bowen

Inventor
Geo. Watt
By Chas. D. Smith
Attorney

G. Watt

Plow.

N° 71560

Patented Nov 26, 1867.

Fig. 3.

Fig. 4.

Fig. 5.

Inventor.

Geo. Watt
By Chas. D. Smith
Attorney

Witnesses.
Chas. D. Smith
J. M. Bowen

Sheet 2.
3 Sheets.

G. Watt.

Plow.

N° 71560

Patented Nov 26, 1867.

Fig. 6.

Fig. 7.

Fig.

Fig. 9.

Fig. 10.

Fig. 11.

Witnesses.

Chas. D. Smith
J. M. Bowen

Inventor.

Geo. Watt
By Chas. D. Smith
Attorney

Sheet 3.
3 Sheets.

G. WATT.
Plow.

3 Sheets—Sheet 1.

No. 3,609.

Reissued Aug 17, 1869.

Witnesses
Chas. D. Smith
J. M. Bowler

Inventor
Geo. Watt
By King & Co.

G. WATT.
Plow.

3 Sheets—Sheet 2.

No. 3,609.

Reissued Aug 17, 1869.

Witnesses.
Chas. D. Smith
J. M. Bowler

Inventor
Geo. Watt
By King & Co.

G. WATT.
Plow.

3 Sheets—Sheet 3.

No. 3,609.

Reissued Aug 17, 1869.

Witnesses
Chas. D. Smith
J. M. Bowler

Inventor
Geo. Watt
By King & Co.

G. Gibbs.
Plow.

No. 71734

Patented Dec. 3, 1867.

Witnesses
W. C. Thompson
Geo. M. Hall

Inventor
Geo. Gibbs

Andrew Gilmore. Plow.

72386

PATENTED
DEC 17 1867

Witnesses:
S. C. Kerner
S. B. Gilmore

Inventor:
Andrew Gilmore
By M. H. K. H.
Attorneys

William D. Sides' Impts in Ploughs

72568

PATENTED
DEC 24 1867

Witnesses:
James D. Sides
Charles C. Sides

Inventor:
William D. Sides

James Uriep's "Plow"

Fig. 1

73209

Fig. 2

PATENTED
JAN 7 1868

Fig. 3

Witnesses:
Theo. Uriep
O. Uriep

Inventor:
James Uriep
Per M. H. K. H.
Attorneys

Smith & Strasser. Plow

N^o 73550

Patented Jan 21, 1868

Witnesses:
James A. Johnston
A. C. Johnston

Inventors:
George A. Smith
Joseph Strasser

CHARLES WHITE

Assignor to Himself & George & Robert White

74183

Impt. in Ploughs.

PATENTED
FEB 4 1868

Witnesses
N. B. Smith
M. J. Nelson

Inventor
Charles White
by Geo. W. Smith
Att. Gen. for Ploughs

W. B. Young
Plough.

No. 74,184

Patented Feb. 11, 1868

Witnesses
Geo. L. Linsley
John H. Jones

Inventor

William B. Young

M. Penning.
Plow.

No. 76,243

Patented Mar. 31, 1868.

Witnesses
H. C. Aschcroft
J. A. Spason

Inventor
M. Penning
per M. Penning

C. WILKIN.
Plow.

No. 76,681.

Patented April 14, 1868.

Witnesses
Geo. W. Bowen
H. W. Burston

Inventor
Cornelius Wilkin
By King & Son

G. W. COLE.

Plow.

No. 76,714.

Patented April 14, 1868.

Witnesses:

W. H. Haskell
D. K. Manning

Inventor:

G. W. Cole

J. S. HALL.

Plow.

No. 77,188.

Patented April 28, 1868.

WITNESSES

J. D. Patton
J. M. Pool

INVENTOR:

John S. Hall
by atty. A. B. Stoughton

P. H. Starke.

Plow.

No. 77,647.

Patented May 6, 1868.

Witnesses:

Jas. F. Phillips
A. C. Howe

Inventor:

P. H. Starke

E. G. MATTHEWS.

Plow.

No. 77,996.

Patented May 19, 1868.

Witnesses

A. P. Hale Jr.
J. W. Fisher

Inventor:

E. G. Matthews
by atty. R. H. Lee

G. Wiley,

Plow

No. 78,339.

Patented May 26, 1868.

Witnesses:
M. C. Ashby
F. C. Fraser

Inventor:
Gabriel Wiley
By *Murray & Co.*
attorneys

S. HULBERT.

Plow.

No. 78,457.

Patented June 2, 1868.

WITNESSES.
Edmund Smith
Wm. H. White

INVENTOR:
S. Hulbert

G. M. French,

Plow.

No. 78,862.

Patented June 16, 1868.

Witnesses:
A. C. Johnston
A. B. White

Inventor:
G. M. French
By *J. H. Johnson*
attorney

A. C. Japies

Plow

No. 79,834.

Patented July 14, 1868.

Witnesses:
W. H. Canton
Geo. Green

Inventor:
Abrian C. Japies
By *J. B. Macdonald*
attorney

H. T. BEAM.

Plow.

No. 80,118.

Patented July 21, 1868.

J. BALL.

Plow.

No. 81,730.

Patented Sept. 1, 1868.

C. T. Grimes.

Plow.

No. 81,996.

Patented Sep. 8, 1868.

S. T. Denise.

Plow.

No. 82,304.

Patented Oct. 6, 1868.

V. Halesman.

Plow.

No. 83,206.

Patented Dec. 20, 1868.

Witnesses:
Wm. H. Hays
Geo. J. Hays

Inventor:
V. Halesman
Per Attorney
Geo. J. Hays

W. U. HOOVER.

Cultivator.

No. 84,946.

Patented Dec. 15, 1868.

Witnesses:
Wm. H. Hays
L. Hays

Inventor:
W. U. Hoover
Per Attorney
Wm. H. Hays

J. W. MILROY.

Plow.

No. 85,324.

Patented Dec. 29, 1868.

Witnesses:
Wm. H. Hays
Geo. J. Hays

Inventor:
James W. Milroy
Per Attorney
Geo. J. Hays

P. H. STARKE.

Plow.

No. 85,342.

Patented Dec. 29, 1868.

Witnesses:
Wm. H. Hays
H. L. Millard

Inventor:
P. H. Starke

*Fentiss & Thib.**Plow.**No 85,851.**Patented Jan. 12, 1869.*

Witnesses:
J. A. Morgan
G. W. G. G. G.

Inventors:
C. Fentiss
G. Thib.
per M. M. Co.

*A. F. Ingalls,**Plow.**No 80,839.**Patented Feb. 9, 1869.*

Witnesses:
C. K. K.
M. A. Morgan

Inventor:
A. F. Ingalls
Witness
Witness

*S. Curtis,**Plow.**No 87,142.**Patented Feb. 23, 1869.*

Witnesses:
G. C. A. A.
H. J. A. A.

Inventor
S. Curtis

*C. M. Alterton,**Plow.**No 89,115.**Patented Apr. 20, 1869.*

Witnesses:
C. A. A.
H. J. A. A.

Inventor
C. M. Alterton
Witness
Witness

S. F. Thompson

Plow.

No. 82608.

Patented May 4, 1869.

Witnesses
S. F. Thompson
J. H. Brown

Samuel H. Thompson
By his attorney
R. L. Ledy

H. E. Davis

Plow.

No. 90216.

Patented May 18, 1869.

Witnesses
Edward H. Davis
Edward H. Davis

Inventor
H. E. Davis
By H. E. Davis
attorney

E. Ward

Plow.

No. 90475.

Patented May 25, 1869.

Witnesses
W. H. Brown
J. H. Brown

Inventor
E. Ward
By H. E. Davis
attorney

E. WIARD
Plovs.

No. 5,941.

Reissued June 30, 1874.

Witnesses
W. H. Brown
J. H. Brown

Inventor
Edward Ward
By H. E. Davis
attorney

C. Hartzell,
Plow.

No. 90,747

Patented June 1, 1869.

Witnesses
P. M. Steele.
David Bush.

Inventor.
C. Hartzell.

F. M. Franklin,
Plow.

No. 91,109.

Patented June 8, 1869.

Witnesses
Leopold Gueb
Cornelius Cox

Inventor
Francis M. Franklin
per Alexander H. Wilson

J. Heckendorn
Plow.

No. 91,129

Patented June 8, 1869

Witnesses
J. P. H. Smith
Malcolm H. Brown

Inventor
J. Heckendorn
per J. P. H. Smith

J. Long
Plow.

No. 91,354.

Patented Jan. 16, 1869.

Witnesses:
Amos W. Morgan
Amos W. Morgan

Inventor:
J. Long
per Wm. H. H.

L. Hunt,

Plow.

No. 9,445.

Patented June 15, 1869

Fig. 1.

Fig. 2.

WITNESSES:

*Wm. G. Smith
J. H. Hunt*

INVENTOR:

*L. Hunt
per
J. H. Hunt
att'y*

R. R. Fenner,

Plow.

No. 9,617.

Patented June 22, 1869

*Witnesses:
Jas. R. Brown
C. J. Clamson*

*Inventor,
R. R. Fenner,
per
Edwin Brothers
Attorneys*

J. Shepard,

Plow.

No. 9,972.

Patented June 29, 1869

Fig. 1.

Fig. 2.

Witnesses:

*Wm. G. Smith
Geo. W. Water*

Inventor:

*J. Shepard
per
Wm. G. Smith
Attorneys*

A. G. & J. R. Cummings,

Plow.

No. 10,277

Patented July 13, 1869

Fig. 1.

Fig. 2.

*Witnesses:
Wm. G. Smith
J. R. Cummings*

Inventor:

*A. G. & J. R. Cummings
per
Wm. G. Smith
Attorneys*

H. Stem

Plow.

N^o 92,895

Patented Jul 20, 1869

Witnesses:
J. M. S. & Co.
Attorneys

Inventor
Henry Stem
By J. M. S. & Co. Attorneys

Sheet 1, 2 Sheets

J. Ball

Plow.

N^o 93,036.

Patented Jul 27, 1869

Witnesses:
J. M. S. & Co.
Attorneys

Inventor
John Ball
By J. M. S. & Co. Attorneys

Sheet 2, 2 Sheets

J. Ball

Plow.

N^o 93,036

Patented Jul 27, 1869

Witnesses:
J. M. S. & Co.
Attorneys

Inventor
John Ball
By J. M. S. & Co. Attorneys

J. M. S. & Co.

Plow.

N^o 93,430

Patented Aug 10, 1869

Witnesses:
J. M. S. & Co.
Attorneys

Inventor:
J. M. S. & Co.
Attorneys

E. Ward,
Plow.

No. 94,306.

Patented Aug. 31/1869.

Witnesses:
J. C. Smith
J. H. Jones

Inventor:
E. Ward
Per *Wm. H. [illegible]*
Attorneys.

E. Ward,
Plow.

No. 94,307.

Patented Aug. 31/1869.

Fig. 1

Fig. 2

Witnesses:
J. C. Smith
J. H. Jones

Inventor:
E. Ward
Per *Wm. H. [illegible]*
Attorneys.

No. 94,310.

Patented Oct. 7, 1869.

Witnesses:
J. C. Smith
J. H. Jones

Inventor:
E. Ward
Per *Wm. H. [illegible]*
Attorneys.

W. F. Fyfe,
Plow.

No. 94,311.

Patented Oct. 7, 1869.

Witnesses:
J. C. Smith
J. H. Jones

Inventor:
W. F. Fyfe
Per *Wm. H. [illegible]*
Attorneys.

J. F. Smith
Patent
 No. 9,007. *Patented* Sept. 7, 1882.

Witnesses
Wm. H. Smith
John H. Smith

Inventor
J. F. Smith
 by *Wm. H. Smith*
 Attorney

J. F. Smith
Patent
 No. 9,841. *Patented* Sept. 14, 1882.

Witnesses
Wm. H. Smith
John H. Smith

Inventor
J. F. Smith
 by *Wm. H. Smith*
 Attorney

J. F. Smith
Patent
 No. 95,163. *Patented* Sept. 2, 1885.

Witnesses:
Wm. H. Smith
John H. Smith

Inventor
Wm. H. Smith
 by *John H. Smith*
 Attorney

J. F. Smith
Patent
 No. 95,251. *Patented* Sept. 2, 1885.

Witnesses
Wm. H. Smith
John H. Smith

Inventor
J. F. Smith
 by *Wm. H. Smith*
 Attorney

J. C. McNUTT & A. B. FURMAN,

Assignors to J. Oliver

PLOW.

No. 7,732.

Reissued June 12, 1877.

WITNESSES
Edw. H. Hingham
Edw. H. Hingham

INVENTORS
J. C. McNutt,
A. B. Furman,
 By *Leggett and Leggett* ATTORNEYS

H. Slick.

Plow.

No. 96,386.

Patented Jan. 28, 1869.

Witnesses
Lewis C. Smith
Wm. S. Smith

Inventor
Henry Slick
 By *Attorney*
Brown, Child & Co.

H. Millar,

Plow.

No. 95,487.

Patented Oct. 5, 1869.

Witnesses,
H. F. Gherdt
Jan. T. Day

Inventor:
H. Millar
 By *H. F. Gherdt* attorney

H. B. DUFFEE.

Plow.

No. 96,680.

Patented Nov. 9, 1869.

Witnesses:
Henry W. Haygate
Edmond Mason

Inventor:
H. B. Duffee
 By *H. B. Duffee* attorney

H. B. Jones,

Plow.

No. 3753

Patented Nov. 30, 1869

Witnesses:
Charles H. Jones
Edward H. Jones

Inventor:
H. B. Jones
By *A. B. Stoughton*
Attorney

A. FRANKLIN.

2 Sheets—Sheet 1

Plow.

No. 96,907.

Patented Nov. 16, 1869.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses:
J. P. H. Jones
W. B. Jones

Inventor:
Abel Franklin

A. FRANKLIN.

2 Sheets—Sheet 2.

Plow.

No. 96,907.

Patented Nov. 16, 1869.

Fig. 5

Witnesses:
Leopold Jones
Henry Jones

Inventor:
Abel Franklin
per *Alfred H. Jones*

Fig. 6

Fig. 7

No. 97,352

Patented Nov. 30, 1869

Fig. 8

Fig. 9

Witnesses:
W. B. Jones
Alfred H. Jones

Inventor:
Abel Franklin
per *Alfred H. Jones*
Attorney

A. Wright

Plow.

No. 97,746.

Patented Feb. 7, 1869.

Attest } *J. P. Phelps*
J. H. Cook

Inventor
Alexander Wright
 By his attorney
J. P. Phelps

T. E. C. Emery

Plow.

No. 99,830.

Patented Feb. 16, 1870.

Witnesses
J. P. Phelps
J. H. Cook

Inventor
T. E. C. Emery
 By his attorney
J. P. Phelps

A. Wright

Plow.

No. 100,042.

Patented Feb. 22, 1870.

Witnesses:
Chas. A. Cook
Geo. H. Walker

Inventor:
A. C. Dedmon
 For *Wm. A. Cook*
 Attorney

A. Wright

Plow.

No. 100,300.

Patented Mar. 1, 1870.

Witnesses
J. P. Phelps
J. H. Cook

Inventor:
A. C. Dedmon
 For *Wm. A. Cook*
 Attorney

No. 100,860. Plow. Invention.

Witnesses:
J. H. ...
Inventor:
M. K. Dahl

M. K. DAHL.
Plow.

No. 100,860.

Patented March 15, 1870.

Witnesses:
J. H. ...
Inventor:
M. K. Dahl

Inventor:
M. K. Dahl
by ...

R. J. WHEATLEY.
Plow.

No. 100,957.

Patented March 15, 1870.

Inventor:
R. J. Wheatley
Witnesses:
J. H. ...
J. H. ...

S. D. SAYER.
Plow.

No. 102,162

Patented April 19, 1870.

Witnesses:
J. H. ...
J. H. ...

Inventor:
S. D. Sayer
by ...

H. GALE.

Plow.

No. 103,038.

Patented May 17, 1870.

Witnesses
S. J. Cook
C. H. Johnson

Inventor
H. Gale

R. Gale,

Plow.

No. 103,608.

Patented May 31, 1870.

Witnesses
Charles R. Cook
H. R. Dennison

Inventor
R. Gale
by his attorney
J. B. Woodruff

G. WHARTON.

Plow.

No. 105,531.

Patented July 19, 1870.

Witnesses
S. J. Cook
C. H. Johnson
S. J. Rogers

Inventor
G. Wharton
by H. W. Beadle
his attorney

J. J. Hall,

Plow.

No. 105,073.

Patented July 19, 1870.

Witnesses
S. J. Cook
C. H. Johnson
S. J. Rogers

Inventor
J. J. Hall
by his attorney
J. B. Woodruff

DICKIE & JOHNSTON.

Plow.

No. 106,559.

Patented Aug. 23, 1870.

WITNESSES
J. S. Marshall
J. S. Marshall

INVENTOR
D. Dickie
J. R. Johnston
Wm. Johnston

F. M. FRANKLIN.
Plow.

No. 107,037.

Patented Sept. 6, 1870.

Witnesses.
J. S. Marshall
J. S. Marshall

Inventor
F. M. Franklin
per Wm. Johnston

No. 107,681.

Patented Sept. 20, 1870.

Witnesses.
J. S. Marshall
J. S. Marshall

Inventor
F. M. Franklin
per Wm. Johnston

F. M. FRANKLIN.

Plow.

No. 107,606.

Patented Sept. 20, 1870.

Witnesses.
J. S. Marshall
J. S. Marshall

Inventor
F. M. Franklin
per Wm. Johnston

D. FULTON.

Plow.

No. 107,676.

Patented Sept. 27, 1870.

Witnesses
David H. Smith
John C. Case

Inventor
David Fulton
By Wm. Smith his Atty.

D. MORRIS

Plow

No. 107,705.

Patented Sept. 27, 1870.

Witnesses:
J. W. Blomquist
J. C. F. Woods
(J. W. B.)

Inventor:
D. Morris
Per M. Morris
Attorney.

B. C. BLOMSTEN.

Plow.

No. 108,095.

Patented Oct. 11, 1870.

WITNESSES
J. H. Hayes
J. C. Case.

INVENTOR
B. C. Blomsten
By Wm. Beadle
attorney.

B. C. BLOMSTEN.
Improvement in Plows.

No. 4,810.

Reissued March 19, 1872.

Witnesses.
J. H. Hayes.
J. C. Case.

Inventor
B. C. Blomsten
By Wm. Beadle.

A. & F. M. FRANKLIN.
Plow

No. 108,247

Patented Oct. 11, 1870.

M. L. GIBBS.
Side-Hill Plow.

2 Sheets—Sheet 1.

No. 108,699.

Patented Oct. 25, 1870.

M. L. GIBBS.
Side-Hill Plow.

2 Sheets—Sheet 2.

No. 108,699.

Patented Oct. 25, 1870.

M. L. GIBBS.
Improvement in Plows.

2 Sheets—Sheet 1.

No. 4,965

Reissued July 9, 1872.

M. L. GIBBS.

2 Sheets--Sheet 2.

Improvement in Plows.

No. 4,965.

Reissued July 9, 1872.

Fig. 1.

Fig. 3.

Fig. 6.

Fig. 4.

Fig. 10.

Fig. 8.

Fig. 11.

Fig. 9.

Fig. 12.

Witnesses:
J. C. Smith
D. D. Thompson

Inventor:
M. L. Gibbs
By H. H. H. H. H.

G. W. REAM.

Plow.

No. 108,730.

Patented Oct. 25, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Witnesses:
J. C. Smith
D. D. Thompson

Inventor:
G. W. Ream
By H. H. H. H. H.

J. D. Smith.

Plow.

No. 108,832.

Patented Nov. 1, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
J. C. Smith
D. D. Thompson

Inventor:
J. D. Smith
By H. H. H. H. H.

T. E. C. Smith.

Plow.

No. 108,830.

Patented Nov. 15, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Witnesses:
J. C. Smith
D. D. Thompson

Inventor:
T. E. C. Smith
By H. H. H. H. H.

T. E. C. BRINLY

Plow

No. 109,291.

Patented Nov 15, 1870.

No. 109,310.

Patented Nov 15, 1870.

No. 109,352.

Patented Nov 15, 1870.

No. 109,389.

Patented Dec 6, 1870.

J. O. BILLING.

2 Sheets—Sheet 1.

Plow.

No. 110,336.

Patented Dec. 20, 1870.

Fig 1.

Fig 2

Fig 3

Witnesses
G. L. Loveitt
J. G. Hutchinson

Inventor
James A. Billing
per Alexander Mason

J. O. BILLING.

2 Sheets—Sheet 2.

Plow.

Ng. 110,336.

Patented Dec. 20, 1870.

Fig. 4.

Fig 5

Fig 6

Witnessed
J. H. McIntosh
C. L. Clark

Inventor
James C. Belting
Frederick Mason

ic 1:0506

Feb. 27. 1870

210

Fig. 1.

Witnesses:
Isabell Dutton
L. J. Kneave

Parentor:
W. G. Smith
per Mann & Co
Attorneys.

M. R. Jones.

Plow

NY² 110,660.

Patented Jan. 3, 1871

Fig 2

Fig. 3

1875

Witnesses
J. B. Henry
J. M. Cotton

Inventor.
Margus R. Jones

No. 14,905.

Printed Feb. 21. 1871.

Witnesses
Charles Smith }
E. R. Brown }

Gracemith
E. R. Brown

Inventor:

James Oliver

No. 112302.

Entered Feb. 28. 1871

Witnesses
A. B. Smith
H. H. Doubleday

A. B. Smith
H. H. Doubleday

Inventor

Harvey Washburn
by A. M. Smith
att'y.

S. M. Stewart,

Flux.

N 112,508.

Entered May 7. 1871.

Witnesses,
Hedrick Hills
Charles Kinman.

Adolph & Co
Lehman Brothers

Inventor,
S. M. Stewart
By D. C. Smith & Co.
his atty

S. M. Stewart
R. D. Smith & Co.
New York

J. L. Bond,

Wheel Flour.

No. 113390.

Patented Apr. 4. 1871.

Wilmington.
Chas. L. Curtis.
A. H. Peabody

Chas. L. Curtis.
A. M. Peabody

Maximal

J. L. Bond.
 per Alexander Masson
 Accpts

Attiz

John Lane Jr.

Plow

No. 113436

Patented Apr. 4 1877.

Witnesses:
Charles Anderson
Samuel Lane

Inventor

John Lane Jr.

J. LANE, Jr.

Plow.

No. 6,405.

Reissued April 27, 1875

Witnesses:
Wm. C. R. Smith
H. C. Scott

Inventor
John Lane Jr.

CH. Watson & Co.
Attorneys

J. Blanchard,

Plow.

No. 113484.

Patented Apr. 11, 1877.

Witnesses:
John W. Bell
George White

Inventor
J. Blanchard
Wm. Alexander
Att'y

W. Fuller,

Plow.

No. 113733.

Patented Apr. 18, 1877.

Witnesses:
Wm. R. Richards
D. H. Clarke

Inventor
Walter Fuller

W. T. Richards
his att'y.

ADAM WEAVER.
Improvement in Plows.

No. 114,237,

Patented April 25, 1871.

Witnesses:
Chas. A. Pitts
William H. Kiser

Inventor:
Adam Weaver
By D. C. Colby, Son
Attorneys

CHARLES F. CHAMBERS
Improvement in Plows.

No. 115,701

Patented June 6, 1871

Inventor:
Charles F. Chambers
By Wright Bros
Attorneys

JOHN THOMAS STORY.
Improvement in Plows.

No. 115,907.

Patented June 13, 1871.

Witnesses:
Chas. A. Pitts
William H. Kiser

Inventor:
John Thomas Story
By Wm. L. Le
Attorneys

M. L. GIBBS.
Plows.

No. 116,048

Patented June 20, 1871.

Inventor:
M. L. Gibbs
By Robert H. Kiser
Attorneys

Inventor:
Martin L. Gibbs
By Robert H. Kiser
Attorneys

M. L. GIBBS

Improvement in Plows.

No. 4,943.

Reissued June 11, 1872.

Fig. 1.

Fig. 4.

Fig. 2.

Fig. 3.

Witnesses:
J. H. Burdette
A. J. Humphrey.

Inventor:
M. L. Gibbs
By Burdette & Co.
Attys.

Edward Mord's Improv'd Plow

117024

PATENTED JUL 11 1871

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:
A. Humphrey
J. H. Burdette.

Inventor:
Edward Mord
By Allen & Co.
Attys.

M. P. Rose

Adjustable Plow

117335

PATENTED JUL 25 1871

Fig. 1.

Fig. 3.

Witnesses:
Prock Johnson
John S. Seares

Inventor:
M. P. Rose
By John W. Smith
Att.

P. H. Sturte's Plow.

117574

PATENTED AUG 1 1871

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
John Becker
John W. Smith

Inventor:
P. H. Sturte
By Munroe & Co.
Attorneys.

*Samuel D. Morrison, Dennis A. Morrison,
and Joseph B. Morrison.*

117801

PATENTED AUG 8 1871

Plow.

Witnesses:

*J. J. Lunnell,
Atty Thomas.*

Inventors,

*Samuel D. Morrison,
Dennis A. Morrison,
Joseph B. Morrison,
by W. D. Richards,
their Atty.*

S. B. MORRISON, D. A. MORRISON, & J. B. MORRISON.
Plow.

No. 5,160.

Reissued Nov. 26, 1872.

Witnesses:

*J. J. Lunnell,
Atty Thomas.*

Inventors,

*Samuel D. Morrison,
Dennis A. Morrison,
Joseph B. Morrison,
by W. D. Richards,
their Atty.*

**L. S. Wilson's
Improvement in Plows.**

No. 118,769.

Patented Sep. 5, 1871.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

*C. L. Court,
Atty Thomas.*

Inventor,

L. S. Wilson

JAMES C. VERTREES.

Improvement in Plows.

No. 119,433.

Patented Sep. 26, 1871.

Witnesses:

*John P. V.
Phil S. Dodge*

Inventor

*James C. Vertrees,
by Lodge & Mason,
Atty.*

MARTIN KENNEDY.

Combined Plow and Stock for Cultivators.

No. 119,618.

Patented Oct. 3, 1871.

Witnesses:

S. Haskins

John H. Haskins

Inventor:

Martin Kennedy

per N. H. Haskins

SOLON COOLEY.

Improvement in Plows.

No. 126,718.

Patented Nov. 7, 1871.

Witnesses:

H. C. Haskins

John H. Haskins

Inventor:

Solon Cooley

per S. Haskins

W. Yost
Improvement in Plow

No. 121,567.

Patented Dec. 5, 1871.

Witnesses:

W. B. Raymond
Emma L. Raymond

Inventor

W. Yost by
H. H. Haskins atty.

JAMES WALLACE.

Improvement in Plows

No. 123,957.

Patented Feb. 20, 1872

Witnesses:
W. B. Raymond
H. H. Haskins

Inventor:

James Wallace
H. H. Haskins atty.

2 Sheets--Sheet 2

JAMES WALLACE.

Improvement in Plows.

No. 123,957.

Patented Feb. 20, 1872.

Fig. 8.

Witnesses:
Wm. H. Hays
Wm. H. Hays

Inventor:
 James Wallace
Chapman & Hornum & Co.

JAMES M. MOYERS & GEORGE W. MOYERS.

Improvement in Plows.

No. 125,478.

Patented April 9, 1872.

Witnesses:

Wm. H. Hays
Wm. H. Hays

Inventor:

James M. Moyers
 George W. Moyers
Chapman & Hornum & Co.

3 Sheets--Sheet 1.

F. R. WILLSON.

Improvement in Plows.

No. 126,507.

Patented May 7, 1872.

Fig. 1.

WITNESSES.

Wm. H. Hays
Wm. H. Hays

INVENTOR

Freeman R. Willson
Chapman & Hornum & Co.

3 Sheets--Sheet 2.

F. R. WILLSON.

Improvement in Plows.

No. 126,507.

Patented May 7, 1872.

Fig. 2.

WITNESSES.

Wm. H. Hays
Wm. H. Hays

INVENTOR

Freeman R. Willson
Chapman & Hornum & Co.

3 Sheets--Sheet 3.

F. R. WILLSON.
Improvement in Plows.

No. 126,507.

Patented May 7, 1872.

WITNESSES.

E. Anderson
J. H. Anderson

INVENTOR.

Frederick R. Willson
Chapman & Willson
Attys

H. B. SMITH.

Improvement in Plows.

No. 127,110.

Patented May 21, 1872.

WITNESSES

E. H. Smith
H. B. Smith

INVENTOR

H. B. Smith
Chapman & Willson
Attys

G. SHELTON.

Improvement in Plows.

No. 127,650.

Patented June 4, 1872.

WITNESSES.

Samuel Shelton
W. L. Smith

INVENTOR.

Gilman Shelton
For Mauden & Carson
Attorneys

G. SHELTON.

Plows.

No. 5,530.

Reissued August 12, 1873.

WITNESSES

W. L. Smith
W. L. Smith

INVENTOR

Gilman Shelton
W. L. Smith
Attys

A. B. FARQUHAR.
Improvement in Plows.

No. 127,970.

Patented June 18, 1872.

Witnesses:

James Oliver
J. B. Farquhar

Inventor:

A. B. Farquhar

JAMES OLIVER.
Improvement in Plows.

No. 128,061.

Patented June 18, 1872.

Witnesses:

Chas. H. Watson
O. L. Lamm

Inventor:

James Oliver

WILLIAM K. HARRELL.
Improvement in Plows.

No. 128,141.

Patented June 18, 1872.

Witnesses:

P. C. Dittus
W. K. Harrell

Inventor:

William K. Harrell
Per *Wm. K. Harrell*
Attorney.

W. K. HARRELL
PLOW.

No. 6,804.

Reissued Dec. 14, 1875.

Witnesses:

W. K. Harrell
D. G. Hunt

Inventor:

William K. Harrell
(4) *W. K. Harrell*
W. K. Harrell

WILLIAM PARRISH.
Improvement in Gang-Plow.

No. 128,245.

Patented June 25, 1872.

Fig. 1.

Fig. 2.

WITNESSES.

E. H. Bates
J. E. Upham.

INVENTOR.

William Parrish
Witnesses
Chas. H. Brown
Attys.

J. W. DOWNS.

Improvement in Plows.

No. 129,112.

Patented July 16, 1872.

Witnesses

James H. Brown
E. L. Smith

Inventor

J. W. Downs
Per Alexander

T. E. PUTNAM.
Improvement in Plows.

No. 129,296

Patented July 16, 1872.

Fig. 1

Fig. 2

Witnesses:

W. H. Hargis
N. O. Graham

Inventor:

Thomas Edw. Putnam
per Wm. H. Hargis
Attorneys

W. RALL

Plow

No. 129,364.

Patented July 16, 1872.

Fig. 3

Fig. 1

Fig. 2

Fig. 4

Witnesses:

H. S. Sprague
H. P. Smith

Inventor:

Wm. Rall
per H. S. Sprague
Attys.

C. T. KEE.

Improvement in Plows.

No. 129,964.

Patented July 30, 1872.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES.

Geo. Elliptum,
D. S. Kane

INVENTOR.

Charles T. Kee
By *Wm. H. H. H. H. H.*

J. W. ELLIOTT.

Improvement in Plows

No. 130,115.

Patented Aug. 6, 1872.

Fig. 4.

Witnesses:
J. W. Elliott
J. C. H. H. H. H.

Inventor:
J. W. Elliott
By *Wm. H. H. H. H.*

C. BATES.

Improvement in Plows.

No. 130,180.

Patented Aug. 6, 1872.

Witnesses:

Richard L. Street
C. H. Walker

Inventor:

Charles Bates

E. S. COOK.

Improvement in Plows.

No. 130,196.

Patented Aug. 6, 1872.

Fig. 3.

Witnesses:
J. W. Elliott
J. C. H. H. H. H.

Inventor:

E. S. Cook
By *Wm. H. H. H. H.*

C. URIE.

Improvement in Plows.

No. 130,773.

Patented Aug. 20, 1872

WITNESSES.
J. C. Thompson
J. H. Cooper

INVENTOR
Charles Urie
C. Urie & Co.
attys.

R. R. FENNER.

Improvement in Plows.

No. 130,797. Patented Aug. 27, 1872

WITNESSES
J. C. Thompson
J. H. Cooper

INVENTOR
R. R. Fenner
R. R. Fenner & Co.
attys.

A. J. BONANDER.

Improvement in Plows.

No. 131,243

Patented Sep. 10, 1872

WITNESSES
J. C. Thompson
J. H. Cooper

INVENTOR
A. J. Bonander
A. J. Bonander & Co.
attys.

J. GILMER.

Improvement in Plows

No. 131,434

Patented Sep. 17, 1872.

WITNESSES
J. C. Thompson
J. H. Cooper

INVENTOR
J. Gilmer
J. Gilmer & Co.
attys.

S. J. LEACH.

Improvement in Plows.

No. 132,295.

Patented Oct. 15, 1872.

Witnesses:

Wm. Decker.
C. Sedgwick

Inventor:

S. J. Leach
Per Munn & Co.
Attorneys.

F. M. McMEEKIN.

Improvement in Plows.

No. 132,679.

Patented Oct. 29, 1872.

WITNESSES.

Wm. Anderson
Geo. Elphinstone

INVENTOR.

F. M. McMeekin,
Chapman & Co.

H. C. GODFREY.

Cotton Plows.

No. 133,850.

Patented Dec. 10, 1872.

Witnesses:

G. M. Mathews
J. L. M. M. M.

Inventor:

H. C. Godfrey
Per Munn & Co.
Attorneys.

W. M. WATSON.

Plows.

No. 134,716.

Patented Jan. 7, 1873.

Witnesses:

G. B. Smith
Geo. E. Elphinstone

Inventor.

William M. Watson
Chapman & Co.

J. W. REED.
Plows.

No. 435,289

Patented Jan. 28, 1873

Fig. 2

Fig. 3

Witnesses:

*L. M. Holmgren,
James McLeod*

Inventor:

John W. Reed
Per *Wm. J. G.*
Attorneys.

H. SELICK.
Plows.

No. 135,850.

Patented Feb. 11, 1873.

Witnesses:
*L. M. Holmgren,
James McLeod*

H. S. Slick
Per *Wm. J. G.*
Attorneys.

G. D. WYMAN.
Plows.

No. 136,120.

Patented Feb. 18, 1873.

Fig. 2

Witnesses:

*L. S. Harmon,
Lamb P. Gay*

Inventor:

Green S. Wyman

N. BURCH.
Plows.

No. 136,361.

Patented March 4, 1873.

Fig. 2

Fig. 3

Witnesses:
*L. S. Harmon,
A. H. Hall*

Inventor:

Nathan Burch
Per *Wm. J. G.*
Attorneys.

W. PRICE.
Plows.

No. 137,716

Patented April 8, 1873.

T. E. C. BRINLY.
Plows.

No. 140,004

Patented June 17, 1873

L. B. WHITE.
Plows.

No. 140,749.

Patented July 8, 1873.

P. H. STARKE.
Plows.

No. 141,960.

Patented August 19, 1873

E. WIARD
Plows

2 Sheets--Sheet 1.

No. 142,136.

Patented August 26, 1873.

E. WIARD
Plows

2 Sheets--Sheet 2

No. 142,136

Patented August 26, 1873

C. MARSH, 2nd.
Plows.

No. 142,800.

Patented September 16, 1873.

S. W. SOULE.
Plows.

No. 143,263.

Patented September 30, 1873.

J. L. LAUGHLIN.
Plows.

No. 144,462.

Patented Nov. 11, 1873.

WITNESSES
J. J. Sprague
Geo. S. Day

INVENTOR
J. L. Laughlin
per Attorney
J. J. Sprague

W. C. McCOLL.
Plows.

No. 144,552.

Patented Nov. 11, 1873.

WITNESSES
Geo. J. Shaw
J. J. Sprague

WILLIAM C. COLL
Inventor
Thomas G. Craig, Attorney

J. OLIVER.
Plows.

No. 144,785.

Patented Nov. 18, 1873.

WITNESSES
W. C. Shaw
A. H. Day

INVENTOR
James Oliver
per
C. H. Watson & Co.
ATTORNEYS

J. OLIVER.
FLOW

No. 7,097.

Reissued May 2, 1876.

WITNESSES
W. B. Ewart
Geo. J. Shaw

INVENTOR
James Oliver
per
H. L. Lippert & Co.
ATTORNEYS

N. WESTCOTT.

Draft Attachments for Plows.

No. 144,811.

Patented Nov. 18, 1873.

Fig. 2.

Witnesses.
J. H. H. H.
W. B. H. H.

Inventor.
N. Westcott
Per [Signature]
Attorneys.

A. K. DAHL.

Plows.

No. 144,960.

Patented Nov. 25, 1873.

Witnesses.
J. H. H. H.
W. B. H. H.

Inventor.
A. K. Dahl
Per [Signature]
Attorneys.

R. A. BROWN.

Plows.

No. 145,088.

Patented Dec. 2, 1873.

Witnesses.
E. H. H. H.
W. B. H. H.

Inventor.
R. A. Brown
Per [Signature]
Attorneys.

J. B. NORRIS.

Plows.

No. 145,120.

Patented Dec. 2, 1873.

Witnesses.
J. H. H. H.
W. B. H. H.

Inventor.
J. B. Norris
Per [Signature]
Attorneys.

J. J. MITCHELL.
Plows.

2 Sheets--Sheet 1.

No. 146,088.

Patented Dec. 30, 1873.

Fig 1

Fig 2

Witnesses
E. W. Water,
George E. Upham.

Inventor,
John J. Mitchell,
Chapman & Son & Co.
Atty.

J. J. MITCHELL.
Plows.

2 Sheets--Sheet 2.

No. 146,088.

Patented Dec. 30, 1873.

Fig 3

Fig 4

Fig 5

Fig 6

Witnesses,
E. W. Water,
George E. Upham.

Inventor,
John J. Mitchell,
Chapman & Son & Co.
Atty.

J. C. BIDWELL.
Plows.

No. 147,233.

Patented Feb. 19, 1874.

Witnesses
Frederick H. H. H.
James D. H.

INVENTOR
John C. Bidwell
by his atty.
Barewell & Son

G. W. RUCH.
Plows.

No. 147,979.

Patented Feb. 24, 1874.

Fig 3

Witnesses
H. W. H. H.
L. H. H.

Inventor,
George W. Ruch

E. WALTER.
Plows.

No. 148,786

Patented March 17, 1874.

Witnesses:
 Custard Custard
 Fitzgerald

Inventor;
Per *Miner*
Attorneys.

H. JONES.
Plows.

No. 149,314.

Patented April 7, 1874.

WITNESSES
 Willie Anderson
 C. H. Bates

INVENTOR
Cameron Jones
Superintendent
Am.

J. M. TINGLEY.
Plows.

No. 149,694.

Patented April 14, 1874.

WITNESSES.
A. W. Mergewich
Chapman

INVENTOR.
J. M. Lingley
BY *Wm. H. L.*
ATTORNEYS.

J. W. LOWE.
Plows.

No. 150,062.

Patented April 21, 1874.

Witnesses
 C. H. Bates
 George E. Upham

Inventor,
John H. Davis,
Carpenter & Joiner,
Albany

M. D. WALSH.

Plows.

No. 150,207.

Patented April 28, 1874.

WITNESSES

Saml. H. Miller
C. L. Everett

By

INVENTOR
Michael D. Walsh,
Attorney.

J. KUENZEL

Plows.

No. 151,229.

Patented May 26, 1874.

Witnesses

Chas. J. Booth
J. L. Barnes

Inventor

John Kuenzel,
by G. S. H. Jones,
Attorneys

M. BARRY.

Plows.

No. 151,744.

Patented June 9, 1874.

WITNESSES

A. W. Hengst,
C. L. Everett

BY

INVENTOR

M. Barry,
Attorneys

F. RENAK.

Plows.

No. 152,007.

Patented June 16, 1874.

Witnesses

James F. Hines
J. L. Barnes

Inventor

Frank Renak,
by C. L. Everett,
Attorneys

D. L. H. MITCHELL.
Plows.

No. 152,150

Patented June 16, 1874.

WITNESSES:
A. L. C. C. C. C.

INVENTOR

D. L. H. Mitchell.

Attorneys.

E. WIARD.
Plows.

No. 152,445

Patented June 23, 1874.

Witnesses.

Inventor.

Edward Wiard.

M. F. WHITE
Plows.

No. 153,645

Patented July 28, 1874.

WITNESSES:
G. H. H. H.

INVENTOR

M. F. White.

ATTORNEYS.

J. URIE.
Plows.

No. 156,609.

Patented Nov. 3, 1874.

WITNESSES

INVENTOR

Mary F. Urie.

Attorneys.

S. D. WRIGHT
Plows.

No 157,057.

Patented Nov. 17, 1874.

Witnesses:
C. J. Brown
H. Church

Inventor:
S. D. Wright
by H. H. H. H.

A. B. KELLOGG.
Plows.

No 157,204.

Patented Nov. 24, 1874.

WITNESSES:

Witnesses:
C. J. Brown
H. Church

INVENTOR:

Inventor:
A. B. Kellogg
by H. H. H. H.

A. B. KELLOGG.
Plows.

No 157,204.

Patented Nov. 21, 1874.

WITNESSES:

Witnesses:
A. B. Kellogg
A. H. H. H.

INVENTOR:

Inventor:
A. B. Kellogg
by H. H. H. H.

ATTORNEYS.

F. STRIDDE
Plows.

No 157,887.

Patented Dec. 15, 1874.

WITNESSES:

Witnesses:
A. B. Kellogg
A. H. H. H.

INVENTOR:

Inventor:
F. Stridde
by H. H. H. H.

H. D. SMITH
Plows

No 158,186

Patented Dec. 29, 1874

WITNESSES:

James A. ...
...

INVENTOR:

H. D. Smith
BY *...*
ATTORNEYS.

V. M. CHAFEE.
Stump-Plows

No. 158,468.

Patented Jan. 5, 1875.

WITNESSES

...
...

INVENTOR:

V. M. Chafee
ATTORNEYS.

J. YOCOM.
Plows.

No. 158,561

Patented Jan. 5, 1875.

WITNESSES

...
John C. Barker

INVENTOR:

John Yocom

H. GALE
Plow.

No. 159,174

Patented Jan. 26, 1875.

WITNESSES:
...
...

INVENTOR:
H. Gale
...

H. GALE.
Plow.

No. 7,253.

Reissued Aug. 8, 1876.

Attest:
Edward Barthel
C. R. Sheet

Inventor:
H. Gale
By atty
John S. Thompson

A. HAMPE.
Plow.

No. 159,321

Patented Feb. 2, 1875

WITNESSES:

Charles A. A. A.
(Attorney)

INVENTOR:

A. Hampe
By atty
Munich
ATTORNEY

S. S. AUGHE.
Plow.

No. 159,377

2 Sheets--Sheet 1

Patented Feb. 2, 1875.

WITNESSES:

John S. Thompson
John S. Thompson

INVENTOR:

S. S. Aughe, Jr.
Cannell and Co. his atty

S. S. AUGHE.
Plow.

No. 159,377

2 Sheets--Sheet 2

Patented Feb. 2, 1875

WITNESSES:

John S. Thompson
John S. Thompson

INVENTOR:

S. S. Aughe, Jr.
Cannell and Co. his atty

C. G. COX.
Plow.

No. 159,905

Patented Feb. 16, 1875

Fig. 1

Fig. 2

WITNESSES

Henry A. Smith
Isaac A. Smith

INVENTOR

Charles G. Cox
Per *Charles G. Cox*
Attorney

C. R. DUGDALE & D. BREED.
Plow.

No. 160,086

Patented Feb. 23, 1875

Fig. 1

Fig. 2

Fig. 3

Fig. 4

WITNESSES
Geo. H. Bunker
W. B. Cuyler

INVENTORS

Charles R. Dugdale
David Breed
J. H. Bunker

A. HAMPE.
Plow.

No. 160,094

Patented Feb. 23, 1875

Fig. 3

Witnesses:

Charles H. Cox
Isaac A. Smith

Inventor:

Per *A. Hampe*
Attorneys.

J. O. MINOR.
Plow.

No. 160,836

Patented March 16, 1875

Witnesses

J. O. Minor
Attorney

Inventor

John O. Minor
Attorney

W. ADAMS.
Plow.

No 160,989

Patented March 23, 1875

J. LANE
Plow.

No 162,240

Patented April 20, 1875.

C. A. HEGE.
Plow.

No 162,549

Patented April 27, 1875.

H. OLSON.
Plow.

No 164,025.

Patented June 1, 1875.

B. C. BRADLEY.
Plow.

No 164,134

Patented June 8, 1875.

Witnesses:

4. 1/2

Inventor:

J. B. NORRIS, M. M. BOWERS & W. C. DIMMOCK
Plow

No 164,201.

Patented June 3, 1875

*Wm. B. Adams
Hess & Bowers,
Wm. H. Thompson,
By their Attorney
Geo. S. Gulliver Jr.*

J. B. NORRIS. M. M. BOWERS & W. C. DIMMOCK.
Plow.

No. 164,201.

Patented June 8, 1875.

Mont.
W. L. Under
No. 4. Guttenberg

Joint Inventors,
 John E. Harris,
 Thomas H. Bannister,
 Wm. D. Dimmock,
 Thos. H. Waring,
 & Associates.

C. MYERS
Plow.

No 164 471

Patented June 15, 1875.

1870
1871
1872

Imcolor
U. ...
...

J. R. SAMPLE.

Flow.

No. 165,676.

Patented July 20, 1875.

WITNESSES:

Polou. Ke non

INVENTOR:

INVENTOR:
Jacob R. Sample.
BY *Wm. T. B.*

G. & T. WARD

Plow.

No. 165,903

Patented July 20, 1875.

WITNESSES:

Chas. L. Laro
A. F. T. T. T.

INVENTOR:

INVENTOR:
 81 *Henry Wear and*
Minna Wear
Minna L.

G. & T. WIARD.

PLOW.

No. 7,075.

Reissued April 25, 1876.

Charles J. Guichart
G. K. Woodward

George Ward.
Thomas Ward Inventors
By Edwin and Wilhelmina
Attorneys

J. MIDDLEBITCH.

P f D W S .

No. 166,127.

Patented July 27, 1875.

Witnesses:

Dr. Nathan
Merrill

Inventor:

John Meddick
for George

C. H. GAYLORD & E. M. AYERS.

Stalk-Cutter.

No. 166,200.

Patented Aug. 3, 1875.

Fig. 1.

Fig. 2.

WITNESSES:
A. M. Mummen
A. M. Boone

INVENTORS:
Charles H. Gaylord
Edward M. Ayers
Leppert & Leppert, Attorneys

H. KROG, Sr.

Plow.

No. 166,281.

Patented Aug. 3, 1875.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:
A. H. Amundson
A. F. Terry

INVENTOR:
H. Krog, Sr.
By M. M. Ke
 ATTORNEYS.

T. M. BROUS.

Plow.

No. 166,586.

Patented Aug. 10, 1875.

Fig. 1. Side Elevation

Fig. 2. Section on x-x

Fig. 3. Partial section on y-y

WITNESSES:

Charles Deany
H. M. Deany

INVENTOR:

T. M. Brous

W. S. WADSWORTH.

Plow.

No. 166,734.

Patented Aug. 17, 1875.

Fig. 1.

Fig. 2.

Witnesses:

Chas. H. K.
H. M. Deany

INVENTOR:

Wilson & Wadsworth
By J. M. Wadsworth
 atty.

M. ORMOND.
Plow.

No. 167,686.

Patented Sept. 14, 1875.

Witnesses:
T. C. Dapert
Joseph H. Hayes

Inventor:
Mordred Ormond

I. FREEMAN.
Plow.

No. 167,756.

Patented Sept. 14, 1875.

Witnesses:
W. C. Williams
John Kemon

Inventor:
I. Freeman
BY
Attorneys

W. H. McCUNE.
Plow.

No. 169,716.

Patented Nov. 9, 1875.

Witnesses:
J. C. Rogers
Clausius L. Parker

Inventor: William H. McCune.
By George N. Christy,
his Atty.

H. H. HUBLEY.
Plow.

No. 171,022.

Patented Dec. 14, 1875.

Witnesses:
W. B. Miley
J. Stauffer

Inventor:
H. H. Hubley.

H. D. STRAIGHT.

PLOW

No. 173,869.

Patented Feb. 22, 1876.

WITNESSES:

Chas. N. Nicks
Alex. F. Roberts

INVENTOR:

H. D. Straight
 BY *mmu*
 ATTORNEYS.

P. CHEVALIER.

PLOW.

No. 174,115.

Patented Feb. 29, 1876.

WITNESSES.

J. W. Barnes
F. M. Burnham

INVENTOR:

P. Chevalier
 BY *F. A. L...*

J. W. WRIGHT.

PLOW

No. 174,338

Patented Feb. 29, 1876.

Witness
James H. Wright
John H. Wright

INVENTOR:
J. W. Wright
 BY *Thos. D. Wright*

A. W. JOHNSON.

PLOW.

No. 174,367.

Patented March 7, 1876.

Witnesses

Amos H. Johnson
Samuel H. Johnson

INVENTOR:

Andrew W. Johnson
 BY *Robert H. Johnson*
 Attys.

J. T. WATKINS.

PLOW.

No. 175,311.

Patented March 29, 1876.

G. & T. WIARD.

PLOW.

No. 175,889.

Patented April 11, 1876.

A. G. W. FOSTER.

PLOW.

No. 176,465.

Patented April 25, 1876.

S. B. WARD.

PLOW.

No. 176,717.

Patented April 25, 1876.

S. E. WARD.
PLOW.

2 Sheets—Sheet 2.

No. 176,717

Patented April 25, 1876.

WITNESSES

Herland Burdett
H. H. H.

INVENTOR

Samuel B. Ward
By H. H. H.

J. P. & J. E. PRUTZMAN & J. P. MCINTYRE.
PLOW.

2 Sheets—Sheet 1.

No. 177,000

Patented May 2, 1876.

Attest
Edward Burdett
H. H. H.

Inventor.
J. P. Prutzman
J. E. Prutzman
J. P. McIntyre
By Atty.
H. H. H.

J. P. & J. E. PRUTZMAN & J. P. MCINTYRE.
PLOW.

2 Sheets—Sheet 2

No. 177,000

Patented May 2, 1876.

Attest
Edward Burdett
H. H. H.

Inventor.
J. P. Prutzman
J. E. Prutzman
J. P. McIntyre
By Atty.
H. H. H.

I. R. KERN.
PLOW.

2 Sheets—Sheet 1.

No. 177,254.

Patented May 9, 1876.

WITNESSES

Henry M. Miller
C. R. Everett

INVENTOR

Isaac R. Kern
By Atty.
H. H. H.

R. CASSIDY, T. B. LAMB & C. L. VAUGHAN.

PLOW.

No. 177,469.

Patented May 15, 1876.

WITNESSES:

E. Moff
John Goethals

INVENTOR:

R. Cassidy
T. B. Lamb
C. L. Vaughan
Mumford
ATTORNEYS

G. J. OVERSHINER.

PLOW.

No. 178,024

Patented May 30, 1876

Witnesses

Geo. H. Offenberg
John W. Horne

Inventor

G. J. Overshiner
by R. W. H. H. H.

S. W. POPE

PLOW.

No. 178,877.

Patented June 20, 1876.

Witness
S. W. Pope
John Goethals

Inventor

S. W. Pope
by John T. H. H.
H. H.

J. SHICKEL.

PLOW.

No. 178,970.

Patented June 20, 1876

WITNESSES:

E. Moff
John Goethals

INVENTOR:

J. Shickel
by Mumford
ATTORNEYS

G. WIARD & C. W. HOUGH.
PLOWES.

No. 180,511.

Patented Aug. 1, 1876.

W. N. BELL.
PLOWES.

No. 180,742.

Patented Aug. 8, 1876.

WITNESSES.

Wm. Barnes,
J. M. Burnham.

INVENTOR.

W. N. Bell,
By J. H. Plummer, Attorney.

J. PENTREATH.
ADJUSTABLE FLOW-BEAM.

No. 181,471.

Patented Aug. 22, 1876.

WITNESSES.
Harold S. O'Connell,
Henry K. Miller.

INVENTOR
John Pentreath,
By T. H. Allen, Attorney.

W. STEPHENSON.
PLOWES.

No. 181,493.

Patented Aug. 22, 1876.

WITNESSES.

John Gresham,
John A. Gresham.

INVENTOR.

W. Stephenson,
By Henry Gresham,
Attorney.

J. S. HARTZELL.
PLOW.

No. 181,842.

Patented Sept. 5, 1876.

WITNESSES:
H. H. Thompson
John Northall

INVENTOR:
J. S. Hartzell
BY *Mum*
ATTORNEYS.

M. P. SPARKS.
PLOW

No. 191,873.

Patented Sept. 5, 1876.

WITNESSES:
E. H. H. H.
John Northall

INVENTOR:
M. P. Sparks
BY *Mum*
ATTORNEYS.

J. SMOOT, Sr.
PLOW.

No. 182,489.

Patented Sept. 19, 1876.

WITNESSES:
H. H. H. H.
C. L. H. H.

INVENTOR:
Joseph Smoot Sr.
H. H. H. H.
ATTORNEYS.

G. T. HEDRICK.
PLOW

No. 183,393.

Patented Oct. 17, 1876.

WITNESSES:
H. H. H. H.
C. L. H. H.

INVENTOR:
Geo. T. Hedrick
H. H. H. H.
ATTORNEYS.

P. HOLLOWAY.
FLOW

No. 185,235

Patented Dec. 12, 1876.

Witnesses:
M. H. H. H.
W. H. H. H.

Inventor:
Peter Holloway
By Daniel Breed

C. BILLUPS.
PLOW

No. 185,383.

Patented Dec. 19, 1876.

Witnesses:
P. B. D. H.
Frank D. H.

Inventor:
Crazy Billups.
Per C. H. Watson & Co. Attorneys.

C. W. FLIPPEN.
FLOW

No. 185,437

Patented Dec. 19, 1876.

2 Sheets—Sheet 1.

Witnesses:
J. A. H. H.
J. H. H.

Inventor:
Charles W. Flippen
By Two Attorneys:
Baldwin, Hopkins & Payton

C. W. FLIPPEN.
FLOW

No. 185,437.

Patented Dec. 19, 1876.

2 Sheets—Sheet 2.

Witnesses:
J. A. H. H.
J. H. H.

Inventor:
Charles W. Flippen.
By Two Attorneys:
Baldwin, Hopkins & Payton.

C. MYERS.

FLOW

No. 185,450.

Patented Dec. 19, 1876.

WITNESSES

Robert Byrd
H. Crosby

INVENTOR

Christian Myers
W. G. Brimley

J. OLIVER.

FLOW.

No. 185,833.

Patented Jan. 2, 1877.

WITNESSES

Ed. S. Nottingham
J. M. Williams

INVENTOR

James Oliver
Bigg & Bigg
 ATTORNEYS

S. HUBER.

FLOW.

No. 186,088.

Patented Jan. 9, 1877.

WITNESSES

Thomas M. Wells
J. H. Scarborough

INVENTOR

S. Huber
W. M. Wells
 ATTORNEYS

J. W. HENDLEY.

FLOW.

No. 186,130.

Patented Jan. 9, 1877.

WITNESSES

Ed. S. Nottingham
J. H. Scarborough

INVENTOR

J. W. Hendley
W. M. Wells
 ATTORNEYS

J. RUCH

FLOW.

No. 187,320.

Patented Feb. 13, 1877

WITNESSES:

H. Rydquist
J. H. Scarborough

INVENTOR:

J. Ruch
BY *Mum*
ATTORNEY

I. R. KERN.

FLOW.

No. 188,018.

Patented March 6, 1877.

Fig. 3

Witnesses
Fred. C. Distenfeld
W. E. Schaffer

INVENTOR
I. R. Kern

BY *J. H. C. Allen*
ATTORNEY

P. G. MILLER.

FLOW.

No. 188,166.

Patented March 6, 1877.

Witnesses
Edmund Holstensen
J. H. C. Allen

INVENTOR:

Peter G. Miller
BY *Levi Rogers & Co.*
ATTORNEYS

G. W. PETERSON

FLOW.

No. 188,176.

Patented March 6, 1877.

WITNESSES
Frederic L. Ouland
C. L. Ewert

INVENTOR
G. W. Peterson
BY *Charles H. Hager*
ATTORNEYS

E. WIARD.
FLOW.

No. 188,555.

Patented March 20, 1877.

R. B. THOMSON.
FLOW.

No. 189,151.

Patented April 3, 1877.

J. REICH.
FLOW.

No. 189,496.

Patented April 10, 1877.

G. WIARD & C. W. HOUGH.
FLOW.

No. 189,685.

Patented April 24, 1877.

A. LAUER & J. HARTMANN.
PLOW.

No. 190,500.

Patented May 8, 1877.

2 Sheets—Sheet 1.

W. M. TOWERS.
PLOW.

No. 190,932.

Patented May 15, 1877.

A. LAUER & J. HARTMANN.
PLOW.

No. 7,803:

Reissued July 17, 1877.

3 Sheets—Sheet 2.

W. M. TOWERS.
PLOW.

No. 190,932.

Patented May 15, 1877.

J. D. BOWEN.
FLOW.

No. 191,022.

Patented May 22, 1877.

Fig. 3.

WITNESSES:

John H. Smith
John H. Smith

INVENTOR:

J. D. Bowen
Attorney

ATTORNEY.

W. S. LAWRENCE.
FLOW.

No. 191,446.

Patented May 29, 1877.

Fig. 1.

Fig. 5.

Fig. 4.

Fig. 7.

Fig. 3.

Fig. 6.

Fig. 9.

Fig. 10.

Attest:

W. S. Lawrence
Attorney

Fig. 8.

INVENTOR:

W. S. Lawrence
Attorney

ATTORNEY.

La F. W. LILES.
FLOW.

No. 191,680.

Patented June 5, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:

Charles H. Liles
W. H. Gray

INVENTOR:

Lafayette W. Liles
Attorney

ATTORNEY.

W. PAINTER.
STUMP-FLOW.

No. 192,930.

Patented July 10, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

WITNESSES:

E. H. H. H.
Attorney

INVENTOR:

W. Painter
Attorney

ATTORNEY.

T. B. JONES.
PLOW.

No. 194,553.

Patented Aug. 28, 1877.

WITNESSES
Edw. A. Applegate
H. M. Bright

INVENTOR
Thomas B. Jones
By H. A. Seymour,
ATTORNEY

E. K. EMERSON.
MOLD-BEARD PLOW.

No. 194,961.

Patented Sept. 11, 1877.

WITNESSES
A. H. Hildy
H. S. Brecher

INVENTOR
E. K. Emerson
By H. M. Bright &
Co.,
ATTORNEYS

O. F. PHILLIPS.
PLOW.

3 Sheets—Sheet 1.

No. 195,303

Patented Sept. 18, 1877.

Witnesses:
Colburn Brooks
R. H. Lacey

INVENTOR
O. F. Phillips
By R. H. Lacey,
ATTORNEY

O. F. PHILLIPS.
PLOW.

3 Sheets—Sheet 2.

No. 195,303

Patented Sept. 18, 1877.

WITNESSES
Colburn Brooks
R. H. Lacey

INVENTOR
O. F. Phillips
By R. H. Lacey,
ATTORNEYS

O. F. PHILLIPS.
PLOWS.

3 Sheets—Sheet 3.

No. 195,303.

Patented Sept. 18, 1877.

Witnesses
Colburn & Brookes
R. H. Lacey

Inventor:
Oscar F. Phillips
By Robt. A. Lacey
Attorney

J. SEAMAN.
PLOWS.

3 Sheets—Sheet 1.

No. 195,406.

Patented Sept. 18, 1877.

Witnesses
Joe B. Connolly
A. Connolly

Inventor
Joseph Seaman
Connolly Bros.
Attorneys

J. SEAMAN.
PLOWS.

3 Sheets—Sheet 2.

No. 195,406.

Patented Sept. 18, 1877.

Witnesses
Joe B. Connolly
A. Connolly

Inventor
Joseph Seaman
Connolly Bros.
Attorneys

J. SEAMAN.
PLOWS.

3 Sheets—Sheet 3

No. 195,406.

Patented Sept. 18, 1877.

Witnesses
Joe B. Connolly
A. Connolly

Inventor
Joseph Seaman
Connolly Bros.
Attorneys

J. J. PIATT.
Plow.

No. 195,642.

Patented Sept. 26, 1877.

WITNESSES
George T. C. H. H. H.
J. J. Piatt, Inventor.
George T. C. H. H. H.,
ATTORNEYS.

J. POSEY.
Plow.

No. 197,494.

Patented Nov. 27, 1877.

Witnesses
J. H. H. H.
J. H. H. H.
James Posey, Inventor.
By H. H. H. H.,
ATTORNEYS.

W. M. TOWERS.
Plow

No. 197,691.

Patented Nov. 27, 1877.

WITNESSES
E. H. H. H.
W. M. Towers, Inventor.
E. H. H. H.,
ATTORNEYS.

H. WIARD.
Plow.

2 Sheets—Sheet 1

No. 197,918

Patented Dec. 4, 1877

Witnesses
Thomas Johns
F. White
Henry Ward, Inventor.
By J. H. H. H.,
ATTORNEYS.

H WIARD.
Plow.

2 Sheets—Sheet 2.

No. 197,918.

Patented Dec. 4, 1877

Fig. 4B

Fig. 4A

Fig. 6.

Fig. 7.

Witnesses:
Thomas Gohus
A. White

Inventor:
Harry Wiard
By J. H. Lawrence

H. WIARD.
Plow.

No. 9,189.

Reissued May 4, 1880.

Fig. 1

Fig. 3.

Fig. 2

Fig. 5.

Fig. 4.

Witnesses:
J. H. Lawrence
A. White

Inventor:
Harry Wiard

H WIARD.
Plow.

No. 9,190.

Reissued May 4, 1880.

Fig. 1.

Fig. 2.

Witnesses:
J. H. Lawrence
A. White

Inventor:
Harry Wiard

W. W. DAWSON.
Plow.

No. 198,002.

Patented Dec. 11, 1877.

Fig. 1

Fig. 2.

Witnesses:
W. H. Ridgway
J. H. Lawrence

Inventor:
W. W. Dawson
By H. H. H. H.
ATTORNEYS.

H. GALE.
Plow.

No. 200,861.

Patented March 5, 1878.

Witnesses:
S. L. Apple
Chas. Russell.

Inventor:
H. Gale
By Atty.
S. D. Sprague

S. H. BOGENRIEF & W. PATTISON.
Plow.

No. 201,153.

Patented March 12, 1878.

WITNESSES:
J. Henry Bitt
C. H. Woodward

Inventors:
Samuel Bogenrief
William Pattison,
INVENTORS, BY,
Louis Dresser Blos.
Atty.

2 Sheets—Sheet 1.

P. H. BURNS & W. G. McELHANY.
Plows.

No. 201,222.

Patented March 12, 1878.

WITNESSES:

J. A. Jones
J. H. Scarborough

INVENTOR:
P. H. Burns
W. G. McElhany
BY Atty.
Munn & Co.
ATTORNEYS.

2 Sheets—Sheet 2

P. H. BURNS & W. G. McELHANY.
Plows.

No. 201,222.

Patented March 12, 1878.

WITNESSES:

J. A. Jones
J. H. Scarborough

INVENTOR:
P. H. Burns
W. G. McElhany
BY Atty.
Munn & Co.

C. A. WEED.
Plow.

No. 201,471.

Patented March 19, 1878.

WITNESSES:

O. C. Stoll
Charles Smith

INVENTOR

Clinton A. Weed
By J. H. Smith
Att'y in fact

L. EBERLE, Sr., E. EBERLE & L. EBERLE, Jr.
Plow.

No. 201,510.

Patented March 19, 1878.

WITNESSES

John Smith
John Smith
John Smith

INVENTOR

L. Eberle, Sr.
E. Eberle
L. Eberle, Jr.
By J. H. Smith
Att'y in fact

ATTORNEYS

C. KOPPENHEFFER.
Plow.

No. 201,786.

Patented March 26, 1878.

WITNESSES:

W. W. Hollingsworth
Edw. W. Byn

INVENTOR

C. Koppenheffer
By J. H. Smith
Att'y in fact

ATTORNEYS

G. W. & W. F. WIMPÉE.
Plow.

No. 202,688.

Patented April 23, 1878.

Witness

John Pratt
John & Wilson

INVENTORS

George W. Wimpée
William F. Wimpée

J. OLDENDORPH, Jr.
Plow.

No. 202,746. Patented April 23, 1878.

WITNESSES:

Chas. W. Vora
C. Schuyler

INVENTOR:

J. Oldendorph, Jr.
BY *Mumme*

ATTORNEYS

G. S. HAVEN.
Plow.

No. 202,817. Patented April 23, 1878.

WITNESSES

F. L. Curran
W. H. H. H. H.

INVENTOR

George S. Haven
Wm. H. H. H.

ATTORNEYS

G. & P. REESE.
Plow.

No. 203,192. Patented April 30, 1878.

WITNESSES:

Wm. H. H. H.
W. H. H. H.

INVENTOR

G. & P. Reese
Wm. H. H. H.

ATTORNEYS

F. NITSCHMANN.
Plow.

No. 204,361. Patented May 28, 1878.

Fig. 3.

WITNESSES

Wm. H. H. H.
W. H. H. H.

INVENTOR

F. Nitschmann
Wm. H. H. H.

ATTORNEYS

J. LANE.
Plow.

No. 204,902.

Patented June 18, 1878.

M. ROSS.
Vineyard-Plow.

No. 204,998.

Patented June 18, 1878.

Witnesses

Geo. B. Strong.
Frank A. Brewster.

Inventor

M. Ross.
J. H. Hill.

J. LANE.
Plow.

No. 205,491.

Patented July 2, 1878.

C. E. RUNTER.
Plow.

No. 205,552.

Patented July 2, 1878.

L. GIBBS.
Plow.

2 Sheets—Sheet 1

No. 205,631.

Patented July 2, 1878.

L. GIBBS.
Plow.

2 Sheets—Sheet 2

No. 205,631.

Patented July 2, 1878.

L. LING.
Plow.

No. 205,657.

Patented July 2, 1878.

O. F. PHILLIPS.
Plow.

No. 205,977.

Patented July 16, 1878.

F. STRIDDE.
Plows.

No. 206,639.

Patented July 30, 1878.

J. MARTIN.
Plow.

No. 206,806.

Patented Aug. 6, 1878.

C. P. McWANE.
Plow.

No. 206,958.

Patented Aug. 13, 1878.

C. P. McWANE.
Plow.

No. 206,958.

Patented Aug. 13, 1878.

L. GIBBS.
Plow.

No. 207,174.

Patented Aug. 20, 1878.

WITNESSES
E. J. Adlingtonham
Am. Bright

INVENTOR
Lewis Gibbs.
By S. J. Sargent & S. J. Sargent
ATTORNEYS

F. K. JENNINGS.
Plow.

No. 207,873.

Patented Sept. 10, 1878.

Witnesses:

Ben. B. B.
Ch. Ch.

Inventor:

Frank K. Jennings

J. LANE.
Plow.

No. 209,174.

Patented Oct. 22, 1878.

Witnesses,

William C. H. H.
W. D. H.

Inventor

John Lane

A. GOODYEAR.
Plow.

No. 209,758.

Patented Nov. 12, 1878.

Witnesses.

A. B. H.
J. G. H.

A. Goodyear
Inventor:
D. F. H.
H. H.

J. A. SMITH
Plow

No. 209,779.

Patented Nov. 12, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses.
John Stanley
Bretton Thurlow

Inventor.

James A. Smith
By E. M. Moore, atty in fact

T. E. JEFFERSON.
Plow.

No. 210,202.

Patented Nov. 26, 1878.

Witnesses
Henry Chadburn
Douglas Munroe.

Inventor
Thomas E. Jefferson
By H. E. Jones, atty

T. E. JEFFERSON.
Plow.

No. 210,202.

Patented Nov. 26, 1878.

Witnesses.
Henry Chadburn
Douglas Munroe.

Inventor.
Thomas E. Jefferson
By H. E. Jones, atty

J. URIE, Sr.
Plow.

No. 210,728

Patented Dec. 10, 1878.

Witnesses
John A. Lee
Robert Somers

Inventor
James Urie, Sr.
By H. E. Jones, atty

J. I. EAVENSON.
Plow.

No. 211,557.

Patented Jan. 21, 1879.

Witnesses

J. W. Garner
H. S. D. Warner

Inventor

Jas. I. Eavenson
By F. A. Lehmann,
att.

W. H. WILDER.
Plow.

No. 211,822.

Patented Jan. 28, 1879.

Witnesses

Edw. L. Schmitt
J. A. Schmitt

Inventor

W. H. Wilder
By Daniel Breed,
att.

G. DODGE.
Plow.

No. 211,892.

Patented Feb. 4, 1879.

Witnesses

W. C. Butler
Geo. C. MacChesney

INVENTOR

George Dodge.
By Edwin P. Maccher,
Attorneys

G. DODGE.
Aligner of one-half interest to E. ALLEN
Plow.

2 Sheets—Sheet 1.

No. 8,926.

Reissued Oct. 14, 1879.

WITNESSES

E. J. Nottingham
Attorneys

INVENTOR

George Dodge.
By Daniel Breed & Son,
Attorneys

2 Sheets—Sheet 2

G DODGE,
Assignor of one-half interest to E ALLEN
Plow.

No. 8,926.

Reissued Oct. 14, 1879.

WITNESSES:
C. J. Nottingham
Amos Wright

INVENTOR:
George Dodge
By Sargent & Sargent
ATTORNEYS

T. CARLSON.
Plow.

No. 212,188.

Patented Feb. 11, 1879.

WITNESSES:
J. M. Thompson
Thos. Munger

Inventor:
Thos. Carlson
By H. J. Curtis,
Attorney

L. E. WOODWARD.
Plow.

No. 212,295.

Patented Feb. 11, 1879.

WITNESSES:
Thomas M. Corbett,
G. S. Sweeney

INVENTOR:
L. E. Woodward
BY Munroe
ATTORNEYS

A. GOODYEAR.
Plow.

No. 213,188

Patented Mar. 11, 1879.

Witnesses:
A. R. Ransom,
J. B. Mason.

Inventor:
A. Goodyear
By J. P. Holliman & Co.
Attorneys

W. S. JOHNSON
Plow.

No. 213,661.

Patented Mar. 25, 1879.

Fig. 1.

Fig. 2.

Witnesses:

John Russell
Alfred Johnson

Inventor:

Wm. S. Johnson
per C. A. Snow & Co.

J. SEAMAN.
Plow.

No. 214,201.

Patented April 8, 1879.

Witnesses:

J. W. Gainer
H. D. Kneiss

per J. Seaman
F. A. Schuman

T. MEIKLE & B. COLEMAN.
Plow.

No. 214,259.

Patented April 15, 1879.

Fig. 1.

Fig. 4.

Fig. 2.

Fig. 3.

Witnesses:

A. Ruppert
W. M. Seaman

Thomas Meikle
B. Coleman
Inventors.

D. H. Holloway & Co.
Attys

A. W. WASHBURN.
Plow.

No. 214,476.

Patented April 15, 1879.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 5.

Fig. 4.

Witnesses:

B. D. Kneiss
D. H. Holloway & Co.

Inventor:

Amos W. Washburn
D. W. R. Slaughter
Attys

C. O. WILDER.
Plow.

No. 214,737. Patented April 22, 1879.

Witnesses:
M. N. Burroughs
C. H. Richards

Inventor:
C. O. Wilder
By H. S. Richards, atty.

J. KINSTLER.
Plow.

No. 214,924. Patented April 29, 1879.

Witnesses:
Henry A. Miller
C. H. Richards

Inventor:
J. Kinstler
By H. S. Richards, atty.

J. W. KLINELINE.
Plow.

No. 215,634. Patented May 20, 1879.

Witnesses:
Edw. Crook
Clinton Combs

Inventor:
J. W. Kline
By J. L. Combs, atty.

J. W. KLINELINE.
Plow.

No. 215,634. Patented May 20, 1879.

Witnesses:
Edw. Crook
Clinton Combs

Inventor:
J. W. Kline
By J. L. Combs, atty.

J. W KLINELINE.
Plow.

3 Sheets—Sheet 3

No. 215,634.

Patented May 20, 1879.

WITNESSES
Phil Smith
Vinton Coombs

INVENTOR
J W Kleinsind
J Moore, Jr.
ATTORNEY

J. M. MATTHEWS.
Plow.

No. 216,050.

Patented June 3, 1875.

INVENTOR.
J. H. Matthews
BY Matthews
ATTORNEYS.

E. WIARD.
Plow.

No. 216,772.

Patented June 24, 1879.

Witnesses:
G. H. Theobald
J. P. Theobald

Inventor.
Edward Weir &
Mason ^{by} ~~Attorneys~~ ^{Attorneys}

No. 216,773.

Patented June 24, 1879.

Witnesses:
J. P. M. Lany
J. H. Throvering

Inventor:
Edward Ward
Man. Frank Hanna

A. HACKMAN.
Plow.

No. 217,368.

Patented July 8, 1879.

WITNESSES:

A. Schell
C. Maynick

INVENTOR:

A. Hackman
BY *Munroe & Co.*
ATTORNEYS.

C. O. WILDER.
Plow.

No. 217,759.

Patented July 22, 1879.

Witnesses:
M. B. Darragh
T. B. Richards

Inventor:
Chas. O. Wilder
By *T. B. Richards*
ATTORNEYS.

F. GAUTIER.
Plow.

No. 218,253.

Patented Aug. 5, 1879.

WITNESSES:

Achilles Schell
C. Maynick

INVENTOR:

F. Gautier
BY *Munroe & Co.*
ATTORNEYS.

W. W. SPEER.
Plow.

No. 219,029.

Patented Aug. 26, 1879.

Witnesses:
E. J. Nottingham
H. W. Seymour

Inventor:
W. W. Speer
By *Bayne & Bayne*
ATTORNEYS.

H. WIARD & W. R. BULLOCK.
Plow.

No. 219,191.

Patented Sept. 2, 1879.

Witnesses:
Alex. Scott
Wm. J. Baxter

Inventor:
H. Wiard
W. R. Bullock
by J. J. G. G. G. G.

H. WIARD & W. R. BULLOCK.
Plow.

No. 219,191.

Patented Sept. 2, 1879.

Witnesses:
Alex. Scott
Wm. J. Baxter

Inventor:
H. Wiard
W. R. Bullock
by J. J. G. G. G. G.

W. W. SPEER.
Plow.

No. 219,317.

Patented Sept. 2, 1879.

Witnesses:
C. H. Worthington
L. D. Thompson

Inventor:
W. W. Speer.
B. Seagott & Seagott,
ATTORNEYS.

M. BUTLER.
Plow.

No. 219,687.

Patented Sept. 16, 1879.

Witnesses:
A. Ruffebeck
W. H. T. T. T. T.

Inventor:
M. Butler
D. T. Holliman & Co.
Attys.

2 Sheets—Sheet 1

J. B. CRENSHAW.
Plow.

No. 221,034.

Patented Oct. 28, 1879.

Fig. 1

Fig. 3.

WITNESSES

John A. Allen
H. C. Huber, Treasurer

INVENTOR

John B. Crenshaw
ATTORNEYS

2 Sheets—Sheet 2

J. B. CRENSHAW.
Plow.

No. 221,034.

Patented Oct. 28, 1879.

Fig. 4

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

WITNESSES

John A. Allen
H. C. Huber, Treasurer

INVENTOR

John B. Crenshaw
ATTORNEYS

L. E. WOODWARD.
Plow.

No. 221,136.

Patented Oct. 28, 1879.

Fig. 1.

Fig. 2.

Witnesses,

W. A. Butman
Edw. H. Burdick

Inventor

L. E. Woodward
by *A. D. Williams*
Attorney

J. I. EAVENSON.
Plow.

No. 221,798.

Patented Nov. 18, 1879.

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses

J. W. Carter
Chas. H. Heston

Inventor,

Joe I. Eavenson
per *F. A. Eavenson*
att'y

R. ADAMSON.
Plow.

No. 221,901.

Patented Nov. 25, 1879.

9 Sheets—Sheet 1

J. S. & E. C. ROBINSON.
Plow.

No. 221,975.

Patented Nov. 25, 1879.

2 Sheets—Sheet 2.

A. GOODYEAR.
Plow.

No. 222,894.

Patented Dec. 23, 1879.

A. GOODYEAR.
Plow.

No. 222,894.

Patented Dec. 23, 1879.

L. CHAPMAN.
Plow.

No. 222,984.

Patented Dec. 30, 1879.

Witnesses:
R. F. Gaylord
M. F. Dooley

Inventor:
L. Chapman
By W. E. Simonds atty

P. KESSLER.
Plow.

No. 223,361.

Patented Jan. 6, 1880.

Witnesses:
And. Bryant
W. E. Simonds

Inventor:
P. Kessler
By W. E. Simonds atty

L. CHAPMAN.
Plow.

No. 223,579

Patented Jan. 13, 1880.

Witnesses:
R. F. Gaylord
M. F. Dooley

Inventor:
L. Chapman
By W. E. Simonds atty

L. CHAPMAN.
Plow.

No. 223,580.

Patented Jan. 13, 1880.

Witnesses:
R. F. Gaylord
M. F. Dooley

Inventor:
L. Chapman
By W. E. Simonds atty

A. G. CHRISTMAN.

Plow.

No. 223,666

Patented Jan. 20, 1880.

Fig 1

Witnesses
Frank P Kinsey
Frank Hartman

Inventor
Augustus G. Christman
Per Thomas P Kinsey
Atty

A. G. CHRISTMAN.

Plow.

No. 223,666.

Patented Jan. 20, 1880.

Fig 9

Fig 11

Fig 10

Witnesses
Frank P Kinsey
Frank Hartman

Inventor
Augustus G. Christman
Per Thomas P Kinsey
Atty

J. B. BRUCE.

Plow.

No. 223,987.

Patented Feb. 3, 1880.

Witnesses
J. M. Gordon
A. B. Perkins

Inventor
John B. Bruce
By R. S. & A. T. Lacey
Attorneys

G. WATT.

Plow.

No. 224,750.

Patented Feb. 17, 1880.

WITNESSES:
John S. C. Minter
Amos G. Cook

INVENTOR:
George Watt
BY R. S. & A. T. Lacey
ATTORNEYS

R. W. WHITEHURST.
Plow.

No. 224,753

Patented Feb. 17, 1880.

Witnesses:
Geo. A. Boyden,
A. C. Sader.

Inventor:
R. W. Whitehurst
By Geo. A. Boyden
Chas. B. Mann

M. S. BETTICE.
Sod-Cutter.

No. 225,324

Patented Mar. 9, 1880.

Witnesses:
Frank A. Curran,
J. W. Bentley.

Inventor:
M. S. Bettice
By Frank A. Curran
J. W. Bentley

A. L. CHUBB.
Plow.

No. 225,341.

Patented Mar. 9, 1880.

Witnesses:
A. Barthol
C. P. Sprague

Inventor:
A. L. Chubb
By A. Barthol
C. P. Sprague

L. BEGON.
Central Draft for Plows

No. 227,406.

Patented May 11, 1880.

Witnesses:
Frank A. Curran,
J. W. Bentley.

Inventor:
L. Begon
By Frank A. Curran
J. W. Bentley

S. L. ALLEN.
Plow.

2 Sheets—Sheet 1.

No. 227,606.

Patented May 18, 1880.

Witnesses

Wm. H. Smith
Harry Smith

Inventor
Samuel L. Allen
by his Attorneys
Johnson & Co.

S. L. ALLEN.
Plow.

2 Sheets—Sheet 2

No. 227,606.

Patented May 18, 1880.

Witnesses

Wm. H. Smith
Harry Smith

Inventor
Samuel L. Allen
by his Attorneys
Johnson & Co.

J. W. DAVIS.
Cultivator.

No. 227,741.

Patented May 18, 1880.

Witnesses
Wm. H. Smith
Harry Smith

Inventor
John W. Davis
by his Attorneys
Johnson & Co.

(No Model.)

J. P. PATERY.
Plow-Share Fastener.

No. 227,991.

Patented May 25, 1880.

Witnesses

Samuel L. Allen
Harry Smith

Inventor
John P. Paterly
by his Attorneys
Johnson & Co.

(No Model.)

J. HAFNER.
Plow.

No. 228,813.

Patented June 15, 1880.

Witnesses:
J. H. Schott
Ed. W. Johnson

Inventor:
Joseph Hafner,
per Herman N. Warner,
his Attorney.

(No Model.)

H. WIARD & W. R. BULLOCK.
Plow.

No. 229,217.

Patented June 22, 1880.

Witnesses:
Will. A. Davis
William A. Ross

Inventors:
H. Wiard
W. R. Bullock
per J. H. Johnson

(No Model.)

J. L. BRINLY.
Plow.

No. 229,367.

Patented June 29, 1880.

Witnesses:
Henry N. Miller
C. Stegman

INVENTOR:
J. L. Brinly
BY *M. H. [Signature]*
ATTORNEYS

(No Model.)

J. I. CASE.
Plow.

No. 229,954.

Patented July 13, 1880.

Witnesses:
D. C. Allen
H. D. [Signature]

Inventor:
J. I. Case
By W. O. Richards
attorney

J. S. GUM.
Plow.

No. 231,308.

Patented Aug. 17, 1880.

Witnesses:
Red & Nutchman,
J. S. Gum.

Inventor:
Joseph S. Gum,
by Charles W. Co.,
Attorneys.

J. ELCOCK.
Plow.

2 Sheets—Sheet 1

No. 231,778.

Patented Aug. 31, 1880.

Witnesses:
Jas & Hutchinson,
J. Elcock.

Inventor:
Jas Elcock,
by James L. Norris,
Atty.

J. ELCOCK.
Plow.

2 Sheets—Sheet 2

No. 231,778.

Patented Aug. 31, 1880.

Witnesses:
Jas & Hutchinson,
J. Elcock.

Inventor:
Jas Elcock,
by James L. Norris,
Atty.

(No Model.)

J. L. JUDD.
Plow

No. 231,810.

Patented Aug. 31, 1880.

Witnesses:
A. Johnson,
J. L. Judd.

Inventor:
Jas & Hutchinson,
J. L. Judd.

T. F. JONES.
Plow.

No. 231,913.

Patented Sept. 7, 1880.

N. G. PINNEY.
Plow.

No. 231,930.

Patented Sept. 7, 1880.

(No Model.)

E. MAY
Plow

No. 232,530.

Patented Sept. 21, 1880.

(No Model.)

N. O. ORRICK.
Plow.

No. 233,795.

Patented Oct. 26, 1880.

(No Model.)

2 Sheets—Sheet 1.

D. WOLF.
Plow.

No. 233,827.

Patented Oct. 26, 1880.

(No Model.)

2 Sheets—Sheet 2.

D. WOLF.
Plow.

No. 233,827.

Patented Oct. 26, 1880.

(No Model.)

H. F. EDEY.
Plow.

No. 234,008.

Patented Nov. 2, 1880.

N. H. FOSTER.
Plow.

No. 234,017.

Patented Nov. 2, 1880.

(No Model.)

T. MEIKLE.
Plow.

No. 234,920.

Patented Nov. 30, 1880.

Fig 1.

Fig 2.

Fig 3.

Fig 4.

Fig 5.

Witnesses.
A. Reppert.
J. G. Mason

Inventor.
T. Meikle
by J. G. Mason atty.

(No Model.)

D. CONDO.
Plow.

No. 235,341.

Patented Dec. 14, 1880.

FIG. 1.

FIG. 2.

FIG. 3.

FIG. 4.

Attest.
John H. Lynam
D. W. Moulton

Inventor.
Daniel Condo
by James H. Lynam
attorney

(No Model.)

J. MASSON.
Plow.

No. 235,369.

Patented Dec. 14, 1880

Fig 1

Fig 2

Fig 3

Witnesses.
W. S. Masson
W. E. Bowen

Inventor.
Joseph Masson
by C. E. Masson atty.

(No Model.)

R. C. MERITT.

Plow.

No. 235,639.

Patented Dec. 21, 1880.

Fig 1

Fig 2

Fig 3

Attest.
John H. Lynam
D. W. Moulton

Inventor.
R. C. Meritt
by C. E. Masson
attorney

(Model.)

G. E. SMITH.
Plow.

3 Sheets—Sheet 1.

No. 236,463.

Patented Jan. 11, 1881.

Witnesses:

James C. Chandler
H. Blair Jones

Inventor

George C. Smith.

(Model.)

G. E. SMITH.
Plow.

3 Sheets—Sheet 2.

No. 236,463.

Patented Jan. 11, 1881.

Witnesses:

James C. Chandler
H. Blair Jones

Inventor

George C. Smith.

(Model.)

G. E. SMITH.
Plow.

3 Sheets—Sheet 3.

No. 236,463.

Patented Jan. 11, 1881.

Witnesses:

James C. Chandler
H. Blair Jones

Inventor

Geo. C. Smith

(No Model.)

E. D. MELANÇON & J. H. AYRAND, Sr.
Plow.

No. 236,822.

Patented Jan. 18, 1881.

Witnesses:

A. Schuhl.
C. Daigne

Inventor

E. D. Melançon
J. H. Ayrand, Sr.
BY *M. M. M.*
ATTORNEYS.

(No Model.)

N. SWENSON, J. S. LINDQUIST & C. HEDLUND.
Plow.

No. 237,631.

Patented Feb 8, 1881.

Witnesses:
And G. Osterlund
Geo. A. Harsen

Inventor:
Nicholas Swenson
John S. Lindquist
Christian Hedlund
by Louis Bagnall

(No Model.)

C. BATES.
Plow.

No. 239,918.

Patented April 12, 1881.

Witnesses:
William Brown
M. K. K.

Inventor:
Charles Bates
per Charles W. Brown & Co.
Attys.

(No Model.)

P. KESSLER.
Plow.

No. 243,576.

Patented June 28, 1881.

Witnesses:
Geo. A. Brydner
A. C. Eades

Inventor:
Peter Kessler
By his Atty
Chas. B. Mann.

(No Model.)

N. S. BARGER.
Plow.

No. 244,787.

Patented July 26, 1881.

Witnesses:
J. T. Munson
J. P. Chester Long.

Inventor:
Nathaniel S. Barger
by his Atty
Moses Smith & Son

(No Model.)

A. BALL.
PLOW.

No. 245,429.

Patented Aug. 9, 1881.

Witnesses
W. B. Mason
J. S. Barker

Inventor:
Albert Ball
by Doubleday & Glass
attys

(No Model.)

J. N. HOAGLAND, H. L. CUMMING & F. G. TALLMAN.
PLOW.

No. 245,824.

Patented Aug. 16, 1881.

Charles B. Buehler
George J. Dodge

Inventors:
John N. Hoagland
Henry L. Cumming
Frank B. Tallman
by Nathan S. Brown
attys

(no Model)

A. RICHARD.
PLOW.

No. 247,110.

Patented Sept. 13, 1881.

Witnesses:
C. Numa
J. W. Scarborough

Inventor:
A. Richard
by Numa & Co.
attys

(No Model.)

J. S. & E. C. ROBINSON.
PLOW.

No. 252,139.

Patented Jan. 10, 1882.

Witnesses:
Henry C. Robinson
W. E. Shaffer

Inventors:
J. S. & E. C. Robinson
by Henry C. Robinson
Philip J. Dodge
attys

(No Model.)

J. S. & E. C. ROBINSON.
FLOW.

2 Sheets—Sheet 2

No. 252,139

Patented Jan. 10, 1882.

WITNESSES
Wm. R. Brown
H. D. L. L.

INVENTORS
John S. Robinson
Edson C. Robinson
by Geo. B. Sinden
Att'y

(No Model.)

F. NITSCHMANN
FLOW.

No. 252,585

Patented Jan. 17, 1882.

WITNESSES
Wm. R. Brown
H. D. L. L.

INVENTOR
F. Nitschmann
by Geo. B. Sinden
Att'y

(Model.)

N. SANDERS.
FLOW.

No. 252,972.

Patented Jan. 31, 1882.

WITNESSES
George E. Brown
Judson Buchanan

INVENTOR
N. Sanders

(Model.)

E. D. MEAGHER.
FLOW.

No. 253,408.

Patented Feb. 7, 1882.

WITNESSES
R. B. Barnes
L. N. L.

INVENTOR
Edmund D. Meagher
by Ellis Spear
Att'y

(Model.)

E. D. MEAGHER.

PLOW.

No. 253,408.

Patented Feb. 7, 1882.

Attest:
R. B. Barnes
S. W. Lacy

Inventor:
 Edmund D. Meagher
 by *Eli Spear*
 Attorney

(Model.)

A. G. CHRISTMAN.

PLOW.

No. 254,633.

Patented Mar. 7, 1882.

Witnesses:
Frank P. Kinney
Daniel C. Hiller

Inventor:
 Augustus G. Christman
 by *Thomas P. Kinney*
 Attorney

(Model.)

A. G. CHRISTMAN.

PLOW.

No. 254,633.

Patented Mar. 7, 1882.

Witnesses:
Frank P. Kinney
Daniel C. Hiller

Inventor:
 Augustus G. Christman
 by *Thomas P. Kinney*
 Attorney

(Model.)

J. GEORGE.

PLOW.

No. 254,634.

Patented Mar. 7, 1882.

WITNESSES:
Thos. Houghton
W. Read

INVENTOR:
 Joseph George
 BY *Wm. P. C.*
 ATTORNEYS.

(No Model.)

J. VANDEGRIFT.

PLOW.

No. 254,734

Patented Mar. 7, 1882.

Attest
J. H. Howard
John S. Schorner

Inventor
James Vandegrift
by J. H. Howard
(Att.)

(No Model.)

G. WIARD.

PLOW.

No. 256,370.

Patented Mar. 21, 1882

2 Sheets—Sheet 1

Attest
J. H. Howard
John S. Schorner
Witnesses

Inventor
George Wiard
by J. H. Howard
(Att.)

(No Model.)

G. WIARD.

PLOW.

No. 256,370.

Patented Mar. 21, 1882.

2 Sheets—Sheet 2

Attest
J. H. Howard
John S. Schorner
Witnesses

Inventor
George Wiard
by J. H. Howard
(Att.)

(No Model.)

A. C. TAYLOR.

VINEYARD PLOW.

No. 255,898

Patented Apr. 4, 1882.

Witnesses
C. A. Strong
Frank H. B. Smith

Inventor
A. C. Taylor
by J. H. Howard
(Att.)

(Model.)

F. SIMONDS.
PLOW.

2 Sheets—Sheet 1.

No. 256,750.

Patented Apr. 18, 1882.

Witnesses.

W. H. Bram
Charles

Inventor.

Fremont Simonds
By James Sangster
Att'y.

(Model.)

F. SIMONDS.
PLOW.

2 Sheets—Sheet 2.

No. 256,750.

Patented Apr. 18, 1882.

Witnesses—
W. H. Bram
Charles

Inventor.
Fremont Simonds
By James Sangster
Att'y.

(No Model.)

M. ROSS.
PLOW.

No. 257,241.

Patented May 2, 1882.

Witnesses
George Strong
Frank H. D. et al.

Inventor.

William Ross
By J. D. Dwyer
Att'y.

(Model.)

A. P. PUREFOY.
PLOW.

No. 258,115.

Patented May 16, 1882.

Witnesses:
J. H. Abbott
A. Poller

Inventor.
Alfred J. Purefoy
By J. H. Abbott
Att'y.

(No Model.)

A. BALL
PLOW.

No. 259,659

Patented June 20, 1882.

(No Model.)

L. B. WHITE
PLOW.

No. 260,072.

Patented June 27, 1882.

(No Model.)

L. B. WHITE.
PLOW.

3 Sheets—Sheet 2

No. 260,072.

Patented June 27, 1882.

Witnesses
Samuel A. Lacey
In M. Lacey

Inventor
Lewis B. White
By R. S. A. Lacey
Att'y

(No Model.)

L. B. WHITE.
PLOW.

3 Sheets—Sheet 3

No. 260,072.

Patented June 27, 1882.

Witnesses
J. A. Parker
Inventor
Lewis B. White
By R. S. A. Lacey
Att'y

(No Model.)

C. F. MOCK.
PLOW.

No. 260,772.

Patented July 11, 1882.

WITNESSES:

Frank Doster
C. K. Kest

INVENTOR:

Charles F. Mock
By *J. S. Herold*
Attorney

(No Model.)

J. QUIN.
PLOW.

No. 260,785.

Patented July 11, 1882.

WITNESSES:

W. W. Hollingsworth
H. Reed

INVENTOR:

John Quin
By *Wm. L. ...*
Attorneys

(No Model.)

J. M. BUCHANAN.
PLOW.

No. 261,528.

Patented July 25, 1882.

WITNESSES:

John L. Maran
James B. Egner

INVENTOR:

James M. Buchanan

(No Model.)

C. BEIDLER.
PLOW.

No. 261,986.

Patented Aug. 1, 1882.

Witnesses

Wm. ...
Harry Smith

Inventor

Charles Beidler
By *Wm. ...*
Wm. ...

(No Model.)

W. A. LEE.
PLOW.

No. 262,062.

Patented Aug. 1, 1882.

Witnesses:
J. B. Arnsperth
J. F. H. Hallen

Inventor:
W. A. Lee

(No Model.)

F. P. HOKE
PLOW.

No. 262,413.

Patented Aug. 8, 1882.

Witnesses:
J. B. Arnsperth
J. F. H. Hallen

Inventor:
F. P. Hoke
BY J. B. Arnsperth
ATTORNEYS

(No Model.)

J. A. PEEK.
PLOW.

2 Sheets—Sheet 1

No. 262,469.

Patented Aug. 8, 1882

Witnesses:
J. B. Arnsperth
J. F. H. Hallen

Inventor:
J. A. Peek
BY J. B. Arnsperth
ATTORNEYS

(No Model.)

J. A. PEEK.
PLOW.

2 Sheets—Sheet 2

No. 262,469.

Patented Aug. 8, 1882.

Witnesses:
J. B. Arnsperth
J. F. H. Hallen

Inventor:
J. A. Peek
BY J. B. Arnsperth
ATTORNEYS

(No Model.)

G. W. VERNON.
PLOW STANDARD.

No. 263,256.

Patented Aug. 22, 1882.

(No Model.)

R. K. HEALD, Dec'd.

L. M. HEALD, Administrator.

PLOW.

No. 263,289

Patented Aug. 22, 1882

(No Model.)

J. W. JORY.
PLOW.

No. 263,789.

Patented Sept. 5, 1882.

(Model.)

C. HANSON.
PLOW.

No. 264,828.

Patented Sept. 19, 1882.

(Model.)

C. HANSON.
PLOW.

2 Sheets—Sheet 2.

No. 264,828.

Patented Sept. 19, 1882.

WITNESSES
J. H. Hanson
J. H. Hanson

INVENTOR
Charles Hanson
per Chas. A. Fowler
Attorney

(No Model)

K. KELLOGG.
PLOW.

No. 264,885.

Patented Sept. 26, 1882.

Witness
John A. Perkins
James W. Randall

Inventor
Kirk Kellogg
per Lucius C. Root
Attorney

(No Model)

R. F. COCHRAN.
PLOW.

No. 266,484

Patented Oct. 3, 1882.

Witnesses
Robert L. Smith
W. H. Norris

Inventor
Reuben F. Cochran
per James L. Norris
Attorney

(Model)

H. O. KERNS.

2 Sheets—Sheet 1.

DEVICE FOR ATTACHING PLOW BEAMS TO HANDLES.

No. 267,911.

Patented Nov. 7, 1882.

Witnesses
Robert L. Smith
W. H. Norris

Inventor
H. O. Kerns
per F. A. Lehmann
Attorney

(Model.)

2 Sheets—Sheet 2

H. O. KERNS.

DEVICE FOR ATTACHING PLOW BEAMS TO HANDLES.

No. 267,311.

Patented Nov. 7, 1882.

Fig. 5.

—Witnesses.—

James F. Gardner
C. L. York

—Inventor.—

H. O. Kerns
per
F. R. Lehmann, atty.

(Model.)

L. S. PFOUTS.

PLOW.

No. 269,457.

Patented Dec. 19, 1882.

Attest

L. S. Pfouts
W. H. Roughton.

Inventor

Levy & Pfouts
per W. H. Roughton, atty.

POINTS.

	Plate Claim			Plate Claim			Plate Claim	
Anderson, C.	715	458	Gero, E. C. and Cooley,	700	452	Revercomb, J.	694	450
Anderson, C. and Oliver J.	715	458	J. N.			Reynolds, I.	693	450
Armstrong, R. A. J.	707	455	Gibbs, W., G. and Wikidal,			Robb, J.	693	450
Barr, J. H.	712	457	L. P.	698	452	Rogers, H. D.	695	451
Bates, L. M.	697	451	Gibbs, M. L.	703	453	Saladee, C. W. and Simp-		
Beach, W.	691	449	Hall, J. S.	695	451	son, T.	696	451
Bement, E.	695	451	Hall, H. G. and E. L.	697	452	schenck, J. C. F.	704	453
Bergen, C.	691	449	Hall, L. W.	712	457	Selden, D. J.	697	451
Beverly, J. W.	707	456	Harvey, B.	703	453	Smith, R.	709	456
Bowers, M. M.	705	454	Herring, J. F.	704	454	Snider, I.	692	449
“ “ “ (R)	705	454	Hildreth, G. W.	701	453	“ “ (A. I.)	692	450
“ “ “ (R)	706	455	Jenkins, C. W.	709	456	Sprouse, W. T.	693	450
Bowers, M. M.	710	456	Jenkins, W. F. and C. W.	711	457	Stewart, J. A.	694	451
Bowers, M. M.	714	458	Kerr, C. B.	700	453	Storle, O. O.	700	453
Browsher, N. P.	710	457	Kessler, P.	711	457	Strong, C. C.	704	454
Bronson, P. K.	696	451	Killefer, J.	714	458	Throp, G. W.	701	453
Brown, J. B. and Pen-			Kniphals, H.	698	452	Tirssler, W. H.	707	455
treath, J.	712	457	Lane, J.	698	452	Tirssler, W. H.	707	455
Bucher, J. R.	708	456	Lane, J.	699	452	Tucker, R. C.	715	459
Bullock, W.	693	450	Lane, J.	701	453	Turley, M.	710	456
Burch, L. D.	699	452	Lee, H. A.	703	453	Turner, W. J.	716	459
Caldwell, F. M.	700	453	Long, J.	711	457	Urie, T. S.	706	455
Calvin, L. H. and Wal-			McIntyre, A. L.	708	456	Walker, G. A.	695	451
lace, J.	705	454	Maschka, A.	696	451	Weeks, L. and Trimble,		
Cameron, W. F.	716	459	Myers, C.	703	453	J. S.	702	453
Chandler, B. F.	709	456	Nelson, D.	696	451	White, S. M. and Francis,		
Conklin, J. H.	691	449	Norton, H.	694	450	J. A.	711	451
Cook, W. H.	708	456	Oliver, J.	712	457	Williams, W. B.	698	452
Conaway, W. A.	708	456	Oliver, J.	713	457	Winans, R.	691	449
Cooper, G. W.	699	452	Oliver, J.	714	458	Wolf, D.	710	456
Cuming, T., Jr.	702	453	Peek, J. A.	704	454	Woodcock, B.	692	449
De Yampert, T. J.	694	450	Pinney, N. G.	706	455	“ “ (R)	692	449
Dicer, W.	716	459	Post, J. W.	692	450	Yeiser, C.	715	459
Edmunds, T.	702	453	Rams, T.	697	451	Zeller, J. P.	705	454
Ferguson, J. B. and White,			Ready, W. B.	706	455			
S. M.	701	453	Reed, L. M	699	452			

*C. Bergen.**Plow-Point**Patented Nov. 11, 1879* *A. Minors.**Plow.**Patented May 11, 1884.* *W. BEACHE.**Plow-Point**Patented Nov. 8, 1875.* *J. H. Carlson.**Flow-Point**Patented Jan. 3, 1870*

*W. Bullock**Plow**No. 1,127.**Patented July 30 1845*

Witnesses
W. A. Bullock
James A. Bullock

Inventor
W. Bullock

*W. T. Sample**Plow**No. 6179**Patented Mar. 13 1849* *I. REYNOLDS.**Plow-Point.**No. 7,223.**Patented Mar. 26, 1850**Fig. 1.* *Fig. 2.* *Fig. 3.* *Fig. 4.**Fig. 5.**Fig. 6.**Fig. 7.**Fig. 8.**Fig. 9.**Fig. 10.**Fig. 11.**Fig. 12.**Fig. 13.**Fig. 14.**Fig. 15.**Fig. 16.**Fig. 17.**Fig. 18.**Fig. 19.**Fig. 20.**Fig. 21.**Fig. 22.**Fig. 23.**Fig. 24.**Fig. 25.**Fig. 26.**Fig. 27.**Fig. 28.**Fig. 29.**Fig. 30.**Fig. 31.**Fig. 32.**Fig. 33.**Fig. 34.**Fig. 35.**Fig. 36.**Fig. 37.**Fig. 38.**Fig. 39.**Fig. 40.**Fig. 41.**Fig. 42.**Fig. 43.**Fig. 44.**Fig. 45.**Fig. 46.**Fig. 47.**Fig. 48.**Fig. 49.**Fig. 50.**Fig. 51.**Fig. 52.**Fig. 53.**Fig. 54.**Fig. 55.**Fig. 56.**Fig. 57.**Fig. 58.**Fig. 59.**Fig. 60.**Fig. 61.**Fig. 62.**Fig. 63.**Fig. 64.**Fig. 65.**Fig. 66.**Fig. 67.**Fig. 68.**Fig. 69.**Fig. 70.**Fig. 71.**Fig. 72.**Fig. 73.**Fig. 74.**Fig. 75.**Fig. 76.**Fig. 77.**Fig. 78.**Fig. 79.**Fig. 80.**Fig. 81.**Fig. 82.**Fig. 83.**Fig. 84.**Fig. 85.**Fig. 86.**Fig. 87.**Fig. 88.**Fig. 89.**Fig. 90.**Fig. 91.**Fig. 92.**Fig. 93.**Fig. 94.**Fig. 95.**Fig. 96.**Fig. 97.**Fig. 98.**Fig. 99.**Fig. 100.**FIGURE 1* *FIGURE 5* *FIGURE 2* *FIGURE 4* *FIGURE 3* *FIGURE 7* *FIGURE 6*

*J. Newcomb,**Plow.**No 11,201.**Patented June 27, 1854.* *H. Newson.**Plow**No 13,653.**Patented Oct 9, 1855.* *T. J. De Yarnert**Plow.**No 23,941.**Patented May 10, 1859*

Witnesses:
John A. White
John A. White

T. J. De Yarnert

*J. A. Sewall**Plow Point.**No 30,263.**Patented Oct 2, 1860.*

Witnesses:
John A. White
John A. White

Inventor
John A. Sewall
by Munn & Co
Attorneys.

*H. D. Rogers.**Plow Point.*

No. 30,362

Patented Jan. 9, 1860.

Fig. 3

Fig. 2

Fig. 4

Witnesses
James Hille
W. Johnson

Inventor
Henry D. Rogers

G. A. WALKER.

Plow-Point.

No. 31,684

Patented Mar. 12, 1861.

Fig. 2

Fig. 3

Fig. 4

*J. S. Hall.**Plow Point.*

No. 36,819

Patented Jul. 8, 1862.

Fig. 1

Fig. 2

Fig. 3

Witnesses
Harry H. Frost
J. B. Little.

Inventor
John S. Hall
By any A. B. Senghien

*E. Beman.**Plow Point.*

No. 36,447

Patented Jan. 16, 1862.

Witnesses
J. H. M. M. M.

Inventor
Edwin Beman

D. NELSON.

Plow-Point.

No. 44,442

Patented Sept. 27 1864

Witnesses.

John Knight
Abraham Spurling

Inventor.

David Nelson

A MASCHKA.

Plow-Point

No. 50,942.

Patented Nov. 14, 1865

Witnesses

L. Howard
C. W. K. K. K.

Inventor.

Anton Maschka

SALADEE & SIMPSON.

Plow-Point.

No. 53,491.

Patented Mar. 27, 1866.

Witnesses:

James H. Brown
John Whitten

Inventors:

James H. Saladee
Thomas Simpson

P. K. BRONSON

Plow-Point

No. 53,565.

Patented Apr. 3, 1866.

Witnesses

M. C. C. C. C.
J. A. C. C. C.

Inventor.

P. K. Bronson
C. C. C. C. C.

L. M. BAKER

Plow-Point

No. 66,000

Patented Jan. 22, 1866

Fig 1

Fig 3

Fig 2

Witnesses

Andrew White
Abel Henshaw

Inventor

L. M. Baker
By [Signature] A. C. [Signature]

L. M. BAKER

Plow-Point

No. 57,968

Patented Sept. 11, 1866

Fig 1

Fig 2

Fig 3

Inventor

L. M. Baker
By [Signature] A. C. [Signature]

Witnesses

W. M. [Signature]
Thos. [Signature]

D. J. SELDEN.

Plow-Point.

No. 64,914.

Patented May 21, 1867.

D. J. SELDEN.

Plow-Point.

No. 64,914.

Patented May 21, 1867.

Fig 1

Fig 2

Fig 3

Fig 4

Fig 5

Fig 6

WITNESSES

Chas. A. [Signature]
G. C. [Signature]

INVENTOR

D. J. Selden
E. C. [Signature]
[Signature]

W. B. WILLIAMS.

Plow-Point.

No. 67,831

Patented Aug. 13, 1867.

Witnesses:

Geo. B. Bessy
Ed. J. Holtz

Inventor.

W. B. Williams

H. KNIBBALS.

Plow-Point.

No. 68,355

Patented Sept. 10, 1867.

Witnesses:
Geo. B. Bessy
Ed. J. Holtz

Inventor
Henry Knibbals

W. G. Gibbs & L. P. Wikidal.

Plow.

No. 71,735

Patented Dec. 3, 1867.

Witnesses:

W. H. Lewis & Lyndon
James Thompson

Inventor.

William Gibbs
Geo. Gibbs
John P. Wikidal

J. Lane.

Plow.

No. 76,208

Patented Mar. 31, 1868.

Julius A. Lane
Ernest J. Lane } Witnesses

John Lane

J. LANE.

Plow Point.

No. 80,189.

Patented July 21, 1868.

Julius O. Lane
Attorney

John Lane

I. D. Burd.

Plow Point.

No. 83,150.

Patented Oct. 20, 1868.

WITNESSES

Edward M. Ward
Thos. W. Co.

INVENTOR

I. D. Burd.

G. W. Cooper.

Plow Point.

No. 84,798.

Patented Dec. 8, 1868.

WITNESSES:
H. C. A. L. A. L. A. L.
J. A. L. A. L.

INVENTOR:

G. W. Cooper
J. A. L. A. L.
Attorneys

I. M. Reed,

Plow Share.

No. 85,583.

Patented Jan. 5, 1869.

Witnesses:
J. A. L. A. L.
Frank S. Adams

INVENTOR:

I. M. Reed

Gero & Cooley

Plow Point

No. 87,484

Patented Mar. 2, 1869.

Witnesses:
G. P. Dean
Frank C. Young

Inventors:
G. G. Gero
Jas. M. Cooley

C. B. Kerr

Plow Point

No. 89,486

Patented Apr. 27, 1869.

Witnesses:
C. R. Kappert
E. C. Johnson

Inventor:
C. B. Kerr
D. P. Waterbury & Co.
1869

O. O. Stone

Plow Point

No. 90,604.

Patented May 26, 1869.

Witnesses:
J. B. Smith
H. S. Look

Inventor:
O. O. Stone

F. M. Caldwell

Plow

No. 91,162

Patented Nov. 23, 1869.

Witnesses:
J. J. Mayhew
B. F. James

Inventor:
F. M. Caldwell

*G. W. Thoyt,**Flour Sifters.**No. 110,633.**Patented Jan. 3, 1871.**Fig. 1.* *Fig. 2.*

Witnesses:

G. W. Thoyt
J. S. Thoyt

Inventor:

Geo. W. Thoyt
Per Munn
Attorney.
*J. White,**Flour Sifters.**No. 110,862.**Patented Jan. 10, 1871.**Fig. 1.* *Fig. 2.* *Fig. 3.*

Inventor:

Julius White
Conrad Lane
Attorney.
Julius White
Conrad Lane
*Ferguson & White,**Flour**No. 112,231.**Patented Feb. 20, 1871.**Fig. 1.* *Fig. 2.*

Witnesses:

J. S. Ferguson
J. S. White

Inventor:

J. S. Ferguson
J. S. White
Attorney.
*G. W. White,**Flour Sifters.**No. 113,665.**Patented Feb. 11, 1871.**Fig. 1.* *Fig. 2.* *Fig. 3.* *Fig. 4.* *Fig. 5.*

Witnesses:

Joseph Clark
Wm. M. Kim

Inventor:

George W. Wilderth

THOMAS EDMUNDS.

Plow Share.

No. 118,119.

Patented August 15, 1871.

Witnesses:
Wm. L. Enright
J. C. Curran

Inventor:
Thos. Edmunds.
Alexander H. H. H. H.
Atty.

2 Sheets--Sheet 1.

T. Cuming's Plow

No. 120,248

Patented Oct. 24, 1871

Witnesses:
John Decker
Lucas R. R. R.

Inventor:
T. Cuming
Per Wm. L. Enright
Atty.

2 Sheets--Sheet 2

L. WEEKS & JOHN S. TRIMBLE.

Improvement in Plows.

No. 126,856.

Patented May 14, 1872.

Witnesses:
Wm. L. Enright
J. C. Curran

Inventor:
Lyon Weeks
John S. Trimble
Chapman & Co.
Atty.

L. WEEKS & JOHN S. TRIMBLE.

Improvement in Plows.

No. 126,856.

Patented May 14, 1872

Witnesses:
Wm. L. Enright
J. C. Curran

Inventor:
Lyon Weeks
John S. Trimble
Chapman & Co.
Atty.

M. L. GIBBS.

Improvement in Plow-Points.

No. 128,221.

Patented June 25, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses.

Wm. Howard
Richard Hunt

Inventor.

M. L. Gibbs
per B. H. H. & Co.
City.

H. A. LEE.

Improvement in Plows.

No. 132,677.

Patented Oct. 29, 1872.

Fig. 1

Fig. 2

Fig. 3

Witnesses.

Wm. H. Lee
C. L. Smith

Inventor.

H. A. Lee
per B. H. H. & Co.
City.

Attorneys.

B. HARVEY.

Plowshares.

No. 133,854.

Patented Dec. 10, 1872.

Fig. 1.

Fig. 2.

Witnesses.

Wm. J. Taylor
Richard Hunt

Inventor.

B. Harvey
per B. H. H. & Co.
City.

C. MYERS.

Subsoil Gang-Plows.

No. 145,361

Patented Dec. 9, 1873.

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:

A. H. H. & Co.
C. L. Smith

Inventor.

C. Myers
per B. H. H. & Co.
City.

Attorneys.

J. C. F. SCHENCK
Plow-Shares.

No. 150,087.

Patented Aug. 11, 1874.

Witnesses:

George E. Gundry
Edward A. Mink

Inventor:

John C. Schenck
Per *Henry L. Munn*
Attorneys.

J. A. PECK.
Plow-Points.

No. 153,109

Patented July 14, 1874.

Witnesses:
George E. Gundry
Edward A. Mink

Inventor:

James A. Peck
Cliffman & Sons, Sols.
Attorneys

J. F. HERRING.
Plow Points and Shares.

No. 154,139.

Patented Aug. 18, 1874.

George E. Gundry
Edward A. Mink

Joseph F. Herring
Inventor.
by *Job Abbott*
attorney.

C. C. STRONG.
Plows.

No. 157,464.

Patented Dec. 8, 1874.

Witnesses:

A. Moore
George E. Gundry

Inventor:

Charles C. Strong

L. H. CALVIN & J. WALLACE
Plow-Points

No 157,790

Patented Dec. 15, 1874

J. P. ZELLER.
Plow.

No 163,563

Patented May 18, 1875

M. M. BOWERS.
Reversible Plow-Points.

No 165,703.

Patented July 20, 1875

M. M. BOWERS.
Assignor by mesne assignments to himself and J. P. Schermerhorn, and T. M. Hitzelmeier, Jr.
REVERSIBLE PLOW-POINTS

No. 7,894.

Reissued Sept. 25, 1877.

WITNESSES:
E. Wolff,
A. J. Terry,

INVENTOR:
M. M. Bowers
BY *M. M. Bowers*
ATTORNEYS.

WITNESSES:
J. H. G. Smith,
H. H. G. Smith,

INVENTOR:
M. M. Bowers
BY *M. M. Bowers*
ATTORNEYS.

M M BOWERS.
Assignor by these assignments to HIMSELF, T M HILTMER, JR. & E D UTTER, Executor.
Reversible Plow-Point.

No. 9,236.

Reissued June 8, 1880.

Witnesses

H. S. Lee
J. S. Barker

Inventor

Marcus M. Bowers
by H. W. D. M. C. atty

T. S. URLE.
FLOW-POINT.

No. 171,068.

Patented Dec. 14, 1875.

WITNESSES

Robert C. Smith
George C. Upshaw

INVENTOR

Thomas S. Urle.
Chapman & Co.,
ATTORNEYS

A. G. PINNEY.
FLOW

No. 171,166.

Patented Dec. 14, 1875.

Witnesses
Thomas S. Urle
Chapman & Co.

Inventor
A. G. Pinney
By atty
Chapman & Co.

W. B. READY.
FLOW-POINT.

No. 172,053.

Patented Jan. 11, 1876.

WITNESSES

Robert C. Smith
George C. Upshaw

INVENTOR

William B. Ready

W. E. TRISSLER.
FLOW-POINT.

No. 174,449

Patented March 7, 1876.

WITNESSES:

Jas. F. Duhamel
Thomas Byrnes

INVENTOR:

W. E. Trissler
PER *H. A. Holt*
ATTORNEY.

R. A. J. ARMSTRONG.
FLOW.

No. 175,320.

Patented March 28, 1876.

WITNESSES:

Samuel W. C. Co.
John H. H. Co.

INVENTOR:

R. A. J. Armstrong
BY *Wm. H. Co.*
ATTORNEYS.

W. E. TRISSLER.
FLOW-POINT.

No. 177,973

Patented May 30, 1876.

WITNESSES:

Jas. F. Duhamel
Thomas Byrnes

INVENTOR:

W. E. Trissler
PER *H. A. Holt*
ATTORNEY.

J. W. BEVERLY.
FLOW POINT

No. 182,634.

Patented Sept. 28, 1876.

Fig. 2.

WITNESSES:

Robert Smith
George A. Smith

INVENTOR:

John W. Beverly
Galileo Smith
ATTORNEYS.

J. R. BUCHER.

PLOW.

No. 183,122.

Patented Oct. 10. 1876.

WITNESSES
E. Bates
John H. Baker

INVENTOR
John R. Bucher
Guilford J. Smith & Co.
 ATTORNEYS

W. H. COOK.

FLOW-POINT

No. 183,907.

Patented Oct. 31 1876.

WITNESSES
Frank L. Curand
C. L. Ewert

INVENTOR
Wm. H. Cook
Alexander Mason

2 Sheets—Sheet 1.

W. A. CONAWAY.

FLOW-POINT.

No. 186,803.

Patented Jan. 30, 1877.

WITNESSES
Henry N. Miller
C. L. Ewert

INVENTOR
Wm. A. Conaway
Alexander Mason
 ATTORNEYS

A. L. McINTYRE.

FLOW-POINT.

No. 187,659.

Patented Feb. 20 1877.

WITNESSES
Frank L. Curand
H. N. Miller

INVENTOR
Amos L. McIntyre
Alexander Mason
 ATTORNEYS

A. L. MCINTYRE.
PLOW-POINT.

2 Sheets—Sheet 2

No. 187,655.

Patented Feb. 20, 1877

WITNESSES

Frank L. Corand
W. H. Miller

INVENTOR

Alfred L. McIntyre
Alfred L. McIntyre
ATTORNEYS

E. F. CHANDLER.
PLOW.

No. 193,923.

Patented Aug. 7, 1877.

Fig. 3.

WITNESSES

Frank L. Corand
W. H. Miller

INVENTOR

E. F. Chandler
E. F. Chandler
ATTORNEYS

R. SMITH.
PLOW-SHARES.

No. 195,200

Patented Sept. 11, 1877.

Fig. 1.

Fig. 2.

Attest

W. H. Miller
W. H. Miller

INVENTOR

Richard Smith
Richard Smith
ATTORNEYS

C. W. JENKINS.
Reversible Plow-Point.

No. 196,232

Patented Oct. 16, 1877

WITNESSES

Frank L. Corand
W. H. Miller

INVENTOR

Charles W. Jenkins
Charles W. Jenkins
ATTORNEYS

M. TURLEY
Plow

No. 196,774.

Patented Nov. 6, 1877.

ATTORNEY:

Wm. H. Bellows
Wm. H. Bellows

INVENTOR:

Marshall Turley
 By *Wm. H. Bellows*
 ATTORNEY.

M. M. BOWERS
Reversible Plow-Point

No. 197,086.

Patented Nov. 13, 1877.

WITNESSES:

Frank L. Leonard
John C. Schneider

INVENTOR:

Marshall M. Bowers
Marshall M. Bowers
 ATTORNEYS

D. WOLF.
Plow-Point.

No. 203,690.

Patented May 14, 1878.

WITNESSES:

Thomas McCord
C. Bequest

INVENTOR:

D. Wolf
 BY *Marshall M. Bowers*
 ATTORNEYS.

N. P. BOWSHER.
Plow.

No. 205,236.

Patented June 25, 1878.

WITNESSES:

Edw. H. Hougham
Wm. H. Bellows

INVENTOR:

N. P. Bowsher
Wm. H. Bellows
 ATTORNEYS

S. M. WHITE & J. A. FRANCIS.
Plow-Point.

No. 206,910.

Patented Aug. 13, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:
W. O. Thompson
Chas. H. Thompson

Inventors
Samuel M. White
John A. Francis
By H. J. Evans
Attorney

J. LONG.
Plow Share or Point.

No. 207,752.

Patented Sept. 3, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses
John L. Lott
Frank Lott

Inventor
J. Long
By H. J. Evans
Attorney

P. KESSLER.
Plow-Point.

No. 209,406.

Patented Oct. 29, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
W. A. Hamilton
W. R. Harris

Inventor:
Peter Kessler
By G. B. Fowler
Attorney

W. F. & C. W. JENKINS.
Plow.

No. 210,203.

Patented Nov. 26, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses
P. A. C. and
H. J. Evans

Inventors
W. F. & C. W. Jenkins
By H. J. Evans
Attorney

J. H. BARR.
Plowshare.

No. 211,689.

Patented Jan. 28, 1879.

Witnesses:
James Ogden
Scott Merry

Inventor:
Jas H. Barr

J. OLIVER.
Chilled Plow-Point.

No. 217,898.

Patented July 29 1879.

Fig. 3.

Witnesses:
C. A. Huntington
H. M. Wright

Inventor:
James Oliver.
By H. A. Seymour, ATTORNEY.

J. B. BROWN & J. PENTREATH.
Plow-Point.

No. 220,270.

Patented Oct. 7, 1879.

Witnesses:
W. C. M. C. M.
John C. M. C.

Inventors:
J. B. Brown
J. Pentreath
By H. A. Seymour, ATTORNEYS.

L. W. HALL.
Plow-Point.

No. 220,373.

Patented Oct. 7, 1879.

Witnesses:
H. A. Seymour
J. B. Brown

Inventor:
L. W. Hall.

4 Sheets—Sheet 1.

J. OLIVER.
Plow-Point.

No. 220,649.

Patented Oct. 14, 1879.

WITNESSES
C. J. Nottingham
W. M. Bright.INVENTOR
James Oliver.
R. H. Seymour, ATTORNEY

4 Sheets—Sheet 2.

J. OLIVER.
Plow-Point.

No. 220,649.

Patented Oct. 14, 1879.

WITNESSES
C. J. Nottingham
W. M. Bright.INVENTOR
James Oliver.
R. H. Seymour, ATTORNEY

4 Sheets—Sheet 3.

J. OLIVER.
Plow-Point.

No. 220,649.

Patented Oct. 14, 1879.

WITNESSES
C. J. Nottingham
W. M. Bright.INVENTOR
James Oliver.
R. H. Seymour, ATTORNEY

4 Sheets—Sheet 4.

J. OLIVER.
Plow-Point.

No. 220,649.

Patented Oct. 14, 1879.

WITNESSES
C. J. Nottingham
W. M. Bright.INVENTOR
James Oliver.
R. H. Seymour, ATTORNEY

J. KILLEFER.
Combined Share and Point.

No. 222,502.

Patented Dec. 9, 1879.

Fig. 2.

Fig. 3.

WITNESSES

Frederick L. Canavan
Attest

INVENTOR

John Killefer
Attest
ATTORNEYS

J. OLIVER.
Plow-Points.

2 Sheets—Sheet 1

No. 223,751.

Patented Jan. 20, 1880.

Fig. 2.

WITNESSES

W. H. Hingham
Attest

INVENTOR

James Oliver
Attest
ATTORNEY

J. OLIVER.
Plow-Points.

2 Sheets—Sheet 2.

No. 223,751.

Patented Jan. 20, 1880.

Fig. 4.

Fig. 5.

WITNESSES

W. H. Hingham
Attest

INVENTOR

James Oliver
Attest
ATTORNEY

M. M. BOWERS.
Detachable Plow Point.

No. 231,261,

Patented Aug. 17, 1880.

Fig. 2.

Fig. 3.

WITNESSES

N. A. Low
Attest
ATTORNEY

INVENTOR

Marcus M. Bowers
Attest
ATTORNEY

(Model.)

C. ANDERSON & J. OLIVER.
Slip-Nose Attachment for Plows
No. 239,135. Patented March 22, 1881.

WITNESSES

Ed. Hollingsham
Oliver A. Lawrence

INVENTORS

Charles Anderson,
James Oliver,
R. H. Seymour, ATTORNEY

(No Model.)

C. ANDERSON
FLOW POINT
No. 247,148. Patented Sept. 20, 1881.

WITNESSES

Ed. Hollingsham
James Oliver

INVENTOR

Charles Anderson,
R. H. Seymour, ATTORNEY

(Model.)

R. C. TUCKER
FLOW POINT.
No. 247,439. Patented Sept. 20, 1881.

WITNESSES

John C. Ellis
Philip Billasi

INVENTOR

Robert C. Tucker,
by Anderson & Smith,
his, ATTORNEYS

(Model.)

C. YEISER.
FLOW SHARE.
No. 257,807. Patented May 9, 1882.

Witnesses:

Ed. C. Lawrence
H. P. Seymour

INVENTOR

Cyrus Yeiser
Alexander
Attorney

(No Model.)

W. DICER

FLOW SHARE AND POINT

No. 261,836.

Patented Aug 1, 1882.

WITNESSES

Paul J. Dutch
W. H. Leland

INVENTOR

Wm Dicer

Chas. H. Leland

(No Model.)

W. F. CAMERON.

FLOW POINT.

No. 262,927.

Patented Aug. 22, 1882.

FIG. 1.

FIG. 2.

FIG. 3.

FIG. 4.

FIG. 5.

FIG. 6.

FIG. 7.

WITNESSES:

Chas. H. Leland
George W. Carter

INVENTOR:

Wilmot F. Cameron
Clifford Clifford
Chas. H. Leland

(Model.)

W. J. TURNER.

FLOW POINT.

No. 266,927.

Patented Oct. 31, 1882.

Fig. 1

Fig. 2

Fig. 3

Witnesses

Edw. J. Turner
H. H. Leland

Inventor

William J. Turner
By C. M. Alexander
Att. H.

REVOLVING MOLD-BOARDS.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Blanchard, J.	729	472	Foley, D. D.	724	470	Martin, H. D.	724	469
Briggs, H.	726	470	Frye, J.	722	469	Noble, W.	726	471
Burdin, L. E.	723	469	Godfrey, J. S.	726	471	Norton, H. L.	721	469
Cameron, W. F.	733	474	Godfrey, J. S.	727	471	Page, G.	721	469
Carry, F. F.	725	470	Godfrey, J. S.	727	471	Palmer, N.	731	473
Cedarland, S. N.	730	472	Godfrey, J. S.	728	471	Palmer, N.	731	473
Chapman, A. B.	724	470	Godfrey, J. S.	728	472	Pettit, J. P.	723	469
Dahlman, C. O.	734	474	Godfrey, J. S.	729	472	Pratt, C. A.	732	473
Decker, P. H.	729	472	Green, L.	723	469	Quick, J. A.	725	470
Dyer, I. T.	728	471	Harrington, W. W. and			Reynolds, S. G.	730	472
“ “ “ (R)	728	471	Merrill, A. B.	732	473	Roberts, M. L.	725	470
Dyer, C. V.	730	472	Hoyt, B. C.	721	469	Skinner, W. W.	722	469
Estes, W. A.	729	472	“ “ (A. I.)	721	469	Stanley, H.	722	469
Estes, W. A.	730	472	Jefferson, T. E.	731	473	Strait, R. E.	727	471
Estes, W. A.	732	473	Johnson, R.	724	469	Swartz, R. E.	732	473
Estes, W. A.	733	473	Johnson, F.	731	473	West, W. B.	727	471
Estes, W. A.	733	474	Kennedy, I.	725	470	Wing, G. A.	726	471

H. I. Norton.

Revolving Moldboard.

No. 2784.

Patented Sep. 26. 1884.

W. P. Crockett.

G. PAGE

Revolving Moldboard

No. 5,218

Patented Aug. 7. 1887

E. C. Hoyt.

Revolving Moldboard.

No. 16,654.

Patented Sep. 1. 1885.

*Inventors:
J. Reed
Henry Reed*

*Attorney:
B. C. Hoyt*

E. C. Hoyt.

Revolving Moldboard.

No. 17,84.

Patented Jan. 6. 1885.

J. FRYE.

2 Sheets—Sheet 1

Wheel-Plow.

No. 16,913

Patented Mar. 31, 1857

Sheet 2 of 2

J. Frye

Wheel-Plow

No. 16,913

Patented Mar. 31, 1857

H. STANLEY.

Revolving Moldboard.

No. 18,609.

Patented Nov. 10, 1857.

H. Stanley

Sheet 2 of 2

Revolving Moldboard

No. 18,609

Patented Nov. 10, 1857

W. W. Skinner

Revolving Moldboard

Revolving Moldboard

Patented Dec. 1, 1857

No. 18,770

Witness
John B. Skelton
James H. Skelton

Witness
William H. Skelton

L. E. BURDIN

Revolving Moldboard

No. 24,536

Patented June 28, 1859

Witnesses
J. H. Jones
J. H. Jones

INVENTOR,
L. E. Burdin

J. P. PETTIT

Revolving Moldboard

No. 30,766

Patented Nov. 27, 1860

Witnesses
John B. Skelton
James H. Skelton

for record

L. GREEN

Revolving Moldboard

No. 31,712

Patented Mar. 19, 1861

Witnesses
John B. Skelton
James H. Skelton

INVENTOR,
L. Green

*H. D. Martin.**Plow.**No. 2,257,
33,256**Patented Sep. 10, 1866*

Witnesses:
James P. Hall
D. J. Smith

Inventor:
H. D. Martin
Attorney

R. JOHNSON.

Plow Moldboard

No. 35,098

Patented Apr. 24 1862

Witnesses:
Wm. J. Smith
Chas. J. Smith

Inventor:
R. Johnson
Attorney

A. R. CHAPMAN.

Revolving Moldboard.

No. 10,733.

Patented Dec 1. 1863

Witnesses.

Witnesses:
Chas. H. Knight
W. B. Brown

Inventor.

Inventor:
A. R. Chapman
Attorney

D. D. FOLEY.

Plow.

No. 41,371.

Patented Jan. 26, 1864

Witnesses.

Witnesses:
Wm. J. Smith
Chas. J. Smith

Inventor:
D. D. Foley

F. F. CARY.

Revolving Moldboard

No. 42,631

Patented May 3, 1864

Witnesses.
H. R. A.
H. R. A.

Inventor.
F. F. Cary
by J. M. R. R. R.
Attorney

J. A. Quinn

Plow

No. 68,177.

Patented Apr 18, 1866.

Witnesses
J. M. R. R. R.
R. B. Wrightman

Inventor
J. A. Quinn
by J. M. R. R. R.
Attorney

I. KENNEDY.

Revolving Moldboard.

No. 58,131

Patented Oct. 2, 1866.

Witnesses
J. M. R. R. R.
J. M. R. R. R.

Inventor
I. Kennedy
by J. M. R. R. R.
Attorney

M. L. ROBERTS.

Revolving Moldboard.

No. 62,367

Patented Feb. 26, 1867.

Witnesses
J. M. R. R. R.
J. M. R. R. R.

Inventor
M. L. Roberts
by J. M. R. R. R.
Attorney

*Harvey Briggs' Plow.*PATENTED
DEC 10 1867

71966

Fig. 1

Fig. 2

Witnesses:
John Briggs
Adam Shaw

Inventor:
Harvey Briggs
Perman & Co
Attorneys

J. S. GODFREY.
Plow Moldboard.

No. 77,184.

Patented April 28, 1868.

Witnesses:
A. Minneman
John Macdon

Inventor:
Joseph S. Godfrey
His Att'y
W. S. Schuyler

G. A. WING.
Plow.

No. 86,615.

Patented Feb. 2, 1869.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Witnesses:
W. B. Wing
W. B. Wing

Inventor:
George A. Wing

W. Noble's Plow.

No. 92,992.

Patented July 27, 1869.

Fig. 1

Fig. 2

Witnesses:
J. S. Sumner
A. J. Abbott

Inventor:
Wm. Noble
His Att'y
W. E. Earle

W. B. West

Plow

No. 96,960.

Patented Feb. 19, 1869.

Witnesses

*C. Hinckman
J. M. Brooks*

Inventor

W. B. West

*per Wm. H.
Atty.*

W. B. West

Plow

No. 98,120.

Patented Feb. 19, 1869.

Witnesses

*J. M. Brooks
J. M. Brooks*

*Inventor
W. B. West
per Wm. H.
Atty.*

J. S. GODFREY

Plow

No. 101,256

Patented March 29, 1870

*Witnesses:
R. W. H. H.
H. W. H.*

*Inventor:
Joseph S. Godfrey
by B. H. H. H.
his Atty.*

J. S. GODFREY

Moldboard for Plow.

No. 105,446.

Patented July 19, 1870

*Witnesses:
R. W. H. H.
H. W. H.*

*Inventor:
Joseph S. Godfrey
by B. H. H. H.
his Atty.*

J. S. Godfrey,
Mold-Board.

No. 112333.

Patented Nov. 9, 1871

Witnesses:

R. L. W. Smith
J. S. Godfrey

Inventor:
Joseph S. Godfrey,
 by *Bakewell, Christy, & Co.*
 his Attys.

I. T. Dyer,

Plow Mold-Board.

No. 113612.

Patented Apr. 11, 1871.

Witnesses

H. J. Smith
C. W. Brown

Isaac T. Dyer, Inventor.

Geo. E. Brown

his Attorney

I. T. DYER
Mold-Boards for Plows.

No. 5848

Reissued April 28, 1874

Fig 1

Fig 2.

Attest.

W. E. Smith
J. S. Godfrey

Inventor.

Isaac T. Dyer
 by *C. E. Christy*
 his Attys.

J. S. Godfrey,

Revolving Mold-Board.

No. 113750.

Patented Apr. 18, 1871.

Witnesses:

W. E. Smith
James S. Kay

Inventor:

Joseph S. Godfrey,
 by *Bakewell, Christy, & Co.*
 his Attys.

J. S. GODFREY

Attachment of Revolving Mold-Board for Plows.
No. 114,002. Patented April 25, 1871.

Witnesses:
R. H. Marshall
James I. Hay

Inventor:
Joseph S. Godfrey
by Butwell, Christy & Thier
his Attys.

W. A. ESTES.

Plows.

No. 143,279.

Patented September 30, 1873.

Witnesses:
John E. H. Boston
Chas. J. Brown

Inventor:
William A. Estes
by Geo. H. H. H.
C. H. H. H. H.

J. BLANCHARD.

Plows.

No. 144,433.

Patented Nov. 11, 1873

Witnesses:
John A. Ellis
Ed. Curran

Inventor:
John Blanchard
by S. H. Alexander
Att'y.

P. H. DECKER.

Plows.

No. 156,283.

Patented Oct. 27, 1874.

Attest:

Inventor:

J. H. Elliot.
J. H. Barker

Philip H. Decker.
PER G. J. Chapin:

Atty.

N. PALMER.
Rotary Mold-Board Plow.

No. 205,498.

Patented July 2, 1878.

Wilkesboro
Prof. L. L. Litchell
D. C. Warner

Inventor
Nelson Palmer

F. JOHNSON.
Plow.

No. 206.880.

Patented Aug. 13, 1878.

Witnesses.

George
H. D. Moore

Inventory
of the
of the
of the

T. E. JEFFERSON.
Plow.

No. 210,201.

Patented Nov. 26, 1878.

Witnesses:
Henry Chastaine
J. Allen

Inventor:
Thomas C. Jefferson
by John P. Quinn
his atty

N. PALMER..
Rotary-Moldboard Plow.

No. 211,638.

Patented Jan. 28, 1879

Witnesses
~~Red L. G. L. L.~~
 George Pinkenburg

Invento
Nelson Palmer
by Detroit - C. Allen

W. A. ESTES.
Plow.

No. 212,205.

Patented Feb. 11, 1879.

Witnesses

Amos Brown,
A. P. Ockington

Inventor

William A. Estes
By David Halliday
Att'y

W. H. HARRINGTON & A. B. MERRILL.
Plow.

No. 216,271.

Patented June 10, 1879.

Witnesses

Edw. D. Dimes,
Frederic H. Lane

Inventors

William H. Harrington,
Alonzo B. Merrill.

C. A. PRATT.
Plow.

No. 222,075.

Patented Nov. 25, 1879.

Witnesses

Amos Brown,
W. B. Ockington

Inventor

C. A. Pratt
By David Halliday
Att'y

(No Model.)

E. E. SWARTZ.
Plow-Share.

No. 228,138.

Patented May 25, 1880.

Witnesses

David H. Dimes,
H. Aubrey Toulmin

Inventor

E. E. Swartz
By Alexander Murray
Att'y

(No Model.)

W. A. ESTES.
Plow.

No. 230,623.

Patented Aug. 3, 1880.

Witnesses
J. S. Eastman
C. L. Eastman

Inventor
William A. Estes
per Robert M. Lynde
his Attorney

(No Model.)

W. F. CAMERON
Plow

No. 237,812.

Patented Feb. 15, 1881.

FIG. 1

FIG. 2.

FIG. 3.

FIG. 4.

WITNESSES:

Oliver H. Knapp
Wm. J. Goodwin

INVENTOR:

William F. Cameron
by Geo. H. Allen
his Attorney

(No Model.)

W. F. CAMERON.
Plow

No. 237,812.

Patented Feb. 15, 1881.

FIG. 5.

FIG. 6.

FIG. 7.

FIG. 9.

FIG. 8.

WITNESSES:

Oliver H. Knapp
Wm. J. Goodwin

INVENTOR:

William F. Cameron
by Geo. H. Allen
his Attorney

(No Model.)

W. A. ESTES.
Plow.

No. 252,291.

Patented Jan. 10, 1882

Fig. 1

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Witnesses
J. H. Schmitt
A. R. Brown

Inventor
William A. Estes
per C. H. Watson & Co.

(No Model.)

C. O. DAHLMAN.
FLOW MOLD BOARD.

No. 263,122.

Patented Aug. 22 1882.

Fig. 2.

WITNESSES:

H. H. Houghton
W. Reed

INVENTOR:

C. O. Dahlman
BY *[Signature]*
ATTORNEYS.

RIDGERS.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Angamar, E. H.	742	485	Gross, G. Jr.	741	485	Shares, D. W.	741	485
Chandler, M.	742	485	Martin, A. D.	745	487	Snyder, J.	743	486
“ “ “, (R.)	742	485	Mason, T. J.	744	487	Webb, A.	743	486
Chandler, M.	746	487	Meixell, G. W.	745	487	“ “ (R.)	743	486
Clements, G. M.	743	486	Notman, W.	744	486	Whittemore, J. R.	745	487
Culver, D.	745	487	Notman, G.	744	487	Wolf, D.	741	485
Gardner, C.	742	485	Parmley, E. L.	746	487			
Goslee, O. W.	744	487	Schubert, M.	746	487			

G. Gross, Jr.

Ridge Plow

N^o 5,800

Patented Sept. 26, 1898

J. W.

Ridge Plow

N^o 5,315

Patented Apr. 23, 1890

Steel & A. Steel

D. Wolf

Ridge Plow

N^o 7,115

Patented Apr. 23, 1890

D. H. Barnes

Ridge Plow

N^o 12,075

Patented Dec. 18, 1890

E. H. Anguman

Cane Planter

N^o 20,862

Patented Aug 29, 1880

Fig 1

Fig 2

Witnesses
J. H. Spencer
J. H. SpencerInventor
E. H. Anguman
By his Attorney
Chas. F. Ranbury

C. Gardner

Ridge Plow

N^o 706
31,710.

Patented Mar 19, 1861.

Fig 2

Fig 1

Fig 3

Witnesses
J. H. Spencer
J. H. SpencerInventor
Chas. Gardner
per M. H. C.
Attorney

M. CHANDLER.

Horse Hoe.

No. 34,128.

Patented Jan'y 14, 1862.

Fig 1.

Fig 2.

Witnesses
J. H. Spencer
J. H. SpencerInventor
M. Chandler
per M. H. C.
Attorney

M. Chandler.

Horse Hoe.

N^o 2808

Reissued Dec 3, 1867.

Fig 1.

Fig 2.

Witnesses
J. H. Spencer
J. H. SpencerInventor
M. Chandler
per M. H. C.
Attorney

C. M. Clements.

Patent Office.

N^o 36,894.

Patented Nov 11, 1862.

Witnesses:
H. B. Smith
Geo. R. Reed

Inventor:
C. M. Clements
per Munn & Co
Attorneys

A. WEBB.

Horse Hoe Cultivator.

No. 49,354.

Patented Aug. 8, 1865.

Witnesses:
Wm. D. Green
Geo. R. Reed

Inventor:
A. Webb
per Munn & Co
Attorneys

A. Webb.

Horse Hoe Cultivator.

N^o 28,12

Reissued Dec 17, 1867.

Witnesses:
Wm. D. Green
Geo. R. Reed

Inventor:
A. Webb
per Munn & Co
Attorneys

John Snyder's Corn Plow.

72104

PATENTED

DEC 10 1867

Witnesses:
Thos. Ensign
Latham Green

Inventor:
John Snyder
per Munn & Co
Attorneys

W. NOTMAN.

Ridge Plow.

No. 84,437.

Patented Nov. 24, 1868.

Witnesses
 James A. Taylor
 Geo. A. Morgan

Inventor
 W. Notman
 per Messrs
 Morreys

T. J. MASON.

Ridge Plow.

No. 84,957.

Patented Dec. 15, 1868.

Witnesses
 A. W. Hargrave
 John Morgan

Inventor
 T. J. Mason
 per Messrs
 Morgan

F. Notman,

Hilling Plow.

No. 87,350.

Patented Mar. 2, 1880.

Witnesses
 Geo. Notman
 Phil. J. Leford

Inventor
 F. Notman
 per Messrs
 Morgan

O. W. GOSLEE.

Tobacco Ridger.

No. 106,810.

Patented Aug. 30, 1870.

Witnesses
 Geo. Hargrave
 John Morgan

Inventor
 O. W. Goslee

D. CULVER.

Improvement in Cultivators.

No. 128,860.

Patented July 9, 1872.

Fig. 2

WITNESSES:

Charles S. Smith
A. B. Smith

INVENTOR

D. Culver
Attorney

G. W. MEIXELL

Improvement in Corn Plow and Marker.

No. 132,405

Patented Oct. 22, 1872.

Fig. 2

WITNESSES:

A. M. Thompson
C. J. Smith

INVENTOR:

G. W. Meixell

Per

Attorney

J. R. WHITTEMORE.

Tobacco Ridgers.

No. 142,753.

Patented September 9, 1873.

WITNESSES:
Samuel H. Curran
C. L. Smith

INVENTOR

John R. Whittemore
Attorney

A. D. MARTIN.

RIDGE-FORMING MACHINES

No. 179,933.

Patented July 18, 1876

Fig. 2

Fig. 3

WITNESSES:

John G. Smith
John G. Smith

INVENTOR:

A. D. Martin

By

Attorney

M. CHANDLER.
Horse-Hoe.

No. 211,701.

Patented Jan. 28, 1879.

Witnesses:
John R. Mason
E. J. Lister

Inventor:
Moses Chandler
by Wm. McKim, Esq., Atty.

(No Model.)

M. SCHUBERT
Tobacco and Plant Hillers.

No. 235,576.

Patented Dec. 14, 1880.

WITNESSES
Philip L. Watt
John F. Page

INVENTOR
Maurice Schubert,
Edmond Smith & Co.,
ATTORNEYS

Model

E. L. PARMLEY.
Tobacco Hiller.

No. 239,835.

Patented April 5, 1881.

Witnesses:
A. J. O'Brien
H. H. Rulph

Inventor:
Elmer S. Parmley
By Sanford A. Hudson
his Attorney in fact

ROTARY.

Plate Claim			Plate Claim			Plate Claim		
Adams, J.	800	517	Gatling, R. J.	761	502	Roberts, E. B.	773	507
Andrews, W. J.	779	510	Gedney, G. W. B.	757	500	Rouse, T.	797	516
Atwater, J. B.	765	503	Goddard, E. G.	823	526	Royse, P. E.	752	499
Austin, J.	804	519	Gordon, E.	762	502	Russell, D.	753	499
Austin, J.	817	524	Grabo, C. G.	763	503	Sackett, C. E.	802	518
Badger, N.	761	502	Graner, J.	801	517	Sackett, C. E.	804	519
Badlam, E.	768	504	Haggard, J. W. and Bull,			Sackett, C. E.	805	520
Batcheller, A. F.	791	514	G.	753	499	Sackett, C. E.	806	520
Batcheller, A. F.	793	515	Harris, E.	758	501	Sackett, C. E.	807	520
Baucum, S. C.	819	525	Haynes, J.	797	516	Sackett, C. E.	808	521
Belmont, H.	782	511	Hesselbom, E. M.	789	513	Sackett, C. E.	811	522
Berkstresser, H.	772	506	Hewit, S.	762	502	Sackett, C. E.	814	523
Berninger, O.	775	508	Hoadley, J.	764	503	St. John, G. B. and Under-		
Bleecker, W. E.	784	512	Hoffmeyer, A. B. and			wood, J. R.	810	522
Bleecker, W. E.	790	513	Schmidt, J.	788	513	Schuchard, J.	814	523
Bodley, J. W.	817	524	Homrighouse, L.	781	511	Schultz, J. D. and Adams,		
Bodley, J. W.	818	524	Hopkins, G. E.	796	515	R.	771	506
Bondeli, A.	779	510	Huffer, I.	819	524	Scoville, T. S.	758	501
Bostwick, E. E.	818	524	Hurd, J. B.	823	526	Shabley, C.	769	504
Bourne, E.	780	510	Hyde, W. B.	785	512	Sherman, D. B.	798	519
Bowen, H. W.	783	511	Johnson, M.	780	510	Sherwood, L.	777	509
Breeden, C. C. and Wheel-			Johnson, H. M.	753	499	Sivertsen, B. E.	777	509
er, O. T.	800	517	Johnson, J.	765	503	Skillings, H.	800	510
Brodmax, D. W. Sr.	795	515	Johnson, J. G.	777	509	Smith, N. S.	756	500
Burch, I. W.	778	509	Johnston, C.	824	527	Soniat, L.	789	513
Bussell, E. T.	772	506	Jones, J. G.	788	513	Spencer, H. H.	814	523
Bussell, E. T.	755	500	Jones, H. and Yard, W. K.	790	514	Spoofford, M.	751	499
Bussell, E. T.	783	511	Iudd, N. T.	781	511	Standish, P. H.	774	504
Bussell, E. T.	784	512	Kent, E. H.	775	508	Stanley, H.	767	504
Cagwin, F. L.	775	508	Kershner, T. A.	797	516	Starritt, J. D.	788	513
Chamberlain, W. H.	773	507	Kyle, I. N.	818	524	Stebbins, L.	823	527
Chenoweth, J.	779	510	Lane, D. H.	803	518	Stevens, A. J.	776	509
Colborn, L. H.	769	505	Locke, D.	801	517	Stevens, T. S.	756	500
Cole, J. L.	763	503	Lynch, G. F.	775	508	Stevens, J.	756	500
Comstock, C.	759	501	McCray, T. H.	813	522	Stevens, L.	759	501
Comstock, C.	762	502	McDonald, F. E.	780	508	Stickney, B. F.	551	499
Comstock, C.	765	503	McDonell, A. S.	787	513	Stoddard, J. C.	757	500
Cone, F. C.	777	509	McKinley, R.	787	512	Stone, J. C.	796	516
Coon, J. H.	793	514	Mallon, J.	802	518	Stoner, A. F.	776	508
Cooper, G. W.	774	507	Mann, D.	760	502	Tally, T. J.	810	522
Cochran, A. J.	823	526	Martin, L.	801	517	Taplin, H. T.	778	509
Crane, I. C.	761	502	Mathes, W. McC.	798	516	Tarnutzer, J. P.	771	507
Crafts, A. and Weeks, E.	752	499	Mears, W. R.	768	504	Thompson, A.	770	505
Cravath, M. A. and I. M.	771	506	Milroy, J. W.	773	507	Thompson, J.	781	511
" " " (R)	772	506	Milroy, J. W.	786	512	Tilley, J. R.	799	517
Crossby, W. E. and Carey,			Miles, O. E.	819	525	Tranter, J., Kinsey, J. and		
A.	821	526	Miles, E. M.	820	525	Carr, J. M.	781	510
Daniels, C. J.	804	519	Moody, L.	776	508	Trouard, A.	786	512
Dawson, W. J.	778	509	Morris, J. R.	782	511	Tuthill, T. J.	751	499
Decelle, M.	783	511	Myers, D.	769	505	Uehling, T.	778	509
Densmore, J.	772	506	Newsom, G. S.	780	510	Underwood, J. K.	794	515
Eckles, H. P.	774	507	Nichols, W. W.	799	517	" " (R)	794	515
Elliott, J. C.	790	513	Nusbaum, A. B. C.	779	510	Underwood, J. K.	796	516
Elliston, C. T.	787	513	Palmer, N.	803	518	Underwood, J. K. and St.		
Evans, O. C.	754	499	Peck, E.	754	500	John, G. B.	811	522
Feierabend, J.	820	525	Pedrick, R. R.	808	521	Naught, J. and Chamness,		
Fenley, G. W.	793	514	Pelsor, P. D. and H. C.	798	516	E.	774	507
Field, G. B.	752	499	Pirring, G.	821	525	Von Phul, H. Jr. and Mal-		
Field, B. F.	757	501	Fitkin, J. H.	789	513	lon, J.	791	514
Field, B. F.	756	500	Platt, H. M.	755	500	Wadsworth, W.	763	503
Fithian, L. S.	765	503	Pomeroy, H. A. G. and			Wadsworth, W.	764	503
Fithian, L. S.	767	504	Hudson, R. F.	759	501	West, B. J.	810	522
Fitzgerald, J. C.	771	505	Poundstone, C. N.	786	512	Wetherell, L.	755	500
Forsgard, G. A.	785	512	Quimby, W. F.	760	502	Whitehead, J.	754	499
Foster, C. R.	809	521	Quimby, W. F. and Lob-			Winters, E. C.	793	514
Foy, W. H.	792	514	dell, G. G.	762	502	Wolf, F.	759	501
Foye, W. H.	796	515	Quimby, W. F. and Lob-			Wood, N. S.	792	514
Fraser, E. J.	770	505	dell, G. G.	770	505	Woodbridge, S.	769	505
Frazee, L. F.	782	511	Randolph, J. H. Jr.	787	512	Young, J.	751	499
Freeborn, W.	799	517	Rice, F., Apple, A. and M.	818	524	Young, J.	757	501
Garver, A. A.	758	501	Richardson, W. C. B.	794	515	Zimmerman, J.	654	499
Gatling, R. J.	758	501	Roach, L.	755	500			

B. F. STICKNEY.
Steam Plow.

Patented Mar. 1, 1834.

M. Snyffert
Steam Plow

N^o 5,500

Patented Sep 4/1847

J. Young
Rotary Cultivator

N^o 5,666

Patented Dec 18/48

T. J. Tuthill
Rotary Cultivator

N^o 6,091

Patented Feb 6/1849

*Capt. Weeks.**Steam Plow.**No. 6997.**Patented Jan. 8. 1850.* *P. E. Royse.**Steam Plow.**No. 8,747.**Patented Feb. 17. 1854.* *C. B. Field.**Sheet 3. Sheet 4.**Rotary Cultivator.**No. 10624.**Patented Mar. 14. 1864.* *C. B. Field.**Sheet 2. Sheet 3.**Rotary Cultivator.**No. 10624.**Patented Mar. 14. 1864.*

G. B. Field.
Rotary Cultivator.

Sheet 3-3 Sheets.

No. 10624.

Patented Mar. 14, 1864.

H. M. Winsor.
Rotary Cultivator.

No. 1162.

Patented Jan. 27, 1864.

Haymond & Full.
Steam Flour.

No. 12387.

Patented Feb. 13, 1865.

D. Russell.
Steam Flour.

No. 12,466.

Patented Feb. 27, 1865.

Inventor
Isaac Russell.

*J. Zimmerman.**Rotary Cultivator.**N^o 15,453.**Patented Jan. 29, 1854.* *J. C. Evans.*
N^o 16,007. Steam-Plow. Patented Nov. 4, 1856. *J. Whitehead.**Rotary Cultivator.**N^o 17,467.**Patented Jan. 2, 1857.* **E. PECK.****Steam-Plow.****No. 18,600.****Patented Nov. 10, 1857.** *Witnesses:**Wm. Smith
and
H. H. Hurd**Inventor
E. Peck*

L. Matherell.

Rotary Cultivator.

N^o 1894

Patented Dec. 22, 1857

L. Root.

Rotary Cultivator.

N^o 19,052

Patented May 16, 1857

E.T. Russell.

Steam Plow.

N^o 20,605.

Patented Jan. 15, 1858

H.M. Platt.

Rotary Cultivator.

N^o 20,659

Patented Jan. 22, 1858

N. S. Smith
Rotary Cultivator

N^o 21,377

Patented Aug 31, 1858

J. Stevens
Steam Plow

N^o 21,903

Patented Oct. 12, 1858

T. S. STEVENS.
Steam Plow.

No. 21,857.

Patented Oct. 19, 1858.

G. B. Field
Steam Plow

N^o 22,106

Patented Jan. 1, 1859

Inventor
G. B. Field

W. B. GEDNEY

Steam-Plow

No. 22,857

Patented Feb. 8, 1859

J. C. Stoddard.

Rotary Cultivator

No. 23,405

Patented Mar. 20, 1859

Witnesses
Robt. Crossingham
Geo. Hussey

Inventor
J. C. Stoddard

J. YOUNG.

Steam Plow.

No. 24,597

Patented June 28, 1859

Witnesses.

Geo. Hussey
H. C. Young

Inventor

John Young

B. F. FIELD.

Steam-Plow

No. 24,799

Patented July 19, 1859

Witnesses
Robt. Crossingham
Geo. Hussey

Inventor
B. F. Field

*T. S. Scoville**Steam Power*N^o 27,348

Patented Mar. 6, 1860.

*A. A. Carver**Steam Power*N^o 28,359

Patented May 22, 1860.

*E. Harris**Steam Power*N^o 28,363

Patented May 22, 1860.

Fig. 1

Fig. 3

*R. L. Catling**Steam Power*N^o 28,463

Patented May 22, 1860.

Fig. 2

Witnesses
J. S. Smith
W. H. Brown

Inventor
R. L. Catling
per J. S. Smith

Pomeroy & Hudson

Rotary Cultivator

N° 28,687

Patented Jan 12 1860

F. Wolf

Steam Plow

N° 29,614

Patented Aug 12 1860

L. Stevens

Rotary Cultivator

N° 30,771

Patented Nov 27 1860

C. Comstock

Steam Plow

N° 31,531

Patented Feb 26 1861

C. Comstock.

Sheet 2 of 2 Sheets

Steam Flow

N^o 587
31,531

Patented Feb. 26, 1861.

Witnesses:
R. B. Hoffman
J. G. Lusk

Inventor:
Charles Comstock
per J. G. Lusk

C. Comstock.

Sheet 3 of 2 Sheets

Steam Flow

N^o 587
31,531

Patented Feb. 26, 1861

Fig. 2

W. F. Quincy.

Steam Flow

N^o 734
31,738

Patented Mar. 19, 1861

Fig. 1

Fig. 2

Witnesses:
W. B. Lusk
R. B. Hoffman

Inventor:
W. F. Quincy
per W. B. Lusk

Sheet 1 of 2 Sheets

D. Mann.

Steam Flow

N^o 1,133
32,137

Patented Apr. 23, 1861

Fig. 1

Witnesses:
J. B. Lusk
J. G. Lusk

Inventor:
Donald Mann

Sheet 2 of 2 Sheets

D. Mann.

Steam Plow

Patented Apr 23, 1867

N^o 1,133
32,137

Witnesses
J. H. Mann
J. W. Mann

Inventor
Donald Mann

R. J. Gatling

Steam Plow

Patented Jan. 18, 1867

N^o 1,546
32,600.

Witnesses
G. E. Mann
J. W. Mann

Inventor
R. J. Gatling

J. C. Crane

Steam Plow

Patented May 6, 1867

N^o 1,977
32,481

Witnesses
J. H. Crane
J. W. Crane

Inventor
J. C. Crane
J. W. Crane

J. Bauger

Rotary Cultivator

Patented Feb. 20, 1867

N^o 36,173.

Witnesses
G. E. Mann
J. W. Mann

Inventor
J. Bauger
J. W. Mann

E. Corwin
Steam Plov.

N^o 34,761.

Patented Mar. 25, 1862.

Witnesses
W. W. Corwin
J. H. Corwin

Inventor
Edwin Corwin
per Wm. H. Corwin

C. Comstock
Steam Plov.

N^o 35,210

Patented May 13, 1862.

Witnesses
J. C. Comstock
J. H. Comstock

Inventor
C. Comstock
per J. H. Comstock

S. H. H. H.

Steam Plov.

N^o 38,102.

Patented Apr. 7, 1863.

Witnesses
S. H. H. H.
S. H. H. H.

Inventor
S. H. H. H.
per Wm. H. H. H.

Quincy & Lordell

Steam Plov.

N^o 38,124.

Patented Apr. 7, 1863.

Witnesses
Quincy & Lordell
J. H. Lordell

Inventor
Quincy & Lordell
per J. H. Lordell

C. E. Orin
Steam Pion

N: 38676

Patented May 26, 1863.

H. H. H. H.
Steam Pion

N: 38976

Patented May 26, 1863.

J. I. Cole
Steam Pion

N: 39100

Patented May 26, 1863.

Witness
J. H. Orin
J. H. Orin

Inventor
J. I. Cole
per M. H. Cole
attorney

H. H. H. H.
Steam Pion

N: 39100

Patented May 26, 1863.

Witness
H. H. H. H.
H. H. H. H.

Inventor
H. H. H. H.
per M. H. Cole
attorney

W. Wadsworth

Rotary Separator

N^o 43,809

Patented Aug. 2, 1864.

Fig 1

Fig 2

Witnesses

J. H. H. H.
J. H. H. H.

Inventor

W. Wadsworth
per J. H. H. H.
Attorneys

Sheet 1, 3 Sheets

J. Hoodley

Steam Flour

N^o 43,913

Patented Aug. 23, 1864

Fig 1

Witnesses
J. H. H. H.
J. H. H. H.
J. H. H. H.

Inventor

J. Hoodley
per J. H. H. H.
Attorneys

Sheet 2, 3 Sheets

J. Hoodley

Steam Flour

N^o 43,913

Patented Aug. 23, 1864

Fig 2

Witnesses
J. H. H. H.
J. H. H. H.
J. H. H. H.

Inventor

J. Hoodley
per J. H. H. H.
Attorneys

Sheet 3, 3 Sheets

J. Hoodley

Steam Flour

N^o 43,913

Patented Aug. 23, 1864

Fig 4

Witnesses
J. H. H. H.
J. H. H. H.
J. H. H. H.

Inventor

J. Hoodley
per J. H. H. H.
Attorneys

J. Johnson
Rotary Calculator

N^o 245,249.

Patented Nov 20 1864

Fig 1

Fig 2

L. S. Florian

Steam Pump

N^o 246,018.

Patented Jan 21 1865

Inventor
L. S. Florian
Attorney

John H. Brown

J. B. Mower
Gang Plow

N^o 246,768

Patented Mar 12 1865

Inventor
J. B. Mower
Attorney

Inventor
John B. Mower
Attorney

G. S. Sargent

Steam Pump

N^o 246,995

Patented Mar 28 1865

Fig 1. Letter A Side View

Inventor
G. S. Sargent
Attorney

Inventor
G. S. Sargent
Attorney

Sheet 7, 1865

C. Comstock.

Steam Plow.

N^o 46,995.

Patented Mar. 20, 1865.

Fig 2 Letter B Side View, fore part

Witnesses.
J. Smith
& J. JonesInventor
C. Comstock
by J. H. Smith

Sheet 8, 1865

C. Comstock.

Steam Plow.

N^o 46,995.

Patented Mar. 20, 1865.

Fig 3.

Letter C. Side View, fore part

Witnesses.
J. Smith
& J. JonesInventor
C. Comstock
by J. H. Smith

Sheet 4, 1865

C. Comstock.

Steam Plow.

N^o 46,995

Patented Mar. 20, 1865

Fig 4 Letter D Front View, fore part

Witnesses.
J. Smith
& J. JonesInventor
C. Comstock
by J. H. Smith

Sheet 5, 1865

C. Comstock.

Steam Plow.

N^o 46,995.

Patented Mar. 20, 1865

Fig 5 Letter E Top View

Witnesses.
J. Smith
& J. JonesInventor
C. Comstock
by J. H. Smith

تذکرہ جلد ۱۰ - ۱۰۰

E. Comstock.

Steam Plant

N^o 40,995.

Patented Mar 12, 1965

July 2 - 1, the **F** Sectional Parts

57697. - 57698

C. Constant.

Steam Power

N^o 46.495

Patented Mar. 24, 1865.

Fig: 4. 6
Heteromorphia

L. S. Fittman

Rotary Cultivator.

N^o 47,005

Patented Mar. 29, 1906.

150

fig. 2

Sheet, 3 Sheets.

H. Stanley

Steam Flow:

N^o 47,996

Patented May 30, 1865.

Sheet 2 of 3 Sheets

H. Stanley

Steam Plow

N^o 47,990

Patented May 1, 1865

Sheet 3 of 3 Sheets

H. Stanley

Steam Plow

N^o 47,990

Patented May 30, 1865

M. R. Mears

Spacing Mach.

N^o 49,642

Patented Aug. 29, 1865

E. Badlam

Rotary Cultivator

N^o 50,438

Patented Oct. 17, 1865

C. Stacey

Rotary Cultivator

N^o 51,757

Patented Dec 26, 1865.

Fig 1

Fig 2

Fig 3

*Witnesses,
Geo. Lusk
Wm. Stacey*

*Inventor,
C. Stacey*

J. H. H. H.

Rotary Cultivator

N^o 52,496

Patented Feb 6, 1866

*Witnesses,
J. H. H. H.
J. H. H. H.*

*Inventor,
J. H. H. H.*

J. H. H. H.

Rotary Cultivator

N^o 53,577

Patented Jan 3, 1866

Fig 1

Fig 2

Fig 3

*Witnesses,
J. H. H. H.
J. H. H. H.*

*Inventor,
J. H. H. H.*

J. H. H. H.

Rotary Cultivator

N^o 54,212

Patented Aug 14, 1866

Fig 1

Fig 2

*Witnesses,
J. H. H. H.
J. H. H. H.*

*Inventor,
J. H. H. H.*

*Quincy & Lordell**Steam Plow**N^o 58,289**Patented Sep. 25, 1866.* *A. Thompson**Rotary Cultivator**N^o 58,312**Patented Sep. 25, 1866.* *E. J. Fraser**Rotary Cultivator**N^o 58,543**Patented Dec. 2, 1866.* *E. J. Fraser**Rotary Cultivator**N^o 58,543**Patented Dec. 2, 1866.*

J. C. FITZGERALD.
Rotary Cultivator.

No. 60,164.

Patented Dec. 4, 1886

WITNESSES:

*R. T. Boyd
J. C. Fitzgerald*

INVENTOR:

*J. C. Fitzgerald
Attest
J. C. Fitzgerald*

J. P. TARNUTZER.
Rotary Cultivator.

No. 64,262.

Patented Apr. 30, 1867

Witnesses:

*Wm. H. P. ...
J. P. Tarnutzer*

Inventor:

J. P. Tarnutzer

SCHULTZ & ADAMS.
Rotary Cultivator.

No. 64,580.

Patented May 7, 1867.

Witnesses:

*Wm. H. P. ...
J. C. Fitzgerald*

Inventor:

*J. L. Schultz
R. Adams
Attest
J. L. Schultz*

M. A. & I. M. CRAVATH
Rotary Cultivator

No. 66,802

Patented July 16, 1867

Witnesses:

*J. P. Tarnutzer
R. B. North*

Inventor:

*M. A. & I. M. Cravath
Attest
J. P. Tarnutzer*

M. A. CRAVATH & I. M. CRAVATH, dec'd.
J. S. GORDON assignee of said M. A. CRAVATH and E. E. CRAVATH, administrators of
I. M. CRAVATH
Revolving Plow.

No. 9,603.

Reissued March 15, 1881.

E. T. RUSSELL
Rotary Cultivator

No. 68,410

Patented Sept. 3, 1867

Witnesses:
J. S. Gordon
Wm. Russell

Inventor
E. T. Russell

H. BERKSTRESSER
Rotary Cultivator.

No. 6,689

Patented Sept. 10, 1867.

Witnesses:
J. S. Gordon
H. Berkstresser

Inventor:
H. Berkstresser
Per H. M. Co.
Attorneys

Jay Denison's Rotating Tooth Cultivator

71589

PATENTED
DEC 31 1867

Witnesses:
J. S. Gordon
Thomas Bell

Inventor
Jay Denison

W. H. Chamberlin

Potato Tigger

N^o 74991

Patented March 3, 1868

Fig. 2

Witnesses
J. B. Thompson
J. C. P. ...

Inventor
W. H. Chamberlin
By ...

Sheet 1 of 2 Sheets

E. B. Roberts

Cultivator.

N^o 75578

Patented Mar 17, 1868

Witnesses
J. B. Thompson
J. C. P. ...

Sheet 2 of 2 Sheets

E. B. Roberts

Cultivator.

N^o 75578

Patented Mar 17, 1868

Fig. 2

Fig. 4

Witnesses
L. Thompson
J. C. P. ...

Inventor
E. B. Roberts

J. B. Thompson

Factory ...

N^o 77630

Patented ...

Witnesses
J. B. Thompson
J. C. P. ...

Inventor
J. B. Thompson
J. C. P. ...

Langdon & Chamness,

Rotary Cultivator.

No 78031

Patented May 19, 1868.

Witnesses
J. W. Allen
R. L. ShattuckInventor
Langdon & Chamness
Attys

P. H. Chandler

Rotary Cultivator

No 78200

Patented May 26, 1868.

Witnesses
C. H. Smith
H. M. SmithInventor
P. H. Chandler

H. P. Eckles

Rotary Cultivator

No 78442

Patented Jun 2, 1868.

Fig 1

Fig 2

Fig 3

Witnesses
W. F. Allen
R. L. ShattuckInventor
H. P. Eckles
Attys

G. W. Cogner

Rotary Cultivator

No 780604

Patented Aug 4, 1868.

Fig 1

Fig 2

Witnesses
C. H. Smith
H. M. SmithInventor
G. W. Cogner
Attys

G. F. Lynch

Rotary Cultivator

N^o 80,643

Patented Aug. 4, 1868

C. Berninger

Rotary Cultivator

N^o 81,333

Patented Aug. 25, 1868

*Witnesses,
J. M. P. P. P.
S. C. P. P.*

*Inventor
C. Berninger
By J. M. P. P. P.
Atty*

F. L. Cogswell

Rotary Cultivator

N^o 83,636

Patented Oct. 1, 1868

*Witnesses,
J. M. P. P. P.
S. C. P. P.*

*Inventor
F. L. Cogswell
By J. M. P. P. P.
Atty*

E. H. Kent

Rotary Cultivator

N^o 83,639

Patented Nov. 3, 1868

*Witnesses,
J. M. P. P. P.
S. C. P. P.*

*Inventor
E. H. Kent
By J. M. P. P. P.
Atty*

E. F. Steiner
Rotary Cultivator

No. 10,186 *Patented Nov. 10, 1868*

Witnesses
A. H. H. H. H. H.
Inventor
Edw. F. Steiner
By *Daniel H. H. H.*

T. E. M. D. M.
Rotary Cultivator

No. 13,130 *Patented Dec. 24, 1868*

Witnesses
A. H. H. H. H.
Inventor
T. E. M. D. M.
By *Daniel H. H. H.*

L. Moody
Rotary Cultivator

No. 55,016 *Patented Dec. 15, 1868*

Witnesses
Henry H. H. H.
Inventor
Living Moody

A. J. Stephens
Cultivator

No. 87,721 *Patented Mar. 9, 1869*

Witnesses
John H. H. H.
Inventor
A. J. Stephens
By *Chas. H. H. H.*

F. C. Case
Spading Machine

No 88,368.

Patented July 20, 1869.

Witnesses:
Geo. H. Fleming
J. L. Fenn

Inventor:
Francis C. Case
By *Geo. H. Fleming*
Draper & Co.

L. Storwood
Spading Machine

No 92,750

Patented Jul. 20 1869.

Witness:
James J. McFarlane
Wm. H. H. H. H.

Inventor:
L. Storwood
By *Wm. H. H. H. H.*
atty.

J. G. Johnson

Cultivator and Stalk Cutter

No 92,834

Patented Jul. 20 1869

Inventor:
James G. Johnson

Witnesses:
Wm. H. H. H. H.
Samuel Jacob Wallace

B. E. Siversten

P.M.

No 93,238

Patented Aug 3. 1869

Witnesses:
James H. H. H.
J. B. H. H.

Inventor:
B. E. Siversten
By *Wm. H. H. H.*
atty.

*W. J. Dawson.**Rotary Cultivator.**N^o 95,005.**Patented Sept 21, 1869.*

Witnesses:

John H. Smith

Inventor:

Wm. H. Mumford
Attorney.*H. T. Toplin.**Cultivator.**N^o 95,394.**Patented Sept 28, 1869.*

Inventor:

*H. T. Toplin.**per*
Frederick G. Smith
Attorney.*T. Uehling.**Cultivator.**N^o 95,950.**Patented Oct. 19, 1869.*

Witnesses:

George H. Mahoe
George H. Mahoe

Inventor:

T. Uehling.
per
Wm. H. Mumford
Attys.*J. W. Burch.**Capstan Cultivator.**N^o 97,870.**Patented Dec. 14, 1869.*

Witnesses:

Wm. H. Mumford
W. F. Clark.

Inventor:

J. W. Burch.
Wm. H. Mumford

A. BONDELI.
Plowing Machine.

98,017.

Patented Dec. 21, 1869.

Witnesses:
A. W. Hingwood
H. J. Roberts.

Inventor,
A. Bondeli.
Munn & Co.
Attorneys

A. E. C. Nusbaum,
Rotary Cultivator.

No. 100,183.

Patented Feb. 22, 1870.

Witnesses
G. W. Macdonald
Geo. J. Menden

Inventor
A. E. C. Nusbaum
Per Atty. George
Clemens

M. J. Andrews.

Rotary Cultivator.

No. 101,077.

Patented Mar. 22, 1870.

Witnesses
John A. Ellis
George A. Miller

Inventor
M. J. Andrews
By
J. K. Alexander
Atty

J. Stenoweth.

2 Parts, Sheet 1.

Rotary Cultivator.

No. 101,710.

Patented Apr. 13, 1870.

Witnesses
David H. Webb, James E. Harnett
By
B. S. Manning

Inventor
J. Stenoweth

J. Osterweil,
Rotary Cultivator.
No. 107,710. Patented Apr. 12, 1870.

Witnesses:
David H. Holt
B. Stewart
Inventor:
James Osterweil

M. Johnson,
Cultivator.
No. 105,660. Patented July 12, 1870.

Witnesses:
Edw. H. H. H.
Wm. H. H.
Inventor:
Moses Johnson
Chapman & H. H.
Attorney

G. S. Newson,
Cultivator.
No. 106,195. Patented Aug. 9, 1870.

Witnesses:
G. S. Newson
Inventor:
G. S. Newson
Attorney

E. Bourne,
Rotary Cultivator.
No. 107,218. Patented Sept. 12, 1870.

Witnesses:
A. W. H. H.
Wm. H. H.
Inventor:
E. Bourne
Attorney

Forster, Joseph & Son.

Cultivator.

No 107050.

Patented Sept. 27, 1870.

FIG. 1.

FIG. 2.

FIG. 3.

FIG. 5.

FIG. 6.

Forster, Joseph & Son.
INVENTORS
By Joseph Forster

ATTEST.
John S. Patton
William R. Hays

FIG. 4.

Forster, Joseph & Son.

Cultivator.

No 107077.

Patented Sept. 27, 1870.

FIG. 2.

Forster, Joseph & Son.
INVENTORS
By Joseph Forster

ATTEST.
John S. Patton
William R. Hays

Thompson.

Heavy Cultivator.

No 109993.

Patented Nov. 15, 1871.

W. H. Hays.
John S. Patton
W. R. Hays

Inventor
John Thompson

W. H. Hays.

Heavy Cultivator.

No 109991.

Patented Nov. 15, 1871.

FIG. 2.

W. H. Hays.
John S. Patton
W. R. Hays

Inventor
John Thompson
By Joseph Forster

H. BELMONT.

Wheel Cultivator.

No. 110,109.

Patented Dec. 13, 1870.

Witnesses
W. T. Allen
J. C. Chapman

Inventor
H. Belmont

H. BELMONT.

Wheel Cultivator.

No. 110,109.

Patented Dec. 13, 1870.

Fig. 5

Fig. 6

Witnesses
W. T. Allen
J. C. Chapman

Inventor
H. Belmont

L. F. Frazier.

Plow

No. 112,913.

Patented Mar. 21, 1871.

Witnesses
W. T. Allen
J. C. Chapman

Inventor
L. F. Frazier
by his atty
J. C. Chapman

J. K. Morris.

Rotary Plow

No. 113,190.

Patented Mar. 28, 1871.

Witnesses
W. T. Allen
J. C. Chapman

Inventor:

J. K. Morris

Attorneys.

2 Sheets—Sheet 1

HENRY W. BOWEN.

Improvement in Automatic-Cultivators.

No. 127,453.

Patented June 4, 1872.

Witnesses

S. W. Piper
R. H. May

Inventor

Henry W. Bowen
by *R. H. May*

2 Sheets—Sheet 2.

HENRY W. BOWEN.

Improvement in Automatic-Cultivators.

No. 127,453.

Patented June 4, 1872.

Witnesses

S. W. Piper
R. H. May

Inventor

Henry W. Bowen
by *R. H. May*

E. T. BUSSELL.

Improvement in Discs for Agricultural Implements.

No. 127,677.

Patented June 11, 1872.

Witnesses

A. C. Brown
W. H. Brown

Inventor

E. T. Bussell
by *Thos. H. Brown*
Attorney

M. DECELLE.

Improvement in Rotary-Cultivator

No. 127,746.

Patented June 11, 1872.

Witness

James M. Hiles
Frank H. Hiles

Inventor

M. Decelle
by *Thos. H. Brown*
Attorney

2 Sheets--Sheet 1.

E. T. BUSSELL

Revolving Disc Plows.

No. 128,588.

Patented July 2, 1872

Fig. 1.

Witnesses
A. Rappert.
Joseph Torrest

Inventor.
Erasmus T. Bussell
By Theodore Mungen
Attorney.

2 Sheets--Sheet 2.

E. T. BUSSELL

Revolving Disc Plows.

No. 128,588.

Patented July 2, 1872

Fig. 2.

Fig. 3.

Witnesses
A. Rappert.
Joseph Torrest

Inventor
Erasmus T. Bussell
By Theodore Mungen
Attorney.

2 Sheets--Sheet 1.

W. E. BLEECKER.

Improvement in Rotary-Plows.

No. 129,206.

Patented July 16, 1872.

Fig. 1.

Witnesses
James A. Root
James S. Tombs
Inventor.
Wm. E. Blecker
By William C. Blecker
Attorney.

2 Sheets--Sheet 2

W. E. BLEECKER.

Improvement in Rotary-Plows.

No. 129,206.

Patented July 16, 1872.

Fig. 2.

Fig. 3.

Witnesses
James A. Root
James S. Tombs

Inventor
Wm. E. Blecker
By William C. Blecker
Attorney.

3 Sheets--Sheet 1

G. A. FORSGARD.
Improvement in Cultivators.

No. 131,160.

Patented Sep. 10, 1872

3 Sheets--Sheet 2.

G. A. FORSGARD
Improvement in Cultivators.

No. 131,160

Patented Sep. 10, 1872.

3 Sheets--Sheet 3.

G. A. FORSGARD.
Improvement in Cultivators.

No. 131,160

Patented Sep. 10, 1872.

W. B. HYDE

Rotary Sod-Cutter.

No. 131,401

Patented Sep. 17, 1872

Inventor
A. J. Dwyer
J. P. Dwyer

Inventor
William B. Hyde
J. P. Dwyer

2 Sheets--Sheet 1.

J. W. MILROY.
Rotary Cultivators.

No. 135,002.

Patented Jan. 21, 1873.

Fig. 1.

Witnesses
John H. Allen
Am. & Co.

Inventor
James W. Milroy
J. H. Alexander for
Attys.

2 Sheets--Sheet 2

J. W. MILROY.
Rotary Cultivators.

No. 135,002.

Patented Jan. 21, 1873.

Fig. 2.

Witnesses
John H. Allen
Am. & Co.

Inventor
James W. Milroy
J. H. Alexander for
Attys.

A. TROUARD.

Sugar-Cane Cultivators.

No. 135,174.

Patented Jan. 21, 1873.

Fig. 1.

Fig. 2.

Fig. 4.

Witnesses
J. P. Anderson
Am. & Co.

Inventor
Alcide Trouard
J. P. Anderson for
Attys.

C. N. POUNDSTONE

Rotary Cultivators

No. 135,664

Patented Feb. 11, 1873.

Fig. 1.

Fig. 2.

Witnesses
Henry W. Allen
Am. & Co.

Inventor
Charles N. Poundstone
by Edgar A. Allen
Attys.

J. H. RANDOLPH Jr.
Wheel Cultivators.

No. 138,931

Patented May 12, 1873

R. McKINLEY
Rotary Cultivators.

No. 139,013

Patented May 20, 1873

Witnesses:

Charles B. ...
Randolph M. ...

Inventor:

Robert W. ...
By ...

C. T. ELLISTON.
Rotary Plows.

No. 142,094.

Patented August 26, 1873

WITNESSES

J. ...
A. ...

INVENTOR

C. T. Elliston
Per: J. ...

A. S. McDONELL.
Cultivators.

No. 144,346.

Patented Nov. 4, 1873.

Witnesses:

J. ...
A. ...

Inventor:

A. S. McDonell
By his atty:
Godge & ...

2 Sheets--Sheet 1.

J. D. STARRITT.
Rotary-Cultivators.

No. 144,419.

Patented Nov. 11, 1873.

WITNESSES:
John H. Lawlor
T. McFarling

INVENTOR:
John D. Starritt
By Geo. W. Warner
Atty.

2 Sheets--Sheet 2.

J. D. STARRITT.
Rotary-Cultivators.

No. 144,419.

Patented Nov. 11, 1873.

WITNESSES:
John H. Lawlor
T. McFarling

INVENTOR:
John D. Starritt
By Geo. W. Warner
Atty.

A. B. HOFFMEYER & J. SCHMIDT.
Rotary-Plows.

No. 145,177

Patented Dec. 2, 1873.

Witnesses:
A. Hoffmeyer
J. Schmidt
W. C. Bradford

Witnesses:
A. Hoffmeyer
J. Schmidt
W. C. Bradford
Atty.

J. G. JONES.
Spading-Machines.

No. 145,737.

Patented Dec. 23, 1873.

Witnesses:
Oliver Ames Jr.
Geo. W. Kearney

Inventor:
John G. Jones

L. SONIAT.
Cane-Cultivators.

No. 147,992.

Patented Feb. 24, 1874.

WITNESSES.

J. H. Campbell
H. A. Jackson

INVENTOR.

L. Soniat

E. M. HESSELBOM.
Cotton-Cultivators.

No. 148,060.

2 Sheets--Sheet 1.
Patented March 3, 1874.

Fig. 2.

Witnesses.
Sydney Brooks
J. H. Campbell

Inventor.
E. M. Hesselbom
Per *J. H. Campbell*
Att'y.

E. M. HESSELBOM.
Cotton-Cultivators.

No. 148,060.

2 Sheets--Sheet 2
Patented March 3, 1874.

Witnesses.
Sydney Brooks
J. H. Campbell

Inventor.
E. M. Hesselbom
per *J. H. Campbell*
Att'y.

J. H. PITKIN.
Rotary Plows.

No. 151,510.

Patented June 2, 1874.

Fig. 2.

Witnesses
J. H. Pitkin
Camina Masson

Inventor
Julian H. Pitkin
By att'y. *A. B. Thompson*

J. C. ELLIOTT.
Cultivators.

No. 152,834

Patented July 7, 1874.

Witnesses:
J. C. Elliott
J. C. Elliott

Inventor:
J. C. Elliott
J. C. Elliott

W. E. BLEECKER.
Rotary Plows.

2 Sheets--Sheet 1.

No. 154,168.

Patented Aug. 18, 1874.

Witnesses:
E. D. Taylor
Alfred H. H. H.

Inventor:
William E. Blecker

W. E. BLEECKER.
Rotary Plows.

2 Sheets--Sheet 2.

No. 154,168.

Patented Aug. 18, 1874.

Witnesses:
E. D. Taylor
Alfred H. H.

Inventor:
William E. Blecker

H. JONES & W. K. YARD.
Rotary Plows.

2 Sheets--Sheet 1.

No. 154,489.

Patented Aug. 25, 1874.

Witnesses:
J. C. Elliott
J. C. Elliott

Inventors:
H. Jones
W. K. Yard
& A. Crawford

H. JONES & W. K. YARD.
Rotary-Plows.

2 Sheets--Sheet 2

No. 154,489.

Patented Aug. 25, 1874.

Witness
H. Jones
W. K. Yard

Inventors
H. Jones
W. K. Yard
by A. C. Crawford atty

A. F. BATCHELLER.
Corn-Plows.

2 Sheets--Sheet 1.

No. 156,268.

Patented Oct. 27, 1874.

WITNESSES
E. H. Bates
Robert Conitt

INVENTOR
Alexander F. Batcheller
Chapman & Co
Attorneys

A. F. BATCHELLER.
Corn-Plows.

2 Sheets--Sheet 2.

No. 156,268.

Patented Oct. 27, 1874.

WITNESSES
Robert Conitt
E. H. Bates

INVENTOR
Alexander F. Batcheller
Chapman & Co
Attorneys

H. VON PHUL, Jr. & J. MALLON.

Sugar-Cane Stubble-Diggers and Cultivators.

No. 157,893.

Patented Dec. 15, 1874.

WITNESSES
E. H. Bates
Robert Conitt

INVENTOR
H. Von Phul, Jr.
J. Mallon
Attorneys

W. H. FOYE.
Rotary-Plows.

2 Sheets--Sheet 1.

No. 158,482.

Patented Jan. 5, 1875.

Fig. 1.

Fig. 2.

Witnesses.

C. J. Rogers
A. Church

Inventor.

William H. Foye
By Hie T. Bennett
His Attorney

W. H. FOYE.
Rotary-Plows.

2 Sheets--Sheet 2.

No. 158,482.

Patented Jan. 5, 1875.

Fig. 3.

Fig. 4.

Fig. 6.

Fig. 5.

Fig. 7.

Witnesses.

C. J. Rogers
A. Church

Inventor.

William H. Foye
By Hie T. Bennett
His Attorney

N. S. WOOD.
Revolving-Cultivators.

2 Sheets--Sheet 1.

No. 158,663.

Patented Jan. 12, 1875.

Fig. 1.

Witnesses.

James P. Bishop
Joseph W. Johnston

Inventor.

Nathaniel S. Wood

N. S. WOOD.
Revolving-Cultivators.

2 Sheet --Sheet 2.

No. 158,663.

Patented Jan. 12, 1875.

Fig. 2.

Witnesses.

James P. Bishop
Joseph W. Johnston

Inventor.

Nathaniel S. Wood

G. W. FENLEY
Rotary Cultivator and Chopper.

No 163,061

Patented May 11, 1875

WITNESSES:
J. W. Howard
J. S. Howard

INVENTOR:
G. W. Fenley
ATTORNEYS:
Wm. L. C.

E. C. WINTERS
Revolving Cultivator.

No 163,346

Patented May 18, 1875

WITNESSES:
E. Winters
J. S. Howard

INVENTOR:
E. C. Winters
ATTORNEYS:
J. S. Howard

J. H. COON.
Rotary Cultivator.

No 164,428.

Patented June 15, 1875.

WITNESSES:
J. S. Howard
J. S. Howard

INVENTOR:
J. H. Coon
ATTORNEYS:
Wm. L. C.

A. F. BATCHELLER.
Cern-Cultivator.

2 Sheets--Sheet 1

No 164,960

Patented June 29, 1875.

WITNESSES:
J. S. Howard
J. S. Howard

INVENTOR:
A. F. Batcheller
ATTORNEYS:
Wm. L. C.

2 Sheets--Sheet 2
A. F. BATCHELLER.
 Corn-Cultivator.
 Patented June 29, 1875.

No. 164,960.

WITNESSES
Chas. B. Bates
Geo. C. Latham

INVENTOR
A. F. Batcheller
Chapman & Co.
 ATTORNEYS

2 Sheets--Sheet 1
W. C. B. RICHARDSON.
 Rotary-Spaders.

No. 166,721

Patented Aug. 17, 1875.

WITNESSES
Wm. B. Richardson
Geo. C. Latham

INVENTOR
Wm. B. Richardson
Geo. C. Latham
 ATTORNEYS

2 Sheets--Sheet 2.
W. C. B. RICHARDSON
 Rotary-Spaders.

No. 166,721.

Patented Aug. 17, 1875.

WITNESSES
Wm. B. Richardson
Geo. C. Latham

INVENTOR
Wm. B. Richardson
Geo. C. Latham
 ATTORNEYS

2 Sheets--Sheet 1.
J. K. UNDERWOOD.
 ROTARY GANG-FLOW.

No. 169,499.

Patented Nov. 2, 1875.

WITNESSES
Geo. C. Latham
A. F. Terry

INVENTOR
John K. Underwood
Wm. B. Richardson
 ATTORNEYS

J. K. UNDERWOOD.
ROTARY GANG-FLOW.

2 Sheets—Sheet 2.

No. 169,499.

Patented Nov. 2, 1875.

J. K. UNDERWOOD.
ROTARY GANG-FLOWS.

2 Sheets—Sheet 1.

No. 7,865.

Reissued Aug. 28, 1877.

Witness:
H. K. Cope
H. B. Terry

INVENTOR:
John K. Underwood
By T. F. Warren, his
Attorney.

J. K. UNDERWOOD.
ROTARY GANG-FLOWS

2 Sheets—Sheet 2.

No. 7,865.

Reissued Aug. 28, 1877.

Witness:
H. K. Cope
H. B. Terry

INVENTOR:
John K. Underwood
By T. F. Warren, his
Attorney.

D. W. BRODNAX, Sr.
ROTARY SPADE-CULTIVATOR

No. 170,661.

Patented Dec. 7, 1875.

WITNESSES:
B. J. Birmingham
Wm. H. Breckenridge

INVENTOR:
David M. Brodnax, Sr.
By Leggett & Leggett, Attorneys.

G. E. HOPKINS.
ROTARY CULTIVATOR.

No. 174,245.

Patented Feb. 29, 1876.

Witnesses.
J. N. Reed,
J. D. Cook.

INVENTOR:

Geo. E. Hopkins

W. H. FOYE.
ROTARY-PLOW.

No. 174,796.

Patented March 14, 1876.

Witnesses

E. J. Linsley,
J. H. Linsley.

INVENTOR

Wm. H. Foye,
By N. H. Foye,
Att'y.

J. C. STONE.
ROTARY-CULTIVATOR.

No. 176,897

Patented May 2, 1876.

WITNESSES:

J. C. Stone,
John W. Smith.

INVENTOR:

J. C. Stone,
BY J. W. Smith,
ATTORNEYS.

J. E. UNDERWOOD.
ROTARY FLOW.

No. 177,663

Patented May 23, 1876.

WITNESSES

J. H. Linsley,
J. H. Linsley.

INVENTOR

John E. Underwood,
By S. F. Warner,
Att'y.

T. A. KERSHNER.
REVOLVING HARROW AND PULVERIZER

No. 179,320.

Patented June 27, 1876

WITNESSES:
Charles Nelson
John Cothals

INVENTOR:
T. A. Kershner
BY *M. M. He*
ATTORNEY.

T. ROUSE.
ROTARY HARROWS.

No. 179,427

Patented July 4, 1876

WITNESSES:
W. L. Lacey
James L. Lacey

INVENTOR:
T. Rouse
BY *W. L. Lacey*
ATTORNEY.

J. HAYNES.
CULTIVATOR, FLOW AND HARROW
No. 179,918.
Patented July 18, 1876.

2 Sheets—Sheet 1.

WITNESSES:
W. L. Lacey
John Cothals

INVENTOR:
J. Haynes
BY *M. M. He*
ATTORNEY.

J. HAYNES.
CULTIVATOR, FLOW AND HARROW
No. 179,918.
Patented July 18, 1876

2 Sheets—Sheet 2

WITNESSES:
W. L. Lacey
John Cothals

INVENTOR:
J. Haynes
BY *M. M. He*
ATTORNEY.

D. B. SHERMAN
REVOLVING GARDEN AND FIELD HOE
No. 181,870
Patented Sept. 5, 1876

WITNESSES:

Samuel M. Cook
John G. Smith

INVENTOR:

D. B. Sherman
BY *Wm. L. Smith*
ATTORNEYS.

W. McC. MATHES.
COMBINED SPADING, PLOWING AND STALK-CUTTING MACHINES
No. 181,959.
Patented Sept. 6, 1876

2 Sheets—Sheet 1

Fig. 1

WITNESSES:

Charles Cook
W. L. Smith

INVENTOR:

William McConnell Mathes
BY *W. L. Smith* ATTORNEYS.

W. McC. MATHES.
COMBINED SPADING, PLOWING AND STALK CUTTING MACHINES.
No. 181,959.
Patented Sept. 6, 1876.

2 Sheets—Sheet 2.

Fig. 2.

WITNESSES:

Charles Cook
W. L. Smith

INVENTOR:

William McConnell Mathes
BY *W. L. Smith* ATTORNEYS.

P. D. & H. C. PELSOR.
ROTARY-SPADER STALK-CUTTERS AND FIELD-ROLLERS.
No. 181,976.
Patented Sept. 6, 1876

WITNESSES:

Charles Cook
John G. Smith

INVENTOR:

P. D. Pelsor
H. C. Pelsor
BY *Wm. L. Smith*
ATTORNEYS.

2 Sheets—Sheet 1.

W. T. NICHOLS.
ROTARY HARROWS.

No. 187,769.

Patented Feb. 27, 1877.

Fig 1

Fig 2

Fig 4

Fig 5

Fig 6

G

G

Fig 7

Attest.
H. C. Corlies
J. A. F. J. J.

INVENTOR:
William T. Nichols
Per. C. B. F. J. J.
Attus

2 Sheets—Sheet 2

W. T. NICHOLS.
ROTARY HARROWS

No. 187,769.

Patented Feb. 27, 1877.

Fig 8

Fig 9

Fig 14

Fig 15

Fig 12

Fig 13

Fig 11

Attest.
H. C. Corlies
J. A. F. J. J.

INVENTOR:
William T. Nichols
Per. C. B. F. J. J.
Attus

J. R. TILLEY.
CULTIVATOR.

No. 190,796.

Patented May 16, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

W. J. J. J.
J. A. F. J. J.

INVENTOR:
John R. Tilley
BY M. J. J. J.
ATTORNEYS

W. FREEBORN
ROTARY FLOW

No. 191,332.

Patented May 29, 1877.

Fig. 1.

Fig. 2.

Witnesses
J. A. F. J. J.
J. R. J. J.

INVENTOR:
W. Freeborn
BY J. A. F. J. J.
ATTORNEYS

J. ADAMS.
Soil-Pulverizer.

No. 196,617.

Patented Oct. 30, 1877.

Witnesses:

Henry R. Leonard
John J. Sear

Inventor:

Jesse Adams
mak

H. SKILLINGS.
Revolving Plow.

2 Sheets—Sheet 1

No. 198,163.

Patented Dec. 11, 1877.

Witnesses:

Robert Smith
George C. Smith

Inventor:

Hermon Skillings.
George C. Smith & Co.
ATTORNEYS

H. SKILLINGS.
Revolving Plow.

2 Sheets—Sheet 2

No. 198,163.

Patented Dec. 11, 1877.

Witnesses:

Robert Smith
George C. Smith

Inventor:

Hermon Skillings.
George C. Smith & Co.
ATTORNEYS

G. C. BREEDEN & O. T. WHEELER.
Rotary Cultivator.

No. 198,339.

Patented Dec. 18, 1877.

Witnesses:

George C. Smith
Robert Smith

Inventor:

G. C. Breeden
O. T. Wheeler.
BY A. M. Smith
ATTORNEYS

J. GRANER.
Revolving Cultivator
No. 198,540. Patented Dec. 25, 1877.

Witnesses

Alfred J. Watson
J. R. Spencer

Inventor
J. H. Jones
By *H. A. Jenkins*
Attorney

L. MARTIN
Machine for Exterminating Noxious Grasses.
No. 203,172. Patented April 30, 1878.

Attest
R. E. White
Edwin Scott

Inventor
Louis Martin
By *A. R. Rogers*
Att'y.

L. MARTIN.
Machine for Exterminating Noxious Grasses.
No. 203,172. Patented April 30, 1878.

Attest
R. E. White
Edwin Scott

Inventor
Louis Martin
By *A. R. Rogers*
Att'y.

D. LOCKE
Clod-Crusher

No. 205,969

Patented July 16, 1878.

Witnesses.

W. L. Garner
Edwin Scott

Inventor
Daniel Locke
By *A. R. Rogers*
Att'y.

J. MALLON
Cultivator

No. 206,185

Patented July 23, 1878.

Witnesses

*J. C. Hubbell**W. F. Murray*

Inventor
James Mallon
By *H. A. J. J. J.*
Attorney

3 Sheets—Sheet 1

C. E. SACKETT
Cultivators.

No. 206,974.

Patented Aug. 13, 1878.

Witnesses

W. F. Murray
J. C. Hubbell
J. A. J. J. J.

Inventor.

Chas. E. Sackett.

by *Mason & Phillips*
Attorneys

3 Sheets—Sheet 2

C. E. SACKETT.
Cultivators.

No. 206,974.

Patented Aug. 13, 1878.

Witnesses
W. F. Murray
J. C. Hubbell

J. A. J. J. J.

Inventor,
Chas. E. Sackett.
by *Mason & Phillips*
Attorneys

3 Sheets—Sheet 3

C. E. SACKETT.
Cultivators.

No. 206,974.

Patented Aug. 13, 1878.

Witnesses
W. F. Murray
J. C. Hubbell

J. A. J. J. J.

Inventor.

Chas. E. Sackett.

by *Mason & Phillips*
Attorneys

2 Sheets—Sheet 1.

D. H. LANE.
Rotary-Plow.

No. 208,246.

Patented Sept. 24, 1878.

Attest:
Wm. J. Harbach
Charles H. Schaff

INVENTOR:
David H. Lane
By *E. H. Warner* - his
Attorney

2 Sheets—Sheet 2

D. H. LANE.
Rotary-Plow.

No. 208,246.

Patented Sept. 24, 1878.

Attest:
Wm. J. Harbach
Charles H. Schaff

INVENTOR:
David H. Lane
By *E. H. Warner* - his
Attorney

2 Sheets—Sheet 1.

N. PALMER.
Rotary Gang-Plow.

No. 213,242

Patented Mar. 11, 1879.

Witnesses
Rea G. Dietrich
J. Walter Fowler
Inventor
Nelson Palmer
By *De Witt C. Allen* - his
Attorney

2 Sheets—Sheet 2

N. PALMER.
Rotary Gang-Plow.

No. 213,242

Patented Mar. 11, 1879.

Witnesses
Rea G. Dietrich
J. Walter Fowler
Inventor
Nelson Palmer
By *De Witt C. Allen* - his
Attorney

J. AUSTIN.
Plow.

No. 216,592.

Patented June 17, 1879.

INVENTOR:
John Austin

Attest:
J. F. Davis
C. W. Long

2 Sheets—Sheet 1

C. J. DANIELS.
Combination Harrow and Plow.

No. 218,429.

Patented Aug. 12, 1879.

Attest:
R. D. Brown
C. W. Long

Inventor:
Charles J. Daniels
By A. W. Craigie
Atty.

2 Sheets—Sheet 2.

C. J. DANIELS.
Combination Harrow and Plow.

No. 218,429.

Patented Aug. 12, 1879.

Attest:
R. D. Brown
C. W. Long

Inventor:
Charles J. Daniels
By A. W. Craigie
Atty.

4 Sheets—Sheet 1.

C. E. SACKETT.
Cultivating-Machine.

No. 219,115.

Patented Sept. 2, 1879.

Attest:
J. F. Davis
C. W. Long

Inventor:
Chas. E. Sackett

4 Sheets—Sheet 2

C. E. SACKETT.
Cultivating-Machine.

No. 219,115

Patented Sept. 2, 1879.

Fig 2

Attest,

Samuel H. Thompson
S. H. Appleby

Inventor,

Chas. E. Sackett

4 Sheets—Sheet 3

C. E. SACKETT.
Cultivating-Machine

No. 219,115.

Patented Sept. 2, 1879.

Fig 3

Attest,

Samuel H. Thompson
S. H. Appleby

Inventor,

Chas. E. Sackett

4 Sheets—Sheet 4

C. E. SACKETT.
Cultivating-Machine.

No. 219,115.

Patented Sept. 2, 1879.

Fig 6

Fig 5

Fig 4

Attest,

Samuel H. Thompson
S. H. Appleby

Inventor,

Chas. E. Sackett

3 Sheets—Sheet 1

C. E. SACKETT.
Cultivator.

No. 219,116.

Patented Sept. 2, 1879.

Fig 1

Witnesses

S. H. Appleby
Frank H. Harrison

Inventor,

Chas. E. Sackett

C. E. SACKETT.
Cultivator.

3 Sheets—Sheet 2

No. 219,116.

Patented Sept. 2, 1879.

Witnesses:

J. A. Appleby
Frank H. Hansen

Inventor:

Chas. E. Sackett

C. E. SACKETT.
Cultivator.

3 Sheets—Sheet 3

No. 219,116.

Patented Sept. 2, 1879.

Witnesses:

J. A. Appleby
Frank H. Hansen

Inventor:

Chas. E. Sackett

C. E. SACKETT.

Combined Plow, Harrow, and Drill.

3 Sheets—Sheet 1.

No. 220,176.

Patented Sept. 30, 1879.

Witnesses:

J. A. Appleby
Frank H. Hansen

Inventor:

Chas. E. Sackett

C. E. SACKETT.

Combined Plow, Harrow, and Drill.

3 Sheets—Sheet 2.

No. 220,176.

Patented Sept. 30, 1879.

Witnesses:
J. A. Appleby
Frank H. Hansen

Inventor:

Chas. E. Sackett

8 Sheets--Sheet 3

C. E. SACKETT.
Combined Plow, Harrow, and Drill.
No. 220,176. Patented Sept. 30, 1879

West
J. A. Appleby
Frank H. Harrison

Chas E. Fickett

4 Sheets: — Sheet 1.

C. E. SACKETT.
Combined Plow, Harrow, and Seed-Drill.
No. 220,177. Patented Sept. 30, 1879.

William Foote
Warren Tully

Charles C. - 1881
by Ellen J. - 1881

4 Sheets.—Sheet 2:

C. E. SACKETT.
Combined, Plow, Harrow, and Seed-Drill
No. 220,177. Patented Sept. 30, 1879.

1857
 Providence R.I.
 Warren Sully

Charles & Frederick.
by Ellis, Maria.
1844

4 Sheets—Sheet J

C. E. SACKETT
Combined Plow, Harrow, and Seed-Drill.
No. 220,177. Patented Sept. 30, 1879.

Alfred
Clarence P.
Warren July

Charles & Son
by Ellis Spear
City

C. E. SACKETT.
Combined Plow, Harrow, and Seed-Drill
No. 220,177. Patented Sept. 30, 1879.

Witness
Charles E. Sackett
Witness, S. J. G.

Inventor
Charles E. Sackett
by Ellis Spear
Att'y

R. B. PEDRICK.
Plow.

No. 221,095. Patented Oct. 28, 1879.

Witness
Walter Knight
Witness

Inventor
Richard B. Pedrick
By Knight Bros.
Att'y

R. B. PEDRICK.
Plow.

No. 221,095.

Patented Oct. 28, 1879.

Witness
Walter Knight
Witness

Inventor
Richard B. Pedrick
By Knight Bros.
Att'y

C. E. SACKETT.

Combined Plow and Pulverizing Harrow.
No. 222,603. Patented Dec. 16, 1879.

Witness
Walter Knight
Witness

Inventor
Charles E. Sackett
by Ellis Spear
Att'y

2 Sheets—Sheet 2

C. E. SACKETT.
Combined Plow and Pulverizing Harrow.
No. 222,603.
Patented Dec. 16, 1879.

Witnesses,
J. W. Smith
R. J. Rogers

Inventor,
Charles E. Sackett
By E. C. S. S. S.
Attorney

3 Sheets—Sheet 1

C. E. SACKETT.
Combined Plow and Pulverizing Harrow.
No. 222,603.
Patented Dec. 16, 1879.

Witnesses,
J. W. Smith
R. J. Rogers

Inventor,
Charles E. Sackett
By E. C. S. S. S.
Attorney

2 Sheets—Sheet 1

C. R. FOSTER.
Rotary Gang-Plow.
No. 224,009.
Patented Feb. 3, 1880.

Witnesses,
H. C. Carter
J. W. R. C. C. C.

Inventor,
Charles R. Foster
By C. C. C. C. C.
Attorney

2 Sheets—Sheet 1

C. R. FOSTER.
Rotary Gang-Plow.
No. 224,009.
Patented Feb. 3, 1880.

Witnesses,
H. C. Carter
J. W. R. C. C. C.

Inventor,
Charles R. Foster
By C. C. C. C. C.
Attorney

B. J. WEST
Cultivator.

No. 226,691.

Patented April 20, 1880.

Witnesses:

John G. Parker
L. H. Lynch

H. CHITON

By *Wm. J. West*
John G. Parker
ATTORNEYS

G. B. ST. JOHN & J. K. UNDERWOOD
Rotary-Plow.

No. 227,070.

Patented April 27, 1880.

Witnesses:

Wm. J. West
John G. Parker

Inventor:

G. B. St. John
J. K. Underwood
by *Wm. J. West*
John G. Parker

G. B. ST. JOHN & J. K. UNDERWOOD.
Rotary-Plow.

No. 227,070.

Patented April 27, 1880.

Witnesses:

Wm. J. West
John G. Parker

Inventor:
G. B. St. John
J. K. Underwood
by *Wm. J. West*
John G. Parker

(No Model.)

T. J. TALLY.
Rotary Plow.

No. 229,200.

Patented June 22, 1880.

Witnesses:

C. Newell
T. J. Tally

Inventor:

T. J. Tally
by *C. Newell*
T. J. Tally

ATTORNEYS.

J. K. UNDERWOOD & G. B. ST. JOHN
Rotary Plow.

No. 233,455.

Patented Oct. 19, 1880.

J. K. UNDERWOOD & G. B. ST. JOHN
Rotary Plow.

No. 233,455

Patented Oct. 19, 1880.

(No Model.)

C. E. SACKETT.

8 Sheets—Sheet 1.

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

(No Model.)

C. E. SACKETT.

8 Sheets—Sheet 2.

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

(No Model.)

C E SACKETT

8 Sheets—Sheet 3

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witness
L. W. Barnes
R. P. Barnes

Inventor:
Charles E. Sackett
by Eli Spear
Attorney

(No Model.)

C E SACKETT

8 Sheets—Sheet 4

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witness
R. P. Barnes
L. W. Barnes

Inventor:
Charles E. Sackett
by Eli Spear
Attorney

(No Model.)

C E SACKETT.

8 Sheets—Sheet 5

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witness
R. P. Barnes
L. W. Barnes

Inventor:
Charles E. Sackett
by Eli Spear
Attorney

(No Model.)

C E SACKETT.

8 Sheets—Sheet 6

Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witness
R. P. Barnes
L. W. Barnes

Inventor:
Charles E. Sackett
by Eli Spear
Attorney

(No Model.)

5 Sheets—Sheet 1

C. E. SACKETT
Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witnesses
W. B. Burdett
Marion Kelly

Inventor
Charles E. Sackett
by J. C. Spear
Attorney

(No Model.)

5 Sheets—Sheet 2

C. E. SACKETT
Combined Plow and Pulverizing Apparatus.
No. 233,809. Patented Oct. 26, 1880.

Witnesses
W. B. Burdett
Marion Kelly

Inventor
Charles E. Sackett
by J. C. Spear
Attorney

(No Model.)

2 Sheets—Sheet 1

T. H. McCRAY.
Rotary Plow.
No. 235,372. Patented Dec. 14, 1880.

Witnesses
W. B. Burdett
Marion Kelly

Inventor
Thomas H. McCray
by W. B. Burdett
Attorney

(No Model.)

2 Sheets—Sheet 2

T. H. McCRAY
Rotary Plow.
No. 235,372. Patented Dec. 14, 1880.

Witnesses

Inventor

W. B. Burdett
J. P. Edwards

Thomas H. McCray
by W. B. Burdett
Attorney

(No Model.)

2 Sheets—Sheet 1

H. H. SPENCER.
Spading Machine.

No. 236,641.

Patented Jan. 11, 1881.

WITNESSES:
John B. C. ...
Glenckner

INVENTOR:
H. H. Spencer
BY *Russell & Co.*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2

H. H. SPENCER.
Spading Machine.

No. 236,641.

Patented Jan. 11, 1881.

WITNESSES:
John B. C. ...
Glenckner

INVENTOR:
H. H. Spencer
BY *Russell & Co.*
ATTORNEYS.

(No Model.)

J. SCHUCHARD.

Rotary Spading Machine.

No. 238,532.

Patented March 8, 1881.

Witnesses:
J. W. ...
A. B. ...

Inventor:
Julius Schuchard
By *Paine, Trofey & Chad*
Attorneys.

(No Model.)

10 Sheets—Sheet 1

C. E. SACKETT.
Combined Plow, &c.

No. 238,970.

Patented March 15, 1881.

Witness:
R. J. Barnes
Sackett

Inventor:
Charles E. Sackett
by *Ellis Spear*
Attorney

(No Model.)

10 Sheets—Sheet 2

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

Witness:
R. J. Barnes
S. A. Linsley

Inventor:
Charles E. Sackett
by Edwin Spear
Attorney

(No Model.)

10 Sheets—Sheet 3

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

Witness:
R. J. Barnes
S. A. Linsley

Inventor:
Charles E. Sackett
by Edwin Spear
Attorney

(No Model.)

10 Sheets—Sheet 4

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

Witness:
R. J. Barnes
S. A. Linsley

Inventor:
Charles E. Sackett
by Edwin Spear
Attorney

(No Model.)

10 Sheets—Sheet 5

C. E. SACKETT.
Combined Plow, &c.
No. 238,970. Patented March 15, 1881.

Witness:
R. J. Barnes
S. A. Linsley

Inventor:
Charles E. Sackett
by Edwin Spear
Attorney

(No Model.)

10 Sheets—Sheet 6

C. E. SACKETT.
Combined Plow, &c.

No. 238,970.

Patented March 15, 1881.

Attest:
R. J. Barnes
S. C. Linsley

Inventor:
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.)

10 Sheets—Sheet 7

C. E. SACKETT.
Combined Plow, &c.

No. 238,970.

Patented March 15, 1881.

Attest:
R. J. Barnes
S. C. Linsley

Inventor:
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.)

10 Sheets—Sheet 8

C. E. SACKETT.
Combined Plow, &c.

No. 238,970.

Patented March 15, 1881.

Attest:
R. J. Barnes
S. C. Linsley

Inventor:
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.)

10 Sheets—Sheet 9

C. E. SACKETT.
Combined Plow, &c.

No. 238,970.

Patented March 15, 1881.

Attest:
R. J. Barnes
S. C. Linsley

Inventor:
Charles E. Sackett
by Wm. Spear
Attorney

(No Model.)

10 Sheets—Sheet 10

C. E. SACKETT.
Combined Plow, &c.

No. 238,970

Patented March 15, 1881.

Witnesses
R. G. Barnes
L. M. Linsley

Inventor
Charles E. Sackett
by J. H. Stearns
Attorney

(No Model.)

2 Sheets—Sheet 1

J. W. BODLEY.
Rotary Cultivator.

No. 239,219

Patented March 22, 1881.

WITNESSES

J. H. Stearns
Geo. H. Stearns

James W. Bodley INVENTOR

per Howard Bros. ATTORNEYS

(No Model.)

2 Sheets—Sheet 2

J. W. BODLEY
Rotary Cultivator.

No. 239,219.

Patented March 22, 1881.

WITNESSES.

W. H. Harris
Geo. H. Stearns

James W. Bodley INVENTOR

per Howard Bros. ATTORNEYS.

(No Model.)

J. AUSTIN.
PLOW.

No. 244,367.

Patented July 19, 1881.

Witnesses.
Harry Frankforter
F. F. Warner.

Inventor
John Austin

(No Model.)

J. W. BODLEY.
ROTARY CULTIVATOR.

No. 245,053.

Patented Aug. 2, 1881.

WITNESSES.

J. L. Rodgers,
A. J. Shiner.

James W. Bodley INVENTOR.

By Howard ATTORNEYS.

(No Model.)

I. N. KYLE.
ROTARY GANG PLOW.

No. 250,739.

Patented Dec. 13, 1881.

Attest,
Wm H Knight
W Clerk

Inventor:
Isaac N Kyle
By Charles R. Hatch
his atty.

(No Model.)

F. RICE, A. & M. APPLE.
TOBACCO HILLING MACHINE.

No. 251,135.

Patented Dec. 20, 1881.

WITNESSES:

C. H. Kelley,
William Watkins

INVENTORS
Franklin Rice
More Apple
BY *B. Reising*
his atty.

(No Model.)

E. E. BOSTWICK.
CULTIVATOR.

No. 256,542.

Patented Apr. 18, 1882.

Attest,
E. Bostwick
E. Sully

Inventor:
Edward E. Bostwick
per Fred Sprague
att.

(No Model.)

I. HUFFER.
SOIL PULVERIZER.

No. 266,801.

Patented Apr. 18, 1882.

Fig. 1

Fig. 2

Fig. 3

Witnesses
Edmund Howell
J. J. McCully

Inventor
I. Huffer
By J. M. Alexander
his Attorney

(No Model.)

S. C. BAUCUM.
SULKY PLOW AND COTTON SCRAPER.

No. 267,914.

Patented May 16, 1882.

2 Sheets—Sheet 1.

Fig. 1

Witnesses
James Chadwick
Jas. A. Baxter

Inventor
Samuel C. Baucum
By Myra H. Baucum

(No Model.)

S. C. BAUCUM.
SULKY PLOW AND COTTON SCRAPER.

No. 267,914.

Patented May 16, 1882.

2 Sheets—Sheet 2

Fig. 1

Fig. 2

Witnesses
James Chadwick
Jas. A. Baxter

Inventor
Samuel C. Baucum
By Myra H. Baucum

(No Model.)

O. E. MILES.
PLOW.

No. 259,894.

Patented June 20, 1882.

Fig. 1

Fig. 2

Witnesses
R. L. Dietrich
his Attorney

Inventor
O. E. Miles
By Louis H. Miles

(Model.)

E. M. MILES.

3 Sheets—Sheet 1

COMBINED REVOLVING PLOW OR SPADER AND ROLLER.

No. 260,596.

Patented July 4, 1882.

WITNESSES:
H. A. Houghton
C. J. H. Houghton

INVENTOR:
E. M. Miles
BY *R. M. L.*
ATTORNEYS

(Model.)

E. M. MILES.

3 Sheets—Sheet 2

COMBINED REVOLVING PLOW OR SPADER AND ROLLER.

No. 260,596.

Patented July 4, 1882.

WITNESSES:
H. A. Houghton
C. J. H. Houghton

INVENTOR:
E. M. Miles
BY *R. M. L.*
ATTORNEYS

(Model.)

E. M. MILES.

3 Sheets—Sheet 3

COMBINED REVOLVING PLOW OR SPADER AND ROLLER.

No. 260,596.

Patented July 4, 1882.

WITNESSES:
H. A. Houghton
C. J. H. Houghton

INVENTOR:
E. M. Miles
BY *R. M. L.*
ATTORNEYS

(No Model.)

J. FEIERABEND.

PLOWING AND TILLING APPARATUS.

No. 260,673.

Patented July 4, 1882.

WITNESSES:
H. A. Houghton
C. J. H. Houghton

INVENTOR:
J. Feierabend
BY *A. P. Hoyer*
ATTORNEY

(No Model.)

2 Sheets—Sheet 1

G. PIRRUNG.
ROTARY PLOW.

No. 260,782.

Patented July 11, 1882.

Witnesses

Richard Schoff
Ed. Schoff

Inventor:

G. Pirrung
by George & Co.
Atty

No. 260,782.

2 Sheets—Sheet 2

G. PIRRUNG.
ROTARY PLOW.

No. 260,782.

Patented July 11, 1882.

Witnesses:
Richard Schoff
Ed. Schoff

Inventor:

G. Pirrung
by George & Co.
Atty

(No Model.)

6 Sheets—Sheet 1

W. E. CROSSBY & A. CAREY.
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Witnesses

W. E. Crossby
A. Carey
J. H. Crossby
J. H. Crossby

Inventor:

W. E. Crossby
A. Carey

(No Model.)

6 Sheets—Sheet 2

W. E. CROSSBY & A. CAREY.
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Witnesses

W. E. Crossby
A. Carey
J. H. Crossby
J. H. Crossby

Inventor:

W. E. Crossby
A. Carey

(No Model.)

W. E. CROSSBY & A. CAREY
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Fig. 4.

Fig. 6.

Fig. 4.

Fig. 3.

Witnesses

Done
17 June 1882
14 Tongue St. London

Inventor
W. E. Crossby
Arthur Carey

(No Model.)

W. E. CROSSBY & A. CAREY
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Witnesses

Done
17 June 1882
14 Tongue St. London

Inventor
W. E. Crossby
Arthur Carey

(No Model.)

W. E. CROSSBY & A. CAREY
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Witnesses

Done
17 June 1882
14 Tongue St. London

Inventor
W. E. Crossby
Arthur Carey

(No Model.)

W. E. CROSSBY & A. CAREY
MACHINE FOR DIGGING LAND.

No. 262,377.

Patented Aug. 8, 1882.

Witnesses

Done
17 June 1882
14 Tongue St. London

Inventor
W. E. Crossby
Arthur Carey

(No Model.)

A. J. COCHRAN.
SOIL PULVERIZER.

No. 265,917.

Patented Oct. 10, 1882.

WITNESSES

Chas. N. Leonard
E. H. Remond

INVENTOR

Andrew J. Cochran,
C. Bradford

(No Model.)

E. G. GODDARD.
ADJUSTABLE ROTARY SULKY PLOW.

No. 266,689.

Patented Oct. 31, 1882.

Attest:
A. B. Smith
N. J. Taylor

Inventor:
E. G. Goddard
per H. J. Taylor

475

(No Model.)

J. B. HUED.
REVOLVING PLOW.

No. 266,824.

Patented Oct. 31, 1882.

WITNESSES:

Sam. Reed
A. B. Smith

INVENTOR:

J. B. Hued
BY Minn. H.
ATTORNEYS

(No Model.)

L. STEBBINS.
CULTIVATING MACHINE.

No. 269,339.

2 Sheets—Sheet 1
Patented Dec. 19, 1882.

Witnesses
E. B. Smith
Wm. H. K. K. K.

Inventor:
L. Stebbins
by O. B. K. K.

(No Model.)

3 Sheets—Sheet 7

L. STEBBINS.
CULTIVATING MACHINE.

No. 269,339.

Patented Dec. 19, 1882.

Witnesses:
Samuel D. Dimock &
Wm. H. Horton.

Inventor:
Lucius Stebbins
by Theo. G. Peas,
Attorney.

(No Model.)

3 Sheets—Sh. of 3

L. STEBBINS.
CULTIVATING MACHINE.

No. 269,339.

Patented Dec. 19, 1882.

Witnesses:
Samuel D. Dimock &
Wm. H. Horton.

Inventor:
Lucius Stebbins
by Theo. G. Peas,
Attorney.

(No Model.)

2 Sheets—Sheet 1.

C. JOHNSTON.
ROTARY PLOW AND PULVERIZER.

No. 269,792.

Patented Dec. 26, 1882.

Attest:
Charles Peck
Per Wright.

Inventor:
Columbus Johnston
By Wright & Peck
Atty.

(No Model.)

2 Sheets—Sheet 2

C. JOHNSTON.
ROTARY PLOW AND PULVERIZER.

No. 269,792.

Patented Dec. 26, 1882.

Attest:
Walter Allen
William S. Chapel

Inventor:
Columbus Johnston
By Wright & Peck
Atty.

SHOVEL.

	Plate	Claim		Plate	Claim		Plate	Claim
Adams, J.	839	538	Dennis, P.	841	538	Lee, E. D. and Z. W.	844	539
Agee, G. S.	905	560	" " (R)	841	538	Lee, Z. W. and E. D.	850	541
Allen, T. M.	880	551	Dennis, P.	856	543	Love, W. W.	867	547
Andrews, T. G. and Rievriere, A.	877	550	Dickerson, W. and Strain, W. H.	896	557	Luce, W. H.	857	543
Ansley, C. C.	868	547	Dormon, J. M.	900	558	Lyons, J. B.	868	548
Archer, J.	871	548	Doty, W. H. H.	873	549	McConaughy, T.	841	538
Arrington, W. J.	866	547	Dow, T. H. C.	886	553	McCullers, M. C.	847	540
Bader, J. Sr.	864	546	Eby, J. M.	850	544	McCullers, M. C.	850	541
Bagnall, W.	878	551	Eppes, A. F.	869	548	McDaniel, G. W.	897	557
Banks, J.	840	538	Evans, J. D.	861	545	McNair, T. F.	896	557
Banks, R. W.	881	552	Evans, W. B.	864	546	McNair, T. F.	904	560
Barber, E.	892	555	Farquhar, A. B.	887	554	Maloy, D. H.	853	542
Bass, E.	852	541	Farrell, J. O.	894	556	Mann, A. S.	877	550
Bassett, J. M.	890	554	Feldmann, J. H.	906	561	Manning, A. L.	897	557
Bassett, J. M.	893	556	Ferguson, D. P.	888	554	March, S.	858	544
Baughn, S. C.	875	550	Ferguson, J. C.	889	554	Marshall, H.	863	546
Beard, M. M. and Purcell, G. W.	888	554	Ford, I. M.	880	551	Martin, J. M. Jr.	897	558
Beard, M. M.	905	561	Foreman, J. H.	836	537	Mell, J. B.	898	558
Beebe, H. C.	898	558	Fort, M.	869	548	Mims, M. and S. J.	835	537
Beets, D.	908	562	French, E. D.	887	554	Mitchell, J. J.	877	550
Benedict, I. A.	879	551	Gaines, C.	879	551	Moon, W. S.	890	555
Bennett, H. R. and D. E.	900	558	Gammill, G. W.	899	558	Moore, E.	844	539
Best, R. J.	907	562	Gandy, O. S.	892	555	Moore, A. N.	862	545
Betts, R. L. and A. C.	855	543	Garlington, T. C.	839	538	Moore, T. M.	886	553
Biggs, R. W.	859	544	Gasling, R. J.	831	537	Moore, T. M.	893	555
Billups, C.	873	549	Giger, B.	836	537	Mosher, I. and Eddy, W.	854	542
Billups, C.	874	549	Gilbert, D.	860	545	" " (R)	855	542
Billups, C.	876	550	Gilbert, J. R.	868	547	Moss, C. L.	906	561
Binder, A.	882	552	Gilbert, I. R.	903	559	Newsom, A.	890	555
Black, G.	887	553	Gilleland, J. H.	894	556	Newsom, A.	897	557
Blanchard, W. R.	870	548	Glenn, N. Z.	873	541	Newsom, I. V.	904	560
Blanchard, T. A.	889	554	Glover, J. R.	882	552	Noftz, C. F.	860	546
Blount, J. G. and Haiman, E.	883	552	Goddin, N. A. H.	852	542	Nolte, H.	867	547
Bond, J. P.	850	541	Golden, T. E.	905	651	O'Bryan, C. and Kreps, H.	854	542
Boone, P.	894	556	Goodall, J. W.	868	547	" " " (R)	854	542
Borum, S. R. and McClean, W.	840	538	Gooch, B.	857	544	O'Neill, W.	844	539
Bowlds, F. H.	872	548	Gorham, J.	840	538	O'Neill, W.	866	547
Bowling, J. S. and R.	889	554	Gorham, J.	845	539	Orrick, N. C.	898	558
Boyle, T. W.	891	555	Griffies, W. J.	845	539	Paget, W. C.	838	537
Bradford, W.	882	552	Griffin, W.	850	541	Paget, W. F.	837	537
Brelsford, M. C.	855	543	Guthrie, L.	867	547	Palamountain, I. B.	844	539
Brinly, T. E. C.	865	547	Haessel, J.	864	546	Parish, G. W.	886	553
Brooks, R. H.	846	540	Hall, J. S.	837	537	Parker, W. F.	872	549
Burgess, W. D. and Zeigler, G. W.	863	546	Hall, J. S.	837	537	Pattillo, R. M.	878	551
Burke, J. M.	843	639	Hall, J. M.	842	539	Peek, S. T.	845	539
Caldwell, J. R. and Herren, J. W.	889	554	Hancock, M. T.	905	560	Peel, L. G.	895	549
Call, M.	883	552	Hanes, J.	856	543	Perry, S.	857	543
Camp, E. J.	891	555	Harig, J. H.	902	559	Pet Jean, F. J.	880	551
Carnes, S.	892	555	Harmon, W. R.	860	545	Phillips, O. F.	880	551
Carson, A.	859	544	Harris, J. P.	842	539	Piland, A. H.	884	552
Caro, W. W.	874	549	Hearst, A.	895	557	Pitts, J. M.	902	559
Clark, E. B.	816	240	Hill, D. H.	856	547	Poole, W. R.	867	547
Clark, J. M.	800	544	Hood, B. R.	845	539	Pool, W. R.	884	552
Clark, T. J. and G. M.	876	550	Howell, W. T.	862	545	Pope, S. W.	872	548
Cobb, J. M.	876	550	Hubbard, D. C.	842	539	Porter, R. D.	874	549
Conner, L. H.	901	559	Huggins, J. S.	848	540	Prentiss, M.	861	545
Cooper, G. W.	838	539	Ihringer, A.	881	552	Preston, J.	877	550
Cooper, G. W.	853	542	James, S. T.	895	558	Preston, J.	848	554
Cooper, I.	854	542	Jarrard, D. H.	884	553	Price, W.	835	537
Cooper, M.	903	560	Jennings, W. A.	883	552	Price, J. A.	865	553
" " (R)	903	560	Jester, A. E.	884	553	Rabli, W. S.	895	547
Cox, A. G. and Johnson, R. A.	906	561	Johnson, W. H.	846	540	Ramage, J. O.	841	538
Crook, C. T. and Hoffman, L. J.	898	558	" " (A. I.)	847	540	Reid, W. G.	895	556
Crossley, C. M.	895	556	Johnson, W. and Ranney, M.	876	550	Reynolds, F. F.	858	544
Culver, D.	872	549	Johnson, W. O.	907	561	" " (R)	858	544
Davis, F.	846	540	Jones, T. F.	870	548	Rhodes, M. G. and Skogg, J. M.	848	541
Davis, L. H. and Aycock, I.	885	553	Jordan, W. T.	873	549	Rich, J. and M.	890	554
Davis, V. R.	895	557	Keeler, G. W.	863	546	Richards, W.	902	559
De Long, G. A.	891	555	Kennedy, M.	856	543	Richardson, F. E.	837	537
De Long, G. A.	899	558	Kersh, F. E.	887	553	Richardson, D. C.	861	545
			King, R. J.	836	537	Richter, C. F.	849	540
			King, S. B.	871	548	Rickard, A.	875	541
			Kirksey, J. K.	894	556	Ridley, H. A.	901	559
			Lane, J.	904	560	Riley, S.	866	547
			Lane, J.	904	560	Rivers, A. W. L.	851	541
			Laugdon, B.	835	537	Riviere, A.	878	551
			Lawrie, J.	906	561	Robertson, T. A.	840	538
						Roden, A.	871	551

SHOVEL.

	<i>Plate Claim</i>			<i>Plate Claim</i>			<i>Plate Claim</i>	
Rodgers, N.	852	541	Snyder, C.	870	548	Welborn, W. J. N.	907	561
Roney, G. W.	845	540	Snyder, A.	871	548	Wells, M. D.	835	537
Ross, P. A.	862	545	Stanger, M. E.	861	545	White, L. B.	875	549
Sanford, O. P.	382	552	Startzman, W. H.	860	545	Whitehurst, R. W.	900	558
Saunders, W. R.	847	540	Steen, C.	857	544	Whitley, S.	852	542
Saunders, T.	858	544	Stephens, H.	859	544	Whittemore, H. B.	881	552
Saunders, I. J.	892	555	Stewart, U. T.	865	546	Wiggins, G. W.	896	557
Schlessman, M.	885	553	Talley, R. J.	896	557	Williams, J. M.	849	541
Schultz, A.	886	553	Terrel, T.	856	543	Williams, R. S.	849	541
Sewell, J.	883	552	Thompson, J. T.	849	541	Williamson, J. C.	875	550
Shalters, M. R. and Ray.			Towers, W. W.	885	553	Williamson, J. C.	842	538
S.	862	546	Towers, W., Mc. G. and			Willson, J. S.	848	540
Shipp, W. T., Peterson, C.			Sullivan, A. R.	903	559	Wilson, W. H.	843	539
J. and McLurd, R. L.	879	551	Turner, W. W.	899	558	Wilson, J. F. and R. I.	888	554
Shiver, C. J.	848	540	Utley, G.	853	542	Wixson, R.	893	556
Singer, J.	871	548	Wainwright, T. A.	863	546	Wooldbridge, S. H.	855	543
Singleton, D. T.	869	548	Walton, E. W.	869	548	Workman, R. W.	893	556
Smith, A.	843	539	Ward, T.	901	559	Wormell, W. E.	751	541
Smith, D. W.	853	542	Warlick, N.	838	538	Yost, G. W. N.	851	541
Snead, C. W.	870	548	Washburn, A. W.	839	538	Zollickooper, W. T.	851	541
Snodgrass, F. B.	901	559	Watson, W.	847	540			

*M. S. Myers.**Shovel Plow.**No. 2,899.**Patented Dec. 23, 1841.**Fig 2* *Fig 1**Fig 3**Fig 7* *Fig 8* *Lucas & Co.**Manufacturers of New York**B. Langdon.**Plow,**No. 2,689, Patented June 21, 1842* *Witnesses.**John B. Langdon**A. H. Haywood**Inventor**B. Langdon**W. C. Pagett.**Shovel Plow.**No. 2,818.**Patented Dec. 17, 1842.* *M. D. Wells.**Shovel Plow.**No. 4,500.**Patented May 9, 1846.*

R. J. Garing
Shovel Plow

No 6,180.

Patented May 29, 1867.

R. J. King
Plow

No 7,141.

Patented Mar 5, 1856

B. Ciger
Coast Plow

No 8,170.

Patented Dec 24, 1851

J. H. Forman
Plow

No 8,721.

Patented Feb 10, 1851.

Witnesses,

John Smith
John Jones

Inventor,
J. H. Forman

W. F. Pagell.

Shovel-Flow

N^o 8842.

Patented Mar 30, 1862.

F. E. Finkbeiner.

Shovel-Flow

N^o 9433.

Fig 4

Patented Nov 30, 1862.

J. S. Hall.

Shovel-Flow

N^o 9605

Patented Feb 7, 1864.

Witness.
W. S. Hall.
R. H. Hall.

Inventor.

J. S. Hall

J. S. Hall.

Shovel-Flow

N^o 9466.

Patented Jan 1, 1864.

W. Price,
Shovel Flow.

No. 11,616.

Patented Aug. 29, 1884.

J. J. Mendenhall,
Shovel Flow.

No. 12,650.

Patented Apr. 3, 1886.

G. W. Cuyler,
Shovel Flow.

No. 14,013.

Patented Jan. 1, 1886.

J. B. Mell,
Shovel Flow.

No. 14,288.

Patented Feb. 19, 1886.

J. Gorham.
Shovel-Flow

N^o 7,212.

Patented May 6, 1867.

T. A. Robertson.
Shovel-Flow

N^o 8,520.

Patented Oct. 27, 1867.

J. Bank.
Shovel-Flow

N^o 8,726.

Patented Dec. 1, 1867.

Brown & McClean.

Shovel-Flow

N^o 9,125.

Patented Jan. 19, 1868.

*J. O. Ramage.**Shovel-Plow**N^o 19,262.**Patented Feb. 2, 1868.* *P. DENNIS**Shovel-Plow**No. 19,412**Patented Feb. 23, 1868* *P. Dennis.**Plow.**N^o 1,515.**Reissued Aug. 4, 1863.* *I. Mc Donough.**Plow**N^o 1,400**Patented Mar. 23, 1859*

*J. C. Wilkinson,**Shovel, Flw.**No. 19,886.**Patented Apr. 6, 1858.* *J. M. Hall,**Flw.**No. 20,269.**Patented May 18, 1858.*

Witnesses
 C. W. Brown
 J. M. Hall

Inventor
 J. M. Hall

*J. P. Harris,**Shovel, Flw.**No. 20,790.**Patented Oct. 6, 1858.* *D. C. Hubbard,**Shovel, Flw.**No. 20,798.**Patented Oct. 6, 1858.*

Witnesses
 J. M. Brown
 D. C. Hubbard

Inventor
 D. C. Hubbard

A. Smith.

Shovel: Plow

N^o 20,823.

Patented Jul 6, 1858

Witnesses
C. B. Furber
C. H. Johnson.

Inventor
A. Henry Smith

J. M. Burke.

Shovel: Plow

N^o 22,013.

Patented Nov 9, 1858

W. J. Griffiths

Plow: Stock

N^o 20,369

Patented Mar 29, 1859

Witnesses
C. B. Furber
C. H. Johnson.

Inventor
W. J. Griffiths

W. H. WILSON.

Plow.

Vo. 23,636.

Patented Apr. 12, 1859.

Witnesses

Robert Ballantyne
W. H. Wilson

Inventor

W. H. Wilson

E. R. Hood.

Plow

N^o 26,738.

Patented Oct 11, 1869.

S. T. Peck.

Shovel Plow

N^o 26,289.

Patented Nov 29, 1869.

J. Corliam.

Shovel Plow

N^o 26,349.

Patented Dec 6, 1869.

G. W. Roney.

Shovel Plow

N^o 26,620.

Patented Dec 27, 1869.

J. DAVIS.

Shovel Plow

No. 27,060

Patented Jan. 3, 1867.

Witnesses
J. H. Davis
J. H. Davis

Inventor
J. H. Davis
J. H. Davis

R. H. Brooks

Shovel Plow

No. 27,099

Patented Feb. 19, 1867

Witnesses
J. H. Brooks
J. H. Brooks

Inventor
R. H. Brooks

E. B. Clark,

Shovel Plow.

No. 27,109.

Patented Feb. 14, 1867.

Witnesses
R. C. Mayhew
James P. Kent

Inventor
Elijah B. Clark

W. H. Johnson

Shovel Plow

No. 27,188.

Patented Feb. 14, 1867.

Witnesses
H. T. Simmons
E. L. Hamilton

Inventor
W. H. Johnson

W. H. Johnson.

Shovel Flap

No. 2299

Patented Oct. 2, 1860.

Witnesses

R. B. Lloyd
G. W. Conant

Inventor

William H. Johnson
By J. W. Conant

W. H. Johnson.

Shovel Flap

No. 27,490

Patented Mar. 2, 1860.

Witnesses

Inventor
William H. Johnson
By J. W. Conant

M. R. Saunders

Shovel Flap

No. 27,651

Patented Mar. 27, 1860.

Witnesses

Robert Harris
J. W. W. Patterson

Inventor

William R. Saunders

M. C. McCallers,

Shovel Flap

No. 28,000

Patented Apr. 24, 1860.

Witnesses

J. W. Conant
J. W. Conant

Inventor

William C. McCallers
By J. W. Conant

J. S. WILLSON.
Shovel Plow.

No. 28,227.

Patented May 8, 1860.

Witnesses
J. C. Baker
J. H. Huxley

Inventor
J. S. Willson
per J. H. Huxley

J. S. Huggins
Shovel Plow

N° 28,272

Patented May 22, 1860

Witnesses
H. C. Huggins
J. S. Huggins

Inventor
J. S. Huggins
per J. S. Huggins

Rhodes & Stagers
Shovel Plow

N° 28,408.

Patented May 22, 1860.

Witnesses
J. C. Combs
R. S. Spencer

Inventors
M. S. Rhodes
F. M. Stagers
per M. S. Rhodes

C. I. Shire
Shovel Plow

N° 28,416.

Patented May 22, 1860.

Witnesses
J. C. Shire
J. C. Shire

Inventor
C. I. Shire
per J. C. Shire

*G. F. Kitcher.**Shovel Pawl.**No. 28605.**Patented June 5, 1860.*

Witnesses
E. Schenck
J. H. Kitcher

G. F. Kitcher
Inventor
Wm. Simpson

*J. T. Thompson.**Shovel Pawl.**No. 28,919.**Patented Jan. 26, 1860.*

Witnesses
E. Schenck
J. H. Kitcher

Inventor
J. T. Thompson
Wm. Simpson

*J. M. Williams.**Cultivator**No. 28,929.**Patented June 26, 1860.*

Inventor
J. M. Williams
Witnesses
Wm. M. Williams
Wm. M. Williams

*R. S. Williams.**Shovel Pawl.**No. 28,930.**Patented Jan. 26, 1860.*

Witnesses
E. Schenck
J. H. Kitcher

Inventor
R. S. Williams
Wm. M. Williams
Wm. M. Williams

*W. Griffin.**Shovel Plow**N^o 28,981.**Patented Jul. 3, 1860.*

Witnesses

E. Cohen
S. Knoch

Inventor

William Griffin
by atty
J. B. Stoughton

*M. C. McCallers.**Shovel Plow**N^o 29,184.**Patented Jul. 7, 1860.*

Witnesses,
E. Cohen
S. Knoch

Inventor

Mathias C. McCallers
by atty *J. B. Stoughton*

*E. W. & E. D. Lee**Cultivator**N^o 29,389.**Patented Jul. 31, 1860.*

Witnesses
E. Cohen
S. Knoch

Inventors
E. W. Lee
E. D. Lee
by atty
J. B. Stoughton

*J. P. Bond.**Shovel Plow**N^o 29,664.**Patented Aug. 14, 1860.*

Witnesses
J. B. Stoughton
A. S. Jones

Inventor

J. P. Bond
per *Wm. C. Bond*

W. E. Norman.

Shovel Plow

N^o 22,984.

Patented Aug 28, 1860.

Fig. 1.

Fig. 3;

Fig. 2.

Witnesses,
Wm. Hughes
Chas. W. Hughes

Inventor,
W. E. Norman

G. W. N. Yess.

Shovel Plow

N^o 22,934.

Patented Sep 4, 1860.

Witnesses,
Chas. B. Smith
Jas. C. Clayton

Inventor,
G. W. N. Yess.
By J. J. Clayton

M. T. Lolliehoff.

Shovel Plow

N^o 30,100

Patented Sept 25, 1860

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses,
Wm. L. Lolliehoff
R. S. Spencer

Inventor,
M. T. Lolliehoff
By Munn & Co
Attorneys

A. M. L. Rivers

Shovel Plow

N^o 30,762.

Patented Nov 27, 1860

Witnesses,
B. K. Strother
H. A. Steele

Inventor,
A. M. L. Rivers
By H. A. Steele

*N. Rodgers.**Shovel-Pick.**N^o 30,765.**Patented Nov 27, 1860.*

Witnesses
Charles B. French.
W. C. Clayton

Inventor,
Nath. Rodgers
J. G. Clayton
Att'y.

*E. Bass.**Shovel-Pick.**N^o 30,793.**Patented Dec. 1, 1860.*

Witnesses
Frederick
W. C. Clayton

Inventor
Edw. Bass
J. G. Clayton
Att'y.

*N. A. H. Goddard.**Convertible Plow and Cotton Cultivator.**N^o 30,810.**Patented Dec. 4, 1860.*

Inventor,
N. A. H. Goddard
W. C. Clayton
Att'y.

*S. Whitey.**Shovel-Pick.**N^o 30,849.**Patented Dec. 1, 1860.*

Witnesses
Frederick
W. C. Clayton

Inventor
S. Whitey
W. C. Clayton
Att'y.

G. Ulley.
Shovel. Plow.

N^o 415.
31,419.

Patented Feb 12, 1861.

J. H. Marcy.
Shovel. Plow.

N^o 446.
31,518.

Patented Feb 26, 1861.

Witnesses.
E. P. Smith
S. Tyburski

Inventor
J. H. Marcy
by Geo. C. Cady
J. Genthgate Smith

D. W. Smith.
Shovel. Plow.

N^o 416.
31,419.

Patented Mar 19, 1861.

C. M. Cooper.
Shovel. Plow.

N^o 448.
32,052.

Patented Mar 19, 1861.

Witnesses
J. S. Gandy
R. S. Spencer

Inventor
C. M. Cooper
per J. S. Gandy
R. S. Spencer

*I. Cooper.**Shovel Plow.*N^o 1,272
32,276

Patented May 14, 1861.

Witnesses

W. H. Burdette
Robert BragdonInventor
J. M. Cooper*O. Bryan & Sons**Shovel Plow*N^o 2,112
33,090

Patented Aug. 20, 1861.

Witnesses

H. C. Brown
A. T. FitchInventor.
O. Bryan & Sons
by H. M. C.*O. Bryan & Sons,**Shovel Plow.*

No. 3077

Patented Aug. 11, 1863.

*Mosher & Faddy**Shovel Plow*N^o 39,050

Patented Mar. 31, 1863.

Witnesses

C. R. Jones
Maurice PerotomInventor.
Israel Mosher
Walter Eddy

Mosher & Eddy
Shovel Plow

N^o 93545.

Reissued July 6, 1869.

M. C. Brasford
Shovel Plow

N^o 21066.

Patented Jan. 6, 1864.

R. L. & A. C. Belts
Shovel Plow

N^o 48,913.

Patented May 17, 1864.

S. H. Woodbridge
Shovel Plow

N^o 46666.

Patented Dec. 27, 1864.

No. 45,995.

Page
110.

Fixed Jan. 24. 1865.

WITNESSES:
[Signature]
 J. M. Court

INVENTION

*John H. Hays
by G. D. Wood
New York.*

T. F. F. F.

Shree' Plot

N^o 54,623.

Patented May 8, 1866.

Inventor

Witnesses
J. B. Blom
C. L. Popoff

J^r Virel
 Per Munnell
 Attorney

M. Kennedy

Plow.

N^o 55,312.

Patented Jun. 5, 1860.

McMeara.
W. H. Hall
J. C. Emerson

Member

By *H. Kennerly*
Attorney

P. Dennis.

Shovel Plant.

N^o 66,630.

Patented Jun. 19, 1866.

Witnesses;
Wm. Brown
Flw. Lusk

Inventor;
P. Dennis
Byllum & Co
Atty

S. Ferry.
Shovel Plow.

No. 56347.

Patented July 10, 1866.

Witnesses
H. Brown
Geo. Busch

Inventor
Saml. Ferry
By *[Signature]*

W. H. Luce.
Shovel Plow.

No. 58112.

Patented Sept. 1866.

Witnesses
D. J. Jackson
Ch. Brown

Inventor
W. H. Luce
By *[Signature]*
Attorney

C. Stern.
Shovel Plow.

No. 58,500.

Patented Oct. 2, 1866.

Witnesses
Henry T. Brown
Thos. J. Miles

Inventor
Christian Stern

E. GOODRICH
Plow

No. 60,716.

Patented Jan. 1, 1867

Witnesses
Geo. B. Andrews
Samuel B. Fisher

Inventor
E. Goodrich
By *[Signature]*
Attorney

F. F. REYNOLDS.
Shovel Plow.

No. 60,938.

Patented Jan. 1, 1867.

Witnesses:

A. Moore
E. C. Wilson

Inventor.

F. F. Reynolds
By *H. H. Boyer*
Attorney

F. F. Reynolds,
Plow

No. 3708.

Patented Nov. 2, 1869.

Witnesses:

L. A. Pettit
A. H. Sumner

Inventor.

Reynolds and Giner
by *Reynolds & Co.*
attorneys

T. SAUNDERS.
Shovel Plow.

No. 62,228.

Patented Feb. 19, 1867.

Fig. 2

Fig. 1

Witnesses:

Theo. Tusch
J. A. Service

Inventor.

Turner Saunders
By *M. M. Munn*
Attorneys

No. 63,276.

S. March,
Impr'd Plow.

Patented Mar. 26, 1867.

Fig. 3

Fig. 1

Witnesses:

W. H. H. H.
W. H. H.

Inventor:

S. March

J. M. EBY
Shovel-Plow.

No. 63,711

Patented Apr. 9, 1867.

Witnesses
J. H. Knapp
J. A. Smith

Inventor
J. M. Eby
per
Munroe &
Ellis

H. STEPHENS.
Shovel-Plow.

No. 64,592.

Patented May 7, 1867.

Witnesses:
A. M. Mann
V. D. Stockbridge

Inventor.
per H. Stephens
Alexander & Wilson
Atty.

A. CARSON.
Shovel-Plow

No. 61,747

Patented May 14, 1867

Witnesses:
J. A. Carter
G. B. Townsend

Inventor.
Andrew Carson

R. W. BIGGS.
Shovel-Plow

No. 65,050.

Patented May 28, 1867

Witnesses:
J. R. Young
G. B. Towns.

Inventor.
R. W. Biggs
per David A. Burr,
Atty.

J. M. CLARK.

Shovel-Plow.

No. 65,725

Patented June 11, 1867.

Witnesses:

H. P. A. Beck
J. G. Clark

Inventor.

John M. Clark
by his atty
H. P. A. Beck

D. GILBERT

Shovel-Plow.

No. 66,144.

Patented June 25, 1867.

Witnesses

Pho Snocke
J. A. Davis

Inventor

Daniel Gilbert
Per Munnell
Attorney

W. E. Startzman.

Shovel-Plow.

No. 68,393.

Patented Sept. 3, 1867.

Witnesses:

W. E. Startzman
Per

Inventor.

Wm. E. Startzman
per
Alexander Mason
Attorney

W. R. Harman

Shovel-Plow

No. 68,982.

Patented Sept. 17, 1867.

Witnesses

John S. Gilbert
Per

Inventor

Wm. R. Harman
per
John S. Gilbert
Attorney

*J. D. Evans.**Plow**No. 69,083.**Patented Sept. 24, 1867.* *M. E. STANGER.**Shovel Plow.**No. 69,137.**Patented Sept. 24, 1867.* *M. Prentiss.**Shovel Plow.**No. 69,478.**Patented Oct. 1, 1867.* *D. C. RICHARDSON.**Shovel Plow.**No. 70,120.**Patented Oct. 22, 1867*

72085

P. Atkinson Ross's Imp^t in Shovel Plows Cultivators etc.

PATENTED
DEC 10 1867

Fig. 1.

Witnesses.
Thos Snodgrass
W. Brown

Inventor.
P. A. Ross
Per Munnell

A. N. Moore. Cultivator.

72880

PATENTED
DEC 31 1867

Fig. 1.

Witnesses.
Thos Snodgrass
W. Brown

Inventor.
A. N. Moore
Per Munnell

W. T. Howell's Plow.
73606

PATENTED
JAN 21 1868

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses.
W. C. Hoyle
Thos Snodgrass

Inventor.
W. T. Howell
per Munnell
attorney

Shalters & Ray.
Double-Shovel Plow.
N^o 75988
Patented Mar. 24, 1868

Witnesses.
C. H. Ray
A. N. Moore

Inventor.
M. R. Shalters,
Saml. Ray
per
Alexander Watson

*H. Marshall.**Shovel Flow**Patented Jan 30, 1868**N^o 79,486.*

Witnesses

Leopold Buch
A. A. Fecterman.

Inventor

Samuel Marshall
per Alexander Hudson

*Burgess & Ziegler.**Shovel Flow**Patented Jan 7, 1868**N^o 79,547*

Witnesses

Wm. H. H. H.
R. H. H.

Inventors

Burgess & Ziegler
per J. H. H.

*T. A. Mainwright,**Shovel Flow.**Patented July 7, 1868.**No. 79,706.*

Witnesses

Wm. H. H.
See H. H.

Inventor

Thomas A. Mainwright
per J. B. Mainwright

*G. W. Heeler.**Shovel Flow.**Patented Oct. 13, 1868.**N^o 82,959.*

Witnesses

J. H. H.
E. H. H.

Inventor

G. W. Heeler

*J. Haassal.**Shovel Plow.**N^o 83,154.**Patented Oct. 20, 1868.*

Fig. 2.

Fig. 3.

Witnesses

*Robert Burns**H. Parley*

Inventor:

*J. Haassal by his atty,
W. R. de G. de G.**W. B. Evans.**Shovel Plow.**N^o 83,481.**Patented Oct. 27, 1868.*

Witnesses;

*H. S. Felt
George W. Bennett*

Inventor;

*W. B. Evans**C. F. NOFTZ.**Shovel Plow.**No. 83,992.**Patented Nov. 10, 1868.*

Fig. 2.

Witnesses

*Hor. A. Morgan
Philip C. Distenbach*

Inventor

*C. F. Nofitz
for Munn & Co
Attys**J. Baden, Sr.**Plow**N^o 86,896.**Patented Feb. 16, 1869.*

Fig. 2.

Fig. 3.

Witnesses;

*J. H. Burridge
Frank S. Alden*

Inventor

J. Baden

L. G. Felt.

Plow.

No. 87,302.

Patented Mar. 2, 1869.

Fig 1

Fig 2

Witnesses:
L. G. Felt
Cornelius Cox.

Inventor:
Landon G. Felt
per Attorney M. A. Allen
Atty.

U. T. Stewart.

Plow.

No. 86,344.

Patented Mar. 30, 1868.

Witnesses:
John L. D. Brown
J. T. D. W.

Inventor:
U. T. Stewart

W. S. Rabb.

Plow.

No. 89,212.

Patented Apr. 20, 1869.

Fig 1

Fig 2

Witnesses:
W. S. Rabb
J. H. Deale

Inventor:
W. S. Rabb
per Attorney J. H. Deale
Atty.

T. E. C. Brown.

Plow.

No. 90,232.

Patented May 18, 1869.

Fig 1

Fig 2

Fig 3

Fig 4

Fig 5

Fig 6

Witnesses:
A. R. Rabb
C. H. Deale

Inventor:
T. E. C. Brown
per Attorney J. H. Deale
Atty.

W. O. Hall,

Plow.

No. 9,157.

Patented June 8 1869.

Witnesses:
J. H. Hall
A. W. Tomlinson

William O. Hall
J. H. Hall
J. H. Hall

S. Riley,

Shovel Plow.

No. 9,164.

Patented June 8 1869.

Witnesses:
William Riley
Samuel Wright

Inventor:
S. Riley
By Samuel Wright

D. H. Hall,

Plow.

No. 9,631.

Patented Jan. 22, 1869.

Witnesses:
J. H. Hall
A. W. Tomlinson

Inventor:
D. H. Hall
By Samuel Wright

W. J. Arrington,

Plow.

No. 9,143.

Patented Jan. 10 1869.

Witnesses:
J. H. Hall
A. W. Tomlinson

Inventor:
W. J. Arrington

L. Gutter.

Plow

No. 4,489.

Patented Sep. 7, 1869.

Witnesses:
Chas. Grant;
W. J. Dennis

Inventor
Louis Gutter.

H. Nolte.

Plow

No. 4,634.

Patented Sept. 7, 1869.

Witnesses
John H. Davis;
E. Green

Inventor
H. Nolte.

M. H. Love.

Shovel Plow.

No. 9608.

Patented Oct. 12, 1869.

Fig. 1

Fig. 2

Witnesses
W. J. Dennis;
W. J. Dennis

Inventor
M. H. Love.

M. J. F.

No. 9604.

Patented Oct. 12, 1869.

Witnesses
W. J. Dennis;
W. J. Dennis

Inventor
M. J. F.

C. O. Ashley,

Flour.

No. 97,337.

Patented Nov. 30, 1869.

Fig. 2.

Witnesses:

*J. M. Haff
J. H. Haff*

Inventor:

*C. O. Ashley
Per Wm. C.*

J. K. Gilbert,

Shovel Flour.

No. 97,338.

Patented Nov. 30, 1869.

Fig. 2.

Witnesses:

*J. H. Haff
C. L. Haff*

Inventor:

*J. K. Gilbert
Per Alexander H. Haff*

Attest.

J. M. Gardall,

Shovel Flour.

No. 98,159.

Patented Dec. 21, 1869.

Fig. 2.

Witnesses:

*J. H. Haff
C. J. Haff*

Inventor:

*J. M. Gardall
Per J. H. Haff*

J. B. Lyons,

Shovel Flour.

No. 100,165.

Patented Feb. 22, 1870.

Witnesses:

*J. H. Haff
Chas. H. Haff*

Inventor:

J. B. Lyons

M. Fort,

Shovel Flour

16. 1007/43.

Entered Mar. 15. 1870.

Witnesses

Solon Keen
Chas A Pettit

Monarda Fort
Inventor
by Geo. E. Brown
Atty

J. H. Singleton,

Signe/ Faint

No. 10,056.

Friday Mar. 22. 1879.

References:

J. W. Muir
Brook

Advertiser:

Director:
G. S. Huntington
Per Mumford

A. F. Ennes,

Shovel Flies.

No 12780.

Patented May 10. 1870.

Witnesses:

to H. Gordon
B. A. Pettit

Inventory:

A. J. Eppes
per Kenna & Co.
Attorneys.

E. W. Walton.

Cultivator.

No. 125,529.

Patented July 19, 1870.

Wiederhol.

E. H. Syon
Horn. Dellach

Inventor.

Elisha W. Walton

W. K. Blanchard,
Shovel Plow.

No. 105,893.

Patented Aug. 2, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
Almon W. Smith
Eugene Tate

Inventor:
W. K. Blanchard
Per *Wm. Co.*
Attorney.

C. Slaughter,
Plow.

No. 109,828.

Patented Feb. 27, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:
A. R. Smith
C. F. Lamm

Inventor:
C. Slaughter
Per *Robert Ross*
Attorney.

C. M. Sneed,
Shovel Plow.

No. 109,973.

Patented Oct. 4, 1870.

Fig. 1.

Fig. 2.

Witnesses:
W. H. Smith
W. H. Smith

Inventor:
Chas. M. Sneed
Per *Wm. Co.*
Attorney.

T. F. JONES.
Cultivator Plow.

No. 109,629.

Patented Nov. 29, 1870.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
Henry Kilgus
Conrad Mann

Inventor:
Thomas F. Jones
By *Atty. M. Slaughter*

A. SNYDER.
Shovel Plow.

No. 109,960.

Patented Dec. 6, 1870.

Witnesses
J. B. Baker
L. S. Baker

Inventor
A. Snyder
Per Munn & Co.
Attys.

Witnesses:
Henry C. Rogers
J. B. Baker

Inventor
James C. Rogers
Per Munn & Co.
Attys.

No. 11,391.

Patented Jan. 31, 1871.

Witnesses:
J. S. Mabe
Alex. F. Roberts

Inventor
J. Snyder
Per Munn & Co.
Attys.

No. 11,061.

Patented Feb. 7, 1871.

Witnesses:
Henry C. Rogers
J. B. Baker

Inventor
Samuel B. King
Per Munn & Co.
Attys.

T. H. Bowles,
Shovel Plow.

No. 112,212.

Patented Feb. 28, 1871.

Witnesses:
A. Russell,
C. F. Clausen

T. H. Bowles
Inventor.
D. R. McLaughlin & Co.
Attys

S. M. E.,
Shovel Plow.

No. 113,361.

Patented Apr. 4, 1871.

Witnesses:
A. M. & Co.
W. H. Fenn

Inventor
S. M. E.
H. W. Reader, atty.

WILLIAM F. PARKER.
Improvement in Plows.

No. 114,334.

Patented May 2, 1871.

Witnesses:
W. F. Parker
C. A. Russell

Inventor:
W. F. Parker
per *W. F. Parker*
Attorneys.

D. CULVER.
Improvement in Cultivator Plows.

No. 115,033.

Patented May 23, 1871.

Witnesses:
A. C. Culver
L. J. Baker

Inventor:
D. Culver
per *D. Culver*

W. THOMAS JORDAN. PLOW

No. 121,381.

Patented Nov. 28, 1871.

WITNESSES

S. L. Bennett
J. W. Allen

INVENTOR

W. Thomas Jordan
By C. H. Bennett
Att'y

N. R. H. Doty. Comb'd. Double-Shared, Single-Shared and Covering Plow.

No. 122,162

Patented Dec. 26, 1871.

Fig. 1.

Fig. 2.

Witnesses:

M. Vorländer
W. R. C. Smith

Inventor:

per N. R. H. Doty
Attorneys

N. Z. GLENN.

Improvement in Plows.

No. 122,885.

Patented Jan. 23, 1872.

Witnesses:

J. W. Long
Phil. S. Dodge

Nicholas Z. Glenn
by J. W. Long
Att'y

C. BILLUPS.

Improvement in Plows.

No. 123,858.

Patented Feb. 20, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:

J. W. Long
Phil. S. Dodge

Inventor:

per C. Billups
Attorneys

CEALY BILLUPS

Improvement in Cultivators.

No. 126,513

Patented May 7, 1872.

Fig. 1

Fig. 3.

Witnesses:

W. H. Hutton

Geo. D. Hutton

Inventor:

CEALY BILLUPS

Attorneys.

2 Sheets--Sheet 1.

W. W. CATO

Improvement in Cultivators

No. 128,360.

Patented June 25, 1872.

Fig. 1

Witnesses:

W. H. Hutton

Geo. D. Hutton

Inventor:

W. W. Cato

Geo. D. Hutton

Attorneys.

2 Sheets--Sheet 2.

W. W. CATO.

Improvement in Cultivators.

No. 128,360.

Patented June 25, 1872.

Fig. 1

Fig. 12

Fig. 11

Witnesses:

W. H. Hutton

Geo. D. Hutton

Inventor:

W. W. Cato

Geo. D. Hutton

Attorneys.

R. D. PORTER

Improvement in Plows.

No. 128,505.

Patented July 2, 1872

Fig. 1

Fig. 3

Fig. 2.

Fig. 4.

Witnesses:

W. H. Hutton

Geo. D. Hutton

Inventor:

R. D. Porter

Geo. D. Hutton

Attorneys.

A. RICKARD.

Improvement in Plows.

No. 129,057.

Patented July 16, 1872.

Witnesses:

John A. Rickard
W. C. Rickard

Inventor:

Alonzo Rickard
Per *Alonzo Rickard*
Attorneys.

L. B. WHITE.

Improvement in Plows.

No. 120,076.

Patented July 16, 1872.

Witnesses:

John A. Rickard
Alex. F. Roberts

Inventor:

L. B. White
Per *Murray & Co.*
Attorneys.

J. C. WILLIAMSON.

Improvement in Plows.

No. 129,196.

Patented July 16, 1872.

Witnesses:

A. Rickard
W. C. Rickard

Inventor:

John A. Rickard
Per *Alonzo Rickard*
Attorneys.

S. C. BAUGHN.

Improvement in Plows.

No. 133,187.

Patented Nov. 19, 1872.

Witnesses:

John A. Rickard
Phil. C. Rickard

Inventor:

S. C. Baughn
Per *Alonzo Rickard*
Attorneys.

C. BILLUPS.
Cultivators.

No. 135,070.

Patented Jan. 21, 1873.

Witnesses:
G. H. Manning
John H. Owen

Inventor:
C. Billups
Per
Attorneys.

T. J. CLARK & G. M. CLARK.
Plows.

No. 137,060

Patented March 25, 1873.

WITNESSES.

Witnesses:
John H. Owen

INVENTOR

T. J. Clark
G. M. Clark
Per
Attorneys.

J. M. COBB.
Plows.

No. 138,131.

Patented April 22, 1873.

Witnesses:
James M. Cobb
Per
Attorneys.

Inventor:
James M. Cobb
Per
Attorneys.

W. JOHNSON & M. RANNEY.
Shovel-Plows.

No. 138,656

Patented May 6, 1873.

Witnesses:
H. B. Foster
W. M. Beebe

Inventors
Wellington Johnson
Moses Ranney

J. PRESTON
Corn-Plows

No 138,818

Patented May 13, 1873

Witnesses:
W. H. Mott
G. H. Howard

Inventor:
John Preston
By H. H. Howard
Att'y

A. S. MANN.
Plows.

No. 140,716.

Patented July 8, 1873.

Witnesses:
of Robert
H. B. Mann

Inventor:
A. S. Mann

T. G. ANDREWS & A. RIVIERE.
Plows.

No. 141,533

Patented August 5, 1873.

Witnesses:
E. H. Mott
G. H. Howard

Inventor:
T. G. Andrews & A. Riviere
Per H. H. Howard
Attorneys.

J. J. MITCHELL.
Shovel-Plows.

No. 141,583.

Patented August 5, 1873

Witnesses:
E. H. Mott
G. H. Howard

Inventor:
John J. Mitchell
H. H. Howard & Co.
Att'y

2 Sheets--Sheet 1.

R. M. PATTILLO.
Reversible Plow-Points.

No. 142,864.

Patented September 16, 1873.

Witnesses:

H. C. Smith
Chapman

Inventor:

R. M. Pattillo
Per *M. M. Smith*
Attorneys.

2 Sheets--Sheet 2

R. M. PATTILLO.
Reversible Plow-Points

No. 142,864.

Patented September 16, 1873.

Witnesses:

R. M. Pattillo
H. C. Smith

Inventor:

R. M. Pattillo
Per *M. M. Smith*
Attorneys.

W. BAGNALL.
Cultivating Plows.

No. 144,247.

Patented Nov. 4, 1873.

Witnesses:

W. Bagnall
J. B. Smith

Inventor:

W. Bagnall
Per *M. M. Smith*
Attorneys.

A. BIVIERE.
Plows.

No. 144,477.

Patented Nov. 11, 1873.

Witnesses:

A. Biviere
Chapman

Inventor:

A. Biviere
Per *M. M. Smith*
Attorneys.

W. T. SHIPP, C. J. PETERSON, & R. L. McLURD.
Plows.

No. 144,707.

Patented Nov. 18, 1873.

Witnesses.

James L. ...
Colquhoun

Inventor.
W. T. Shipp
C. J. Peterson
R. L. McLurd
Per *Wm. L. ...*
Attorneys.

A. RODEN.
Cultivators.

No. 145,901.

Patented Dec. 23, 1873.

Witnesses.
Samuel L. ...
Henry ...

Inventor.
Alfred Roden
Samuel ...

I. A. BENEDICT.
Winged Plow.

No. 146,225.

Patented Jan. 6, 1874.

Witnesses.

Charles ...
Alfred F. Roberts

Inventor.
Isaac A. Benedict
Per *Wm. L. ...*
Attorneys.

C. BAINES.
Plows.

No. 146,524.

Patented Jan. 20, 1874.

Attest.
Wm. L. ...
Wm. L. ...

Inventor.
Coleman Baines
by *Wm. L. ...*
Wm. L. ...

I. M. FORD.
Plows.

No. 146,815

Patented Jan. 27, 1874.

WITNESSES:
Charles H. Hilditch
Edw. Hilditch

INVENTOR:
I. M. Ford
BY *Munn & Co.*
ATTORNEYS.

T. M. ALLEN.
Plows.

No. 149,088.

Patented March 31, 1874.

WITNESSES:
E. Wolff
Chas. Wolff

INVENTOR:
T. M. Allen
BY *Munn & Co.*
ATTORNEYS.

F. J. PETITJEAN.
Plows.

No. 149,518.

Patented April 7, 1874.

WITNESSES:
George E. Upmann
BY *George E. Upmann*

INVENTOR:
Francois J. Petitjean
BY *Chas. H. Hilditch*
ATTORNEYS.

D. F. PHILLIPS.
Shovel-Plow and Cultivator Points.

No. 152,510

Patented June 30, 1874.

Witnesses:
Benjamin B. Pile
J. B. Carney

Inventor:
David F. Phillips
BY *Wm. H. Hilditch*

R. W. BANKS.
Plows.

2 Sheets--Sheet 1.

Patented Aug. 25, 1874.

Witnesses:
C. McCallahan
O. Lawrence Poole

Inventor:
Robert W. Banks,
By his atty,
J. H. Brown.

R. W. BANKS.
Plows.

2 Sheets--Sheet 2.

Patented Aug. 25, 1874.

No. 154,315.

Witnesses:
C. McCallahan
O. Lawrence Poole

Inventor:
Robert W. Banks,
By his atty,
J. H. Brown.

H. B. WHITTEMORE.
Plows.

No. 156,396.

Patented Oct. 27, 1874.

Witnesses:
P. C. O'Neil
A. K. Kell

Inventor:
Herbert B. Whittemore

By O. H. Waterhouse
Attorney

A. IHRINGER.
Plows.

No. 157,006.

Patented Nov. 17, 1874.

Witnesses:
F. M. Hutton
John E. Brown

Inventor:
August Ihinger,
By Messrs. Hutton & Brown
Attorneys

J. R. GLOVER.
Shovel-Plows.

No 157,681.

Patented Dec. 15, 1874.

Witnesses:
Joseph W. M. Chase
Samuel A. Morrison

Inventor.

James R. Glover

W. BRADFORD.
Plow.

No. 160,385

Patented March 2, 1875.

WITNESSES

John A. Loring
J. H. Bradford

INVENTOR

William Bradford
By John A. Loring
J. H. Bradford

O. P. SANFORD.
Plow.

No 165,877.

Patented July 20, 1875

WITNESSES:

Chas. H. H. H.
A. F. H. H.

INVENTOR:

O. P. Sanford
By H. H. H.

A. BINDER.
Cora-Plows

No. 166,333.

Patented Aug. 3, 1875.

Witnesses:

Chas. H. H.
A. F. H.

Inventor:

A. Binder
By H. H. H.

M. CALL
Cotton-Sweep.

No. 167,494.

Patented Sept. 7, 1875

WITNESSES:
G. Matthews
John McKinnon

INVENTOR:
M. G. Hall
BY *[Signature]*
ATTORNEYS.

J. SEWELL.
PLOW

No. 171,435.

Patented Dec. 21, 1875.

H. HAYES
 Frank L. Bernard
 C. L. East by

INVENTOR
John Sewell.
Alexander D. Brown

W. A. JENNINGS.
 PLOW.

No. 173,014.

Patented Feb. 1, 1876

Fig. 5.

Fig. 2.

Fig. 4

Fig. 6.

Fig. 5

WITNESSES
Henry N. Miller By
C. L. Ewert

INVENTOR
Wm. A. Jennings.
Hudson & Thason
Attorneys.

J. G. BLOUNT & E. HAIMAN.
 FLOW-SHOULDER.

No. 174,185.

Patented Feb. 29, 1975

WITNESSES:
A. W. Mueggenst
Alex J. Roberts

INVENTORS.
J. A. Blount
E. Harman

A. H. PILAND.

FLOW.

No. 174,293.

Patented Feb. 29, 1876.

Fig. 2.

WITNESSES:
John C. Damon
Charles A. Pettit

INVENTOR:
A. H. Piland
BY [Signature]
ATTORNEYS.

W. R. POOL.

FLOW.

No. 174,295.

Patented Feb. 29, 1876.

Fig. 5.

Fig. 4.

Fig. 7.

Fig. 8.

Fig. 9.

WITNESSES:
Charles [Signature]
Alex L. Roberts

INVENTOR:
W. R. Pool
BY [Signature]
ATTORNEYS.

A. E. JESTER.

FLOW.

No. 176,138.

Patented April 19, 1876.

Fig. 3.

Fig. 2.

WITNESSES:
Frank L. Girard
C. L. East

INVENTOR:
A. E. Jester
BY [Signature]
ATTORNEYS.

D. H. JARRARD.

FLOW.

No. 177,520.

Patented May 16, 1876.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES:
W. H. Hargrave
John Gethals

INVENTOR:
D. H. Jarrard
BY [Signature]
ATTORNEYS.

W. M. TOWERS.
FLOW-FEET.

No. 178,815.

Patented June 13, 1876.

WITNESSES:
J. H. Matthews
John L. Young

INVENTOR:
W. M. Towers
By [Signature] Attorney

M. SCHLESSMAN.
SHOVEL-FLOW

No. 179,065.

Patented June 20, 1876.

WITNESSES:
Stanley Curand
C. H. Grant

INVENTOR:
M. Schlessman
By [Signature] Attorney

L. H. DAVIS & I. AYCOCK.
FLOW-STOCKS.

No. 180,556.

Patented Aug. 1, 1876

Fig. 3

WITNESSES:
C. H. Grant
John Matthews

INVENTOR:
L. H. Davis
I. Aycock
By [Signature] ATTORNEYS.

J. A. PRICE.
FLOW-STOCK

No. 181,102.

Patented Aug. 16, 1876.

WITNESSES:
Thomas W. Aycock
John Matthews

INVENTOR:
J. A. Price
By [Signature] ATTORNEYS.

A. SCHUETZ.

FLOW.

No. 182,862.

Patented Oct. 3, 1876.

Fig. 1

Fig. 2

WITNESSES:

James McDowell.
John Goodrich.

INVENTOR:

A. Schuetz
BY *Munn & Co.*

G. W. PARISH.

FLOW.

No. 184,657.

Patented Nov. 21, 1876.

Fig. 1

Fig. 2

WITNESSES:

James McDowell.
John Goodrich.

INVENTOR:

G. W. Parish
BY *Munn & Co.*
ATTORNEYS.

T. M. MOORE.

FLOW.

No. 186,601.

Patented Jan. 23, 1877.

Fig. 1

Fig. 2

Fig. 3

Witnesses:

Daniel Moore.
R. H. Moore.

INVENTOR:

T. M. Moore
BY *Munn & Co.*

T. H. C. DOW.

SHOVEL-FLOW.

No. 186,993

Patented Feb. 6, 1877.

Fig. 1

Fig. 2

WITNESSES:

James McDowell.
John Goodrich.

INVENTOR:

T. H. C. Dow
BY *Munn & Co.*

G. BLACK.
FLOW.

No 187,249.

Patented Feb. 13, 1877.

WITNESSES:

H. C. Foy
H. Scarborough

INVENTOR:

G. Black
BY *M. M. M. M.*
ATTORNEYS

T. E. KERSH.
FLOW.

No 187,763.

Patented Feb. 27, 1877.

WITNESSES:

W. H. Anderson
Long & Co.

INVENTOR:

Thomas E. Kersh
BY *James G. Grafton*
ATTORNEYS

E. D. FRENCH.
FLOW.

No 188,508.

Patented March 20, 1877.

WITNESSES:

John O. Kinnon
H. H. Hart

INVENTOR:

E. D. French
BY *James F. Co.*
ATTORNEYS

A. B. FARQUHAR.
FLOW.

No 188,732.

Patented March 27, 1877.

WITNESSES:

B. G. Pole
P. J. Simpson

INVENTOR:

Arthur B. Farquhar
BY *Robt. H. Lacey* att. in say

J. PRESTON.

PLOW

No. 189,136.

Patented April 3, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

H. Hyquist
J. H. Scarborough

INVENTOR:

J. Preston
BY *Mumf*
ATTORNEY

D. P. FERGUSON.

PLOW.

No. 189,443.

Patented April 10, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:

W. H. K. Smith
John H. K. Smith

INVENTOR:

D. P. Ferguson
BY *Smith & Co*
ATTORNEYS

J. F. & R. I. WILSON.

PLOW

No. 189,951.

Patented April 24, 1877.

Fig. 1.

Fig. 2.

WITNESSES:

H. Hyquist
J. H. Scarborough

INVENTOR:

J. F. & R. I. Wilson
BY *Mumf*
ATTORNEYS

M. M. BEARD & G. W. PURCELL.

PLOW.

No. 190,538.

Patented May 6, 1877.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Attest:

C. Adams
John P. Brooks

INVENTORS:

Matthew M. Beard
George W. Purcell
BY *Leaves & Co*
ATTORNEYS

J. S. & R. BOWLING.
PLOW-STOCKS AND SWEEPS.

No. 194,407

Patented Aug. 21, 1877.

WITNESSES:

E. Wolff
J. S. & R. Bowling

INVENTOR:

J. S. & R. Bowling
BY H. Bowditch
Munnell
ATTORNEY

J. R. CALDWELL & J. W. HERREN.
PLOW.

No. 194,891.

Patented Sept. 4, 1877.

WITNESSES:

Just Brooks
M. S. Deane

INVENTOR:

John R. Caldwell & J. W. Herren
BY James Huggins
ATTORNEYS

J. C. FERGUSON
PLOW

No. 195,811.

Patented Oct. 2, 1877.

Witnesses:

James C. Ferguson
Brooklyn

INVENTOR:

James C. Ferguson
BY J. S. & R. Bowling
ATTORNEYS

T. A. BLANCHARD.
Plow

No. 196,184.

Patented Oct. 16, 1877.

WITNESSES:

E. Wolff
Alex. F. Roberts

INVENTOR:

T. A. Blanchard
BY Munnell
ATTORNEYS

J & M. RICH.
Plow.

No. 196,934

Patented Nov. 6, 1877.

WITNESSES:
Henry A. Miller
Rich & Rich

INVENTORS:
Jason Rich
and
Moses Rich
Attorneys

J. M. BASSETT.
Plow.

No. 197,006.

Patented Nov. 13, 1877.

WITNESSES:

H. H. H. H.
J. H. H. H.

INVENTOR:

J. M. Bassett
BY H. H. H. H.
ATTORNEYS

A. NEWSOM.
Plow.

No. 199,736.

Patented Jan. 29, 1878.

WITNESSES:
C. Newsom
A. Newsom

INVENTOR:
A. Newsom
BY H. H. H. H.
ATTORNEYS

W. S. MOON.
Plow.

No. 200,559.

Patented Feb. 19, 1878.

WITNESSES:

Frank A. Conrad
H. H. H. H.

INVENTOR:

W. S. Moon
H. H. H. H.
ATTORNEYS

T. W. BOYLE.
Shovel-Plow.

No. 200,819.

Patented March 5, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Witnesses:
J. J. Mason
D. L. Paul

Inventor:
Thaddeus Helen Boyle
by E. E. Mason

G. A. De LONG.
Hilling-Plow.

No. 201,099.

Patented March 12, 1878.

Fig. 1.

Fig. 2.

Witnesses:
Fred Howard
A. Mason

Inventor:
G. A. De Long
by J. J. Mason

G. A. De LONG.
Hilling-Plow.

No. 201,099.

Patented March 12, 1878.

Fig. 3.

Fig. 4.

Witnesses:
Fred Howard
A. Mason

Inventor:
G. A. De Long
by J. J. Mason

E. J. CAMP.
Plow.

No. 201,225.

Patented March 12, 1878.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Witnesses:
W. H. Hingrichs
A. E. Kemmer

Inventor:
E. J. Camp
by J. J. Mason

E. BARBER
Plow.

No. 202,090.

Patented April 9, 1878.

Witnesses:
John C. Donoghue
E. H. Bradford

Inventor:
Edward Barber
By *H. J. Ennis*
att'y

S. CARNES
Plow-Stock

No. 202,987.

Patented April 30, 1878.

Witnesses:
Chas. H. H. H.
C. H. H.

Inventor:
S. Carnes
By *Munn & Co.*
ATTORNEYS.

O. S. GANDY.
Cultivator.

No. 203,132.

Patented April 30, 1878.

Witnesses:
W. Garner
H. L. Kern

Inventor:
O. S. Gandy
By *G. F. Lehmann*
att'y

I. J. SAUNDERS.
Plow-Stock.

No. 203,948.

Patented May 21, 1878.

Witnesses:
Chas. H. H. H.
C. H. H.

Inventor:
I. J. Saunders
By *Munn & Co.*
ATTORNEYS.

T. M. MOORE.
Plow.

No. 204,358.

Patented May 28, 1878.

R. WIXSON.
Turning-Plow and Attachment.

No. 205,164.

Patented June 18, 1878.

Witnesses:
Wm. A. Hartley
Chas. A. Hartley

Inventor:
Robert Wixson
John A. Allen

R. W. WORKMAN.
Plow.

No. 205,458.

Patented June 25, 1878.

WITNESSES:
Wm. A. Hartley
Chas. A. Hartley

INVENTOR:
R. W. Workman
BY John A. Allen
ATTORNEYS

J. M. BASSETT
Plow.

No. 205,992.

Patented July 16, 1878.

WITNESSES:
Ed. A. Hartley
Wm. A. Hartley

INVENTOR:
John M. Bassett
John A. Allen
ATTORNEYS

J. H. GILLELAND.
Plow.

No. 206.723.

Patented Aug. 6, 1878.

WITNESSES:

Henry W. Miller
George W. Miller

INVENTOR:

J. H. Gilleland
BY *M. M. Munn*
ATTORNEY.

P. BOONE.
Plow-Stock.

No. 206.766.

Patented Aug. 6, 1878.

WITNESSES:

James W. Johnson
Henry B. Johnson

INVENTOR:

Perius Boone, by
Prindle & Co., Attys.

J. O. FARRELL.
Plow.

No. 207.130.

Patented Aug. 20, 1878.

WITNESSES:

Thomas Landon
Stacy B. Landon

INVENTOR:

John O. Farrell
BY *James C. Crofton*
ATTORNEY.

J. K. KIRKSEY
Adjustable Plow-Stock.

No. 207.530.

Patented Aug. 27, 1878

WITNESSES:
Wm. A. Leonard
James C. Crofton

INVENTOR:
James A. Kirksey
BY *James C. Crofton*
ATTORNEY.

W. G. REID.
Plow.

No. 207,895.

Patented Sept. 10, 1878.

Fig. 1

Fig. 2.

WITNESSES:

Chas. Munn
6 Daguerre

INVENTOR:

W. G. Reid
BY *Munn*
ATTORNEYS.

C. M. CROSSLEY.
Plow-Stock.

No. 208,074.

Patented Sept. 17, 1878

Fig. 1

Fig. 2

WITNESSES:

Henry J. Miller
Daguerre

INVENTOR:

C. M. Crossley
BY *Munn*
ATTORNEYS.

V. R. DAVIS.
Plow-Stock.

No. 208,664.

Patented Oct. 1, 1878.

Fig. 1.

Fig. 2.

Witnesses:

Theo. Mungen
John O. Mungen

Inventor:

V. R. Davis
By *Henry J. Eunis*
Attorney.

A. HEARTSILL
Shovel-Plow and Harrow Attachment

No. 209,043.

Patented Oct. 15, 1878.

Fig. 1

Fig. 2

WITNESSES:

Frank L. Leonard
J. J. M. Batty

INVENTOR:

A. Heartsill
BY *Almond Mason*
ATTORNEYS.

A. L. MANNING.

Plow.

No. 211,632.

Patented Jan. 28, 1879.

WITNESSES:
E. S. Thompson
A. B. Wright

INVENTOR:
A. L. Manning
By Dequette & Deane, atts.

G. W. McDANIEL.

Plow.

No. 213,225

Patented Mar. 11, 1879.

WITNESSES:
E. S. Thompson
A. B. Wright

INVENTOR:
G. W. McDaniel
By H. A. Deane, atts.

A. NEWSOM.

Plow.

No. 218,558.

Patented Aug. 12, 1879.

WITNESSES:
C. A. Newsom
C. A. Newsom

INVENTOR:
A. Newsom
BY Munn & Co.,
ATTORNEYS.

J. M. MARTIN, Jr.

Plow.

No. 219,748.

Patented Sept. 16, 1879.

WITNESSES:
C. A. Newsom
C. A. Newsom

INVENTOR:
J. M. Martin, Jr.
BY Munn & Co.,
ATTORNEYS.

C. T. CROOK & L. J. HUFFMAN.
Plow.

No. 221,528.

Patented Nov. 11, 1879.

WITNESSES:

Chas. H. Hargreaves
L. J. Huffman

INVENTOR:

C. T. Crook
L. J. Huffman
BY *Wm. H. Hargreaves*
ATTORNEYS.

H. C. BEEBE.
Shovel-Plow Point.

No. 223,309.

Patented Jan. 6, 1880.

WITNESSES

A. L. Curran
E. H. Bradford

INVENTOR

H. C. Beebe
BY *H. H. Hargreaves*
ATTORNEY

S. T. JAMES.
Cultivator.

No. 227,360.

Patented May 11, 1880

Witnesses:
A. H. Hargreaves
Geo. H. Hargreaves

S. T. James
INVENTOR

per *Edmond B. Burt*
ATTORNEYS

N. C. ORRICK.
Plow.

No. 228,835.

Patented June 15, 1880.

WITNESSES

Ed. G. Delmonico
John P. Brooks

INVENTOR

Nicholas C. Orrick
per *E. G. Delmonico*
ATTORNEYS

G. W. GAMMILL.
Plow.

No. 228,885.

Patented June 15, 1880.

Witnesses:
James L. Gammill
James J. Gammill

Inventor:
G. W. Gammill
Alexander D. Gammill

(No Model.)

G. A. De LONG.
Plow.

2 Sheets—Sheet 1

No. 229,239.

Patented June 29, 1880.

WITNESSES:

E. Laas
C. Pendleton

INVENTOR:

George A. De Long
for Bull, Laas & Hay
Attorneys

(No Model.)

G. A. De LONG.
Plow.

2 Sheets—Sheet 2

No. 229,239.

Patented June 29, 1880.

WITNESSES:

E. Laas
C. Pendleton

INVENTOR:

George A. De Long
for Bull, Laas & Hay
Attorneys

(No Model.)

W. W. TURNER.
Plow.

2 Sheets—Sheet 1

No. 231,633.

Patented Aug. 24, 1880.

Witnesses:
Philip Knott

James J. Shuch

Inventor:

William W. Turner
J. Clement Smith
Attorneys

(No Model.)

W. W. TURNER.
Plow

2 Sheets—Sheet 2.

No. 231,633.

Patented Aug. 24, 1880.

Witnesses
Philip Smith

James J. Shuchy

Inventor.

William H. Turner
Clément Smith
Attorney

(No Model.)

H. R. & D. E. BENNETT.
Plow.

No. 231,985.

Patented Sept. 7, 1880.

Witnesses
Fred G. Dutton
H. D. HallInventors
Hiram R. Bennett
Daniel E. Bennett
by C. A. Morrill, Attorneys

(No Model.)

R. W. WHITEHURST.
Cultivating Plow.

No. 236,743.

Patented Jan. 18, 1881.

Witnesses:
Geo. A. Bayden
A. C. EaderInventor:
Robert W. Whitehurst
By his Atty
Chas. B. Mann

(No Model.)

J. M. DORMON.
Plow.

No. 240,579.

Patented April 26, 1881.

Witnesses:
Hiram R. Bennett
Daniel E. BennettInventor:
James M. Dormon
by H. M. Kane,
Associate Attorneys

(No Model.)

H. A. RIDLEY.
Shovel Plow Blade

No. 240,766.

Patented April 26, 1881.

(Model.)

F. B. SNODGRASS.
Root Cutting Plow.

No. 242,069.

Patented May 24, 1881.

(No Model.)

L. H. CONNER.
Shovel Plow.

No. 243,217

Patented June 21, 1881.

(No Model.)

T. WARD
COMBINED PLOW, &c.

No. 244,504.

Patented July 19, 1881.

(No Model.)

2 Sheets—Sheet 2

T. WARD.
COMBINED PLOW, &c.

No. 244,504.

Patented July 19, 1881.

Fig. 9.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Attest:
H. C. L. L. L. L. L.
H. C. L. L. L. L. L.

Inventor:
T. Ward
by H. C. L. L. L. L.
H. C. L. L. L. L. L.

(No Model.)

J. M. PITTS.
PLOW STOCK.

No. 244,660.

Patented July 19, 1881.

Witnesses:
H. C. L. L. L. L.
H. C. L. L. L. L.

Inventor:
John M. Pitts.
per H. C. L. L. L. L.
H. C. L. L. L. L.

(Model.)

J. H. HARIG.
PLOW.

No. 245,716.

Patented Aug. 16, 1881.

FIG. II.

FIG. III.

—WITNESSES—

Geo. A. Bryden
H. C. L. L. L. L.

—INVENTOR—

John H. Harig
by H. C. L. L. L. L.

(Model.)

W. RICHARDS.
PLOW.

No. 246,416.

Patented Aug. 30, 1881.

Witnesses:
H. C. L. L. L. L.
H. C. L. L. L. L.

Inventor:
William Richards
by H. C. L. L. L. L.
H. C. L. L. L. L.

(No Model.)

I. R. GILBERT
FLOW STANDARD.

No. 246,496.

Patented Aug. 30, 1881.

(No Model.)

W. McG. TOWERS & A. R. SULLIVAN.
FLOW.

No. 247,970.

Patented Oct. 4, 1881.

(No Model.)

M. COOPER.
FLOW.

No. 247,989.

Patented Oct. 4, 1881.

M. COOPER.
FLOW.

No. 10,007.

Reissued Jan. 10, 1882.

(Model.)

T. F. McNAIR.
PLOW.

No. 248,773.

Patented Oct. 25, 1881.

Witnesses:
Hans L. Curand
J. J. McCarthy

Inventor
T. F. McNAIR
By Alexander McPherson
Attorney

(Model.)

I. V. NEWSOM.
PLOW.

No. 249,079.

Patented Nov. 1, 1881.

WITNESSES:
A. Schell
C. Sulzinger

INVENTOR:
I. V. Newsom
BY Messrs. C. & S.

(No Model.)

J. LANE.
PLOW.

No. 250,151.

Patented Nov. 29, 1881.

Witnesses:
E. L. Lane
W. Barker

Inventor
John Lane

(No Model.)

J. LANE.
LISTING PLOW.

No. 250,152.

Patented Nov. 29, 1881.

Witnesses:
E. L. Lane
W. Barker

Inventor
John Lane

(No Model.)

G. S. AGEE.
SHOVEL PLOW.

No. 253,331.

Patented Feb. 7, 1882.

WITNESSES:

Charles A. Rice
John A. Rice

INVENTOR:

G. S. Agee
BY *M. M. Beard*
ATTORNEYS.

(No Model.)

M. T. HANCOCK.
PLOW.

No. 265,283.

Patented Mar. 21, 1882.

WITNESSES:
Edmond Wooding
John A. Rice

INVENTOR:
M. T. Hancock
BY *John A. Rice*
ATTORNEYS.

(No Model.)

M. M. BEARD.
PLOW.

No. 257,639.

Patented May 9, 1882.

WITNESSES:

Edmond Wooding
John A. Rice

INVENTOR:

M. M. Beard
BY *M. M. Beard*
ATTORNEYS.

(No Model.)

T. E. GOLDEN.
PLOW.

No. 257,861.

Patented May 16, 1882.

WITNESSES:
Edmond Wooding
John A. Rice

INVENTOR:
T. E. Golden
BY *John A. Rice*
ATTORNEYS.

(No Model.)

A. G. COX & R. A. JOHNSON.
PLOW.

No. 259,292.

Patented June 13, 1882.

(No Model.)

J. H. FELDMANN.
SHOVEL PLOW.

No. 259,515.

Patented June 13, 1882.

(Model.)

C. L. MOSS.
PLOW.

No. 259,900.

Patented June 20, 1882.

(Model.)

J. LAWRIE.
SHOVEL PLOW.

No. 261,001

2 Sheets—Sheet 1.
Patented July 11, 1882.

(Model.)

2 Sheets—Sheet 2

J. LAWRIE.
SHOVEL PLOW.

No. 261,001.

Patented July 11, 1882.

Fig. 1.

Fig. 5.

Fig. 6.

WITNESSES
Emory J. Bates
Philip H. Haines

INVENTOR
John Lawrie
 by *Anderson & Smith*
 his ATTORNEYS

(No Model.)

W. J. N. WELBORN.
ATTACHMENT FOR PLOWS.

No. 263,637.

Patented Aug. 29, 1882.

Fig. 1.

Fig. 2.

WITNESSES:
Red. & Dittich
John C. H. Carter

INVENTOR
W. J. N. Welborn
 by *Louis Bayger & Co.*
 ATTORNEYS

(No Model.)

W. O. JOHNSON.
SHOVEL PLOW.

No. 265,324.

Patented Oct. 3, 1882.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Attest:
W. R. Brown
D. F. Cook

INVENTOR
William O. Johnson
 by *Thos. L. Ewin* Atty.

(No Model.)

B. J. BEST.
IRON FOOT PLOW.

No. 265,666.

Patented Oct. 10, 1882.

Witnesses
W. H. Foster
E. R. Root

INVENTOR
B. J. Best

(No Model.)

D. BEETS.

FLOW.

No. 268,985.

Patented Dec. 12, 1882.

Witnesses:

J. W. Garner
 W. S. D. Barnes

Inventor:

Daniel Beets.
 by Howard A. Horn,
 Attorney

SIDE-HILL.

	Plate Claim			Plate Claim			Plate Claim	
Abbott, H. B.	939	580	Hakes, H. B.	649	584	Nourse, J. and Howe, J. A.	962	589
Ackley, H. R.	968	592	Hall, S.	927	575	Nourse, J. and Howe, J. A.	966	591
Akins, H. S.	929	576	Hall, J. S.	928	576	O'Neill, W.	931	577
Akins, H. S.	930	577	Hall, J. M.	930	577	Parker, T. and Downing, J.	956	587
Altenderfer, P. and B.	921	573	Hall, J. S.	948	584	Parker, T.	953	585
Anderson, J. G.	975	595	Hall, J. S.	951	584	Parsons, W. W.	951	585
Anschutz, A. Seidel, A.			Hapgood, J.	945	583	Peterson, G. W.	966	591
and Weber, M.	950	584	Hapgood, J.	954	586	Pettengill, C. B.	945	583
Arnett, W. D.	965	591	Hardenbrook, R.	937	579	Poindexter, F.	949	584
Babbitt, W. H.	924	575	Hardin, A. I.	929	576	Price, B.	935	578
Babbitt, W. H.	927	576	Harrison, N. and Metcalf,			Pritchard, J. P.	943	582
Baker, B. F.	948	584	J. W. H.	928	576	Rabb, W. S.	942	582
Bakes, F. G.	936	579	Haskin, O.	968	592	Rich, M.	923	574
Barager, C. F.	933	577	Hartmann, J.	951	585	Robb, D.	925	575
Barnaby, A.	923	574	Hartmann, J.	957	587	Ronat, L.	639	580
Barnett, J. W. and Hobbs,			Hartmann, J.	960	588	Rorabaugh, J.	924	575
T. J.	963	590	Hartmann, J.	961	589	Sanborn, A.	932	577
Barrows, F. A.	962	589	Hartmann, J.	971	594	Sanborn, A.	948	584
Barton, A.	928	576	Hawse, B. B.	957	587	Sattler, H.	969	593
Barton, W. C.	968	592	Hodge, E. C.	942	582	Sattler, H.	973	595
Bethea, J. C.	936	579	Hodge, E. C.	944	582	Schmidt, L.	977	597
" " (R)	936	579	Hodge, E. C.	959	588	Seoville, I. and H. H.	940	580
Bieker, F.	952	585	Holbrook, F., Howe, J. A.			Sessions, F. E.	960	588
Bliven, S. R.	930	570	and Nourse, J.	941	581	Shaw, H. F. and G. F.	956	586
Bouchet, P.	962	589	" " " " (R)	941	581	Shaw, H. F. and G. F.	962	589
Brewster, I.	925	575	Holbrook, F. F. and Moul-			Sloop, H.	838	580
Brooks, C. C.	969	592	ton, E. S.	971	594	Smith, E. J. and Griswold,		
Bryan, F. C.	969	593	" " " " (R)	972	594	H.	925	575
Bryan, F. C.	977	597	Holley, J. P.	970	593	Smith, H. B.	934	578
Burch, L. D.	931	577	Howe, G. W.	950	584	Speer, W. W.	945	583
Burch, L. D.	932	577	Howe, J. A.	976	596	Strat, W.	958	587
Burgess, T. J.	950	584	Hubbell, M. R.	955	586	" " (R)	958	587
Butler, J.	946	583	Hunt, J. Y.	921	573	Strait, W.	968	590
Chapman, L.	945	583	Iverson, L. L.	652	585	Strait, W.	971	593
Chapman, L.	947	583	Jennings, E.	944	582	Steinmetz, C. P.	939	580
Chapman, L.	966	591	Jones, W.	933	577	Stratton, C. H.	954	586
Chapman, L.	967	592	Jones, J. W.	941	581	Sturtevant, Z. W.	941	581
Chase, W. L.	926	575	Jordan, J. W.	922	574	Swartz, P. E. and Arnot, A.	970	593
Chase, M. L.	926	575	Jordan, J. W.	923	574	Sweetland, H. H.	949	584
Clough, A. S.	970	593	Knapp, R. I.	955	586	Sykes, C. W.	934	578
Coodington, R. and Mc-			Knapp, R. I.	976	596	Tate, E.	965	591
Call, D.	933	577	Knox, S. A.	961	589	Teeter, I.	923	574
Conaway, W. H.	950	584	Konig, J.	974	595	Thompson, G. W.	936	578
Connelly, W. E.	965	591	Legg, L. W. and E. D.	929	576	Thompson, G. W.	943	582
Cowley, W. A.	930	588	Leonard, G. W.	944	582	" " (R)	943	582
Cowley, W. A.	973	595	Leslie, B. J.	971	593	Thurman, J. W.	926	575
Cox, H.	925	575	Levoy, W. E.	937	579	Teitz, J.	937	579
Culver, F. and J. H.	955	586	Lufkin, C. M.	933	578	Tinkler, J.	922	574
Daniel, C.	961	589	Lufkin, C. M.	935	578	Trump, J.	924	574
Daniel, C.	963	590	Lufkin, C. M.	965	591	Tufis, S. G.	940	581
Day, D. C.	944	583	McCabe, J.	954	586	Tyler, W. H.	940	581
Delano, C.	922	573	McCormick, C. H.	921	573	Underhill, H. R.	963	590
Dennis, S. Jr.	929	576	McKesson, E.	934	578	Van Camp, E.	931	577
Dexheimer, J. P.	951	585	Macomber, T. S.	953	585	Vars, N.	934	578
Doe, A.	928	576	Manuel, D. A.	939	580	Vickery, D. F. and Prick-		
Durfee, W. H.	975	596	Manuel, D. A.	940	580	ett, W. P.	959	587
Edleblute, L. S.	960	591	Matthews, E. G.	938	580	Wadleigh, S. F., Robert-,		
Eldred, A.	926	575	Matthews, E. G.	943	582	O. N. and G. S.	964	590
Eldrid, D.	931	577	Matthews, E. G.	946	583	Warlick, W.	952	585
Ellis, M.	953	585	Matthews, E. G.	959	588	Watson, F.	938	580
Ewing, R. H.	932	577	Matthews, E. G.	969	592	Weaver, J.	921	573
Feldmann, J. H.	975	596	Merk, M.	930	576	Wiard, H. and Bullock,		
Felt, J. S.	974	595	Miller, G. C. and Henry,			W. R.	968	592
Flansburgh, P. H.	937	579	R.	932	577	Wilder, J. B.	927	576
Fowler, N. M.	964	591	Morris, B. F.	961	589	Wilson, L. E. and Mc-		
Fulk, C. E. and Good, J. J.	952	585	Mott, J.	935	578	Canles, J. E.	963	590
Gochmour, D. Jr.	924	574	Mott, J.	935	578	Woodbury, J. L. and G. L.	970	593
Gogel, J.	959	588	Neff, J. Jr.	955	586	Woodworth, S. F.	976	596
Gossett, W. I. and Stark,			Newcomb, D. H. B.	927	576	Wright, A.	938	580
J. P.	956	586	Nourse, J.	960	588	Wisley, S. H.	956	586

James Y. Hunt.
Side-Hill Plows.

Dec. 24, 1824.

Drawing Lost. See Claims.

P. & B. ALTENDERFER

Side-Hill Plow

Patented June 11, 1829

C. H. McCORMICK

Side-Hill Plow.

Patented June 13, 1831

J. WEAVER.

Plow.

Patented Aug. 17, 1832.

*Calvin Delano,
Side-Hill Plows,
July 5 1833,
Drawing Lost. See Claim.*

J. TINKLER,
Side-Hill Plow.

Patented Mar. 2, 1835.

J W JORDAN.
Side-Hill Plow.

2 Sheets—Sheet 1.

Patented Oct. 28, 1835

J W JORDAN.
Side-Hill Plow.

2 Sheets—Sheet 2.

Patented Oct. 28, 1835

M. Rich.
Side-Hill Plow

No 953

Patented Mar 24, 1838.

I. Teeter.
Side Hill Plow

No 959

Patented Oct. 3, 1838.

JW Jordan.
Side Hill Plow

No 1,120.

Patented Apr 17, 1839

A. Barnaby,
Plow.

No 1,320,

Patented Sept. 11, 1839.

Witnesses:
Augustus Smith
Henry McQuinn

Inventor:
A. Barnaby

D. Gochmour, Jr.

Side-Hill Plow.

No. 1632.

Patented June 12, 1840.

J. Trump,

Side-Hill Plow.

No. 4186.

Patented Sept. 9, 1846.

J. Forzbaugh.

Side Hill Plow.

No. 4,870.

Patented Dec. 3, 1846.

W. H. BABBIT.

Side-Hill Plow.

No. 5,363.

Patented Nov. 6, 1847.

SMITH & GRISWOLD.

Side-Hill Plow.

No. 5,677.

Patented July 25, 1848.

H Cox

Side Hill Plow

No. 5,909.

Patented July 27, 1848

I. Brewster

Side Hill Plow

No. 5,922.

Patented Nov 16, 1848.

J. Roll

Side Hill Plow

No. 5,553.

Patented Jan 26, 1849

A. Eldred.

Side-Hill Plow.

N^o 6,606

Patented Jul. 24, 1849

J. W. Thurman

Side-Hill Plow

N^o 6,677

Patented Aug. 28, 1849

M. L. CHASE.

Side-Hill Plow.

No. 7,505.

Patented July 16, 1850.

W. L. Chase

Side-Hill Plow

N^o 7,518

Patented Jul. 22, 1850.

*S. Hall.**Side Hill Plow**No. 9,519.**Patented Jan. 4, 1853.* *D. H. B. Newcomb.**Side Hill Plow**No. 9,801.**Patented Jan. 21, 1853.* *J. E. Mulder,**Side Hill Plow.**No. 9,808.**Patented June 21, 1853.* *W. H. Babbitt,**Side Hill Plow.**No. 9,946.**Patented Aug. 10, 1853.*

*Harrison & Metcalf.**Side-Hill Plow.**N^o 10,107**Patented Oct. 11, 1853.* *R. Doe.**Side Hill Plow.**N^o 12, 310**Patented Jan. 30, 1855.* *J. Barton.**Plow**N^o 16,321.**Patented Jul. 16, 1856.* *J.S. Hall.**Side Hill Plow.**N^o 17, 430.**Patented Jun. 2, 1857.*

H. S. AKINS
Side-Hill Plow.

No. 17,547.

Patented June 16, 1857

E. D. & L. W. Legg
Side-Hill Plow.

No. 17,579

Patented Jun 16, 1857.

R. I. Hardin.

Side-Hill Plow

No. 18,336

Patented Oct. 6, 1857

S. Dennis, Jr.

Side-Hill Plow

No. 17,896.

Patented Mar 2, 1858

M. Mark.
Side Hill Plow

N^o 20812.

Patented Jan 6, 1858.

S. R. Brown.
Shovel Plow

N^o 20984

Patented Jan 27, 1858.

H. S. AKINS.
Side-Hill Plow.

No. 21,306.

Patented Aug 13, 1858.

J. M. Hall.
Side Hill Plow

N^o 23,063.

Patented Feb 22, 1859.

Witnesses
W. P. McMillan
J. L. Clayton

Inventor
John M. Hall

*E. Van Camp**Side Hill Plow*N^o 23,900

Patented May 18, 1859

Witness:
John A. Thompson
 & *John A. Thompson*

Inventor:
E. Van Camp

*W. O. Neill**Side Hill Plow*N^o 25,436

Patented Sept. 15, 1859

Witness:
John A. Thompson
 & *John A. Thompson*

Inventor:
W. O. Neill

*D. ELDRED.**Wheel-Plow.*

No. 25,816.

Patented Oct. 18, 1859

Witness:
John A. Thompson
 & *John A. Thompson*

Inventor:
David Eldred

*L. D. Busch.**Side Hill Plow*

No. 29,567.

Patented Aug. 14, 1860

*Miller & Henry.**Side Hill Plow.**N^o 29,705**Patented Aug. 21, 1860.* *Fig. 2.*

Witnesses
James R. Henry
John G. Galt

Inventors
Miller & Henry
Angell Brothers & Co.

*R. H. Ewing,**Side Hill Plow.**N^o 30,126.**Patented Nov. 24, 1860.*

Witnesses
Geo. A. Ewing
L. H. Ewing

Inventor
R. H. Ewing

*L. D. Burch.**Side Hill Plow.**N^o 650.**31,654.**Patented Mar. 12, 1861.*

Witnesses;
Edmund Shaw
Charles Hart

Inventor,
L. D. Burch

*A. Sanborn.**Side Hill Plow.**N^o 583.**32,581.**Patented Jan. 18, 1861.*

Witnesses
Chas. P. Hall
Arthur Rice

Inventor
Augustus Sanborn

*Caddington & McCall,**Side Hill Plow.**No 2569*
*32,673**Patented Oct. 29, 1861.*

Witnesses,
J. M. Roy,
Samuel Croft

Inventor,
Richard Caddington,
By J. McCall

*C. F. Barager**Side-Hill Plow**N^o 35,432.**Patented Jan. 3, 1862*

Witnesses,
Samuel Croft,
Richard Caddington

Inventor,
Charles F. Barager

W JONES.**Side-Hill Plow****No 36,959****Patented Nov. 25, 1862.**

Witnesses,
J. M. Roy,
Samuel Croft

Inventor,
Wm Jones,
Per J. McCall

*S. M. Linton**Flour Cleaner**N^o 39,411.**Patented Jan. 3, 1862.*

Witnesses,
J. M. Roy,
Samuel Croft

Inventor,
S. M. Linton,
Per J. McCall

N. Vars.
Side Hill Plow.

N^o 115,962.

Patented Jan. 10, 1865.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses:
J. P. McNamee
William J. McNamee

Inventor:
Nathan Vars
per Messrs C. A. Vars

E. McNamee.
Side Hill Plow.

N^o 115,964.

Patented Jan. 17, 1865.

Witnesses:
William J. McNamee
Charles W. Bell
Thomas H. Bell

Inventor:
E. McNamee
per Messrs C. A. Vars

H. B. Smith.
Side Hill Plow.

N^o 46,716.

Patented Mar. 7, 1866.

Witnesses:
J. B. Gardner
J. R. Smith

Inventor:
Hannibal A. Smith

C. W. Sykes.

Side Hill Plow.

N^o 50,744.

Patented Oct. 31, 1865.

Witnesses:
J. B. Gardner
J. R. Smith

Inventor:
Charles W. Sykes

*J. Mott.**Side Hill Plow**N^o 64,766.**Patented May 16, 1866.*

Witnesses

Josh. W. Caldwell
C. M. Bryant

Inventor

*John Mott.**C. M. Lytton.**Side Hill Plow**N^o 55,684**Patented Jan. 19, 1866*

Witnesses

James C. Davis
Frank C. Davis

Inventor

*C. M. Lytton**B. Price.**Side Hill Plow.**N^o 56,791**Patented Jul. 31, 1866.*

Witnesses

A. A. S. S. S.
W. C. Clayton

Inventor

Ben. Price
*by atty. W. C. Clayton**J. Mott.**Side Hill Plow.**N^o 57,171.**Patented Aug. 14, 1866.*

Witnesses

Wm. Smith
Will. Smith

Inventor

John Mott

*G. W. Thompson.**Side Hill Plow**N^o 67,796.**Patented Sept. 4, 1866.*

Witnesses
Geo. A. Brown
Alfred S. Clark

Inventor
G. W. Thompson
Per Myself C. B. Adams

F. G. BAKES

Side-Hill Plow

No. 60,810.

Patented Jan. 1, 1867.

Witnesses:

W. H. Wells
Sam. Knight

Inventor.

Fredrick G. Bakes
By Myself Fred
Adams

J. C. BETHEA.

Side-Hill Plow.

No. 61,796

Patented Feb. 5, 1867

Witnesses
W. H. Rothwell
S. L. Kemon

Inventor
James C. Bethea
By Myself S. L. Kemon

*J. C. Bethea.**Side Hill Plow**N^o 3,094.**Reissued Aug. 25, 1865*

Witnesses
W. H. Rothwell
S. L. Kemon

Inventor
James C. Bethea
By Myself S. L. Kemon

P. H. FLANSBURGH
Side-Hill Plow.

No. 66,012.

Patented June 26, 1867.

WITNESSES,
Geo. H. Spring
Geo. W. Smith,

INVENTOR
P. H. Flansburgh
By *Wm. H. Dwyer*

J. TIETZ.
Plow.

No. 67,002

Patented July 23, 1867.

Witnesses.

Charles H. Smith
John C. Flann

Inventor.

John Tietz
By *Wm. H. Dwyer*
Attorney

W. E. LEVOY.
Side-Hill Plow.

No. 67,890

Patented Aug. 20, 1867.

Witnesses
R. H. Kellogg
John H. Bailey

Inventor
W. E. Levey

R. HARDENBROOK.
Side-Hill Plow.

No. 68,190.

Patented Aug. 27, 1867.

Witnesses.

R. H. Kellogg
W. E. Levey

Inventor.

R. Hardenbrook
By *Wm. H. Dwyer*
Attorney

F. Watson.

Side-Hill Plow.

N^o 73874.

Patented Oct. 16, 1867.

WITNESSES

Edwin M. May,
J. C. Pollock.

INVENTOR:

Franklin Watson
by Brown & Clarke
attorneys

E. G. Matthews.

Plow.

N^o 71513

Patented Nov. 26, 1867

Witnesses.
J. W. Pollock,
J. C. Pollock.Inventor.
Edridge A. Matthews
by his attorney
K. W. Pollock

A. Wright.

Plow.

N^o 73685

Patented Jan 21, 1868

Witnesses.

John Johnston
A. C. Johnston.

Inventor

Alexander Wright
by his attorney
James J. Johnston

H Sloop.

Hill-Side Plow.

N^o 73933

Patented Jan 28, 1868

Witnesses
J. W. Pollock,
J. C. Pollock.Inventor
H. Sloop
by his attorney
J. W. Pollock

Henry B. Abbott.

HILLSIDE PLOW.

75104

PATENTED
MAR 3 1869

Fig. 1.

Fig. 2.

Fig. 3.

Inventor.

Henry B. Abbott
By [Signature]

Attorn.

Jas. B. [Signature]
Jas. H. [Signature]

D. E. Kimmel.

Side-Hill Plow.

754463

Patented Jan. 5 1869

WITNESSES

[Signatures]

INVENTOR

D. E. Kimmel
[Signature]

C. P. Steinhilber.

Plow

No. 75,446.

Patented Jan. 8, 1869.

Witnesses
[Signatures]

Inventor
C. P. Steinhilber

I. Kimmel.

Plow

No. 35,696.

Patented Jan. 5, 1869.

Witnesses

[Signatures]

Inventor

I. Kimmel
[Signature]

D. A. Kimmel,
Side Hill Plow.

No. 88,746.

Patented Jan. 12, 1869.

Witnesses
C. Brown
J. J. Gray

Inventor
D. A. Kimmel.
By A. C. Brown
Atty

I. & H. H. Seville.
Plow.

No. 89,796.

Patented May 4, 1869.

Witnesses
A. J. Dewey
Geo. H. Strong.

Inventors
Ives Seville
Hiram H. Seville
By Dewey & Strong

W. H. Tyler,
Plow.

No. 90,895.

Patented June 1, 1869.

Witnesses
W. H. Tyler
W. H. Tyler

Inventor
William H. Tyler.
By his Atty. J. D. Davis Jr.

S. G. Trafts.
Cultivator.

No. 91,497.

Patented Jan. 16, 1869.

Witnesses
A. J. Dewey
Geo. H. Strong.

Inventor
S. G. Trafts
By his Atty. J. D. Davis Jr.

J. W. Jones,
Plow.

No. 24,001.

Patented Aug. 26, 1869.

Witnesses:

Geo. H. Jones
J. W. Jones

Inventor:

J. W. Jones
Attorney

Z. W. Sargent,
Plow.

No. 97,828.

Patented Dec. 14, 1869.

Witnesses:

John E. Sargent
Z. W. Sargent

Inventor:

Z. W. Sargent

HOLBROOK, HOWE & NOURSE.

Swivel Plow.

No. 103,187.

Patented May 17, 1870.

Witnesses:
William H. Nourse
Frederick Holbrook
James A. Howe
J. A. Nourse

Inventors:
Frederick Holbrook
James A. Howe
J. A. Nourse

F. HOLBROOK, J. A. HOWE & J. NOURSE.

Assignors to J. NOURSE.

2 Sheets—Sheet 1

Swivel-Plow.

No. 8,551.

Released Jan. 21, 1879.

Attest

J. A. Nourse
J. A. Nourse

J. A. Nourse

Assignor
Inventors:
Frederick Holbrook
James A. Howe
J. A. Nourse
By Burt H. Hilditch & Co. Attys

F. HOLBROOK, J. A. HOWE & J. NOURSE,
Assignors to J. NOURSE.
Swivel-Plow.
No. 8,551.
Reissued Jan. 21, 1879.

W. S. RABB.
Shovel Plow.
No. 103,777.
Patented May 31, 1870.

E. C. Hodge.
Side Hill Plow.
No. 108,907.
Patented Nov. 1, 1870.

E. C. Hodge.
Side Hill Plow.
No. 108,907.
Patented Nov. 1, 1870.

*E. B. Matthews**Summit Plow**No. 108,948**Patented Nov. 1, 1870.**Fig 1* *Fig 2* *Witnesses**Wm. H. Dodge
Chas. H. Burleigh**Inventor**E. B. Matthews**G. W. Thompson**Reversible Plow**No. 110,692**Patented Jan. 3, 1871.* *Witnesses:**Wm. F. Roberts
Jas. H. Thompson**Attorney:**J. W. Thompson
per Wm. F. Roberts
Attorneys***GEORGE W THOMPSON.****Improvement in Plows.****No. 4,925.****Reissued May 28, 1872.** *FIG 3.**FIG 4**FIG 2**FIG 1**Witnesses:**James S. Day
E. C. Fisher**Inventor:**George W. Thompson
by his Attorneys,
Barnard, Smith, & Co.**J. F. Patton**No. 111,267**Patented Jan. 24, 1871.* *Fig 2.* *Witnesses:
Geo. D. Strong
Jas. F. Boone**per J. F. Patton
J. C. McPherson
Per Geo. D. Strong
L. C. Strong & Co.*

E. C. Hodge.
Plow Center.

No. 112,039.

Patented Feb. 21, 1871.

Fig. 1.

Fig. 2.

Witnesses.

W. H. Hodge
E. C. Hodge

Inventor.

Edw. C. Hodge
By J. B. Wierwille
Attorney

GEORGE W. LEONARD.

Improvement in Side-Hill Plows.

No. 116,070.

Patented June 20, 1871.

Fig. 1

Fig. 2

Fig. 2

Witnesses:

A. W. Hodge
Wm. B. Smith

Inventor:

G. W. Leonard

Per

Wm. B. Smith
Attorneys

Edwin Jennings. Reversible Plow.

Fig. 1. PATENTED JUN 27 1871

116314

Fig. 2.

Fig. 3

Fig. 4

Witnesses
A. W. Hodge
E. C. Hodge

Inventor

Edw. C. Hodge
per Wm. B. Smith
Attorneys

D. C. Day

Side Hill Plow.

117054

PATENTED JUL 18 1871

Fig. 1.

Fig. 2.

Witnesses
A. W. Hodge
E. C. Hodge

Inventor.

D. C. Day
per Wm. B. Smith
Attorneys

Charles B. Pettengill.
Reversible or Side Hill Plow.

PATENTED AUG 15 1871

118049 *Fig 1*

Fig 2

Fig 4

Fig 3

Witnesses:

E. Hoff
Wm. H. C. Smith

Inventor:

Charles B. Pettengill

Per

Wm. H. C. Smith
Attorneys.

No. 118,932.

Joab Hapgood's Patented Sep. 12, 1871.
Impt in Swivel Plows

Fig 4

Fig 1

Fig 5

Fig 3

Inventor

Joab Hapgood

Witnesses:

Wm. H. C. Smith
Attorneys.

WILLIAM W. SPEER.

Improvement in Combined Sub-soil Drill and Hill-side Plows.

No. 119,423.

Patented Sep. 26, 1871.

Fig 1

Fig 2

Witnesses:

A. W. Smith
James M. Smith

Inventor:

Wm. H. C. Smith
Per Wm. H. C. Smith
Attorneys.

3 Sheets. Sheet 1.

LUKE CHAPMAN.

Improvement in Gang Plows.

No. 120,572.

Patented Nov. 7, 1871.

Wm. H. C. Smith
Attorneys.

Wm. H. C. Smith
Attorneys.

LUKE CHAPMAN.
Improvement in Gang Plows.
No. 120, 72.

3 Sheets--Sheet 2.
Patented Nov. 7, 1871.

Inventor

L. Chapman
J. H. Butler

Inventor

L. Chapman
J. H. Butler

LUKE CHAPMAN.
Improvement in Gang Plows.

No. 120,572.

3 Sheets--Sheet 3.
Patented Nov. 7, 1871.

Inventor

L. Chapman
J. H. Butler

Inventor

L. Chapman
J. H. Butler

J. H. BUTLER.

REVERSIBLE DOUBLE PLOW

No. 121,582.

Patented Dec. 5, 1871.

Witnesses

J. H. Butler
J. H. Butler

Inventor

J. H. Butler
J. H. Butler

2 Sheets--Sheet 1.

E. G. MATTHEWS.

Improvement in Plows.

No. 123,272.

Patented Jan. 30, 1872.

Witnesses

J. H. Butler
J. H. Butler

Inventor

E. G. Matthews
J. H. Butler

2 Sheets--Sheet 2.

E. G. MATTHEWS.
Improvement in Plows.

No. 123,272.

Patented Jan. 30, 1872

4 Sheets--Sheet 1

L. CHAPMAN.
Improvement in Plows.

No. 123,330.

Patented Feb. 6, 1872.

1 Sheets--Sheet 2

L. CHAPMAN.
Improvement

in Plows.

No. 123,330.

Patented Feb. 6, 1872

4 Sheets--Sheet 3

L. CHAPMAN.
Improvement in Plows.

No. 123,330. Patented Feb. 6, 1872

L. CHAPMAN.
Improvement in Plows.

No. 123,330.

Patented Feb. 6, 1872.

Witnesses:
James H. Bradley
M. Gardner

Inventor:
L. Chapman
per. Chas. H. Walton

BENJAMIN F. BAKER.
Improvement in Plows.

No. 126,865.

Patented May 21, 1872.

Witnesses:
L. Gardner
C. H. Walton

Inventor:
Benjamin F. Baker
per. A. M. Williams

JOHN S. HALL.
Improvement in Plows.

No. 126,952

Patented May 21, 1872.

Witnesses:
E. H. Hoff
W. A. Graham

Inventor:
John S. Hall
per. Wm. H. Hall
Attorneys.

A. SANBORN.
Improvement in Plows.

No. 127,372.

Patented May 28, 1872.

Witnesses:
A. H. Hoff
J. L. Hall

Inventor:
Augustus Sanborn
per. Geo. E. Brown
Attorneys.

F. POINDEXTER.

Improvement in Plows.

No. 129,054.

Patented July 16, 1872.

Witnesses:
W. H. H. H.
Geo. W. H. H.

Inventor:
F. Poindexter
Attorneys.

H. H. SWEETLAND.

Improvement in Plows.

No. 130,882.

Patented Aug. 27, 1872.

Witnesses:
W. H. H. H.
Geo. W. H. H.

Inventor:
H. H. Sweetland
Attorneys.

2 Sheets--Sheet 1.

H. B. HAKES.

Improvement in Plows.

No. 131,679.

Patented Sep. 24, 1872.

Inventor
Henry B. Hakes

Witnesses:
Chas. H. H.
Geo. W. H.

2 Sheets--Sheet 2.

H. B. HAKES.

Improvement in Plows.

No. 131,679.

Patented Sep. 24, 1872.

Inventor
Henry B. Hakes

Witnesses:
Chas. H. H.
Geo. W. H.

T. J. BURGESS.

Plows.

No. 133,517

Patented Dec. 3, 1872.

Witnesses.
Helmuth G. Dayton
Hughes & Lockwood.

Thomas J. Burgess
per James A. Whiting
Atty

W. H. CONAWAY.

Plows.

No. 133,631.

Patented Dec. 3, 1872.

G. W. HOWE.
Reversible Plows.

No. 141,222.

Patented July 29, 1873.

Witnesses.
J. C. Davis
Henry Coleman

Inventor.
G. W. Howe

A. ANSCHUTZ, A. SEIDEL & M. WEBER.
Plows.

No. 144,308.

Patented Nov. 4, 1873.

Witnesses.
A. Moore
H. B. Miller

Inventors
A. Anschutz
A. Seidel
M. Weber
By Geo. W. Myers

J. S. HALL.
Plows.

No 144,760.

Patented Nov. 18, 1873

Witnesses.
G. Martin
George Chenoweth

Inventor.
John S. Hall
Per [Signature]
Attorneys.

J. P. DEXHEIMER.
Reversible Plows.

No 148,877

Patented March 24, 1874

Witnesses.
E. H. [Signature]
[Signature]

Inventor.
J. P. Dexheimer
Per [Signature]
Attorneys.

W. W. PARSONS.
Wheel Plows.

No. 151,617.

Patented June 2, 1874.

Witnesses.
E. H. Bates
George S. Upham

Inventor.
W. W. Parsons
Per [Signature]
Attorneys.

J. HARTMANN
Plows.

No. 151,776.

Patented June 3, 1874.

Witnesses.
[Signature]
G. C. [Signature]

Inventor.
J. Hartmann
Per [Signature]
Attorneys.

W. WARLICK.
Plows.

No. 152,886.

Patented July 7, 1874.

Witnesses:
G. B. Bowles
A. T. Lucy

Inventor:
William Warlick
By M. Burris Atty.

C. E. FULK & J. J. GOOD.
Plows.

No. 154,470.

Patented Aug. 25, 1874.

Witnesses:
H. A. Daniels
Carroll Miller

Inventors:
Charles E. Fulk
John J. Good
by H. H. Howard
Attorneys

F. BIEKER.
Plows.

No. 156,123.

Patented Oct. 20, 1874.

WITNESSES:
J. P. Theodore Lang,
C. L. Sweet.

INVENTOR
F. Bieker,
by Alexander Murray
Attorneys.

L. L. IVERSON.
Side-Hill Plows.

2 Sheets--Sheet 1.

No. 157,130.

Patented Nov. 24, 1874.

Witnesses:
H. E. K. G. G. G.
C. H. H. H.

Inventor
L. L. Iverson
by H. H. H. H.
Attorneys.

L. L. IVERSON.
Side-Hill Plows.

2 Sheets--Sheet 2

No 157,130.

Patented Nov. 24, 1874.

Witnesses:
H. H. Humphreys
E. J. Bailey

Inventor:
Louis L. Iverson
Chapman & Brown, C.
Attys

M. ELLIS.
Side-Hill Plows.

No. 157,200.

Patented Nov. 24, 1874.

Fig. 3

Witnesses:
C. J. Bailey
A. J. Terry

Inventor:
M. Ellis
By M. J. Terry
Attorneys

T. PARKER.
Plows.

No. 157,539.

Patented Dec. 8, 1874.

Witnesses:
C. J. Bailey
Robert Everett

Inventor:
Thomas Parker
Chapman & Brown, C.
Attorneys

T. S. MACOMBER
Plow

No. 159,338

Patented Feb. 2, 1875

Witnesses:
C. J. Bailey
A. J. Terry

Inventor:
T. S. Macomber
By M. J. Terry
Attorneys

C. H. STRATTON.
Side-Hill Plow.

No. 160,625

Patented March 9, 1875.

WITNESSES:

Charles H. Stratton
A. J. Terry

INVENTOR:

Charles H. Stratton
BY *Wm. H. Mumford*
ATTORNEY.

J. HAPGOOD.
Swivel-Plow.

2 Sheets--Sheet 1.

No. 163,589

Patented May 25, 1875.

WITNESSES

Charles H. Stratton
Wm. H. Mumford

INVENTOR:

John Hapgood

J. HAPGOOD.
Swivel-Plow.

2 Sheets--Sheet 2.

No. 163,589

Patented May 25, 1875.

WITNESSES:

Charles H. Stratton
Wm. H. Mumford

INVENTOR:

John Hapgood

J. McCABE.
Reversible Plow.

Patented June 1, 1875.

No. 164,014.

Attest:
Wm. H. Mumford
Wm. H. Mumford

INVENTOR:

James McCabe
By *James L. Porter*

N. I. KNAPP.
Side-Hill Plow.

No. 167,402.

Patented Sept. 7, 1875.

Witnesses
Jas L. Worne
C. H. Richardson

Inventor
Robert Dorset Knapp
by Henry W. Allen
his atty

M. R. HUBBELL.
Reversible Plow.

No. 168,157.

Patented Sept. 28, 1875.

Witnesses
E. W. Hoff
A. J. Tapp

Inventor
M. R. Hubbell
BY M. R. Hubbell
ATTORNEY

F. & J. H. CULVER.
COLTER.

No. 169,678.

Patented Nov. 9, 1875.

Fig. 4.

Fig. 3

Witnesses
Richard Consett
W. C. Adams

Inventors
F. Culver
J. H. Culver
C. W. Adams
ATTORNEYS

J. NEFF, Jr.
SIDE-HILL PLOW.

No. 172,928.

Patented Feb. 1, 1876.

Fig. 1.

Fig. 2.

Fig. 3.

Witnesses
John L. Soria
Charles Hetchum

Inventor
J. Neff, Jr.

S. E. WRISLEY.
SIDE-HILL PLOW.

No. 176,729.

Patented April 26, 1876.

WITNESSES:
Henry H. Miller
S. O. Hollingsworth

INVENTOR:
S. E. Wrisley
Alexander Watson
Attorney

H. F. & G. F. SHAW.
SIDE-HILL PLOW.

No. 177,080

Patented May 9, 1876.

WITNESSES:
W. C. B. Smith
H. W. Smith

INVENTORS:
Henry F. Shaw
George F. Shaw
per Geo. Sumner
Attys

W. I. GOSSETT & J. P. STARK.
PLOW.

No. 177,503

Patented May 16, 1876.

WITNESSES:
L. M. Miller
John G. Galt

INVENTOR:
W. I. Gossett
J. P. Stark
M. M. Miller
Attorneys

T. PARKER & J. DOWNING.
PLOW.

No. 177,955

Patented May 30, 1876.

WITNESSES:
Abel Smith
George C. Upham

INVENTORS:
Thomas Parker
James Downing
Chas. H. Smith & Co.
ATTORNEYS

J. HARTMANN.
REVERSIBLE FLOWS.

No. 180,713.

Patented Aug. 8. 1876.

WITNESSES.

Frank Rogers
Charles Truett

INVENTOR.

Jules Hartmann
by J. S. Newell
attorney

B. B. HAWSE.
FURROW-GAGE.

No. 183,162.

6 Sheets—Sheet 1.

Patented Oct. 10. 1876.

WITNESSES.

W. H. Bates
C. W. McManis

INVENTOR.

B. B. Hawse
by J. S. Newell
attorney

B. B. HAWSE.
FURROW-GAGE.

No. 183,162.

Patented Oct. 10. 1876.

6 Sheets—Sheet 2.

WITNESSES.

W. H. Bates
C. W. McManis

INVENTOR.

B. B. Hawse
by J. S. Newell
attorneys

B. B. HAWSE.
FURROW-GAGE.

No. 183,162.

Patented Oct. 10. 1876.

6 Sheets—Sheet 3.

WITNESSES
W. H. Bates
C. W. McManis

INVENTOR.

B. B. Hawse
by J. S. Newell
attorneys

E. B. HAWSE.
FURROW-GAGE.

5 Sheets—Sheet 4.

No. 183,162.

Patented Oct. 10, 1876.

WITNESSES
E. B. Hawse
Eugene Adamson

INVENTOR
Benjamin B. Hawse
Chas. W. Adams
ATTORNEYS

E. B. HAWSE.
FURROW-GAGE.

5 Sheets—Sheet 5.

No. 183,162.

Patented Oct. 10, 1876.

WITNESSES
E. B. Hawse
E. W. Adams

INVENTOR
Benjamin B. Hawse
Chas. W. Adams
ATTORNEYS

W. STRAIT.
SIDE HILL PLOWS.

No. 184,440.

Patented Nov. 14, 1876.

WITNESSES
Wm. Strait
Aug. C. Dutcher

INVENTOR
Wm. Strait
Wm. D. C. Allen
ATTY

W. STRAIT.
Assignor to C. E. VAN DUSEN & C. L. STRAIT.
Side-Hill Plow.

No. 9,116.

Reissued Mar. 9, 1880.

WITNESSES
Aug. C. Dutcher
Daniel Bred

INVENTOR
Wm. Strait

D. F. VICKERY & W. P. PRICKETT.
REVERSIBLE-FLOW.

No. 184,449.

Patented Nov. 14, 1876.

WITNESSES:

Francis M. Austin
John Costello

INVENTOR:

D. F. Vickery
W. P. Prickett
Attorneys

E. G. MATTHEWS.
FLOW

No. 187,160.

Patented Feb. 6, 1877.

WITNESSES:

Edwin C. Harris
H. W. Dodge

INVENTOR:

E. G. Matthews

E. C. HODGE.
REVERSIBLE FLOW

No. 189,558.

Patented April 17, 1877.

WITNESSES:

Samuel C. Harris
C. C. Church

E. C. Hodge
By H. W. Dodge
Attys.

J. GOGEL.
REVERSIBLE FLOW

No. 190,678.

Patented May 15, 1877.

WITNESSES:

Edwin C. Harris
H. W. Dodge

INVENTOR:

J. Gogel
By H. W. Dodge
Attys.

J. NOURSE
PLOW.

No. 194,257.

Patented Aug. 14, 1877.

Witnesses:
Oliver A. Hildrich.
George C. Burt.

Inventor:
J. Nourse

J. HARTMANN.
PLOW.

No. 194,428.

Patented Aug. 21, 1877.

WITNESSES:
W. W. Kellingsworth
Anna M. Hart

INVENTOR:
J. Hartmann
BY [Signature]
ATTORNEYS.

F. E. SESSIONS.
Plow.

No. 196,048.

Patented Oct. 9, 1877.

WITNESSES:
E. E. Moore
Alfred A. Baker.

INVENTOR
F. E. Sessions

W. A. COWLEY.
Plow.

No. 197,340.

Patented Nov. 20, 1877.

WITNESSES:
S. H. [Signature]
H. H. [Signature]

INVENTOR:
W. A. Cowley
Per. [Signature] [Signature]

S. A. KNOX.
Plow.

No. 198,028.

Patented Dec. 11, 1877

WITNESSES:

Wm. C. Dodge
Edmund A. Chase

INVENTOR:

Samuel A. Knox

J. HARTMANN.
Swivel-Plow.

No. 198,611.

Patented Dec. 25, 1877.

WITNESSES:

Wm. Hollingsworth
John S. Kinnon

INVENTOR:

Julius Hartmann

ATTORNEY.

C. DANIEL.
Reversible Plow.

No. 199,036.

Patented Jan. 8, 1878.

WITNESSES:

H. Rydquist
J. H. Carborough

INVENTOR:

C. Daniel
BY *M. M. M.*

ATTORNEYS.

B. F. MORRIS.
Reversible Plow.

No. 199,093.

Patented Jan. 8, 1878.

WITNESSES:

Mary A. Utley
J. J. H.

INVENTOR:

Bryan F. Morris
BY *E. C. Anderson*

ATTORNEY.

F. A. BARROWS.
Plow.

No. 199,493.

Patented Jan. 22, 1878.

WITNESSES:

Nat & Chapman
S. H. Ripk...

INVENTOR:

Francis A. Barrows.
per
Chas H. Fowler
Attorney.

P. BOUCHET.
Reversible Plow.

No. 199,954.

Patented Feb. 5, 1878.

WITNESSES:

Chas. N. ...
Edgwick

INVENTOR:

P. Bouchet
BY
Munroe
ATTORNEYS.

H. F. & G. F. SHAW.
Side-Hill Plow.

No. 200,413.

Patented Feb. 19, 1878.

Attest.

H. W. ...
H. C. ...

Inventors.

Henry F. Shaw.
George F. Shaw.
per
Edw. ...

J. NOURSE & J. A. HOWE.
Plow.

No. 201,281.

Patented March 12, 1878.

Witnesses:
C. F. ...
H. C. ...

Inventors:
J. Nourse
J. A. Howe

C. DANIEL.
Plow-Cutter.

No. 204,484.

Patented June 4, 1878.

WITNESSES:

Thomas Miller
C. S. Sargent

INVENTOR:

C. Daniel
BY Sumner

ATTORNEYS.

H. R. UNDERHILL.
Plow.

No. 204,513.

Patented June 4, 1878.

WITNESSES:

Thomas Miller
C. S. Sargent

INVENTOR:

H. R. Underhill
BY Sumner

ATTORNEYS.

J. W. BARNETT & T. J. HOBBS.
Side-Hill Plow.

No. 206,070.

Patented July 16, 1878.

WITNESSES:

Harry King
Wm. Brewster

INVENTORS:

John W. Barnett
Thomas J. Hobbs
BY Sumner

ATTORNEYS.

L. E. WILSON & J. E. McCANLES.
Side-Hill Plow.

No. 207,468

Patented Aug. 27, 1878.

Attest:

N. P. Goul
Geo. Bacon

Inventors

L. E. Wilson & J. E. McCanles
BY Sumner

S. F. WADLEIGH, O. N. & G. S. ROBERTS.
Plow.

No. 207,834.

Patented Sept. 10, 1878.

Witnesses
J. S. Dutcher
Geo. D. Patten

Inventors
Simon J. Wadleigh
Oren N. Roberts
George S. Roberts
J. S. Brown, their atty

S. F. WADLEIGH, O. N. & G. S. ROBERTS.
Plow.

No. 207,834.

Patented Sept. 10, 1878.

Witnesses
J. S. Dutcher
Geo. D. Patten

Inventors
Simon J. Wadleigh
Oren N. Roberts
George S. Roberts
J. S. Brown, their atty

W. STRAIT
Plow.

No. 208,048.

Patented Sept. 17, 1878.

Witnesses
J. S. Dutcher
Geo. D. Patten

Inventor
Wm. Strait
Geo. H. Allen, atty

N. M. FOWLER.
Plow, Harrow and Seed-Planter.

No. 208,082.

Patented Sept. 17, 1878.

Witnesses
J. S. Dutcher
Geo. D. Patten

Inventor
N. M. Fowler
J. S. Brown, atty

ATTORNEYS.

E. TATE
Hill-Side, Shovel and Sub-Soil Plow Combined.
No. 209,088. Patented Oct. 15, 1878.

WITNESSES
W. L. Gaudin
J. H. Gentry

INVENTOR
E. Tate
BY Alexander T. Watson ATTORNEYS

W. D. ARNETT
Sulky-Plow.
No. 209,374. Patented Oct. 29, 1878.

WITNESSES
R. D. H. ...
H. ...

INVENTOR
W. D. Arnett

C. M. LUFKIN.
Swivel-Plow.
No. 209,697. Patented Nov. 5, 1878.

Witness
Walter C. Lufkin
Emma F. Bunge

INVENTOR
Charles M. Lufkin

W. E. CONNELLY.
Hill-Side Plow.
No. 213,095 Patented Mar. 11, 1879.

Witnesses
H. Ruppert
James H. Range

INVENTOR
William E. Connelly
per Wilson ...
Attorneys

J. NOURSE & J. A. HOWE.
Swivel-Plow.

No. 216,443.

Patented June 10, 1879.

Witnesses:
Edmund H. Smith
G. C. Jones

Inventors:
J. Nourse
J. A. Howe

G. W. PETERSON.
Hill-Side Plow.

No. 216,448.

Patented June 10, 1879.

Witnesses:
John C. Allen
E. J. Chase

Inventor:
G. W. Peterson
Attorney

L. S. EDLEBLUTE.
Plow.

No. 217,594.

Patented July 15, 1879.

Witnesses:
W. H. Wellington
C. J. By

Inventor:
L. S. Edleblute
BY Wm. L. G.
ATTORNEYS.

L. CHAPMAN.
Reversible Sulky-Plow.

No. 219,219.

Patented Sept. 2, 1879.

Witnesses:
J. B. Taylor
Ours Perry

Inventor:
L. Chapman
BY Wm. L. G.
ATTORNEYS.

3 Sheets—Sheet 2.

L. CHAPMAN.
Reversible Sulky-Plow.

No. 219,219.

Patented Sept. 2, 1879.

3 Sheets—Sheet 3.

L. CHAPMAN.
Reversible Sulky-Plow.

No. 219,219.

Patented Sept. 2, 1879.

L. CHAPMAN.
Reversible-Plow.

No. 219,220.

Patented Sept. 2, 1879.

2 Sheets—Sheet 1.

H. WIARD & W. R. BULLOCK.
Hillside Plow.

No. 220,453.

Patented Oct. 7, 1879.

H. WIARD & W. R. BULLOCK.
Hillside Plow.

3 Sheets—Sheet 2

No. 220,453

Patented Oct. 7, 1879.

Witnesses:

Alex. Scott
Augustus Wingate

Inventor:

Hany Ward
W. R. Bullock
by J. H. Greenough
Attys

O. HASKIN.
Reversible-Plow.

No. 221,457.

Patented Nov. 11, 1879.

Witnesses

Geo. H. Strong.
Frederick A. Brooks

Inventor

O. Haskin
by Dewey & Co.
Attys

H. R. ACKLEY.
Plow.

No. 222,979.

Patented Dec. 30, 1879.

FIG. 1.

FIG. 2.

FIG. 3.

Witnesses

Sam'l R. Loomis
J. B. Woodbury

Inventor

Hiram R. Ackley

by R. S. & M. Lacey Attys

W. L. BARTON.
Plow.

No. 222,980.

Patented Dec. 30, 1879.

Witnesses;
Wm. S. Dutcher
W. L. Barton

Inventor,
William L. Barton
by Chas. H. Wood Co.

C. C. BROOKS.
Reversible Plow.

No. 224,136.

Patented Feb. 3, 1880.

E. G. MATTHEWS.
Plow

No. 224,455.

Patented Feb. 10, 1880.

H. SATTLER.
Plow.

No. 225,077.

Patented Mar. 2, 1880.

F. C. BRYAN.
Sulky-Plow

No. 225,105

Patented Mar. 2, 1880

J. P. HOLLEY.
Swivel Plow and Colter.

No. 225,134.

Patented Mar. 2, 1880.

WITNESSES
Blair Powell
Chas. G. Sage

INVENTOR
Jeremy P. Holley
Edmond Smith
ATTORNEYS

J. L. & G. L. WOODBURY.
Reversible Plow.

No. 225,452.

Patented Mar. 9, 1880.

WITNESSES
L. R. Barton
G. A. Willard

INVENTORS.
Joseph L. Woodbury
George L. Woodbury
By *Chas. H. Burleigh*
ATTORNEY.

P. S. SWARTZ & A. ARNOT.
Plow.

No. 226,567.

Patented April 13, 1880.

WITNESSES
P. Swartz
C. Rogers

INVENTOR:
P. Swartz
A. Arnot
BY *Mum & Co.*
ATTORNEYS.

A. S. CLOUGH.
Reversible Plow.

No. 232,001.

Patented Sept. 7, 1880.

WITNESSES
Edw. J. L. Lusk
J. C. Long

INVENTOR.
Asa S. Clough
By *J. S. Brown*
ATTORNEY.

W. STRAIT.
Side Hill Plow.

No. 233,046

Patented Oct. 5, 1880.

Witnesses:
Hed G. Dietrich
Daniel Brud.

Inventor
Wm Strait

(No Model.)

B. J. LESLIE.
Reversible Plow.

No. 235,156.

Patented Dec. 7, 1880.

Witness
G. H. Hesser
Harry Duff

Inventor
Benjamin J. Leslie,
by Lull Hovea,
Attorney.

(No Model.)

J. HARTMANN.
Reversible Plow.

No. 239,773.

Patented April 5, 1881.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Witnesses:
C. Kewer
C. Sengstack

Inventor:
J. Hartmann
BY *M. H. C.*
ATTORNEYS.

(No Model.)

F. F. HOLBROOK & E. S. MOULTON.
Plow.

No. 241,861.

Patented May 24, 1881.

Fig. 2

Witnesses:
H. H. Chiswick
W. P. Noble Jr

Inventors
Franklin F. Holbrook
E. S. Moulton
H. H. Chiswick, New York

(No Model.) 3 Sheets—Sheet 2.
F. F. HOLBROOK & E. S. MOULTON.
Plow.

No. 241,861.

Patented May 24, 1881.

Witnesses:

H. H. Chas. J.
W. P. Peck Jr.

Inventors:

Franklin F. Holbrook
E. S. Moulton
Attorneys

(No Model.) 3 Sheets—Sheet 3.
F. F. HOLBROOK & E. S. MOULTON.
Plow.

No. 241,861.

Patented May 24, 1881.

Witnesses:

H. H. Chas. J.
W. P. Peck Jr.

Inventors:

Franklin F. Holbrook
E. S. Moulton

4 Sheets—Sheet 1.
F. F. HOLBROOK & E. S. MOULTON.
Plow.

No. 9,760.

Reissued June 14, 1881.

Witnesses:

Henry P. Hollingsworth
W. P. Peck Jr.

Inventors:

Franklin F. Holbrook
E. S. Moulton
By their Attorneys,
Stansbury & Munn.

4 Sheets—Sheet 2.
F. F. HOLBROOK & E. S. MOULTON.
Plow.

No. 9,760.

Reissued June 14, 1881.

Witnesses:

Henry P. Hollingsworth
W. P. Peck Jr.

Inventors:

F. F. Holbrook
E. S. Moulton
By their Attorneys,
Stansbury & Munn.

P. F. HOLBROOK & E. S. MOULTON.

Plow.

No. 9,760.

Reissued June 14, 1881.

4 Sheets—Sheet 3

Witnesses.

Inventors.

Simeon P. Holbrook
W. H. Moulton

Franklin B. Holbrook
E. S. Moulton
Be their Attorneys.
Stanford & Mann

P. F. HOLBROOK & E. S. MOULTON.

Plow.

No. 9,760.

Reissued June 14, 1881.

4 Sheets—Sheet 4

Witnesses.

Inventors.

Simeon P. Holbrook
E. S. Moulton
Be their Attorneys.
Stanford & Mann

Franklin B. Holbrook
E. S. Moulton
Be their Attorneys.
Stanford & Mann

(Model.)

H. SATTLER.
Hillside Plow.

No. 242,697.

Patented June 7, 1881.

Witnesses.

Inventor.

H. N. Holbrook
W. H. Moulton

H. Sattler
Be his Attorney.
F. A. Schumann atty

(No Model.)

W. A. COWLEY.
Side Hill Plow.

No. 242,757.

Patented June 14, 1881.

Witnesses.
S. B. Chapman
L. C. Thompson

Inventor:
William A. Cowley

(Model.)

J. S. FELT.
PLOW.

3 Sheets—Sheet 1

No. 249,234.

Patented Nov. 8, 1881.

FIG. 1.

FIG. 2.

WITNESSES:

Chas. H. Kimball,
Wm. J. Goodwin

INVENTOR:

Jesse S. Felt
Clifford and Clifford
his attys.

(Model.)

J. S. FELT.
PLOW.

3 Sheets—Sheet 2

No. 249,234.

Patented Nov. 8, 1881.

FIG. 3.

FIG. 4.

WITNESSES:

Chas. H. Kimball,
Wm. J. Goodwin

INVENTOR:

Jesse S. Felt
Clifford and Clifford
his attys.

(Model.)

J. S. FELT
PLOW.

3 Sheets—Sheet 3

No. 249,234.

Patented Nov. 8, 1881.

FIG. 5.

FIG. 6.

FIG. 7.

FIG. 8.

WITNESSES:

Chas. H. Kimball,
Wm. J. Goodwin

INVENTOR:

Jesse S. Felt
Clifford and Clifford
his attys.

(Model.)

J. KONIG.
PLOW.

No. 251,446.

Patented Dec. 27, 1881.

WITNESSES

J. A. Butcher
D. A. Bailey

INVENTOR

Jules König

BY

C. W. Williams
ATTORNEY

(No Model)

J. G. ANDERSON.
HILLSIDE PLOW.

No. 264,585.

Patented Mar. 7, 1882.

Witnesses:
Edw. Russell
J. H. KnickerbockerInventor
J. G. Anderson
by James E. Norris.

(No Model)

W. H. DURFEE
SIDE HILL PLOW.

No. 268,288.

Patented May 23, 1882.

WITNESSES:

H. J. Miller
Wm. L. ...

INVENTOR:

William H. Durfee
by Joseph A. ...

(No Model)

W. H. DURFEE.
SIDE HILL PLOW.

2 Sheets—Sheet 2

No. 268,288.

Patented May 23, 1882.

Fig. 3.

Fig. 4.

WITNESSES:

H. J. Miller
Edw. L. ...

INVENTOR:

William H. Durfee
by Joseph A. ...

(No Model)

J. H. FELDMANN
HILLSIDE PLOW.

No. 259,836.

Patented June 20, 1882.

Fig. 2.

Fig. 4.

Fig. 3.

Fig. 5.

Fig. 6.

Attest:

Charles Hobbs
Geo. H. ...

INVENTOR:

John H. Feldmann
by Joseph A. ...

(No Model.)

S. F. WOODWORTH.

PLOW.

No. 262,716.

Patented Aug. 15, 1882.

Witnesses:
E. W. Leach
Ernest S. Lohr

Inventor:
S. F. Woodworth

(Model.)

R. I. KNAPP.

SIDE HILL PLOW.

No. 265,328.

Patented Oct. 3, 1882.

Witnesses:
E. H. Strong
Frank H. Smith

Inventor:
R. I. Knapp
J. D. Wright & Co. Atty.

(Model.)

J. A. HOWE, Dec'd.

(E. W. Howe, Administrator.)

SWIVEL PLOW.

No. 266,627.

Patented Oct. 31, 1882.

Witnesses:
C. May, Jr.
H. J. McElroy

Inventor:
E. W. Howe Administrator
of James A. Howe deceased
By Geo. C. Burt Attorney

(Model.)

J. A. HOWE, Dec'd.

(E. W. Howe, Administrator.)

SWIVEL PLOW.

No. 266,627.

Patented Oct. 31, 1882.

Witnesses:
C. May, Jr.
H. J. McElroy

Inventor:
E. W. Howe Administrator
of James A. Howe deceased
By Geo. C. Burt Attorney

(No Model.)

L. SCHMIDT.
PLOW.

No. 267,724.

Patented Nov. 21, 1882.

(No Model.)

F. C. BRYAN.
WHEEL PLOW

No. 269,002.

Patented Dec. 12, 1882.

STANDARDS.

Avery, G. C.	991	609	Lane, J.	986	607	Semmes, R. T.	991	609
Boger, H.	987	607	Lindahl, D.	992	609	Smith, A. B.	987	607
Brannan, F. P.	986	607	Loeb, P.	987	607	Speer, W. W.	989	608
Brinly, T. E. C.	985	607	McMeekin, F. W.	985	607	Speer, J. T.	989	608
Brown, W. P.	991	609	Mead, S.	989	608	Templin, T. T.	991	609
Daniels, W. H.	988	608	Meikle, T.	990	608	Van Every, C. M.	987	607
Finnegan, J.	990	608	Monroe, J. H.	989	608	Warlick, N.	985	607
Hart, G. D.	986	607	Phillips, J.	988	608	Young, W. B.	985	607
Haven, G. S.	990	608	Pope, S. W.	986	607			
Kearney, B. S.	988	608	Ryan, J. F.	990	608			

*N. M. Meekin**Plow**No. 4180**Patented Dec 20, 1865.* *N. E. Young**Plow**No. 4181**Patented Dec 20, 1865*

Witnesses

Wm. H. Young

Inventor

*N. E. Young**P. M. McMeekin**Plow**No. 58119**Patented Sep. 18, 1866*

Witnesses
M. M. Thompson
Wm. Thompson

Inventor
P. M. McMeekin
John McMeekin
Attorney

*T. E. C. Brinly**Plow**No. 71968**Patented Dec 10, 1867*

Witnesses
Wm. H. Young
X. Murphy

T. E. C. Brinly
 Inventor

by
D. P. Hollaway
his atty.

P. T. T. T.
Improvement.

No. 78,003

Patented May 18, 1868.

Witnesses:
W. H. H. H.

Inventor:
George S. Hunt
by *R. H. H. H.*

J. Lane,
Flow

No. 104,964.

Patented July 5, 1870.

Witnesses:
J. A. Lane,
Ernest J. Lane

Inventor:
John Lane

S. W. Pope,
Flow.

No. 105,862.

Patented July 26, 1870.

Witnesses:
S. W. Pope
L. J. Pope

Inventor:
S. W. Pope
by *L. J. Pope*

F. P. BRANNAN.

Improvement in Plows.

No. 131,596.

Patented Sep. 24, 1872.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Witnesses:
John D. Baker
C. D. Baker

Inventor:
F. P. Brannan
by *W. H. H. H.*
Attorneys.

A. B. SMITH.

Improvement in Plows.

No. 132,779.

Patented Nov. 5, 1872.

WITNESSES—

D. J. Brown
C. H. Crookston

A. B. Smith
By him, atty
J. L. Brown

P. LOEB.

Plows.

No. 140,053

Patented June 17, 1873.

WITNESSES

Wm. L. Brown
Chas. F. Steele

INVENTOR

P. Loeb
Witnesses
Wm. L. Brown
Chas. F. Steele

C. M. VAN EVERY.

Plows.

No. 157,892.

Patented Dec. 15, 1874

WITNESSES:
J. H. Dutton
A. J. Ferry

INVENTOR
C. M. Van Every
BY
M. M. M. M.
ATTORNEYS.

H. BORGER
Plow-Standard.

No. 161,095

Patented March 23, 1875

2 Sheets—Sheet 1

Witnesses:

Sylvanus Miller
Charles Miller

Inventor.

Henry Borger
Charles H. Miller
Att. in p.

H. BORGER.
Plow-Standard.

2 Sheets--Sheet 2

No. 161,095

Patented March 23, 1875.

Witnesses:
M. B. O'Leary
H. W. Hardington.

Inventor
Henry Borger
per Charles H. Parker
Att.

W. H. DANIELS
Plow.

No. 168,235.

Patented Sept. 28, 1875.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES=

Joseph L. Chipman
J. H. Parker

INVENTOR.

W. H. Daniels
Edmond B. Smith
Attorneys

J. PHILLIPS.
Plow.

No. 170,764.

Patented Dec. 7, 1875.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

WITNESSES:

E. Woff
Alex. F. Roberts

INVENTOR.

J. Phillips
Attorneys

E. S. KEARNEY.
Plow.

No. 174,539.

Patented March 7, 1876.

Fig. 1

WITNESSES

David Smith
Geo. H. Lauer

INVENTOR.

Benjamin S. Kearney
Attorneys

S. MEAD.
FLOW.

No. 176,188.

Patented April 18, 1876.

WITNESSES:

Charles O. Dunn

Wm. D. Mead.

INVENTOR

Solomon Mead

J. H. MONROE.
FLOWS.

No. 178,454.

Patented June 6, 1876.

Fig. 1

Fig. 2

WITNESSES-

Chas. H. Hale
S. K. Brown

INVENTOR

John H. Monroe
James H. Brown
Washington, D. C.

W. W. SPEER.
FLOW-STANDARD

No. 183,823.

Patented Oct. 31, 1876.

Fig. 1.

Fig. 2.

WITNESSES

Chas. H. Nottingham
Albert H. Bright

INVENTOR

W. W. Speer

By Suggett & Suggett,
ATTORNEYS

J. T. SPEER.
FLOWS

No. 195,660.

Patented Sept. 26, 1877

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES

Chas. H. Nottingham
Albert H. Bright

INVENTOR

Joseph T. Speer.
By Suggett & Suggett,
ATTORNEYS

J. FINNEGAN.
Plow.

No. 197,623.

Patented Nov. 27, 1877.

Attest:
H. L. Gull.
W. P. Harding

Inventor:
J. Finnegan
By Atty.
H. L. Sprague

J. F. RYAN.
Plow-Standard.

No. 206,830.

Patented Aug. 6, 1878.

WITNESSES
James J. Shieley

Inventor:
J. F. Ryan
By Atty.
James J. Shieley

ATTORNEYS.

G. S. HAVEN.
Plow.

No. 208,680.

Patented Oct. 8, 1878.

Attest:
James Harding
Frank J. Gibson

Inventor:
George S. Haven

T. MEIKLE.
Plow-Standard.

No. 209,284.

Patented Oct. 22, 1878.

Witnesses:
A. R. R. R.
D. R. R.

Inventor:
T. Meikle
By Atty.
D. R. R.

W. P. BROWN.
Plow Attachment.

No. 216,146.

Patented June 3, 1879.

WITNESSES:
Paul Cook
Al. Day Smith.

INVENTOR:
William P. Brown
BY *Edmore Smith & Co.*
ATTORNEYS

G. C. AVERY.
Plow-Standard.

No. 218,417.

Patented Aug. 12, 1879.

WITNESSES:
J. P. McLaughlin
Th. J. McLaughlin

INVENTOR:
George C. Avery
BY *Wm. Frank Brown*

R. T. SEMMES.
Plow.

No. 225,425.

Patented Mar. 9, 1880.

WITNESSES:
W. W. Hollingsworth
E. Lee W. J. Jr.

INVENTOR:
R. T. Semmes
BY *Wm. L. Semmes*
ATTORNEYS

(No Model.)

T. T. TEMPLIN.
Plow.

No. 232,315.

Patented Sept. 14, 1880.

WITNESSES:
W. M. W. W.
J. M. W. W.

INVENTOR:
T. T. Templin
BY *Wm. L. Semmes*
ATTORNEYS

D. LINDAHL.

FLOW.

No. 251,370.

Patented Dec. 27, 1881.

WITNESSES.

S. B. Ground

W. L. Adams

INVENTOR-

Daniel Lindahl
per M. P. Drayton
Attorney.

STEAM.

Plate Claim		Plate Claim		Plate Claim	
Allen, I. S., Browen, M. P.		Greig, D. and Head, J.	1010 625	Millen, W. H. H.	1006 623
and Moulthrop, C. W.	1028 632	Fowler, J. Jr.	1012 626	Miller, H.	1026 631
Bassett, S. K.	1002 621	Fowler, J. Jr. Worby, W.		Moeser, H.	999 620
Beard, J.	1032 633	and Greig, D.	1013 626	Northcott, J. H.	1018 629
Beaumont, D.	1031 632	Fowler, J. Jr. Greig, D.		Olmsted, O. A.	1032 633
Beckett, W.	1021 629	and Noddings, R.	1013 626	Otis, E. G.	998 620
Bellinger, E. C.	995 619	Foye, W. H.	1035 635	Paine, H. E.	1015 627
Benson, B. S.	1031 633	Foye, W. H.	1035 634	Ramsay, G. M.	997 620
Benson, B. S.	1034 634	Gardner, J. M.	1044 640	Ramsay, G. M.	1003 622
Benson, B. S.	1039 636	Gatling, R. J.	997 619	Redmond, O.	1014 626
Benson, B. S.	1040 638	Gibbs, L. H.	1024 630	Reynolds, J.	1007 623
Benson, B. S.	1041 638	Giles, J.	1029 632	Reynolds, S. G.	1010 625
Bibb, W. C.	1026 631	Goddard, S. P.	1032 633	Rose, R. E.	1039 636
Bigelow, A.	1004 622	Goodell, J. W.	1002 621	Rider, Z.	1025 631
Bonham, G. W.	1010 625	Gray, J. R.	998 620	Romaine, R.	997 619
Bostwick, C. B.	1038 636	Gray, N. A.	1011 625	Saladee, C. W.	1008 624
Brott, G. F.	1032 633	Gray, N. A.	1016 628	Shaw, P.	997 619
Brown, E.	1037 635	Gwynn, S.	1005 622	Shotwell, S. L. and Hicks,	
Brutschke, F.	1042 638	Hall, A. W.	1011 625	S. R.	1008 624
Burridge, T. H.	1005 622	Hawkins, J.	1002 621	Simonson, G.	1013 626
Cowing, H.	995 619	Heydrick, W. H. H.	1014 627	Smith, J. K.	1008 624
" " (R)	996 619	Heydrick, W. H. H.	1025 631	Speer, J.	1005 622
Creuzbaur, R.	1023 630	Hope, J. D.	995 619	Spencer, D. B.	998 620
Curtis, J.	1012 626	Hyde, O.	1033 630	Standish, P. H.	1015 627
Darby, T. C.	1036 635	Hyde, O.	1027 631	Stark, T. C.	1031 632
Delavigne, J. C.	1016 628	Johnson, C. F. Jr.	1013 626	Stevens, A. J.	1019 629
Evans, J. W.	1002 621	Jones, E. C.	999 620	Stewart, L.	1018 629
Evans, J. W.	1030 632	Jones, J.	1001 621	Stoddard, W.	1000 621
Eyth, M.	1917 928	Kellogg, H.	999 620	Stone, R.	1044 640
Fawkes, J. W.	999 620	Kennedy, A. L.	1022 630	Taveau, A. L.	1020 629
" " (R)	1000 621	Klingde, P.	1000 621	Thayer, A. P.	1011 625
Fawkes, J. W.	1003 622	" " (R. I.)	1001 621	Tice, I. P.	1024 630
Fawkes, J. W.	1010 625	Knapp, J. G.	1020 620	Tounley, E. A. and Fried-	
Fogarty, J.	1030 632	Locher, C.	1016 628	rich, E. S.	1017 628
Fogarty, J.	1033 633	Lynn, M. N.	1021 629	Ward, W. E.	998 620
Fogarty, J. H.	1042 639	Lyna, M. N.	1025 631	Wilkins, S. B.	1018 628
Fowler, J. Jr.	1007 623	McCray, T. H.	1036 635	Willard, G.	1015 627
Fowler, J. Jr.	1007 623	McCray, T. H.	1036 635	Wilson, J. T.	1022 630
Fowler, J. Jr. and Greig,		McDonald, P. J.	1028 631	Woodruff, T. T.	1043 639
D.	1007 623	McGaughey, A. E. and		Woolfolk, L. B.	1004 622
Fowler, J. Jr.	1009 624	S. N.	1003 622	Woolfolk, L. B.	1004 622
Fowler, J. Jr. and Worby,		McGaughey, A. E.	1027 631	Yost, G. W. N.	1001 621
W.	1009 624	McLean, J. W.	1003 622		
Fowler, J. Jr. Burton, R.		Marquis, J.	1016 628		

E. C. BELLINGER.

Steam-Plow.

Patented Nov. 19, 1882.

J. D. Hoge.

Steam Plow.

Nº 7,416.

Patented Jan. 4, 1850.

Sheet 1, 3 Sheets.

H. C. Cawing.

Steam Plow.

Nº 7,795.

Patented Nov. 20, 1850.

Sheet 1, 3 Sheets.

H. C. Cawing.

Steam Plow.

Nº 7,795.

Patented Nov. 20, 1850.

*H. Cowing**Sheet 3, Sheet 5**Steam Plow**N^o 3,795**Patented Nov. 20, 1859* *H. Cowing**Sheet 1, 3, Sheet 5**Steam Plow**N^o 1,041**Reissued Sept. 11, 1860* *H. Cowing**Sheet 2, Sheet 5**Steam Plow**N^o 1,041**Reissued Sept. 11, 1860* *H. Cowing**Sheet 3, Sheet 5**Steam Plow**N^o 1,041**Reissued Sept. 11, 1860*

P. Shaw
Steam Plow

N^o 10,616

Patented Mar. 11, 1854.

R. Romane

Steam Plow

N^o 18,447

Patented Feb. 27, 1855.

R. J. Canby
Steam Plow

N^o 16,476

Patented Jan. 27, 1857.

G. M. RAMSAY.

Steam Plow.

No. 16,807.

Patented Mar. 10, 1857.

D. B. SPENCER

Steam Plow.

No. 16,937.

Patented Mar. 31, 1857.

J. R. GRAY

St am-Plow.

No. 18,446.

Patented Oct. 20, 1857.

E. G. OTIS.

Steam-Plow

No. 18,468

Patented Oct. 20, 1857.

W. E. WARD.

Steam Plow.

No. 18,479.

Patented Oct. 20, 1857.

Witnesses
W. H. Huber,
for the Inventor

Inventor
J. S. Huber

H. MOESER
Steam-Plow

No. 18,626

Patented Nov 10 1857

E C JONES
Steam-Plow

No. 18,749

Patented Dec 1 1857

H. Kellogg
Steam Plow.

No. 18,653

Patented Dec 15, 1857

J W Faucher
Steam Plow.

No. 19,189.

Patented Jan. 26, 1858

J. W. Hawkes.
Steam Plov.

N^o 855.

Patented Nov. 22, 1859.

W. Stoddard.
Steam Plov.

David Stoddard

N^o 12,215.

Patented Jan. 26, 1858.

Witness
Geo. W. Allen
Geo. W. Allen

Inventor
Wm. Stoddard

W. Stoddard.
Steam Plov.

David Stoddard

N^o 12,215.

Patented Jan. 26, 1858.

Witness
Geo. W. Allen
Geo. W. Allen

Inventor
Wm. Stoddard

P. Mingle.
Steam Plov.

Sheet 1, of 2 Sheets

N^o 4,424.

Patented Feb. 21, 1857.

Witness
Henry M. Allen
H. M. Allen

Inventor
P. Mingle

J. W. Evans.

Steam-Flow.

No. 21,661

Patented Oct. 5, 1859

Witnesses
J. B. Smith
J. W. Evans

Inventor
J. W. Evans

S. K. BASSETT.

Steam-Flow.

No. 22,848

Patented Feb. 8, 1859

WITNESSES:
J. B. Smith
S. K. Bassett

INVENTOR
S. K. Bassett

J. W. GOODELL.

Steam-Flow.

No. 23,767

Patented Apr. 26, 1859

Witnesses
J. B. Smith
J. W. Goodell

Inventor
J. W. Goodell

J. HAWKINS.

Steam-Flow.

No. 25,826

Patented Oct. 18, 1859

Witnesses:
J. B. Smith
J. Hawkins

Inventor
J. Hawkins

A E & S N McGAUGHEY

Steam-Plow

No. 21,279

Patented Nov. 29, 1856

Witnesses:
J. A. Adams
J. B. Bailey

Inventor:
A. E. & S. N. McGaughey

W. McLean
Steam-Plow

No. 26,397

Patented Feb. 10, 1859

Witnesses:
H. I. Bell
J. R. Thompson

Inventor:
W. McLean

J. W. FAWKES

Steam-Plow

No. 26,422

Patented Dec. 13, 1859

WITNESSES:
S. H. Adams
J. B. Bailey

INVENTOR:
J. W. Fawkes

G. M. RAMSAY.

Steam-Plow.

No. 27,242.

Patented Feb. 21, 1860.

Witnesses:
C. H. Adams
J. B. Bailey

Inventor:
G. M. Ramsay

*A. Bigelow**Steam Flow**N^o 28,752**Patented Jun. 19, 1860* *L. E. Woolfolk**Steam Sheets**Steam Flow**N^o 28,801**Patented Jun. 19, 1860* *L. E. Woolfolk**Steam Sheets**Steam Flow**N^o 28,801**Patented Jun. 19, 1860*

Witnesses
L. M. Alexander
A. H. Yeatman

Inventor
L. E. Woolfolk

*L. B. Woolfolk**Steam Flow**N^o 28,933**Patented Jun. 20, 1860*

Witnesses,
Chas. Alexander
A. H. Yeatman

Inventor,
L. B. Woolfolk

*T. H. Burridge.**Steam Plow**N^o 29,358**Patented Jul. 31, 1860* *J. Speer.**Steam Plow**N^o 29,413.**Patented Jul. 31, 1860*

Witnesses,
W. H. H. H.
H. H. H. H.

Inventor,
J. Speer

*S. Gwynn.**Sheet 1, 552065.**Steam Spader.**N^o 29,782. Patented Aug. 28, 1860.*

Witnesses,
W. H. H. H.
C. Ring

Inventor,
S. Gwynn
Per
A. Pollak Atty

*S. Gwynn**Sheet 2, 552065.**Steam Spader**N^o 29,782. Patented Aug. 28, 1860*

Witnesses,
W. H. H. H.
C. Ring

Inventor,
S. Gwynn
Per
A. Pollak Atty

Sheet 3, of Sheet 12.

S. Gwynn
Steam Spader
N° 29,782. Patented Aug. 28, 1860.

Witnesses,
W. Fairfax
E. Ring.

Inventor,
S. Gwynn
Per A. Polak Atty

Sheet 4, of Sheet 12.

S. Gwynn
Steam Spader
N° 29,782. Patented Aug. 28, 1860.

Witnesses,
W. Fairfax
E. Ring.

Inventor,
S. Gwynn
Per A. Polak Atty

S. Gwynn
Steam Spader
N° 29,782. Patented Aug. 28, 1860.

Witnesses,
W. Fairfax
E. Ring.

Inventor,
S. Gwynn
Per A. Polak Atty

W. H. H. Miller
Steam Plow

N° 30,894.

Patented Dec. 11, 1860.

Witnesses,
W. H. H. Miller
E. Ring.

Inventor,
W. H. H. Miller
Per A. Polak Atty

J. Reynolds.

Steam Plow.

N^o 30,916

Patented Dec. 18, 1860.

J. Fowler Jr.

Steam Plow.

N^o 32,025

J. Fowler Jr.

Steam Plow.

*N^o 1,082,
32,080*

Fig. 1.

Patented Nov. 1, 1861.

Fig. 2.

Witnesses
H. H. H. H.

Inventor
J. Fowler Jr.

Sheet 1, of 2 Sheets

Fowler, Jr. & Gray

Steam Plow.

*N^o 1,082,
32,080*

Patented Nov. 4, 1861.

Howler, Jr. & Greig.

Steel & 2 Sheets

Steam Plov

*N^o 1,023
32,047.*

Patented Apr. 9, 1861.

J. K. Smith.

Steam Plov

*N^o 1,149
32,153*

Patented for R. 3, 1861

Shattell & Harris.

*N^o 1,133
32,437*

Steam Plov

Patented May 28, 1861.

C. M. Saladee.

Steel 1, 3 Sheets

Steam Plov

*N^o 1,618
32,652.*

Patented Jan 25, 1861.

C. M. Saladee.
Steam Flour

Sheet 2, 3 Sheets

N^o 1,648.
32,652

Patented Jan. 25, 1861

C. M. Saladee.
Steam Flour

Sheet 3, 3 Sheets

N^o 1,648
32,652

Patented Jan. 25, 1861

J. Fowler, Jr.
Steam Flour

N^o 1,805
38,810

Patented Jul. 9, 1861

Fowler & Worby
Steam Flour

N^o 1,806
38,810

Patented Jul. 9, 1861

Fowler, J. Burton, George & Head.
Steam Plow

N^o 3,908
32,912

Patented Jan. 23, 1861.

Witnesses
J. H. Smith
W. H. Hall

Inventors
J. H. Smith
W. H. Hall
J. H. Smith
J. H. Hall

J. M. Fawkes.

Steam Plow

N^o 2,878
33,882

Patented Dec. 10, 1861

Witnesses
J. H. Smith
W. H. Hall

Inventor
J. M. Fawkes
J. H. Smith
W. H. Hall

C. W. Bonham.

Steam Plow

N^o 34,049.

Patented Jan. 7, 1862.

Witnesses
J. H. Smith
W. H. Hall

Inventor
C. W. Bonham
J. H. Smith
W. H. Hall

S. G. Reynolds.

Steam Plow.

N^o 35,261.

Patented May 13, 1862.

Witnesses
J. H. Smith
W. H. Hall

Inventor
S. G. Reynolds
J. H. Smith
W. H. Hall

A. W. Hall.
Steam Pump

N^o 38,860

Patented Apr. 11, 1863

M. A. Gray.
Steam Pump

N^o 40,403

Patented Oct. 27, 1863

A. P. Thayer.
Steam Pump

N^o 40,717

Patented Nov. 24, 1863

A. P. Thayer.
Steam Pump

N^o 40,717

Patented Nov. 24, 1863

*S. Curtis**Sheet 2 of 2 Sheets**Steam Plow**N^o 44,077**Patented Sep 6, 1864.**Fig 1*

Witnesses,
Henry Watson
J. Gardner Bell

Inventor,
S. Curtis

*S. Curtis**Sheet 2 of 2 Sheets**Steam Plow**N^o 44,077.**Patented Sep 6, 1864.*

Witnesses,
Henry Watson
J. Gardner Bell

Inventor,
S. Curtis

*J. Fowler, Jr.**Sheet 1, 2 Sheets**Steam Plow**N^o 45,892.**Patented Jan 10, 1865.*

Witnesses,
H. B. Burt
J. Gardner Bell

Inventor,
J. Fowler, Jr.

*J. Fowler, Jr.**Sheet 2, 2 Sheets**Steam Plow**N^o 45,892.**Patented Jan 10, 1865.*

Witnesses,
H. B. Burt
J. Gardner Bell

Inventor,
J. Fowler, Jr.

C. F. Johnson, Jr.

Steam Pump

Nº 49,761

Patented Sept 5, 1865.

C. Simonsen.

Steam Flow

Nº 51,221

Patented April 4, 1866

J. Fowler, Jr., W. Morby & D. Greig

Steam Flow

Nº 57,652

Patented Aug 18, 1866

J. Fowler, Jr., W. Morby & D. Greig

Steam Flow

Nº 57,653

Patented Aug 18, 1866

J. T. Ford & D. Carig & F. Meddings.

Steam-Flow.

No. 57,653.

Patented May 29, 1896.

Witnesses
J. T. Ford
D. Carig
F. Meddings

Inventors.
J. T. Ford
D. Carig
F. Meddings

O. Redmond.

Steam-Flow.

No. 69,073.

Patented Oct. 23, 1896.

Witnesses
O. Redmond
J. Redmond

Inventor
O. Redmond

W. H. H. HEYDRICK

2 Sheets—Sheet 1

Steam-Flow.

No. 68,247.

Patented Mar. 26, 1897

Witnesses
W. H. Heydrick
Chas. H. Heydrick

Inventor.
W. H. Heydrick
Chas. H. Heydrick
Attorney

W. H. H. HEYDRICK.

2 Sheets—Sheet 2

Steam-Flow.

No. 68,247

Patented Mar. 26, 1897

Witnesses
W. H. Heydrick
Chas. H. Heydrick

Inventor
W. H. Heydrick
Chas. H. Heydrick
Attorney

G. WILLARD.
Steam Plow.

No. 63,349.

Patented Mar. 26, 1867.

Witnesses.

W. B. B. & Co.
Chas. B. B. & Co.

Inventor.

George Willard

W. B. B. & Co.
Chas. B. B. & Co.

H. E. PAINE.
Steam-Plow.

68,310.

Patented Aug. 27 1867.

Witnesses.

W. B. B. & Co.
Chas. B. B. & Co.

Inventor.

Hobbs & Paine

1 Sheet

Sheet 1

P. H. Standish.
Steam-Plow & Cultivator

Nº 75310

Patented Mar. 10, 1868

Witnesses.

W. B. B. & Co.
Chas. B. B. & Co.

Inventor.

P. H. Standish
Assigned to himself and
O. C. Coffey

2 Sheets

Sheet 2

P. H. Standish.
Steam-Plow & Cultivator

Nº 75310

Patented Mar. 10, 1868

Fig. 2.

Witnesses.

W. B. B. & Co.
Chas. B. B. & Co.

Inventor.

P. H. Standish
Assigned to himself and
O. C. Coffey

J. C. Delavigne.
Steam-Plow

N° 76060

Patented Mar. 31 1868

Witnesses:
Chas. S. Briggs
William D. Brown

Inventor
J. C. Delavigne
Per C. M. D. S.
Attorney

M. E. Gray
Steam Plows

N° 77031

Patented Apr. 21 1868.

Witnesses
W. H. Burroughs
Frank A. Holden

Inventor
M. E. Gray

J. MARQUIS.
Steam Plow and Cultivator.

No. 82,538.

Patented Sept. 29, 1868.

Witnesses:
Eg. A. Strong
C. W. M. M. M.

Inventor
John Marquis

C. Locier.

S. M. 11-2. 1865

Steam Plow

N° 82,963.

Patented Oct. 13, 1868.

Witnesses:
Ed. Locier
Chas. C. Perkins

Inventor
C. Locier

C. Locker.

Sheet 2, 2 Sheets.

Steam Flue

N^o 282,963.

Patented Dec. 13, 1868.

Witnesses

H. Locker
C. C. Locking

Inventor:
C. C. Locking

Sheet 1, 2 Sheets.

M. Fyfe.

Rope-Bearing Attachment for Steam Flue

N^o 64,621.

Patented Dec. 1, 1868.

Fig 1

Fig 2

Fig 3

Witnesses
E. F. Johnston
Chas. Wablers

Inventor:
M. Fyfe
Per. S. Wood & Son

Townley & Friedrich.

Steam Flue

N^o 47,301.

Patented Apr. 27, 1869.

Fig. 1

Fig. 2

Witnesses:
Wm. R. Townley
Henry A. Friedrich

Inventors
Wm. R. Townley
Henry A. Friedrich
J. H. Crawford

Sheet 2, 2 Sheets.

Townley & Friedrich.

Steam Flue

N^o 47,301.

Patented Apr. 27, 1869.

Fig 3

Fig 4

Fig 5

Witnesses:
Wm. R. Townley
Henry A. Friedrich

Inventors:
Wm. R. Townley
Henry A. Friedrich
J. H. Crawford

S. B. Williams.
Steam Plow.

No. 90,799.

Patented Jan. 1, 1869.

L. Stewart.
Steam Plow.

No. 91,383.

Patented June 15, 1869.

J. H. Northcott.
Steam Plow.

No. 11,558.

Patented Jan. 22, 1869.

J. H. Northcott.
Steam Plow.

No. 11,558.

Patented Jan. 22, 1869.

Sheet 3, 557, 608

J.H. Northcott.

Steam Plow

N^o 91,558

Patented Jan. 22, 1869

Fig. 4

Witnesses
Jno. F. Sanders
Geo. M. Northcott

Inventor
James H. Northcott

Sheet 4, 557, 608

J.H. Northcott

Steam Plow

N^o 91,558

Patented Jan. 22, 1869

Fig. 5

Witnesses
Jno. F. Sanders
Geo. M. Northcott

Inventor
James H. Northcott

Sheet 5, 557, 608

J.H. Northcott.

Steam Plow

N^o 91,558

Patented Jan. 22, 1869

Fig. 6

Fig. 7

Witnesses
Jno. F. Sanders
Geo. M. Northcott

Inventor
James H. Northcott

A.J. Stevens.

Steam Plow

N^o 91,558

Patented Jan. 22, 1869

Fig. 8

Witnesses
E. J. F. Fong
Edward F. Fong

Inventor
Andrew Jackson Stevens

J. G. Knapp
Steam Plow

No. 97,299.

Patented Nov 30, 1869.

Witnesses
L. Hailer
Chas. S. Girdge

Inventor
J. G. Knapp
By his atty
Boyer & Wilson

A. L. TAVEAU
Steam Plow.

4 Sheets—Sheet 1.

No. 101,396.

Patented Mar. 29, 1870.

FIG. 1

FIG. 2

WITNESSES

Wm. H. Himes
Chas. C. Wilson

INVENTOR

Augustus L. Taveau

A. L. TAVEAU
Steam-Plow

4 Sheets—Sheet 2

No. 101,396.

Patented Mar. 29, 1870.

FIG. 3

FIG. 4

WITNESSES

Wm. H. Himes
Chas. C. Wilson

INVENTOR

Augustus L. Taveau

A. L. TAVEAU.
Steam-Plow

4 Sheets—Sheet 3

No. 101,396.

Patented Mar. 29, 1870.

Witnesses:

Wm. H. Himes
Abraham Moore

Inventor.

Augustus L. Taveau

A. L. TAVEAU
Steam-Plow

4 Sheets—Sheet 4

No. 101,395.

Patented Mar. 29, 1870

Witnesses.

Amos G. Smith
Abraham Moore

Inventor.

Augustus L. Taveau

M. N. LYNN.
Steam Plow.

2 Sheets—Sheet 1.

No. 103,635.

Patented May 31, 1870.

Fig. 1

Fig. 2

Witnesses

Charles D. Smith
Alex. F. Roberts

Inventor.

M. N. Lynn
per *Mumford*
Attorneys

M. N. LYNN.
Steam Plow.

2 Sheets—Sheet 2.

No. 103,635.

Patented May 31, 1870.

Fig. 3

Witnesses

Charles D. Smith
Alex. F. Roberts

Inventor

M. N. Lynn
per *Mumford*
Attorneys

W. Eastall

3 Sheets—Sheet 1

Steam Plow.

No. 103,701

Patented May 31, 1870

Fig. 1

Witnesses
A. W. Thompson
Alex. F. Roberts

Inventor
W. Eastall
per *Mumford*
Attorneys

W. Fackell,

3 Sheets, Sheet 1.

Steam Plow.

No. 103,704.

Patented May 31, 1870.

Witnesses:
J. W. Hargrave
Alex. F. Roberts

Inventor
W. Fackell
per Minnette
attorney

W. Fackell,

3 Sheets, Sheet 2.

Steam Plow.

No. 103,704.

Patented May 31, 1870.

Witnesses:

J. W. Hargrave
Alex. F. Roberts

Witnesses:

W. Roberts
per Minnette
attorney

J. T. WILSON.

Rotary Steam Plow.

No. 106,441.

Patented Aug. 18, 1870.

Witnesses:
J. W. Hargrave
Alex. F. Roberts

Inventor
J. T. Wilson
per Minnette
attorney

A. L. Kennedy,

Steam Plow.

No. 100,019.

Patented Nov. 8, 1870.

Witnesses:
J. W. Hargrave
Alex. F. Roberts

Inventor
A. L. Kennedy
per Minnette
attorney

R. Crossman.

3, Sheet, Sheet 1.

Steam Engine.

No. 109,183.

Patented Nov. 15, 1870.

Witnesses
R. J. Campbell
J. M. Campbell

Inventor
R. Crossman
Mason, Kierulff & Kierulff

R. Crossman.

3, Sheet, Sheet 2.

Steam Engine.

No. 109,183.

Patented Nov. 15, 1870.

Witnesses
R. J. Campbell
J. M. Campbell
Mason, Kierulff & Kierulff

R. Crossman.

3, Sheet, Sheet 3.

Steam Engine.

No. 109,183.

Patented Nov. 15, 1870.

Fig. 5

Fig. 6

Witnesses
R. J. Campbell
J. M. Campbell

Inventor
R. Crossman
Mason, Kierulff & Kierulff

G. Hyde.

Steam Engine.

No. 111,912.

Patented Jan. 24, 1871.

Witnesses
J. B. Davis
W. B. Davis

Inventor
G. Hyde
J. B. Davis & Co.

Witness
A. D. B. S. S.
George B. S. S.

Inventor
H. H. S. S.
H. H. S. S.

Lucius H. Gibbs' Rotary Spade

Plate 1

116297

Fig. 2

Inventor
S. H. S. S.
H. H. S. S.

Witness
A. D. B. S. S.
George B. S. S.

Lucius H. Gibbs' Rotary Spade

Plate 2

Fig. 3

Fig. 4

Fig. 2

Inventor
S. H. S. S.
H. H. S. S.

Witness
A. D. B. S. S.
George B. S. S.

3 Plates

Lucius H. Gibbs' Rotary Spade

Plate 3

Fig. 5

Fig. 3

Inventor
S. H. S. S.
H. H. S. S.

Witness
A. D. B. S. S.
George B. S. S.

M. K. Lynn's Motion for the Pushing Legs of Steam Plows

116610

PATENTED JUL. 4 1871

Fig. 1

Fig. 2

Fig. 3

Witnesses
J. A. C. [illegible]
J. A. C. [illegible]

Inventor
M. K. Lynn
By [illegible]

Z. RIDER

Steam Plowing Machine &c.

Plate 1.

PATENTED JUL. 18 1871

117113

Fig. 1.

Fig. 2.

Witnesses
J. A. C. [illegible]
J. A. C. [illegible]

Inventor
Z. Rider
By [illegible]

Z. RIDER

Steam Plowing Machine &c.

Plate 2.

Fig. 1.

Fig. 2.

Witnesses
J. A. C. [illegible]
J. A. C. [illegible]

Inventor
Z. Rider
By [illegible]

W. H. Hendrich's Steam

Plow.

118013

PATENTED AUG. 15 1871

Inventor
W. H. Hendrich
By [illegible]

Sheet 1

Sheet 2 of Sheet 1

W. H. H. Heydrich's

Steam Plow.

118013

Fig. 1

Fig. 2

Fig. 3

Witnesses:

Chas. A. Van
Jm. W. G. Smith

Inventor:

W. H. H. Heydrich

Attorneys:

Wm. H. G.
Jm. W. G.

Sheet 1 of Sheet 1

Herman Miller.

Steamplow.

118143

PATENTED AUG 15 1871

Fig. 1

Fig. 2

Fig. 3

Witnesses:

Wm. H. G.
Jm. W. G.

Inventor:

Herman Miller

Attorneys:

Wm. H. G.
Jm. W. G.

Sheet 2 of Sheet 1

Herman Miller.

Steam-Plow.

118143

Fig. 3

Fig. 4

Witnesses:

Wm. H. G.
Jm. W. G.

Inventor:

Herman Miller

Attorneys:

Wm. H. G.
Jm. W. G.

Sheet 1 of Sheet 1

WILLIAM C. BIBB.

Steam Wagon and Plows.

No. 119,216.

Patented Sep. 26, 1871.

Fig. 1

Fig. 2

Witnesses:

Peter P. K. K.
Jm. W. G.

Inventor:

William C. Bibb

WILLIAM C. BIBB.
Steam Wagon and Plows.

No. 119,216.

Patented Sep. 26, 1871.

Witnesses:
Peter P. Ritchey
W. H. Howard

Inventor:
William C. Bibb

Oliver Hyde

Imp^t in Steam Plows

No. 120,071

Fig. 1.

Patented Oct. 17, 1871

Fig. 3.

Witnesses:
Geo. H. Strong
J. C. Halse

Inventor:
Oliver Hyde
By his Atty
Lawrence L. Co.

A. E. McGAUGHEY.
Steam-Plows.

No. 134,913

Fig. 1.

Patented Jan. 14, 1873

Witnesses:
J. B. Rutledge
O. J. Russell

Inventor:
A. E. McGaughey
Per
Attorneys.

A. E. McGAUGHEY.
Steam-Plows.

No. 134,913

Fig. 2.

Patented Jan. 14, 1873

Witnesses:
J. B. Rutledge
O. J. Russell

Inventor:
A. E. McGaughey
Per
Attorneys.

P. J. McDONALD.
Steam-Plows.
No. 139,966

3 Sheets--Sheet 1

Patented June 17, 1873.

Witnesses

John L. Brown
Geo. B. Brown

P. J. McDonald
per Attorney
att.

P. J. McDONALD.
Steam-Plows.
No. 139,966

3 Sheets--Sheet 2.

Patented June 17, 1873.

Witnesses

John L. Brown
Geo. B. Brown

P. J. McDonald
per Attorney
att.

P. J. McDONALD.
Steam-Plows.
No. 139,966

3 Sheets--Sheet 3.

Patented June 17, 1873

Witnesses

John L. Brown
Geo. B. Brown

P. J. McDonald
per Attorney
att.

I. S. ALLEN, M. P. BROWN & C. W. MOULTHROP.
Steam Plows.
No. 144,820.

2 Sheets--Sheet 1.

Patented Nov. 25, 1873.

Witnesses

R. B. Hazen
R. B. Hazen

Inventors

I. S. Allen
M. P. Brown
C. W. Moulthrop

2 Sheets--Sheet 2.
J. S. ALLEN, M. P. BROWN & C. W. MOULTHROP.
Steam Plows.
No. 144,820. Patented Nov. 25, 1873.

Witnesses

H. B. Ryall
A. B. Smith

Inventors

J. S. Allen
M. P. Brown
C. W. Moulthrop

3 Sheets--Sheet 1.
J. GILES.
Spading-Machines.
No. 147,122. Patented Feb. 3, 1874.

Fig. 1.

Witnesses

A. Ruppert
C. C. Russell

Inventor
J. Giles

3 Sheets--Sheet 2.
J. GILES.
Spading-Machines.
No. 147,122. Patented Feb. 3, 1874.

Fig. 2.

Witnesses
A. Ruppert
C. C. Russell

J. Giles
Inventor
D. H. Moulthrop & Co.
Attys

3 Sheets--Sheet 3.
J. GILES.
Spading-Machines.
No. 147,122. Patented Feb. 3, 1874.

Fig. 3.

Witnesses
A. Ruppert
C. C. Russell

J. Giles
Inventor
D. H. Moulthrop & Co.
Attys

J. W. EVANS.
Steam-Plows.

No. 149,210.

Patented March 31, 1874.

Witnesses
John Specker
Thos. H. Young

James W. Evans
by his attorney
R. H. H. H.

J. FOGARTY.
Steam-Plow.

3 Sheets--Sheet 1.

No. 160,760

Patented March 16, 1875.

Witnesses:

E. V. H. H.

M. C. Day.

Inventor:

James Fogarty
by his attorney
J. L. H. H.

J. FOGARTY.
Steam-Plow.

3 Sheets--Sheet 2.

No. 160,760

Patented March 16, 1875.

Witnesses:

E. V. H. H.

M. C. Day.

Inventor:

James Fogarty
by his attorney
J. L. H. H.

J. FOGARTY.
Steam-Plow.

3 Sheets--Sheet 3.

No. 160,760

Patented March 16, 1875.

Witnesses:

E. V. H. H.

M. C. Day.

Inventor:

James Fogarty
by his attorney
J. L. H. H.

D. BEAUMONT.
Steam-Plow.

No. 162,884

Patented May 4, 1875.

Witnesses
Geo. H. Strong
Jas. L. Brown

Inventor
D. Beaumont
by Robert C. Allen

T. C. STARK.
Steam-Plow.

No. 166,230.

Patented Aug. 3, 1875.

Witnesses
Geo. H. Strong
Jas. L. Brown

Inventor
T. C. Stark
by Robert C. Allen

B. S. BENSON.
STEAM-PLOW.

2 Sheets—Sheet 1.

No. 171,595.

Patented Dec. 20, 1875.

WITNESSES:
W. W. Hollingsworth
John Kerron

INVENTOR:
B. S. Benson
by Robert C. Allen

B. S. BENSON.
STEAM-PLOW.

2 Sheets—Sheet 2

No. 171,595.

Patented Dec. 20, 1875.

WITNESSES:
W. W. Hollingsworth
John Kerron

INVENTOR:
B. S. Benson
by Robert C. Allen
ATTORNEYS.

G. F. BROTT.

STEAM-PLOWS.

No. 185,484.

Patented Dec. 19, 1876.

Fig. 4

WITNESSES:

W. W. Hollingsworth
Glen E. Kemmer

INVENTOR:

Geo. F. Brott

ATTORNEYS.

O. A. OLMSTED.

CULTIVATOR.

No. 191,996.

Patented June 12, 1877.

Attest
M. S. Wiley
J. H. Anderson

INVENTOR:

O. A. Olmsted
by E. W. Anderson
Attorney.

S. P. GODDARD

Steam-Plow.

No. 198,601.

Patented Dec. 25, 1877.

Fig. 2.

Witnesses:

John D. Donoghue
C. W. Bradford

INVENTOR:

S. P. Goddard

By H. K. Ennis
att'y

J. BEARD.

Steam-Plow.

No. 204,790.

Patented June 11, 1878.

Fig. 2.

Fig. 3.

WITNESSES:

Geo. F. Lathrop
J. W. Garner

INVENTOR:

J. Beard
by J. W. Lathrop
att'y

J. FOGARTY
Steam-Plow.

6 Sheets—Sheet 1

No. 211,843

Patented Feb. 4, 1879.

FIG. 1

WITNESSES:
W. C. Brooks
Otto Müller

INVENTOR:
J. Fogarty
By Geo. W. Allen
J. L. Sisson

J. FOGARTY
Steam-Plow

6 Sheets—Sheet 2

No. 211,843

Patented Feb. 4, 1879.

FIG. 2

WITNESSES:
W. C. Brooks
Otto Müller

INVENTOR:
J. Fogarty
By Geo. W. Allen
J. L. Sisson

J. FOGARTY
Steam-Plow

6 Sheets—Sheet 3

No. 211,843.

Patented Feb. 4, 1879.

FIG. 3

WITNESSES:
W. C. Brooks
Otto Müller

INVENTOR:
J. Fogarty
By Geo. W. Allen
J. L. Sisson

J. FOGARTY
Steam-Plow

6 Sheets—Sheet 4

No. 211,843.

Patented Feb. 4, 1879.

WITNESSES:
W. C. Brooks
Otto Müller

INVENTOR:
J. Fogarty
By Geo. W. Allen
J. L. Sisson

J. FOGARTY.
Steam-Plow.

6 Sheets—Sheet 5.

No. 211,843.

Patented Feb. 4, 1879.

FIG. 8

WITNESSES:—

W. C. Brooks
Otto Müller

INVENTOR:—

James Fogarty
Thomas S. Stetson

J. FOGARTY.
Steam-Plow.

6 Sheets—Sheet 6

No. 211,843.

Patented Feb. 4, 1879.

FIG. 11

FIG. 12

FIG. 13

WITNESSES:—

W. C. Brooks
Otto Müller

INVENTOR:—

James Fogarty
Thomas S. Stetson

B. S. BENSON.

Traction-Engine and Steam-Plow.

No. 217,506.

Patented July 15, 1879.

3 Sheets—Sheet 1.

Fig. 1

WITNESSES:

W. W. H. Thompson
Edw. W. H. Thompson

INVENTOR:

B. S. Benson

BY *Wm. D. G.*
ATTORNEYS.

B. S. BENSON.

Traction-Engine and Steam-Plow.

No. 217,506.

Patented July 15, 1879.

3 Sheets—Sheet 2.

Fig. 2

WITNESSES:

W. W. H. Thompson
Edw. W. H. Thompson

INVENTOR:

B. S. Benson

BY *Wm. D. G.*
ATTORNEYS.

B. S. BENSON.
Traction-Engine and Steam-Plow.
No. 217,506. Patented July 15, 1879.

3 Sheets—Sheet 3

W. H. FOYE.
Steam-Farming Apparatus.
No. 220,365. Patented Oct. 7, 1879.

2 Sheets—Sheet 1

W. H. FOYE.
Steam-Farming Apparatus.
No. 220,365. Patented Oct. 7, 1879.

2 Sheets—Sheet 2

W. H. FOYE.
Double-Acting Reversible Gang-Plow.
No. 220,367. Patented Oct. 7, 1879.

2 Sheets—Sheet 1.

T. C. DARBY.
Cultivator.

No. 225,692.

Patented Mar. 23, 1880.

2 Sheets—Sheet 2

T. C. DARBY.
Cultivator.

No. 225,692.

Patented Mar. 23, 1880.

(No Model.)

T. H. McCRAE.
Steam-Plow.

No. 226,921.

Patented April 27, 1880.

(No Model.)

T. H. McCRAE.
Steam Plow.

No. 234,882.

Patented Nov. 30, 1880.

(No Model.)

T. H. McCRAY.
Steam Plow.

2 Sheets—Sheet 1

No. 234,882.

Patented Nov. 30, 1880.

(Model.)

E. BROWN.
Steam Plow.

3 Sheets—Sheet 1

No. 236,771.

Patented Jan. 18, 1881.

(Model.)

E. BROWN.
Steam Plow.

3 Sheets—Sheet 2

No. 236,771.

Patented Jan. 18, 1881.

(Model.)

E. BROWN.
Steam Plow.

3 Sheets—Sheet 3

No. 236,771.

Patented Jan. 18, 1881.

(No Model.)

C. B. BOSTWICK
STEAM PLOW.

4 Sheets—Sheet 1

No. 243,843.

Patented July 5, 1881.

Witnesses
Saml. Quescher
Joseph Stillberg

Inventor
Chamuel B. Bostwick
By C. M. Alexander
Attorney

(No Model.)

C. B. BOSTWICK.
STEAM PLOW.

4 Sheets—Sheet 2.

No. 243,843.

Patented July 5, 1881.

Witnesses
Saml. Quescher
Joseph Stillberg

Inventor.
Chamuel B. Bostwick
By C. M. Alexander
Attorney

(No Model.)

C. B. BOSTWICK.
STEAM PLOW.

4 Sheets—Sheet 3.

No. 243,843.

Patented July 5, 1881.

Witnesses.
Saml. Quescher.
Joseph Stillberg

Inventor.
Chamuel B. Bostwick
By C. M. Alexander
Attorney

(No Model.)

C. B. BOSTWICK.
STEAM PLOW.

4 Sheets—Sheet 4.

No. 243,843.

Patented July 5, 1881.

Witnesses.
Saml. Quescher
H. Aubrey Toulmin

Inventor.
Chamuel B. Bostwick
By C. M. Alexander
Attorney

(No Model.)

R. E. ROSE
PLOW.

No. 249,404.

Patented Nov. 8, 1881.

Fig. 1

Fig. 2

WITNESSES:

Wm. H. Brown
Frank B. Brown

INVENTOR:

Rose & Rose
By Bennett & Bennett
ATTORNEYS

(No Model.)

B. S. BENSON.
STEAM PLOW.

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:

Wm. H. Brown
E. W. Brown

INVENTOR:

B. S. Benson
By Bennett & Bennett
ATTORNEYS

(No Model.)

B. S. BENSON
STEAM PLOW.

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:

Wm. H. Brown
E. W. Brown

INVENTOR:

B. S. Benson
By Bennett & Bennett
ATTORNEYS

(No Model.)

B. S. BENSON.
STEAM PLOW.

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:

Wm. H. Brown
E. W. Brown

INVENTOR:

B. S. Benson
By Bennett & Bennett
ATTORNEYS

(No Model.)

B. S. BENSON.
STEAM PLOW.

8 Sheets—Sheet 4.

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:
John C. ...
Edw. ...

INVENTOR:
B. S. Benson
BY ...
ATTORNEYS.

(No Model.)

B. S. BENSON
STEAM PLOW.

8 Sheets—Sheet 6

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:
John C. ...
Edw. ...

INVENTOR:
B. S. Benson
BY ...
ATTORNEYS.

(No Model.)

B. S. BENSON.
STEAM PLOW.

8 Sheets—Sheet 6

No. 251,513.

Patented Dec. 27, 1881.

WITNESSES:
John C. ...
Edw. ...

INVENTOR:
B. S. Benson
BY ...
ATTORNEYS.

(No Model.)

B. S. BENSON.
GANG PLOW.

3 Sheets—Sheet 1

No. 251,817.

Patented Jan. 3, 1882.

ATTEST.
John C. ...
Edw. ...

INVENTOR:
B. S. Benson
BY ...
ATTORNEYS.

(No Model.)

B. S. BENSON.
GANG PLOW.

3 Sheets—Sheet 1

No. 251,817.

Patented Jan. 3, 1882.

WITNESSES:

W. H. Brown
W. H. Brown

INVENTOR:

B. S. BENSON.

B. S. Benson
ATTORNEYS.

(No Model.)

B. S. BENSON.
GANG PLOW.

3 Sheets—Sheet 2

No. 251,817.

Patented Jan. 3, 1882.

ATTEST:

W. H. Brown
W. H. Brown

INVENTOR:

B. S. BENSON.

B. S. Benson
ATTORNEYS.

(No Model.)

B. S. BENSON.
PLOW.

3 Sheets—Sheet 1

No. 252,991.

Patented Jan. 31, 1882.

WITNESSES:

W. H. Brown
W. H. Brown

INVENTOR:

B. S. BENSON.

B. S. Benson
BY *W. H. Brown*
ATTORNEYS.

(No Model.)

B. S. BENSON.
PLOW.

3 Sheets—Sheet 2

No. 252,991.

Patented Jan. 31, 1882.

WITNESSES:

W. H. Brown
W. H. Brown

INVENTOR:

B. S. BENSON.

B. S. Benson
BY *W. H. Brown*
ATTORNEYS.

(No Model.)

B. S. BENSON.
PLOW.

3 Sheets—Sheet 3

No. 252,991.

Patented Jan. 31, 1882.

WITNESSES:
J. H. Remon
E. A. H. H. H.

INVENTOR:
B. S. Benson
BY J. H. Remon & Co.
ATTORNEYS.

(No Model.)

F. BRUTSCHKE.
STEAM PLOWING.

2 Sheets—Sheet 1

No. 255,587.

Patented Mar. 28, 1882.

Witnesses:
James H. H. H.
J. H. H. H.

Inventor:
F. Brutschke
J. H. H. H.

(No Model.)

F. BRUTSCHKE.
STEAM PLOWING.

2 Sheets—Sheet 2

No. 255,587.

Patented Mar. 28, 1882.

Witnesses:
James H. H. H.
J. H. H. H.

Inventor:
F. Brutschke
J. H. H. H.

(No Model.)

J. H. FOGARTY.
STEAM PLOW.

4 Sheets—Sheet 1

No. 258,046.

Patented May 16, 1882.

Witnesses:
Charles R. H. H.
Charles C. H. H.

Inventor:
James H. Fogarty

(No Model.)

J. H. FOGARTY.
STEAM PLOW.

4 Sheets—Sheet 2

No. 258,046.

Patented May 16, 1882.

WITNESSES
Charles H. Searle
Charles C. Stetson

INVENTOR
James H. Fogarty

(No Model.)

J. H. FOGARTY.
STEAM PLOW.

4 Sheets—Sheet 2

No. 258,046.

Patented May 16, 1882.

WITNESSES
Charles H. Searle
Charles C. Stetson

INVENTOR
James H. Fogarty

(No Model.)

J. H. FOGARTY.
STEAM PLOW.

4 Sheets—Sheet 4

No. 258,046.

Patented May 16, 1882.

WITNESSES
Charles H. Searle
Charles C. Stetson

INVENTOR
James H. Fogarty

(Model)

T. T. WOODRUFF.
STEAM PLOW.

2 Sheets—Sheet 1

No. 263,279.

Patented Aug. 22, 1882.

WITNESSES
Wiley Williams
The L. A. Co.

INVENTOR
T. T. Woodruff

(No Model)

T. T. WOODRUFF.
STEAM PLOW.

2 Sheets—Sheet 2.

No. 263,279.

Patented Aug. 22, 1882.

(No Model)

R. STONE.
STEAM PLOW.

2 Sheets—Sheet 1

No. 265,345.

Patented Oct. 3, 1882.

(No Model)

R. STONE.
STEAM PLOW.

2 Sheets—Sheet 2

No. 265,345.

Patented Oct. 3, 1882.

(No Model)

J. M. GARDNER.
STEAM PLOW RUNNING GEAR.

Patented Oct. 17, 1882.

No. 265,956.

SUBSOILERS.

	Plate	Claim		Plate	Claim		Plate	Claim
Adcock, J. J., Lumpkin, G. J., and White M.	1087	659	Griffin, I. M.	1082	657	Nabers, T.	1076	655
Aland, S.	1062	651	" " " (R)	1082	658	Nichols, W. D. and Clark, N. W.	1065	652
Allen, D. M.	1077	656	Griggs, A.	1083	658	Page, W. C.	1055	649
Atkinson, C.	1085	658	Gross, E.	1059	649	Parker, E. F.	1055	649
Bacon, H.	1055	649	Gross, J. C.	1069	653	Percefull, Z. R.	1086	659
Banks, J.	1056	649	Harris, J. P.	1056	649	Pirkle, W. J.	1086	659
Beall, Z. M.	1060	650	Harris, I. P.	1058	649	Porter, A. A.	1084	658
Berdan, M.	1067	652	Hartman, C. R.	1066	652	Pullman, J. B.	1068	653
Black, W.	1057	649	" " " [R]	1067	652	Query, E. M.	1070	654
Bond, J. L.	1073	654	Hayden, C.	1066	652	Rankin, I. N.	1059	650
Boon, A. T.	1063	651	Howard, J. W.	1079	656	Rappelle, T. S., and T. W.	1061	650
Boul, C.	1086	659	Hunter, J. T. and Mitchell, D. L. H.	1078	656	Reese, F.	1078	656
Bourne, E.	1081	657	Jarrell, J.	1084	658	Reynolds, T. H.	1074	655
Bowen, H. R. and Robnett, L. D.	1073	654	Johnson, R.	1069	653	Rigby, A.	1083	658
Bradford, W. B.	1076	655	Johnson, J. H.	1072	654	Roberts, A. F.	1072	654
Bradley, J.	1066	652	Johnson, R.	1074	655	Robinson, G.	1068	653
Brimingham, G. B.	1080	657	Johnson, R.	1075	655	Rodman, J. M.	1060	650
Brinly, T. E. C.	1077	656	Jones, M. R.	1065	651	Roop, J.	1079	656
Bryant, W.	1055	649	Jones, B. F.	1084	658	Scoville, T. S.	1057	649
Burdin, L. E.	1071	654	Kirkman, D. J. and Gray, E. H.	1064	651	Seely, S. F.	1063	651
Burnham, W. H. H. and Pierce, S. B.	1061	650	Krake, J. A.	1065	651	Sipe, A.	1085	659
Cameron, J. F.	1059	650	Lamb, D. M.	1076	655	Smiley, W. H.	1077	656
Carleton, L.	1071	654	Leonard, J. C. and Gobar, J. J.	1067	652	Smith, D. B.	1083	658
Chateau, L. J.	1061	650	Love, J.	1078	656	Squires, E.	1086	659
Clifton, J.	1073	654	Lowe, L. J.	1085	658	Sutton, W. H.	1084	658
Cobb, J. M.	1059	650	McCullum, J.	1060	650	Tallmadge, N. S.	1062	650
Coe, O.	1062	650	McKinnon, K.	1079	656	Themar, R. and Brand Brothers,	1074	655
Cooper, J. B.	1060	650	McKinnon, K.	1081	657	Turner, J. R. and Jacobs, J.	1080	657
Cotten, T. L.	1070	653	McMahen, A. A.	1058	649	Tuttle, S. D.	1066	652
Cotten, T. L.	1079	656	Mangham, J. T.	1082	657	Utley, G.	1057	649
Crockett, R. S.	1072	654	Manning, A. L.	1081	657	Vairin, A. L. P.	1080	657
Custer, J.	1068	653	Manny, P.	1056	649	Walpole, W. R.	1064	651
Cutcliffe, E.	1080	657	Martin, L. V. B.	1071	654	Warinner, W.	1081	657
Davis, B. and Scroggin, J. M.	1058	649	Mathis, J. T. and Harri- son, G. W.	1070	653	Watson, E. S.	1082	657
Dickson, A.	1057	649	Mattox, T. T.	1069	653	Welb, J. W.	1072	654
Dover, S. B.	1087	659	Miner, J. G.	1074	655	Wheatley, R. J.	1063	651
Everdon, W. P.	1065	652	Miner, J. G.	1075	655	Whitehall, N.	1075	655
Fisher, J.	1067	652	Murfee, J. W.	1068	653	Whittick, A. H.	1075	655
Fletcher, S. E.	1078	656	" " " [R]	1069	653	Wilder, T. G.	1073	654
Fowler, J.	1064	651	Murfee, J. W.	1070	654	Williams, W. B.	1058	649
Freeman, I.	1083	658	Murfee, J. W.	1071	654	Wolf, L.	1061	650
Gilbert, P. M.	1063	651	Meyers, C. and Gummow, W.	1077	656	Wood, J. and North, R.	1056	649
Gillette, H.	1076	656				Yost, G. W. N.	1062	650

*W. E. Brown**Subsoil-Plow**No. 1,527**Patented Mar 31, 1840.*

H. BACON.

Subsoil-Plow.

No. 6,508.

Patented June 5 1849

*W. C. Brown**Subsoil-Plow**No. 7,732**Patented Dec 22, 1850* *E. T. Brown**Subsoil-Plow**No. 7,900**Patented Jan 21, 1851*

*P. Munn**Subsoil Plow**Nº 4,726.**Patented Apr. 22, 1866.* *J. S. Hume**Plow**Nº 4,665.**Patented Apr. 2, 1866.* *North & Wood**Plow**Nº 4,619.**Patented Nov. 10, 1867.* *J. Barker**Subsoil Plow**Nº 4,217.**Patented Oct. 20, 1868.*

C. Wiley
Special Plow

No. 9668.

Patented Mar. 16, 1868.

T. S. SCOVILLE
Subsoil Plow.

No. 19,878.

Patented Apr. 5, 1858

A. Dickson
Plow

No. 20633.

Patented Apr. 20, 1875

W. E. Hunt
Subsoil Plow

No. 20,004

Patented Apr. 20, 1875

A. A. McMAHEN
Subsoil-Plow.

No. 21,976

Patented Nov. 2, 1858

W. B. Williams
Subsoil Plow.

N^o 45,461

Patented Sept. 13, 1859

Witnesses
Geo. Patton
Langdon A. Woodland

Inventor
W. B. Williams

J. P. Harris
Subsoil Plow.

N^o 26,453

Patented May 18, 1859

Davis & Scroggins
Plow.

N^o 27,019

Patented Mar. 27, 1860

Witnesses
Wm. H. Hurdley
Geo. H. Hurdley

Inventors
Baldwin Davis
James H. Scroggins

*E. Cross.**Subsoil Plow.**No 276395.**Patented May 27, 1860.*

WITNESSES

E. Cross
J. H. Smith

INVENTOR,

E. Cross
J. H. Smith
Attys.

*J. A. Martin.**Plow.**No 28407.**Patented May 29, 1860.*

WITNESSES

J. S. Green
J. H. Smith

INVENTOR,

John A. Martin
per Mary J. Martin
attys.

*J. H. Cross.**Subsoil Plow.**No 276396.**Patented Jan 30, 1860.*

WITNESSES
E. Cross
J. H. Smith

INVENTOR,

James H. Cross
per J. H. Smith

*J. F. Cameron.**Subsoil Plow.**No 276397.**Patented Jan 15, 1861.*

WITNESSES

H. C. Samuel
W. H. Black

INVENTOR,

Joshua F. Cameron

J. M. Brown

Subsoil Plow

No 1868
31,559

Patented Feb 26, 1861

Witnesses
J. S. Brown
J. S. Brown

J. M. Brown
for Assignee
J. S. Brown

J. S. Cooper

Subsoil Plow

No 1861
31,905

Patented Apr 9, 1861

Witnesses
J. S. Cooper
R. S. Cooper

Inventor
J. S. Cooper
for Assignee
R. S. Cooper

J. M. Brown

Subsoil Plow

No 1861
32,429

Patented Apr 23, 1861

Witnesses
J. S. Brown
J. S. Brown

Inventor
J. M. Brown
for Assignee
J. S. Brown

Z. M. BEALL

Subsoil-Plow.

No { 1,455,
32,459 }

Patented June 4, 1861.

Witnesses

J. S. Cooper
R. S. Cooper

Inventor

Z. M. Beall
Z. M. Beall

*T. S. & T. W. Raynolds.**Subsoil Plow.*No. 7,710.
32,714.

Patented Jul 2, 1861.

Witnesses,
J. W. Brown
Geo. ReedInventors,
T. S. Raynolds
T. W. Raynolds
Per Messrs J. C.
Manning*Burham & Parry.**Subsoil Plow.*No. 2,127.
33,131.

Patented Aug 27, 1861.

Witnesses

G. M. Alexander
Arthur J. GordonInventor,
H. H. H. Burham
J. B. Parry*L. J. Chateau.**Plow.*No. 2,873
33,877.

Patented Dec. 10, 1861.

Witnesses,
J. W. Brown
Geo. ReedInventor,
L. J. Chateau*I. May.**Subsoil Plow.*

No. 36,182.

Patented Aug 5, 1862.

Witnesses
G. M. Alexander
C. J. GordonInventor,
I. May

N. S. Talmadge.

Plow

N^o 39,761.

Patented Sep. 1, 1863.

Witnesses
Edmund Strong
Ed. C. Nelson

Inventor
N. S. Talmadge

G. W. N. Lost.

Subsoil Plow

N^o 40,003.

Patented Sep. 12, 1863.

Witnesses
J. M. Mifford
John G. Baker

Inventor
G. W. N. Lost.
per Atty. S.
Clayton and Son.

E. Coe.

Subsoil Plow

N^o 41,603.

Patented Feb. 16, 1864.

Witnesses
R. T. Humphreys
E. S. Coffey

Inventor
Edmond Coe
by his atty.
Mason Thomas Hamner.

S. Aland.

Subsoil Plow

N^o 42,264.

Patented Apr. 12, 1864.

Witnesses
David Thompson
L. P. Warden

Inventor
Samuel Aland

*A. T. Bean.**Subsoil Plow**No. 53,559.**Patented Apr. 3, 1866.* *Fig. 2.* *Fig. 3.*

Witnesses:
W. Adams
A. B. B. B.

Inventor:
A. T. Bean
by his attorney

*S. F. Seely,**Subsoil Plow.**No. 53,891.**Patented Apr. 10, 1866.* *Fig. 1**Fig. 2*

Inventor:
S. F. Seely
Witnesses:
W. B. B. B.
W. B. B. B.
W. B. B. B.

*P. M. GILBERT**Subsoil Plow**No. 60,876**Patented Jan. 1, 1867.* *Fig. 1.**Fig. 2.* *Fig. 3.*

Witnesses:
C. B. B. B.
John B. B. B.

Inventor:
P. M. Gilbert
for Alexander B. B.
Attys

*R. J. WHEATLEY.**Subsoil Plow.**No. 62,243.**Patented Feb. 19, 1867.* *Fig. 1**Fig. 2* *Witnesses.*

W. B. B. B.
J. A. B. B.

Inventor.

R. J. Wheatley
W. B. B. B.
Attys

J. FOWLER.

Plow

No 63,161

Patented Mar 26, 1867.

Witnesses:

F. B. Stockbridge

Geo. C. Dinsell

Inventor

Joseph Fowler

W. R. WALPOLE.

Subsoil Plow.

2 Sheets—Sheet 1.

No. 63,586.

Patented Apr. 2, 1867.

Witnesses:

Amos Wood
J. H. Walker

Inventor

Wm R Walpole

W. R. WALPOLE.

Subsoil Plow.

2 Sheets—Sheet 2.

No. 63,586.

Patented Apr. 2, 1867.

Witnesses:

Amos Wood
J. H. Walker

Inventor

Wm R Walpole

Kirkman & Gray,

Subsoil Plow.

No. 66031.

Patented June 26, 1867.

INVENTOR

A. Kirkman

Geo. Gray

J. H. Alexander & Co.
Attorneys

WITNESSES:

E. Schumann
Geo. T. Ellis

*J. A. Mreake.**Subsoil Plow**N^o 66,597.**Patented Jul. 9, 1867.*

Witnesses:
B. H. Muehle
E. B. Fortush

Inventor:
John A. Mreake

M. R. JONES**Subsoil-Plow**

No. 69,099

Patented Sept. 24, 1867

Witnesses.

Witnesses:
Stephen D. Locke
J. M. May

Inventor.

Inventor:
Margus R. Jones

NICHOLS & CLARK**Subsoil-Plow**

No. 69,117

Patented Sept. 24, 1867

Witnesses.

Witnesses:
O. S. Fuller
H. G. Van Hooker

Inventor.

Inventor:
William L. Nichols

*W. P. Everdon.**Plow.**N^o 74,327**Patented Feb. 11, 1868.*

Witnesses:
W. P. Everdon
J. W. Bowen

Inventor.

Inventor:
W. P. Everdon

J. Bradley,
Plough.

N^o 74,885

Patented Feb. 25, 1868.

Fig. 1.

Witnesses.

J. E. Smith
Attest

Inventor.

Jeremy Bradley
Chapman & Co.

C. Hayden

Subsoil Attachment for Plow.

N^o 75,419

Patented Mar. 10, 1868.

WITNESSES.

H. B. Ashketter
J. Kraus

INVENTOR.

Chas. Hayden
per Munn & Co.
attorneys

S. D. Tuttle.
Sub-Soil Plow.

N^o 76,275

Patented Mar. 31, 1868.

Fig. 1.

Fig. 2.

Witnesses.
J. W. Myster
J. M. Clark

Inventor.

S. D. Tuttle
per
J. R. Alexander

C. R. Hannon.

Subsoil Plow.

N^o 76,627

Patented Apr. 14, 1868.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 1.

Witnesses.
W. H. Hannon
per
J. R. Alexander

Inventor.

Charles R. Hannon
per
J. R. Alexander

*C. R. Hartman.**Subsoil Plow.**No. 3076.**Patented Aug. 11, 1868.* *Leonard & Colver.**Subsoil Plow.**No. 80366.**Patented Jan. 28, 1868.* *J. FISHER.*
*Subsoil Plow.**No. 80,715.**Patented Aug. 4, 1868.* *M. BERDAN.*
*Subsoil Plow.**No. 83,030.**Patented Oct. 13, 1868.*

J. CUSTER.
Subsoil Plow.

No. 83,472.

Patented Oct. 27, 1868.

Witnesses
David H. H. H.
Ed. H. H.

Inventor.
John Custer
by J. H. H.

G. Robinson.

Plow.

No. 84,594.

Patented Mar. 9, 1869.

Witnesses,
J. H. H.
B. C. H.

Inventor,
G. Robinson

J. B. Pullman,

Sub Soil Plow.

No. 89,432.

Patented Apr. 27, 1869.

Witnesses
J. H. H.
B. C. H.

Inventor,
J. B. Pullman.
by J. H. H.

J. N. Murree.

Plow.

No. 91,057.

Patented Jun. 22, 1869.

Witnesses
J. H. H.
B. C. H.

Inventor
J. N. Murree

J. M. Hays

Patent

No. 5,616

Patented Aug. 21, 1860

Witnesses:
J. M. Hays
J. M. Hays

Patented:
J. M. Hays

J. C. Goss

Patent

No. 24,307

Patented Aug. 31, 1859

Fig. 2

Witnesses:
J. C. Goss
J. C. Goss

Patented:

J. C. Goss
J. C. Goss
Attorneys

T. T. Muller

Patent

No. 100,180

Patented Nov. 13, 1890

Witnesses:

Chas. Hays
Chas. Hays

Patented:

T. T. Muller
T. T. Muller
Attorneys

T. T. Muller

Patent

No. 100,225

Patented Nov. 13, 1890

Witnesses:

Chas. Hays
Chas. Hays

Patented:

Rose Johnson
Rose Johnson
Attorneys

W. H. Harrison.

No. 105,103.

Patented July 6, 1870.

T. L. Colton.

Subsoil Plow.

No. 105,551.

Patented July 12, 1870.

E. M. Query.

Subsoil Plow.

No. 105,856.

Patented July 26, 1870.

Witnesses:
A. A. Graham
C. L. Query

Inventor:
E. M. Query.
per Alexander P. Query
Atty.

J. W. MURFEE.

Subsoil Plow.

No. 106,192.

Patented Aug. 9, 1870.

Witnesses:

James H. Smith
Charles H. Smith

Inventor:
J. W. Murfee

J. W. MURFEE.

Subsoil Plow.

No. 106,193.

Patented Aug. 9, 1870.

J. W. MURFEE.

No. 108,002.

Patented July 1, 1870.

L. V. B. MARTIN.

Subsoil Plow.

No. 108,164.

Patented Oct. 11, 1870.

L. CARLETON.

Subsoil Plow.

No. 108,329.

Patented Oct. 18, 1870.

J. H. JOHNSON.
Subsoil Plow.

No. 108,485.

Patented Oct. 18, 1870.

WITNESSES:

W. J. Smith
James A. Smith

INVENTOR:

John H. Johnson
Geo. Mann & Co.
Attorneys

J. W. Webb,

Subsoil Plow.

No. 108,360.

Patented Nov. 1, 1870.

WITNESSES

Wm. Dennis
Wm. G. Johnson

INVENTOR:

John W. Webb
By his Atty. *J. Dennis & Co.*

A. F. Roberts,

Sub Soil Plow

No. 108,239

Patented Nov. 1, 1870.

FIG. 2

FIG. 3

WITNESSES:
James D. Smith
Geo. E. Mann

INVENTOR:
Alfred F. Roberts
Geo. E. Mann
Attorneys

J. S. Crockett,

Plow.

No. 108,975.

Patented Nov. 8, 1870.

FIG. 1.

FIG. 2.

WITNESSES:
Wm. Dennis
Wm. G. Johnson

INVENTOR:

R. S. Crockett,
Chas. W. Crockett & Co.
Attorneys

T. G. Miller.

Subsoiler.

No. 110545.

Patented Dec. 29, 1892.

Witnesses:
 J. H. [illegible]
 J. S. [illegible]

Inventor:
 T. G. Miller
 Per M. W. [illegible]

J. C. Miller.

Subsoiler.

No. 110550.

Patented Dec. 29, 1892.

Witnesses:
 L. H. [illegible]
 J. H. [illegible]

Inventor:
 J. C. Miller
 Per M. W. [illegible]

D. W. & R. B. [illegible]

Flow.

No. 111037.

Patented Dec. 29, 1892.

Witnesses:
 A. F. [illegible]

Inventors:
 D. W. [illegible]
 R. B. [illegible]

J. C. Miller.

Subsoiler.

No. 111128.

Patented Dec. 29, 1892.

Witnesses:
 L. A. [illegible]
 A. C. [illegible]

Inventor:
 J. C. Miller
 Per M. W. [illegible]

T. H. Reynolds,
Subsoiler.

No. 114,852.

Patented Feb. 14, 1871.

Witnesses:
C. L. Lovett,
J. G. Hutchinson

Inventor:
Ross Johnson
Charles Thomsen
Attys.

T. H. REYNOLDS.
 Improvement in Plows.

No. 114,855.

Patented May 16, 1871.

Witnesses:
John Grecker
L. S. Habee

Inventor:
T. H. Reynolds
per M. M. H. L.
Attorneys.

ROBERT THEMAR & BRAND BROTHERS.

Improvement in Sub-Soil Plows.

No. 115,543

Patented May 30, 1871.

Witnesses:
C. L. Lovett
Sam. Mau

Inventor:
Robert Themas
Brand Brothers
Chapman & Co.
Attorneys.

JAMES G. MINER.

Improvement in Plows.

No. 115,629.

Patented June 6, 1871.

WITNESSES

James H. Quincy
Robt. C. Allen

INVENTOR

J. G. Miner

JAMES G. MINER.

117662 SUBSOIL & DRAIN PLOW.

PATENTED AUG 1 1871

FIG 2

FIG 3

WITNESSES:
W. H. B. B. B. B.
J. H. C. C. C.

INVENTOR:
J. G. Miner

N. Whitehall. Combined Cultivator & Planter.

No. 118,567.

Patented Aug. 29, 1871.

FIG 3

WITNESSES:
C. H. B. B. B.
H. H. C. C. C.

INVENTOR:
N. Whitehall

A. H. WHITTICK
SUBSOIL PLOW.

No. 118,890.

Patented Sep. 12, 1871.

WITNESSES:
A. B. B. B. B.
J. H. C. C. C.

INVENTOR:
A. H. Whittick
E. F. T. H. B. B.

No. 118,945.

Patented Sep. 12, 1871.

Ross Johnson Subsoil Attachment for Plows

Fig 2

WITNESSES:
C. H. B. B. B.
H. H. C. C. C.

INVENTOR:
Ross Johnson
W. H. B. B. B.

DANIEL M. LAMB.

Improvement in Plows.

No. 122,261.

Patented Dec. 26, 1871

Chas. Henson
Witness

D. M. Lamb
Inventor

WILLIAM B. BRADFORD.

Improvement in Plows.

No. 125,930.

Patented April 23, 1872.

Witnesses:
W. B. Bradford
S. B. Agabee

Inventor:
W. B. Bradford
per M. M. M. Attorneys

T. NABERS.

Improvement in Plows.

No. 126,077.

Patented April 23, 1872.

Witness:
Thos. Allen

INVENTOR:
T. Nabers

H. GILLETTE.

Improvement in Plows.

No. 127,475.

Patented June 4, 1872.

Witnesses:
H. Gillette
H. W. MacCoe

Inventor:
H. Gillette
per M. M. M. Attorneys

T. E. C. BRINLY.

Improvement in Subsoil-Plows.

No. 131,391.

Patented Sep. 17, 1872

Witnesses:
A. Ruppert
J. S. G. G. G.

Inventor:
T. E. C. Brinly
Attorney.

W. H. SMILEY.

Improvement in Subsoil Attachment for Plows.

No. 131,636.

Patented Sep. 24, 1872.

Witnesses:
W. H. Smiley
Attorney.

Inventor:
W. H. Smiley
Attorney.

D. M. ALLEN.

Improvement in Plows.

No. 132,707.

Patented Nov. 5, 1872.

Witnesses:
H. M. Allen
Attorney.

Inventor:
David M. Allen

C. MYERS & W. GUMMOW

Improvement in Sub-Soil Plows.

No. 133,167.

Patented Nov. 19, 1872

Witnesses:
C. Myers
W. Gummow

Inventor:
C. Myers & W. Gummow
Attorney.

S. E. FLETCHER.

Improvement in Sub-Soil Plows.

No. 133,216.

Patented Nov. 19, 1872.

Fig. 1.

Fig. 2.

Witnesses:
J. E. Jones
J. A. Smith

Inventor:
S. E. Fletcher
Signed H. C. Thompson

F. REESE.

Plows.

No. 133,722.

Patented Dec. 10, 1872.

Fig. 1.

Fig. 2.

Witnesses:
J. H. Brown
J. M. Thompson

Inventor:
F. Reese, Rev.

J. LOVE.

Plows.

No. 135,829.

Patented Feb. 11, 1873.

Fig. 2.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Witnesses:
J. A. Smith
J. E. Jones

Inventor:
John Love
Signed J. A. Smith
Attorneys.

J. T. HUNTER & D. L. H. MITCHELL

Plows

No. 136,245.

Patented Feb. 25, 1873.

Fig. 1.

Fig. 2.

Witnesses:
Henry J. Miller
E. L. Smith

Inventors:
J. T. Hunter
D. L. H. Mitchell
Signed Alexander Russell
Attorneys

K. MCKINNON.
Cultivators.

No. 136,254.

Patented Feb. 25, 1873.

J. W. HOWARD

Subsoil Plows.

No. 136,726

Patented March 11, 1873.

T. L. COTTEN
Plows.

No. 137,894.

Patented April 15, 1873.

J. ROOP.
Plows.

No. 138,197.

Patented April 22, 1873.

G. B. BRIMMINGHAM.
Sub-Soil Plows.

No. 140,460.

Patented July 1, 1873.

Witnesses:
C. F. Bates
George E. Upham,

Inventor:
G. B. Birmingham,
Chapman & Smith Co.
Attorneys.

A. L. P. VAIRIN.
Sub-soil Plows.

No. 140,660.

Patented July 8, 1873.

Witnesses:
G. B. Bates
George E. Upham,

Inventor:
A. L. P. Vairin,
Per
Munn & Co.
Attorneys.

E. CUTCLIFFE.
Subsoil Attachments for Plows.

No. 143,335.

Patented September 30, 1873.

Witnesses:
John R. Young

Inventor:
Edward Cutcliffe, by
Prindle & Co., his Attys.

J. R. TURNER & J. JACOBS.
Subsoil Plows.

No. 144,487.

Patented Nov. 11, 1873.

Witnesses:
E. J. Hoff
H. J. Hoff,

Inventor:
J. R. Turner & J. Jacobs,
Per
Munn & Co.
Attorneys.

E. BOURNE.
Plows.

No. 144,653.

Patented Nov. 18, 1873.

Witnesses:
Richard Jones
John H. Bennett

Inventor:
E. Bourne
Henry Bennett

K. MCKINNON.
Cultivator-Plows.

No. 145,222.

Patented Dec. 2, 1873.

Fig. 2.

Fig. 3.

Witnesses:

James K. McKinnon

Inventor:

James K. McKinnon
By John H. Bennett
his Attorney

W. WARINNER.
Plows.

No. 152,201

Patented June 16, 1874

Fig. 3.

WITNESSES:

Charles H. Warinner
Charles H. Warinner

INVENTOR:

W. Warinner
BY
M. L. G.
ATTORNEYS.

A. L. MANNING.
Subsoil Plows.

No. 153,587

Patented July 29, 1874.

Fig. 1

Fig. 2

WITNESSES:

A. L. Manning
By J. H. Bennett
his Attorney

INVENTOR:

A. L. Manning
BY
J. H. Bennett
ATTORNEYS.

E. S. WATSON.
Plows.

No. 154,106.

Patented Aug. 11, 1874.

J. T. MANGHAM.
Pulverizing Subsoil Plows.

No. 155,249.

Patented Sept. 22, 1874.

I. M. GRIFFIN.
Subsoil-Plows.

No. 155,438.

Patented Sept. 29, 1874.

I. M. GRIFFIN.
Subsoil-Plow.

No. 8,342

Reissued July 23, 1878.

A. RIGBY.
Plow.

No 159,967

Patented Feb. 16, 1875

Fig. 1.

Fig. 2.

Witnesses:
P. C. O'Brien
H. C. O'Brien.

Inventor:
A. Rigby
per J. H. Hollingsworth
Attorney

D. B. SMITH
Plow.

No 162,962

Patented May 4, 1875

Fig. 1

Fig. 2

Fig. 4

Fig. 3

Witnesses:
W. H. Hollingsworth
John H. Kemon

Inventor:
D. B. Smith
BY
Attorneys

A. GRIGGS.
Plow.

No 164,730.

Patented June 22, 1875.

Witnesses:
E. Mott
A. F. Terry

Inventor:
Augustus Griggs
BY
Attorneys

I. FREEMAN.
Plow.

No. 169,799.

Patented Nov. 9, 1875.

Fig. 1

Fig. 2

Witnesses:
W. H. Hollingsworth
John H. Kemon

Inventor:
I. Freeman
BY
Attorneys

W. H. SUTTON.
FLOW.

No. 178,087.

Patented May 30, 1876.

WITNESSES:
Francis M. Cook,
John Goethals

INVENTOR:
W. H. Sutton
BY *Wm. H. [Signature]*
ATTORNEYS.

A. A. PORTER.
SUBSOIL FLOW.

No. 184,171.

Patented Nov. 7, 1876.

WITNESSES:
Frederick L. Quaint,
Henry K. Miller

INVENTOR:
A. A. Porter
Alvander [Signature]
ATTORNEY.

B. F. JONES.
PLOW.

No. 185,108.

Patented Dec. 6, 1876.

Witness:
W. H. Quaint,
John Goethals

Inventor:
B. F. Jones.

J. JARRELL.
SUBSOIL FLOW.

No. 187,637.

Patented Feb. 20, 1877.

WITNESSES:
John [Signature]
George & [Signature]

INVENTOR:
J. Jarrell
Willard [Signature]
ATTORNEYS.

C. ATKINSON.
Plow.

No. 189,912.

Patented April 24, 1877.

WITNESSES:

E. Mott
J. H. Jallabrough

INVENTOR:

C. Atkinson
BY *M. M. Mott*
ATTORNEYS

L. J. LOWE.
Plow.

No. 199,558

Patented Jan. 22, 1878.

Attorneys:
M. Mott
Prof. Brooks

Inventor:
Leonard J. Lowe
BY *C. H. Brown & Co.*
ATTORNEYS

A. SIPE.
Plow.

2 Sheets—Sheet 1

No. 199,750

Patented Jan. 29, 1878.

WITNESSES:
Ed. J. Nottingham
A. M. Bright

INVENTOR:

Archibald Sipe
BY *B. Leggett & Leggett*
ATTORNEYS

A. SIPE.
Plow.

2 Sheets—Sheet 2

No. 199,750.

Patented Jan. 29, 1878.

WITNESSES:
Ed. J. Nottingham
A. M. Bright

INVENTOR:

Archibald Sipe
BY *B. Leggett & Leggett*
ATTORNEYS

W. J. PIRKLE
Plows

No. 200,755.

Patented Feb. 26, 1878.

Z. R. PERCEFULL.
Plow.

No. 229,455.

Patented June 29, 1880.

INVENTOR:

Z. R. Percfull
BY M. L. G.
ATTORNEYS.

(No Model.)

C. BOUL
Plow.

No. 232,877.

Patented Oct. 5, 1880.

Attest:

Charles Boul
John H. L. G.

Inventor:

Charles Boul
by C. M. L. G.
att.

(No Model.)

E. SQUIRES.
Plow.

No. 240,558.

Patented April 26, 1881.

Witnesses:

E. M. L. G.
J. L. G.

Inventor:

E. Squires
by J. M. L. G.
att.

(No Model)

J. J. ADCOCK, G. J. LUMPKIN & M. WHITE
PLOW.

No. 253,489

Patented Feb. 14, 1882.

Witnesses

Phil Knott
Harry Smith

Inventors

John A. Adcock
G. J. Lumpkin
Milton White

By *J. L. Smith* atty.

(No Model)

S. B. DOVER.
SUBSOIL PLOW

No. 269,027

Patented Dec. 12, 1882.

Witnesses

William A. Heston
John A. Heston

Inventor

S. B. Dover
A. C. Heston

WEED-TURNERS.

	<i>Plate</i>	<i>Claim</i>		<i>Plate</i>	<i>Claim</i>		<i>Plate</i>	<i>Claim</i>
Ballard, U.	1096	671	Hill, D.	1089	669	Rarick, B. F., W. P. and J.	1097	671
Banworth, W.	1095	670	Hoefelman, W. H.	1093	670	Redman, J.	1097	671
Barrows, W. A.	1095	671	Hughes, D. W.	1096	671	Richardson, L. B.	1093	670
Bier, J. W. and Wampler,			Hughes, W. J.	1093	670	Russell, G. W.	1092	669
J. B.	1090	669	Kennedy, R. V.	1099	672	Sherrill, J.	1098	671
Blodgett, E. A.	1093	670	Kilmer, J.	1089	669	Smith, M. T.	1090	669
Brinly, T. E. C.	1089	669	Kilmer, J.	1090	669	Smith, G. B.	1092	670
Cates, J. G.	1089	672	McDonel, G. H. Thorn,			Smith, A.	1094	670
Collins, S.	1091	669	J. and Ewing, S	1096	671	Temples, J. J.	1098	672
Dodridge, L. M.	1092	670	Martin, W. J.	1091	669	Thornton, J. B., McDonel,		
Dysard, J. W.	1094	670	Mowry, A. J. and Chance,			G. H. and Hale, A.	1095	670
Eastwood, I.	1092	670	H.	1094	670	Tilton, D. L.	1089	669
Harbough, J. R.	1098	672	Munson, J. D.	1097	671	Vaggy, L. W. and Loope,		
Harbert, T. M.	1097	671	Newton, R.	1095	670	J. N.	1096	671
Harper, C. A.	1091	669	Osburn, A. and Wulzen,			Yardley, E. N.	1094	670
Henry, J. C.	1090	669	E.	1091	669			

D. Hill,
Plow Latching Hooks.

No. 3717

Patented, Oct. 7, 1894.

J. H. H. H.
Plow Latching Hooks.

No. 19725.

Patented, Mar. 23, 1858.

T. E. C. Brinley,

Plow Fender.

No. 19,909.

Patented, Apr. 13, 1858.

J. H. H. H.

Plow Fender.

No. 45,454.

Patented, Dec. 1, 1858.

Witnesses,
Henry Lewis
C. L. Topham

Inventor,
John H. H. H.
for himself
Attorney

*J Kilmer,**Plow Fender.**No. 46755.**Patented Mar. 7, 1865.**Fig. 1* *Fig. 2*

Witnesses;
C. L. Toppleff
Geo. Busch

Inventor;
Josiah Kilmer
per Mun & Co
Attorneys

*Bier & Wampler.**Plow Fender.**No. 57274**Patented Aug. 21, 1866.*

Witnesses
John Mac Neil
Wm. Henderson

Inventors
J. W. Bier
J. B. Wampler

*M. T. Smith,**Plow Fender.**No. 59468.**Patented Nov. 6, 1866.**Fig. 2* *Fig. 1*

Witnesses;
P. A. Jackson
W. H. Brown

Inventor;
M. T. Smith
per Mun & Co
Attorneys

*J. C. Henry.**Plow Fender.**No. 57542.**Patented Aug. 6, 1867.*

Witnesses
Geo. Lang
J. M. Master

Inventor
J. C. Henry
by his attorney
J. S. Hinesstock

C. A. Harper.
Imp^d Cultivator.

N^o 73181

Patented Jan. 7, 1868.

Witnesses.

Thos. Smith
J. A. Fraser

Inventor.

C. A. Harper
Per Munn & Co
Attorneys

W. J. Martin.
Attachment for Plow.

N^o 74398

Patented Feb. 11, 1868.

Witnesses

John Smith
A. L. Lacey

Inventor

W. J. Martin
Per Munn & Co
Attorneys

S. Collins.

Attachment to Plows.

N^o 74666

Patented Feb. 13, 1868

Witnesses

Wm. A. Weeks
Q. F. Mayhew

Stephen Collins

Inventor

Prescott Pierce Co Wisconsin

John & Wilson,
Plow.

N^o 80,245.

Patented Jan. 26, 1868

Witnesses:

J. D. Smith
Wm. L. Morgan

Inventor

John & Wilson
Per Munn & Co
Attorneys

*G. W. Russell**Plow**N^o 92371.**Patented Jul. 6. 1869.*

Witnesses:

*E. J. Miller
W. H. Mason.*

Inventor:

*George W. Russell**L. M. Doddridge**Plow Fender**N^o 94,578. Patented Sept. 7, 1869* Witnesses:
*E. H. Clausen.
A. Rippey.*

Inventor;

*L. M. Doddridge**D. T. Holmes, atty**I. Eastwood,**Plow Fender.**No 106344.**Patented Aug. 16. 1870.*

Witnesses:

*John P. Fennell
H. W. Mygatt*

Inventor:

*Isaac Eastwood
By his attorney, H. C. Crawford**C. B. Smith**Plow Attachment**No. 121,207.**Patented Nov. 21, 1871.*

Witnesses

*W. C. Raymond
Emma Greenaway*

Inventor

*C. B. Smith, by
H. R. Bader, atty*

E. A. BLODGETT

Improvement in Weed-Buriers

No. 127,549

Patented June 4, 1872.

Witnesses:
J. H. [illegible]
[illegible]

Inventor:
E. A. Blodgett

W. H. HOEFELMAN.

Improvement in Plow-Cutters.

No. 130,698.

Patented Aug. 20, 1872.

Witnesses:
[illegible]
[illegible]

Inventor:
W. H. Hoefelman
Per [illegible]
Attorneys.

L. B. RICHARDSON.

Plows.

No. 140,434.

Patented July 1, 1873.

Witnesses:
[illegible]
[illegible]

Inventor:
L. B. Richardson
Per [illegible]
Attorneys.

W. J. HUGHES

Weed-Turner Attachments for Plows.

No. 148,299.

Patented March 10, 1874.

Witnesses:
[illegible]
[illegible]
Robt. No. 1 Bar.

Inventor:
W. J. Hughes
Per [illegible]
Loggins & Loggins

A. SMITH.

Weed-Turning Attachments for Plows.

No. 151,249.

Patented May 26, 1874.

Fig. 1.

Fig. 2.

Witnesses:
J. M. Wood
Samuel H. Henson

Inventor:
Alexander Smith,
By Wm. H. Henson.

E. N. YARDLEY.

Attachment for Plows.

No. 162,210

Patented April 20, 1875.

Fig. 1.

Fig. 2.

Witnesses:
Charles H. H.
Wm. H. Goodridge

Inventor:
Elisha N. Yardley,
By Wm. H. Goodridge

A. J. MOWBY & H. CHANCE.

Weed-Turner.

No. 163,881

Patented June 1, 1875.

Witnesses:
Charles H. H.
Wm. H. Goodridge

Inventors:
A. J. Mowby
H. Chance
By Wm. H. Goodridge

J. W. DYSARD.

Weed-Covering Attachment.

No. 164,155.

Patented June 8, 1875.

Fig. 1.

Fig. 2.

Fig. 3.

WITNESSES:

A. J. Mowby
H. Chance

Inventor:
Joseph A. Dysard
BY Wm. H. Goodridge
ATTORNEYS

J. B. THORNTON, G. H. McDONEL & A. HALE

Weed-Turner.

No 169,058.

Patented Oct. 19, 1875.

Fig. 2.

WITNESSES
J. B. Thornton
G. H. McDONEL
A. HALE

JOHN B. THORNTON
GEO. H. McDONEL
ALEX. HALE
BY *Levy & Co.* ATTORNEYS

R. NEWTON.
GRASS-LEVELERS.

No. 175,141.

Patented March 21, 1876.

Fig. 2.

WITNESSES
Mary B. Utley
C. H. B. B. B.

R. NEWTON
BY *Levy & Co.* ATTORNEYS

W. BANWORTH.
WEED-TURNERS FOR PLOWS.

No. 181,129.

Patented Aug. 15, 1876.

Fig. 2.

WITNESSES
James McLaughlin
Alex. G. Roberts

INVENTOR
W. Banworth
BY *W. Banworth* ATTORNEY

W. A. BARROWS.
PLOW-FENDERS.

No. 183,361.

Patented Oct. 17, 1876.

WITNESSES
H. A. B. B. B.

INVENTOR
W. A. Barrows
BY *W. A. Barrows* ATTORNEY

U. BALLARD.

WEED TURNING ATTACHMENT FOR FLOWS.

No. 184,030.

Patented Nov. 7, 1876.

WITNESSES:

Edward R. Matthews
S. S. Brown

INVENTOR:

Urbah Ballard
By Geo. Hunt & Co. Attys.

L. W. YAGGY & J. N. LOOP.

STALK, STUBBLE AND WEED TURNER.

No. 125,417

Patented Dec. 19, 1876

Witnesses:
A. M. M.
H. C. J. Smith

Inventors:

L. W. Yaggy
John Nicholas Loop

D. W. HUGHES.

FLOW ATTACHMENT

No. 186,344

Patented Jan. 16, 1877.

WITNESSES:

C. J. Butler
G. J. Moore

INVENTOR:

D. W. Hughes
G. J. Moore & Co. ATTORNEYS.

G. H. McDONEL, J. THORN & S. EWING.

WEED-HIDER.

No. 189,374.

Patented April 10, 1877

Witnesses:

J. H. J. W.
H. C. J. Smith

Inventors:

G. H. McDonel
John Thorn
S. Ewing

T. M. HARBERT.
WEED FOLDING ATTACHMENT FOR PLOWS.
No. 195,750. Patented Oct. 2 1877.

WITNESSES:

Thomas M. Harbert
Wm. C. Harbert

INVENTOR

T. M. Harbert
BY *Harbert*
ATTORNEYS.

J. REDMAN.
Plow-Attachment.
No. 197,665 Patented Nov. 27, 1877.

W. S. Deane
John D. Deane

Joseph Redman
BY *Deane & Deane*
ATTORNEYS.

B. F., W. P. & J. RARICK.
Trash Gatherer.
No. 202,051. Patented April 2, 1878.

WITNESSES:

John W. Rusty
Richard L. Clark

INVENTORS

William P. Rarick
James Rarick
Benjamin F. Rarick

J. D. MUNSON
Plow-Attachment.
No. 204,841. Patented June 11, 1878.

John D. Munson
James J. Shreeve

John D. Munson
BY *Shreeve & Shreeve*
ATTORNEYS.

(No Model.)

R. V. KENNEDY.
ATTACHMENT FOR PLOWS.

No. 253,395.

Patented Feb. 7, 1882.

WITNESSES
Edw. L. Dietrich,
Geo. B. Binkenberg

R. V. Kennedy
INVENTOR.
Louis Bagger & Co.
Attorneys.