

PROPOSED CONSERVATION OF *TINEA BJERKANDRELLA*
 THUNBERG, 1784 AND *PHALAENA (NOCTUA) CARDUI*
 HUBNER, 1790, BY SUPPRESSION OF *PHALAENA (TORTRIX)*
CARDUI STROM, 1783 (INSECTA, LEPIDOPTERA).
 Z.N.(S.) 2204

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1. The purpose of this application is to ask the International Commission on Zoological Nomenclature to use its plenary powers to suppress *Phalaena cardui* Ström, 1783 - GLYPHIPTERIGIDAE, so that two names *Tebenna bjer kandrella* (Thunberg, 1784) - GLYPHIPTERIGIDAE, and *Schinia cardui* (Hübner, 1790) - NOCTUIDAE, may continue in general current use.

2. The species-group name *cardui* as established in the combination *Phalaena (Tortrix) cardui* Ström, 1783, *Nye Saml. K. dansk. Vid. Selsk. Skr.*, vol. 2: 87, was subsequently used, so far as we can ascertain, as a valid name only by Wallengren, 1881, *Forh. Vidensk-Selsk. Christ.*, 1880(2): 18, and in a distribution list of Norwegian Lepidoptera, by Schøyen, 1893, *Forh. Vidensk-Selsk. Christ.*, 1893 (13): 38. In a recent work (Nye, 1975, *Generic Names Moths World*, vol. 1: 302) it was stated that *Phalaena cardui* Ström had remained unused for over 150 years and that the original description did not really fit any species. It is now known, however, that *cardui* Ström was last used 82 years ago, and although there are no known types of this nominal species (Ström did not maintain a collection - Henriksen, 1922, *Ent. Meddr.* vol. 15: 75), there is little doubt that Wallengren's (op. cit.) interpretation of this species as a senior subjective synonym of *Tinea bjer kandrella* Thunberg, 1784, was correct. Thus the latter, in general current use as *Tebenna bjer kandrella* (Thunberg, 1784) is a junior subjective synonym of the unused *Phalaena cardui* Ström, 1783.

3. The species-group name *bjer kandrella* as published in the combination *Tinea bjer kandrella* Thunberg, 1784, *D.D. Dissertatio Entomologica sistens Insecta Svecica* (1): 24, fig., has been the only name in use throughout this century for a small moth with a widespread distribution in the Palaearctic, Ethiopian and Oriental regions. It is the type-species of *Tebenna* Billberg, 1820, and has also been used as a valid name, when placed in *Chloreutis* Hübner, [1825] or *Porpe* Hübner, [1825] in many works including the following:

Benander, 1965, *Opusc. ent.* vol. 30: 8.

Bradley, 1965, *Ruwenzori Exped.* 1952, vol. 2(12): 104.

Clarke, 1971, *Smithson. Contr. Knowl.*, vol. 56: 167.

Esaki et al., 1957, *Icones Heterocerorum Japonicorum in coloribus naturalibus*, vol. 1: 32.

Hrubý, 1964, *Prodromus Lepid. Slovenska*: 261.

Kloet & Hincks, 1972, *Handbk Ident. Br. Insects*, vol. 11(2): 12.

Kodama, 1961, *Publ. ent. Lab. Coll. Agric. Univ. Osaka*, vol. 6: 39.

Osthelder, 1951, *Mitt. münch. ent. Ges.*, vol. 41: 118.

Toll, 1956, *Klucze Oznacz. Owad. Pol.*, vol. 27(39): 29.

Watson & Whalley, 1975, *Dictionary of Butterflies and Moths in Color*: 286.

4. The species-group name *cardui* as established in the combination *Phalaena* (*Noctua*) *cardui* Hübner, 1790, *Beitr. Gesch. Schmett.*, vol. 2(4): 84, pl. 1, fig. B, is a junior primary homonym of *Phalaena* (*Tortrix*) *cardui* Ström, 1783, and therefore should not be in use. It has, however, been in general current use ever since it was established for a moth distributed in Central Europe. It is the type-species of *Melicleptria* Hübner, [1823] and has also been used as a valid name, when placed in *Heliothis* Ochsenheimer, 1816, or *Schinia* Hübner, 1818, in many works including the following:-

Bergmann, 1954, *Gross-schmett. Mitteldtl.*, vol. 4(2): 831.

Boursin, 1964, *Bull. mens. Soc. Linn. Lyon*, vol. 33: 240.

Draudt, 1935, in Seitz, *Gross-Schmett. Erde*, vol. 3(Suppl.): 200.

Dufay, 1975, *Entomops*, vol. 5(37): 164.

Forster & Wohlfahrt, 1971, *Schmett. Mitteleur.*, vol. 4: 224.

Hartig & Heinicke, 1973, *Entomologica*, vol. 9: 207.

Hering, 1932, *Tierwelt Mitteleur. Suppl. 1* (Schmetterlinge): 465.

Hrubý, 1964, *Prodromus Lepid. Slovenska*: 743.

Kratochvíl, 1959, *Klíč Zvířeny ČSR*, vol. 3: 800.

Rondou, 1933, *Annls Soc. ent. Fr.*, vol. 102: 306.

5. If *Phalaena cardui* Ström is suppressed both for priority and for homonymy, then *T. bjerkanarella* can remain as a valid name, and *Phalaena cardui* Hübner will no longer be a junior primary homonym and can therefore also continue in general current use. If *P. cardui* Ström is not suppressed, then Ström's unused name will replace *T. bjerkanarella*, and *P. cardui* will have to be replaced by its only nomenclaturally available synonym, established as *Heliothis cardui purpurata* Staudinger, 1901.

6. Under the Code, Article 23(a-b) we consider that the application of the Law of Priority would disturb stability and accordingly ask the International Commission on Zoological Nomenclature:

(1) (a) to use its plenary powers to suppress the species-group name *cardui* Ström, 1783, as published in the combination *Phalaena* (*Tortrix*) *cardui* for the purposes both of the Law of Priority and of the Law of Priority and of the Law of Homonymy, and having done so,

(b) to place this name, as having been so suppressed, on the Official Index of Rejected and Invalid Specific Names in Zoology;

- (2) to place the species-group name *bjerkandrella* Thunberg, 1784, as published in the combination *Tinea bjerkandrella*, on the Official List of Specific Names in Zoology;
- (3) to place the species-group name *cardui* Hübner, 1790, as published in the combination *Phalaena (Noctua) cardui*, on the Official List of Specific Names in Zoology.



Nye, I W B, Karsholt, Ole, and Nielsen, E S. 1977. "Proposed conservation of *Tinea bjerkanrella* Thunberg, 1784 and *Phalaena* (Noctua) *cardui* Hubner, 1790, by suppression of *Phalaena* (Tortrix) *cardui* Strom, 1783 (Insecta, Lepidoptera). Z.N. (S.) 2204." *The Bulletin of zoological nomenclature* 34, 106–108.

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