

costa slightly more than twice as long as the second; third three-fourths as long as the second; second vein ascending rather sharply to the costa; fourth vein curved at the base, but nearly straight beyond, fifth and sixth sinuous; seventh distinct, long. Halteres pale yellow.

One specimen from Kent, Me., August 19, collected by Mr. C. W. Johnson. Type in the collection of the Boston Society of Natural History.

This species is related to *projecta* Becker which also occurs generally through New England (Boston, Mass.; Brookline, Mass.; Hanover, N. H.), but differs by having the lower pair of proclinate bristles weaker and the palpi less noticeably enlarged in the male as well as by the absence of a fringe of hairs on the posterior femora and the presence of only two scutellar bristles. It is also much like the European *A. hortensis* Wood, but the hypopygium is bristly.

## THE PANURGINE BEES OF THE GENERA HESPERAPIS, ZACESTA AND PANURGOMIA.

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The genus *Hesperapis* Ckll., 1898, was based on *H. elegantula* Ckll. from New Mexico. At the present time seven species are assigned to it, the range of the genus being from New Mexico to Southern California. The following table separates the known forms:

Thorax above with moss-like ochraceous hair; abdomen dull ferruginous. . . . .	<i>elegantula</i> Ckll.
Thorax with ordinary pubescence; abdomen not red . . . . .	1
1. Area of metathorax dull, or only the apical part shining. . . . .	2
Area of metathorax polished and shining. . . . .	3
2. Mesothorax strongly and closely punctured, somewhat shining; male about 11.5 mm. long. . . . .	<i>eumorpha</i> (Ckll.)
Mesothorax and scutellum shining, polished, finely punctured; male a little over 6 mm. long. . . . .	<i>nitidula</i> Ckll.
Mesothorax and scutellum dull, not evidently punctured . . . . .	<i>semirudis</i> Ckll.







haps closer to *H. elegantula* than it is to the other species assigned to *Hesperapis*, and its rank as a genus appears doubtful. I think we must call it *Hesperapis* (*Zacesta*) *rufipes* (Ashm.).

*Panurgomia* Viereck, 1909, was based on *P. fuchsi* Viereck, from Arizona. The unique specimen, a female, was unfortunately in bad condition. Mr. J. C. Crawford recently wrote me (February, 1916) that he considered the genus identical with *Hesperapis*, and the type species at least extremely close to *H. eumorpha* Ckll. This led me to reëxamine the type, and I found that it possessed the essential characters, so far as could be seen, of the group of *Hesperapis* which includes the majority of the species. The entirely dull area of metathorax agrees with the minor group of *H. eumorpha*, etc. The stigma is too large for typical *Hesperapis*. The clypeus is large, strongly convex, polished and shining. Hence it appears that *Panurgomia* is a valid subgenus (or genus?) for the group of *Hesperapis* which excludes the typical species.

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## A NEW ENGLAND ORTHOPTERAN ADVENTIVE.

BY ALBERT P. MORSE,

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### *Hapithus vagus* sp. nov.

A large and rather stout member of the genus. Rostrum of the vertex as broad as the basal joint of the antennæ. Antennæ, except the basal joint, long and extremely slender, two or three times as long as the body, pale brown, annulate with dusky on alternate joints, every third annulus darker; this pattern is very noticeable near the base and becomes indistinct apically. Maxillary palpi with last joint slender at base, a little securiform, twice as long as the width of the broadened tip.

Pronotum transverse, narrowed anteriorly, the front margin straight or slightly concave, the hind margin a little convex medially; lateral lobes twice as long as deep, smoothly convex below, the anterior and posterior angles rounded. Tegmina nearly or quite covering the abdomen, those of male flat above; of female a little convex, with densely and irregularly reticulate venation, the lateral field crossed by about seven parallel oblique branches of



Cockerell, Theodore D. A. 1916. "The Panurgine Bees of the Genera *Hesperapis*, *Zacesta* and *Panurgomia*." *Psyche* 23, 176–178.

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