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## THE GENUS *PODISMA* IN EASTERN NORTH AMERICA.

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*Podisma* (Latr.) is a particularly interesting genus of Melanopli, since it is the only one of that immense group that occurs in the Old World, where, indeed, it is represented by considerably more described species than it is in North America. It is also of interest from its distinctly boreal and alpine distribution, being almost peculiar to high latitudes or altitudes. It is a circumpolar genus, inhabiting the mountains and boreal parts of Europe, Asia and North America, a larger number of species having been described from Europe than elsewhere.

The North American species are found in two widely-separated regions: the Rocky Mountain region from Alberta to New Mexico in the west, and from North-western Ontario to Maine and south to Pennsylvania in the east. It is to the eastern species that the reader's attention will be directed in the present paper.

Although in some cases *Podisma* is but narrowly separable from *Melanoplus*, it is on the whole a distinct type, differing from the latter chiefly in the widely-separated mesosternal lobes, the interspace in the male being transverse and as wide or nearly as wide as the lobes themselves, and in the female strongly transverse and as wide as or wider than the lobes. The pronotum is always short and sometimes subcylindrical, with the lateral carinae poorly defined or absent, and the hind margin truncate or slightly emarginate, or at most obtusangulate. The tegmina are normally abbreviate, and often entirely absent. Of the North American species, those from the east have no tegmina, while of the western forms these organs are present in all but one species.

Two species of *Podisma* have been described from eastern North America, *P. glacialis*, Scudd., from the mountains of New England, New York and Pennsylvania, and *P. variegata*, Scudd., from specimens taken at Ithaca and Enfield Falls, Tompkins Co., N. Y. Before the description of the latter was published the writer sent drawings to Mr. Scudder of specimens of *Podisma* taken at De Grassi Pt., Lake Simcoe, Ont., which were pronounced *P. variegata*, and later on specimens from the same locality were sent to him. On Sept. 12th, 1900, while collecting at North