The Canadian Entomologist.

VOL. XVII. LONDON, ONT., FEBRUARY, 1885.

No. 2

THE COLLECTION OF PHYTOPTOCECIDIA, OR MITE GALLS, IN THE CAMBRIDGE MUSEUM.

BY DR. H. A. HAGEN, CAMBRIDGE, MASS.

The very extensive collection of galls from the U.S. presented to the Museum in 1870 by Baron von Osten Sacken, contains all his types. There are 138 different galls of Cynipidæ, gall flies 56 species, guest flies 23 species, parasites 66 species, and from Dr. Reinhard 38 types of European Further galls of other insects 121 species (Diptera 70, Hemiptera 30, etc.); the types of B. D. Walsh, galls of Salix, 13 species. these were later added by the Baron his types of Colorado galls, 12 species, and those of California, 15 species. The permanent aim to enlarge this excellent collection has met with success. The prominent additions from Europe are 88 species from Mr. Brischke, in Danzig, Prussia, and 96 types of oak galls from Prof. G. Mayr, in Vienna, Austria, and 18 types of mite galls from Dr. Thomas. The additions of N. Am. galls are very numerous; prominent among them are large additions from California, Washington Terr., and Mexico.

There were among the galls of the Baron a small number of mite galls; fortunately, also, the types of the two species described by Mr. Walsh, and a number of fungi. As some deformations of plants by insects are very similar to the deformations by fungi, it was decided best to make also a collection of fungi. For the determination of these and of the mite galls, formerly considered to be fungi, I am deeply indebted to the untiring kindness of Prof. W. J. Farlow, who has also added to the collection a large number of specimens.

The advancement of the scientific knowledge of the mite galls is comparatively new and principally due to the numerous and incessant studies and publications of Dr. Fr. Thomas, in Ohrdruf, Gotha. His yearly Reports in Dr. L. Just's "Botanischer Jahresbericht" are indispensable to the student of mite galls.

The literature of the mite galls of the U.S., as far as known to me, is