

## DESCRIPTION OF PLATE.

The photos for the plate were taken by Mr. Dwight Brainerd, Montreal.

Figs. 1 and 2 are a natural pair of *H. rutila*.

Fig. 3 is a pupa of *H. nitela*.

Fig. 4 is a gall of same, showing the opening made by the larva.

Fig. 5, *H. Stramentosa*.

All enlarged.

## CONTRIBUTIONS TO COCCIDIOLOGY.—II.

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During the past summer I have had the opportunity, through the kindness of Dr. Howard, of working over the unnamed material of the genera *Dactylopius*, *Ripersia*, and *Phenacoccus*, belonging to the collection of the Division of Entomology, U. S., D. A. I wish to record here the identity of *D. vastator*, Mask., with *D. filamentosus*, Ckll., and two species which I believe to be new. I hope in a subsequent paper to give further notes on some of the other species found, and also to record the new host plants found for a number of species.

*Dactylopius filamentosus*, Ckll., syn. *Dactylopius vastator*, Maskell.—I have before me a considerable quantity of material, specimens as follows: Type material of *D. filamentosus*, Ckll.; material from Island of Mauritius on Citrus sent by De Charmoy; and the following from U. S. D. A., Div. Ent.: 7232 on *Hibiscus*, Richmond, Natal; 7706 on Orange, Cape Town, Africa (Coll., Lounsbury); 5820 on Tamarind and Citrus, Honolulu, Sandwich Is. (Coll. Koebele). After carefully examining and comparing individuals from each lot of material, I can find no characteristic differences, and must therefore conclude that they are all one species. Since Cockerell described *filamentosus* in 1893 (*The Entomologist*, Vol. XXVI., p. 268, Sept., 1893), and Maskell described *vastator* in *Trans. N. Z. Inst.*, 1894, p. 65, *D. vastator*, Mask., will have to stand as a synonym of *D. filamentosus*, Ckll.

The No. 5820 material is of considerable interest, it being topo-type, and is that referred to by Maskell, *loc. cit.* The most prominent characters of this species are: the habit of aggregating into masses; the abundant white or yellowish secretions; and when boiled in potash staining the liquid a dark purple to blue-green and themselves turning blue-green; they are very hard to clear; the antennæ are of 7 segments: