Note.—The only western male of communis in the Canadian National Collection is from Aweme, Man. (Criddle) and has the surface of segment 7 as in occidentalis. This suggests a possible gradation between the two forms.

RUFA GROUP.

9. Tibiae bearing long erect black hair, those on hind tibiæ almost as long as tibial spurs; angles on margin of clypeus more pointed than in acadica; tarsi somewhat larger and thicker, especially those of the fore legs; black on abdomen never extensive enough to enclose yellow spots except on segment 1, segment 2 with a narrow black basal band widened in centre and then spreading sideways.

female 2075, austriaca Pz. Ottawa, Chelsea, Que., mid-June; Winnipeg, mid-July; Kaslo, B.C., mid-July. This species is parasitic in nests of V. rufa L. in Europe. Only males and females are known.

Tibiae practically destitute of long erect black hair, but sometimes a few short sub-decumbent black hairs on basal part of the joint_____10

10. Smaller (female length 14 mm., male length about 12 mm.) Darker. Clypeus flattened, anngles not specially prominent, clupeus bearing a longitudinal black line extending from near apex to base, widened apically. Lateral yellow stripe on prothorax narrow, parallel sided. Segments 2 to 5 each typically with a broad black band which in the female contains a small vellow spot near the apical margin on either side. These spots occasionally reddish or absent. On segments 3 to 5 the black band is widened to receive the spots which may not be completely enclosed at the sides. In the neuter, spots are present rarely on second segment only, and these are reddish, and second ventral segment occasionally has a red lateral spot. Hair denser and longer especially on

clypeus and segment 1, which is only slightly narrower than segment 2. Stipes dark, the apical portion narrower and more membranous.

male 4012, female 2072 acadica n. sp. Nova Scotia, (not rare); Painsec, N.B.; Ottawa; Kaslo, B.C.; Victoria, B.C. Near to vidua and the European species rufa. Makes aerial nest.

11. Segment 2 with a broad black band covering about eight-ninths of the segment in the middle. Yellow markings on thorax slightly paler than those on abdomen (? effect of cyanide). Prothorax stripe parallel sided. Stipes testaceous, the apical appendage wider and less membraneous.

male 2076, female 2073, vidua Sauss. Female, Port Rowan and Simcoe, Ont. (G. S. Spencer); neuter, Chatham, Ont. (F. W. L. S.); male, Toronto.

Segment 2 with the black area only slightly more extensive than on segment 3. Tint of yellow uniform. Prothoracic stripe subtriangular, nearly as wide as long in female.

female 4013, neuter 4014, atropilosa n. sp. One female Lethbridge, Alta. (F. W. L. S.); many workers, Vernon, B.C.; Keremeos, B.C.; Okanagan Landing, B.C. (F. W. L. S.)

