

NEW *THYRIDIDAE*, *URANIDAE*, AND *GEOMETRIDAE*
FROM SOUTH AND CENTRAL AMERICA.

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FAMILY *THYRIDIDAE*.

1. *Zeuserodes fasciata* spec. nov.

Forewing: ochreous, covered with brown striae and shadings, which assume the form of bands parallel to hindmargin; that along hindmargin itself broader and distinct, dark brown at anal angle, broad and paler brown at apex, where it curves round to costa; it is preceded by a distinct pale fascia, and this again by a dark central one which is broader towards costa and angled outwards beyond cell, containing an ill-defined dark cell-spot; basal half of wing crossed by three or four indistinct bands, one of which is marked by a blackish dash in the cell; extreme apex of wing whitish with a few black scales; fringe reddish brown, with darker mottlings beyond veins.

Hindwing: with the central and marginal brown bands very distinct; the pale intervals with irregular lines of brown striae; fringe with basal half dark brown, apical half paler.

Underside the same, the markings on the whole clearer.

Head, thorax, and abdomen dark brown, the shoulders pale ochreous.

Expanse of wings: 40 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., Dec. 1902, wet season (Oekenden).

Forewing acute, hindmargin very oblique, as long as inner margin; hindwing triangular with acute apex.

Distinguished from the other species by the absence of any pale patch at anal angle of hindwing.

FAMILY *URANIDAE*.

SUBFAMILY EPIPLEMINAE.

2. *Coelura dissocia* spec. nov.

♀. *Forewing*: grey-brown, covered with faint striae, which are distinct only in the marginal area; the produced apex and hindmargin narrowly black-brown; a black-brown line oblique from apex to four-fifths of inner margin, but the line is really retracted close before apex to costa; from two-thirds of costa a straight black-brown line meets the outer line on vein 5; a faint dark cell-dot; the basal line is very obscure, but is strongly curved and bent in cell; fringe dark brown with a pale base.

Hindwing: with a distinct double postmedian line, curved inwards above middle and obsolescent before costa; marginal striae pale, mixed with blackish above anal angle; fringe dark brown with pale base beyond a blackish marginal line.

Underside dull greyish ochreous, striated and suffused with grey brown,

Head, thorax, and abdomen concolorous.

♂. *Wings*: bone-colour, speckled and striated with blackish; lines hardly visible; underside ochreous, yellow towards hindmargins, with distinct short black striae between the veins.

Expanse of wings: 30 mm.

1 ♂, 1 ♀ from Palino ené, Paraguay, March (Montforts).

The difference in coloration, both above and below, in the two sexes is remarkable; the ♂ is considerably worn, which may partly account for the obscurity of the markings.

In neuration the ♂ agrees with *Coelura omana* Druce, and not with the type species *transversata* Warr., veins 2, 3, 4 of forewing rising all separate but near together, and veins 3, 4 of hindwing being stalked; in the ♀ the discocellular of hindwing is vertical, not oblique, and the cell longer.

3. *Erosia veninotata* spec. nov.

Forewing: brown, with black speckling and striation; the lines black, the central area between them slightly darker than the basal and marginal; first line from one-third of costa to one-third of inner margin, strongly outcurved and projecting on vein 4; outer line from before two-thirds of costa to three-fourths of inner margin, curved inwards at first, then from subcostal to vein 4 straight and vertical, obliquely curved inwards to vein 2, then again oblique outwards; this line is edged outwardly by a pale ochreous line, and veins 1, 2, 3, are pale ochreous across the darker fascia; a curve of dark scales before the excision; an undefined submarginal shade of blackish striae and traces of some dark shading in the basal space; fringe worn.

Hindwing: similar, but the inner line is edged inwardly with ochreous, as well as the second outwardly; the angle of the outer line at vein 4 acute; costal half of wing above median vein and vein 4 washed with pale chestnut; the lower half of fascia dark brown, followed by a paler, ochreous, band; a brown line from upper to lower tooth; a broad olive-brown line from base above median vein to angle of outer line.

Underside ochraceous, somewhat darker and striated with black towards hindmargins.

Face and palpi black-brown; vertex and thorax pale fawn; the abdomen darker; underside of abdomen and pectus whitish; legs ochraceous and grey.

Expanse of wings: 48 mm.

1 ♀ from Tunis, Costa Rica.

The markings are differently disposed from those of any of the forms that can be referred to *incendiata* Guen.

Gymnoplocia gen. nov.

Closely resembling *Dirades*, but differing in the following points; the furrow within the fold of inner margin of hindwing is quite bare, showing no trace of a pencil of hair, but instead a short tuft of spreading hairs rises from the base of the inner margin; at the base of cell of hindwing is a large hyaline oval space; costa of hindwing slightly sinuous, without hairs. In the forewing vein 11 is free but upcurved towards 12, without, however, anastomosing.

Type: *Gymnoplocia parvidens* Dogn. (*Epilema*).

4. *Saccoploca excisa* ab.(?) *nigrosticta* nov.

Forewing: less brown, more wood-colour, than in typical *excisa* Warr.; the costa black; the commencement of all the lines at costa black-brown, the two brown cross-lines less distinct; the small dark spots forming the submarginal line swollen into black blotches; the costal and marginal regions well sprinkled with lustrous blue scales, as in typical ♂♂.

Hindwing: without markings except the two brown cross-lines.

Underside paler, and thickly black-speckled; cell-spot of forewing black.

Head, thorax, and abdomen concolorous with wings; face dark brown.

Expanse of wings: 36 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6000 ft., July 1902, dry season (Ockenden).

Smaller than the type form; the excision beneath apex of forewing is deeper, and the margin below middle of wing concave, not straight. It is not, as at first seemed probable, the dry-season form of *excisa*, as typical females are to hand, taken at both seasons.

FAMILY GEOMETRIDAE.

SUBFAMILY MECOCERATINAE.

5. *Hyphedyle divisa* spec. nov.

Forewing: white, with a few blackish striae at base of costa; a broad dull red-brown stripe along middle of wing from base to hindmargin, uniting there with a brown dark-speckled apical patch, the inner edge of which is curved and darker; fringe brown above vein 3, white below.

Hindwing: white, with sparse brownish striae at base and along inner margin, and a pale brown line from anal angle to vein 4.

Underside of forewing with the stripe smoky grey striated with brownish; the apical blotch much mixed with white scales varied with dark fuscous rather coarse striae; a darker blotch on the curved inner edge and on hindmargin below apex; hindwing white with a few speckles; the line very faint.

Palpi fuscous; face and vertex white with grey centre; thorax mainly fuscous, with a few whitish scales intermixed; abdomen white, speckled with fuscous towards anus; legs white, dusted with fuscous and with the joints fuscous.

Expanse of wings: 44 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

SUBFAMILY CYLLOPODINAE.

6. *Dioptis vitrifera* spec. nov.

Forewing: iridescent hyaline; the costa and inner margin both narrowly black; a black bar straight from before middle of costa to anal angle, broadest above the middle; the veins in the basal half of wing blackish; beyond the bar a broad white space, all but touching costa and hindmargin; the apex of wing black, narrowing towards anal angle; fringe black.

Hindwing: wholly hyaline; the veins black; costal and hindmargins narrowly blackish, thinning out to a point at anal angle.

Underside the same.

Head, thorax, abdomen, and legs black; abdomen beneath whitish; the head parts are damaged; there appear to have been some white scales about the face and vertex.

Expand of wings: 38 mm.

1 ♂ from Pozuzo, Department Huancayo, Peru (Hoffmanns).

7. *Josia radians* spec. nov.

Forewing: brown-black; costal edge ochreous in basal half, orange at extreme base; a central orange streak from near base, starting from submedian vein below median, but soon enclosing the median, both edges straight, very slightly narrowing to near hindmargin.

Hindwing: with the orange streak broader; its upper edge quite straight, its lower convex from base to origin of veins 3 and 4, where the streak is constricted and becomes narrower, with both edges parallel; inner margin and fringe orange.

Underside with both streaks much broader, in the forewing including the cell; costal edge of both wings orange.

Palpi black, yellow beneath; face, sides of vertex, base of shoulders, some hairs at sides of metathorax, and lateral stripes of abdomen orange; centre of vertex, thorax, abdomen, and antennae black; abdomen below with a whitish streak.

Expand of wings: 35 mm.

1 ♂ from Onaca, Sta. Martha, 2200 ft., wet season, September—October 1901 (Engelke).

Nearest to *J. fastula* Warr., from Chimbo.

SUBFAMILY GEOMETRINAE.

8. *Mixocera torsilinea* spec. nov.

Forewing: delicate pale green; costal edge snow-white, edged beneath with rufous; the lines brown, very fine, and deeply contorted, so that they appear at first sight double; first close to base, darker dotted on veins and strongly incurved between them; outer line from three-fourths of costa to middle of inner margin, acutely dentate outwards on veins and inwards between them; a large round brown cell-spot; a brown spot close to base of costa; a dark marginal line interrupted at the veins; fringe white at base, rufous-tinged beyond.

Hindwing: without first line; cell-spot large; hindmargin bluntly angled.

Underside pale green, with cell-spots and marginal spots brown; costa of forewing yellowish; fringes pale.

Palpi externally fuscous, internally white; face olive (perhaps faded); fillet and antennae white; patagia deep green; thorax and abdomen pale green; dorsum with a large black spot on basal segment and smaller one on third; foretibiae fuscous, ringed with white; fore and middle knees fuscous.

Expand of wings: 26 mm.

1 ♂ from Palino ené, Paraguay, February (Montforts).

The antennae of the ♂ are armed with short pale fascicles of cilia, not pectinated; the palpi are short and thick, with the terminal joint quite small, very different from the slender palpi, with long terminal segment, of *Racheospila*.

9. *Oospila depressa* spec. nov.

Forewing: dull green; costal edge ochreous, with a few speckles; two large blotches of flesh-coloured ochreous striated with purplish and broadly edged with the same colour; one at apex, subquadrate, reaching vein 4; the other oblong at anal angle, occupying outer three-fifths of inner margin, its upper edge flat, reaching vein 2 on hindmargin and slightly curved above that vein towards its end; a marginal purple line; fringe ochreous, chequered with purplish beyond veins; cell-spot small, black.

Hindwing: with a lengthened apical blotch reaching from middle of costa to vein 4, its inner edge sinuate, indented on vein 6; anal patch small, reaching vein 2; a raised white cell-spot at upper end of discocellular.

Underside pale whitish green, the blotches showing through; costa of forewing yellowish.

Face and palpi dull red-brown; vertex white; thorax green; abdomen ochreous pink; the dorsum with red-brown crests.

Expanse of wings: 35 to 40 mm.

3 ♀♀ from Tuis, Costa Rica.

Smaller than the allied species; distinguished by the flattened anal blotch of forewing, and the wide green interval reaching to marginal line between the two pale blotches.

10. *Racheospila megastigma* spec. nov.

Forewing: semihyaline green; the costal area diffusely and irregularly red-brown, before the middle emitting from the lower edge a blunt projection to median vein inclosing the discocellular spot, as in *R. dependens* Warr., and at three-fourths an outwardly directed tooth on vein 6; the costal edge narrowly white; hindmargin red-brown, swollen into a bilobed projection between 4 and 6, and gradually broadening again from vein 3 to anal blotch; along the margin this red-brown is preceded by a yellowish tint; fringe (worn) brownish.

Hindwing: with a broad red-brown marginal border, narrowed from 3 to 4, running up narrowly along inner margin nearly to base; cell-spot large, red-brown.

Underside iridescent whitish green, the dark tints showing through.

Face and palpi rosy-red above, pale greenish below; fillet and antennae snow-white; vertex red-brown; thorax green; abdomen red-brown, with snow-white dorsal spots on each segment; legs and underside of abdomen pale greenish.

Expanse of wings: 26 mm.

1 ♀ from Tuis, Costa Rica.

The species is intermediate between *R. dependens* Warr. and *R. bidentifera* Warr.

SUBFAMILY STERRHINAE.

11. *Anisodes ruficosta* spec. nov.

Forewing: ochreous, with neat reddish striations; the shades accompanying the lines greyish brown and diffuse, imparting a general grey tint to the whole wing; costal streak reddish brown, the costal edge marked by black dashes at the commencement of the lines; the subcostal vein dull red; first line marked by six black spots, three in the intervals as well as on the veins; outer line at three-fourths, distinctly marked on the veins; a small dark cell-spot followed by a

cloudy median shade ; submarginal line pale, obscurely indicated by dark shades, close to margin ; a row of dark marginal spots ; fringe ochreous, mottled with reddish brown beyond veins.

Hindwing : similar, but the cell-spot a white oval with dark edge.

Underside of forewing dull rosy, of hindwing straw-colour, rosy-tinged ; all the markings darker rosy.

Face dark brown, paler below ; vertex and shaft of antennae ochreous white ; thorax reddish brown, tips of shoulders blackish ; abdomen like wings ; mouth parts damaged.

Expanse of wings : 26 mm.

1 ♂ from Bartica, British Guiana, June 1901.

Hindtibia with terminal spurs only.

12. *Emmiltis malepicta* spec. nov.

Forewing : dirty bone-colour, with a few black speckles ; costal area and lines very pale brownish ; the first line curved, at one-third : median and outer parallel to hindmargin, the median from costa at two-thirds, the outer at four-fifths, the latter alone marked by black dashes on veins, that on vein 6 projecting a little outwards ; submarginal line pale between two slight shades ; fringe paler, with very concise black spots at the base beyond the ends of the veins ; cell-spot small, dark.

Hindwing : similar, without first line.

Underside paler and clearer, without speckling ; forewing as far as median line, except along inner margin, testaceous grey ; cell-spots and outer lines blackish and distinct.

Thorax and abdomen like wings, the latter with a few dorsal dark specks ; collar brown ; face and palpi blackish ; vertex and antennal shaft pale ochreous.

Expanse of wings : 22 mm.

2 ♂♂ from R. Colorado, Peru, October 1902 (Watkins).

13. *Haemalea grisescens* spec. nov.

Forewing : pearl-grey, with a slight violet tinge and finely speckled with blackish ; the costa purplish fuscous ; the lines brown, wavy ; first and second nearly vertical at one-third and two-thirds of inner margin ; outer line from three-fourths of costa to four-fifths of inner margin, bluntly projecting above vein 4 and below vein 6 ; submarginal line macular, indistinct, close to hindmargin ; black marginal lunules between veins ; fringe rufous grey ; cell-spot dark brown.

Hindwing : similar, but without basal line ; the cell-spot in a pale space.

Underside glossy whitish, discoloured towards costa of forewing ; cell-spots outer, and marginal lines marked.

Face, palpi, vertex, and shoulders dark brown, the tips of shoulders almost metallic ; thorax and abdomen like wings ; last two segments of abdomen white with brown rings ; fillet and base of antennae snow-white ; abdomen beneath and legs whitish ; forelegs fuscous in front.

Expanse of wings : 26 mm.

1 ♂ from Palcazu, Junin Department, Peru (Sedlmayr).

SUBFAMILY HYDRIOMENINAE.

14. *Anapalta nivesecta* spec. nov.

Forewing: greenish ochreous (probably pale greenish when fresh), crossed by numerous olive-fuscous lines; these are placed almost exactly as in *A. subpulchrata* Warr. (*Epirrhoë*) from Bolivia (cf. *Nor. Zool.* vii. p. 175), from which the present species differs in having the middle of the dark central fascia occupied by a white blotch extending from costa to inner margin, or to vein 1, its edges running parallel to the lines of the outer band, and containing the black cell-spot; the submarginal line is swollen into a white spot between veins 3 and 4, and sometimes also between 2 and 3. In all other respects the species are alike, but on the underside *nivesecta* is more ochreous, with less green.

Expanse of wings: 40 mm.

2 ♂♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Ockenden).

This may very likely be an aberration (or a local form) of *A. subpulchrata*; but as that is from Bolivia and the present form only from S.E. Peru, I have preferred to describe it as distinct. *Grumata* Feld., *batis* Warr., and *niveigutta* Schaus probably stand in a similar relation to *emberizata* Gnen.

15. *Hammaptera dispansa* spec. nov.

Forewing: greyish olive-green, slightly speckled; the lines fuscous and blackish; basal patch narrow, limited by two or three dark lines forming a band; the pale band beyond traversed by two or three lines of dark scales; inner band of central fascia at one-third, formed of three dark lines filled in with darker olive, the inner nearly straight, the outer angled outward, on median vein and running out along inner margin as a black point; outer band of three lines, the two inner parallel to each other, angled slightly at vein 6 and more prominently at vein 4, insinuate in submedian interval, the outermost line running widely outwards to vein 4, then incurved; submarginal line irregular and obscure, but preceded by a brown blotch marked with three black lines on costa, by a smaller blotch beyond cell, and a slight shade at anal angle; marginal line of interrupted black dashes; fringe greenish, chequered with dark beyond veins.

Hindwing: smoky fuscous; the hindmargin and fringe paler, greenish.

Underside dirty ochreous-greenish, with traces of a band of three obscure dark lines and a dusky marginal border, interrupted at middle.

Head, thorax, and abdomen dull greenish mottled with fuscous.

Expanse of wings: 35 mm.

1 ♀ from Onaca, Sta. Martha, 2200 ft., September, October 1901, wet season (Engelke).

Nearest to *strenuaria* Wik.

16. *Hammaptera fumida* spec. nov.

Forewing: pale grey, overlaid with darker olive-grey; the lines dark grey; central fascia with the inner edge well curved and slightly wavy, from one-fourth of costa to one-third of inner margin, the outer edge from beyond middle of costa

running nearly straight and oblique outwards to below vein 4, forming a prominent tooth between 3 and 4, then oblique inwards to two-thirds of inner margin, the oblique upper half blackish; the fascia is filled up with olive-grey, and contains two finer lines and the cell-spot; bands on either side pale, with a dark wavy middle line; submarginal line pale, wavy, the teeth followed by dark wedge-shaped marks to margin; pairs of rather large dark spots at the vein-ends; fringe pale grey; basal area in the unique specimen ochreous, but this appears the result of a stain, and the natural tint was probably grey.

Hindwing: smoky olive-fuscous, darker along hindmargin beyond a paler submarginal band; fringe olive-grey, the inner margin dark grey.

Underside smoky grey; marginal bands blackish grey beyond a paler band; cell-spots black; no pale spots at apex or along margin.

Head, thorax, and abdomen olive-grey; inner edge of patagia blackish; dorsum smoky dark grey, with base and anal tufts pale.

Expanse of wings: 34 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

The inner margin of hindwing is short and the anal angle truncate. In the shape of outer edge of central fascia of forewing it agrees with *H. nigritineata* Warr. from Paraguay.

17. *Hypolepis fulva* spec. nov.

Forewing: greyish ochreous, tinged with bright fulvous; the basal patch, central fascia, and marginal lunules olive-fuscous; basal patch small, dark on costa and broader, narrowed close to base on inner margin, edged with paler; central fascia obliquely sinuous, with crenulate edges, broadly interrupted by fulvous along the median vein, and indented in cell on its inner edge; above the middle wholly dark, below sprinkled with whitish; both edges margined with a pale brown-edged line; marginal lunules obscure, but edged inwardly with paler, the ends of the veins broadly fulvous; fringe mottled olive and fulvous.

Hindwing: greyish ochreous, with traces of dark central line; fringe spotted with dark.

Underside of forewing dark grey; the veins and a subcostal streak bright fulvous; the grey intervals towards apex dappled with ochreous and dark grey; hindwing whitish striated with fuscous; cell-spot and interrupted outer line blackish.

Head, thorax, and abdomen fulvous; antennae dark fuscous.

Expanse of wings: 26 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., October 1902, dry season (Ockenden).

18. *Hypolepis fuscata* spec. nov.

Forewing: olive-brown, with dark fuscous suffusion; costa finely dotted ochreous and brown; the central fascia bordered by two nearly straight pale ochreous bands, starting from subcostal vein, the first at one-third, the second from three-fourths of costa to two-thirds of inner margin, slightly curving inwards; a pale spot above origin of vein 4 just beneath the dark cell-spot; basal patch edged by a darker line slightly bordered with pale; a pale oblique streak from

apex, striated with olive, reappearing again at vein 4, but interrupted between by a large fuscous marginal triangular patch; fringe chequered, olive-brown and ochreous.

Hindwing: dark brownish fuscous, without markings.

Underside of forewing pale lilac-grey; a broad costal streak and the veins towards apex orange; a pale ochreous streak from apex with brown striae, preceded by two darker brown patches: hindwing cream-colour, speckled with brown, the upper veins yellow; a brownish cell-spot and traces of two interrupted lines.

Palpi pale olive-brown; face brown; vertex and collar ochreous; shoulders and patagia dark brown, their tips ochreous; abdomen brown with pale rings; abdomen beneath and tuft ochreous; legs ochreous mottled with dark brown.

Expanse of wings: 22 mm.

1 ♂ from Rio Colorado, Peru, October 1902 (Watkins).

19. *Hypolepis tripartita* spec. nov.

Psilodes tripartita Warr., *Nov. Zool.* xi. p. 72, ♀.

The ♂ of this species, which I have lately been able to examine, has the tuft of hair on the underside of the abdomen characteristic of *Hypolepis*, to which genus it must be transferred.

20. *Orthoprora albiplaga* spec. nov.

Forewing: reddish brown, this colour restricted to basal third and the hindmargin at apex and anal angle, the rest of the wing occupied by a dull white cloud obliterating all markings, but containing a double blackish spot on costa, indicating origin of an outer line, and a slight spot on discocellular followed by a faint ochreous cloud; along the costa the white is dusted with grey scales; subcostal vein from base reddish fulvous, and a narrow streak of the same colour along inner margin nearly to anal angle; a small grey space at base on inner margin, followed by a double pale line, which below the submedian vein becomes white and curves round as a whitish streak to join the large white area; a faintly paler submarginal waved line is visible in the dark apical and anal areas; dark marginal dashes; fringe brown, with fine pale dashes at veins.

Hindwing: pale slaty-grey, the fringe darker.

Underside very pale slaty-grey, darker along margins; cell-spots dark in both wings.

Head and thorax brownish fuscous; abdomen cinereous; shoulders and tips of palpi pale.

Expanse of wings: 35 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6000 ft., July 1902, dry season (Ockenden).

21. *Orthoprora balteata* spec. nov.

Forewing: dull vinous, somewhat mixed with greenish; the lines and shades blackish; across the wing in the centre of the central fascia a pale green band runs parallel to hindmargin, much as in the Palaearctic genus *Gonanticlea* Swinh. On each side of this band are three blackish lines, the intervals filled up with

vinous, and blackish-tinged in the cell; the outermost of the outer three, forming the edge of the central fascia, strongly dentate outwards, the inward teeth on the veins black and thick, the whole finely edged with greenish and followed by two obscure waved dark lines; submarginal line close to margin interrupted, pale, preceded beyond cell by a triangular velvety blackish blotch, the oblique upper edge of which runs into apex; the space above and below it paler, pinkish-brown; a black marginal line interrupted by the pale veins; fringe greenish; basal patch small, dark vinous edged with blackish; space between it and central fascia broader on costa than on inner margin, curved outwards in middle and edged with black at costa and inner margin.

Hindwing: uniform smoky fuscous, the hindmargin deeper, the fringe paler.

Underside of both wings dull fuscous, with the markings indistinctly darker; cell-spots black.

Head, palpi, and thorax fuscous and rufous; collar rufous ochreous; abdomen cinereous fuscous; metathoracic tuft vinous black.

Expanse of wings: 32 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, November 1902, wet season (Ockenden).

22. *Psaliodes brachiata* spec. nov.

Forewing: ochreous with a slight yellowish tint; the markings dark olive; a basal patch, interrupted on inner margin, its hindmargin rounded; central fascia with its inner edge straight and oblique at two-fifths, its outer irregularly waved, uniting below middle with the central part of submarginal band and that with the subapical triangle; a dark blotch on costa and diffuse cloud at anal angle indicate the ends of the submarginal band; fringe ochreous and olive; the broad Y-shaped band between basal patch and central fascia on the costa is marked with a brown cloud.

Hindwing: dark grey, with central line of underside showing through; fringe paler, chequered with dark.

Underside of forewing dark grey, with a yellowish patch from apex and on hindmargin; hindwing yellow with dark central line and strigae on costa.

Head and thorax ochreous; sides of shoulders and patagia olive-brown; abdomen missing.

Expanse of wings: 17 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., October 1902, dry season (Ockenden).

23. *Psaliodes dislocata* spec. nov.

Forewing: dark brown, along the costa finely speckled with yellow; basal area traversed at middle by a sinuous white line; a pale inwardly oblique band at one-third, separating basal area from central fascia, not reaching above subcostal vein; its edges are silvery white, its centre buff, finely bordered with brown scales, and on it lies the black cell-spot; outer line silvery white, double, from vein 7 to 4 bracket-shaped and vertical with some yellowish scales between the two arms, joined externally at vein 5 by a slightly zigzag white submarginal line, which runs obliquely inwards to vein 5, then outwards to hindmargin at vein 4, on which it forms a white arrowhead with a yellow dash on the vein at its centre; all three

lines are interrupted between veins 4 and 2 by the brown ground-colour, reappearing as three parallel white lines acutely angled basewards on the submedian fold, separated by yellow, brown-edged lines; fringe distinctly chequered, dark brown and buff; in the basal patch on the median vein is an elongated dash of buff scales.

Hindwing: dark fuscous, pale along costal edge; cell-spot darker; a slight dark central line; fringe yellow chequered with black.

Underside of forewing dull cinereous; subcostal area and three subapical veins orange-yellow, peppered with grey and white; the three approximated white lines beyond cell well marked: hindwing white with iron-grey striations; cell-spot, median and outer lines dark grey, mixed with yellow scales; the costal edge yellow; fringe as above.

Head and thorax olive-brown with an admixture of paler scales; palpi ochreous, dusted with olive-brown; abdomen fuscous; legs and antennae mottled, fuscous and pale ochreous.

The ♀ is paler throughout, the brown being more broken up by pale scales, especially along the veins.

Expanse of wings: 35 mm.

1 ♂, 2 ♀♀, from Santo Domingo, Carabaya, S.E. Peru; the ♀♀ dated July 1902, dry season, 6000 ft., the ♂ December 1902, wet season, 6500 ft. (Ockenden).

Allied to *lisera* and *fractifascia* Dogn., and to *nodosa* and *fractilinea* Warr.

SUBFAMILY ASTHENINAE.

24. *Amaurinia coerulea* spec. nov.

♀. *Forewing*: pale blue-green, with slightly darker green cross-bands; the central area edged by darker green lines and crossed by two others, and so appearing somewhat darker; marginal area with three pale and dark bands alternately; the pale line of ground-colour edging central fascia alone distinct; an obscure dark cell-spot; marginal line fine, dull purple; fringe white; costa slightly mottled dark and light.

Hindwing: similar.

Underside paler, with the darker lines obscurely expressed; costa of forewing slightly discoloured.

Thorax and abdomen like wings; vertex and face darker, olive-green; fillet and base of antennae white.

The ♂ is somewhat darker, more greyish green.

Expanse of wings: ♂ 28 mm.; ♀ 30 mm.

1 ♂, 3 ♀♀, from Tucuman, Argentina, May 1902 (Diucelli).

25. *Cambogia trillista* spec. nov.

Forewing: pale ochreous overlaid with light brownish olive; the lines vinous; four antemedian, obscure, being lost in the denser tinting of the base, one close to base, one just before the vinous cell-spot, and two between them; a postmedian band formed of three vinous lines, the inner one regularly lunulate-dentate, the outer bluntly angled on veins 4 and 6 and thickened between; two lunulate submarginal lines, of which the inner has the ends of the lunules thickened into spots; from the postmedian band two vinous streaks run into the fringe, one

along vein 4, the other between veins 7 and 8; fringe chequered with vinous beyond veins and with a very fine basal line.

Hindwing: with two obscure lines near base, followed by the vinous cell-spot; the postmedian band distinct on inner margin, obsolescent at costa; three confused submarginal lines; the whole hindwing is paler, except along hindmargin.

Underside pale ochreous, with all the lines vinous and distinct; base of forewing suffused with vinous.

Head, thorax, and abdomen olive-tinged ochreous; fillet and antennal shaft paler; praeanal segments of abdomen red, continuing the postmedian fascia of hindwings.

Expanse of wings: 17 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., October 1902, dry season (Oekenden).

SUBFAMILY TEPHROCLYSTIINAE.

26. *Tephroclystia cuneilineata* spec. nov.

Forewing: basal area dull orange edged by a straight oblique line from one-fourth of costa to one-third of inner margin: the middle of the wing grey, thickly powdered with black; marginal area occupied by four deeply lunulate dark lines with pale intervals; fringe chequered darker and lighter grey, the base darker throughout.

Hindwing: with the inner margin dull orange, the base and costal area whiter; the rest as in forewing; a black marginal line; fringe at anal angle orange.

Underside lilac-grey, powdery; the lines of outer area indistinctly expressed; base diffusely orange-tinged; cell-spots dark on both wings.

Head, thorax, and abdomen all dull orange; legs fuscous, dotted with paler.

Expanse of wings: 24 mm.

1 ♂, 1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Oekenden).

A very distinct species.

SUBFAMILY HETERUSIINAE.

27. *Cerynia cupreata* spec. nov.

Forewing: bright orange-red; the base narrowly black, widening towards inner margin; costal edge black; the apex broadly, the hindmargin narrowly black from middle to anal angle, the inner edge well curved; a black curved postmedian line at two-thirds, thick from costa to middle, then almost obsolete; fringe black.

Hindwing: black, with a broad submarginal crescent orange-red.

Underside of forewing as above, but the costal edge between the line and marginal band whitish; hindwing with the black areas mixed with whitish scales.

Head, thorax, and abdomen deep black; hairs of the face and palpi mixed with orange.

Expanse of wings: 18 mm.

1 ♂ from Pacapampa, near Recuag, Peru, 3500 m., December 1899, wet season (Simons).

28. *Cerynia pamphilata* spec. nov.

Forewing: bright reddish orange; the base, inner margin, costal edge, a curved line just beyond middle, and the hindmargin black; this last band is broad at apex, and narrows off to a point at anal angle; fringe worn, black.

Hindwing: like forewing; basal black area larger.

Underside much paler, fulvous; basal patch, costal streak, and marginal band olive-grey, the cross line with a few black scales; hindwing with all the dark areas of upperside olive-grey.

Head, thorax, and abdomen deep black, with a few pale scales intermixed.

Expanse of wings: 19 mm.

1 ♀ from Huamachuco, Peru, 3200 m., November 1899, dry interval (Simons).

29. *Heterusia ovaliplaga* spec. nov.

Forewing: dull black, paler towards base; costa at extreme base and costal-edge at middle red: from below one-third of costa an oblique whitish streak to lower end of cell, widening downwards, and towards costa clouded with brown scales, separated by the black median vein from a long oval white blotch lying between veins 2 and 3; below three-fourths of costa a slight white mark; fringe black, slightly speckled with white in upper half.

Hindwing: white, with broad black border from half of costa to anal angle; a small dark cell-spot at top end of discocellular; fringe black chequered with white between veins 3 and 6; base of wing narrowly black.

Underside of forewing ruddy brown, with bluish white scales at base, and varied with black scales along costa and at apex, wholly black at anal angle, embracing the oval white blotch, which is larger than above; the white streak at one-third and the white spot at three-fourths both broader and running to costal edge; hindwing with the border browner and speckled with yellow scales, at anal angle with a round patch edged by bluish scales.

Head and thorax brown-black, varied with red scales; abdomen blackish sprinkled with bluish white scales along the sides and white beneath; anal tuft with some red scales.

Expanse of wings: 34 mm.

1 ♂ from Pozuzo, Department Huancayo, Peru (Hoffmanns).

Belongs to the group including *columbi* Th. Mg., and *conon*, etc.

SUBFAMILY DEILINIINAE.

30. *Lomographa extremata* spec. nov.

Forewing: glossy white, very sparsely dusted with purplish atoms, except towards hindmargin, where they are denser, forming a faint submarginal band; the margin itself narrowly tinged with purplish throughout; two grey transverse lines, the inner at two-fifths, erect from inner margin, but not reaching costa, the outer at two-thirds, parallel to hindmargin; costa ochraceous; fringe purplish; marginal line fine, interrupted.

Hindwing: with small black cell-spot and outer curved line; no marginal shade.

Underside of both wings and fringes white; costa of forewing yellowish.

Face, palpi, and antennae brown; vertex, thorax, abdomen, and base of antennae white.

Expanse of wings: 30 mm.

2 ♂♂ from Chanchamayo, Peru (Schunke).

Nearest *L. nobimargo* Warr., but without the black blotch of underside.

SUBFAMILY PALYADINAE.

31. *Aplogompha laeta* spec. nov.

Forewing: bright yellow, with the brown streaks restricted to the costal area; the dark marginal area much broken up, limited inwardly by two irregularly sinuous brown streaks, not touching one another; apical and marginal areas fulvous; a large yellow blotch before middle of hindmargin; fringe fulvous with grey tips; the metallic spots as in *lafayi* Dogn.

Hindwing: wholly yellow; a few brown striae on inner margin only; the submarginal row of metallic spots and marginal metallic line as in *lafayi*; fringe fulvous.

Underside paler, with all the markings deep brown.

Head, thorax, and abdomen yellow, spotted with brown; the abdomen with brown segmental rings.

Expanse of wings: 19 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

Smaller and much brighter than typical *lafayi*; I have seen several other examples, all from Chanchamayo; if not a distinct species, it is, at least, a persistent local form, differing as much in one direction from *lafayi* as *oppletaria* Warr. (= *yerma* Dogn.) does in the other.

Cirrhosoma gen. nov.

Forewing: triangular; costa straight; hindmargin straight, hardly oblique; inner margin straight.

Hindwing: kite-shaped, the angle at vein 4 blunt, the hindmargin faintly indented between veins 6 and 7.

Palpi short, blunt; antennae of ♂ ciliated; tongue and frenulum present; antepenultimate segment of abdomen with large lateral tufts of hair.

Nervation: forewing, cell half as long as wing; discocellular slightly oblique, very fine; first median nervule at two-thirds, second close before third; radials normal; 7, 8, 9, stalked; 10 and 11 coincident; hindwing, costal bent down and closely approximated to subcostal for half of cell, 6 and 7 divergent; no radial.

Type: *Cirrhosoma translucida* spec. nov.

The genus is allied to *Berberodes* Gneu. and *Ballantiophora* Butler, but in this case the abdomen, and not the wing, is tufted.

32. *Cirrhosoma translucida* spec. nov.

Forewing: glossy white, semi-transparent; costa gilded and speckled with purplish; very faint traces of an outer line parallel to hindmargin, the marginal area with faint brownish striae; fringe white.

Hindwing: with traces of two lines, median and postmedian; the marginal striae plainer.

Underside all white; the costa of forewing gilded yellow.

Face, vertex, and palpi deep brown; thorax and abdomen white; tufts of abdomen white; legs white; forelegs in front brownish.

Expanse of wings: 34 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru (Ockenden).

33. *Ophthalmophora humilis* spec. nov.

Forewing: fawn-grey; the inner margin from one-third to anal angle yellowish white, the streak pointed towards base and reaching vein 2 at the margin; a pale mark on discocellular; a curved diffuse pale streak from two-thirds of costa to end of vein 2; fringe concolorous.

Hindwing: with a pale yellowish-white oblique band near base, edged below with buff, and widening to middle of costa; a broad bluish metallic streak before hindmargin, curving down from beyond middle of costa to vein 6; the marginal area beyond it buff; two embossed ocelli in disc, one between veins 6 and 7, the other nearer hindmargin between 4 and 6, their disc brassy on a velvety black ground fringed with ochreous; the inner marginal area peppered with dark and light scales; fringe pale ochreous.

Underside whitish grey, the forewing with costa and hindmargin darker.

Face, palpi, vertex, and antennae brownish grey; thorax and abdomen pale grey.

Expanse of wings: 28 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Ockenden).

34. *Opisthoxia argenticincta* spec. nov.

Forewing: chestnut red; a broad costal streak, the inner margin from anal angle to one-third from base, the discocellular, and the fringe silvery white; costal edge yellowish.

Hindwing: with a broad oblique fascia near base, the inner margin and the fringes silvery white; a fine interrupted metallic line close to hindmargin, curving round at costa to vein 6, where it is followed by a small round embossed spot of raised metallic scales edged finely, first with black, and then again with yellow.

Underside of forewing greyish white, diffusely darker along hindmargin; of hindwing white with a very narrow dark margin; fringes white.

Head and palpi brownish grey, the vertex paler; shoulders silvery white; thorax and basal segments of abdomen chestnut red; rest of abdomen cinereous, separated by a white bar; abdomen below, pectus, and legs white.

Expanse of wings: 41 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., August 1902, dry season (Ockenden).

Referred to *Opisthoxia* provisionally, in the absence of the ♂.

SUBFAMILY ABRAXINAE.

35. *Panthera semiconfluens* spec. nov.

Forewing : pale yellow, as in *P. conglomerata* Warr., with a slight olive tinge ; all the marginal spots confluent, sometimes entirely, sometimes with small interspaces of yellow.

Hindwing : uniformly pale yellow ; the apical spot always lengthened along costa and confluent with the two marginal blotches below it.

Head and thorax grey ; base of patagia and centre of thorax pale yellow ; abdomen grey with segmental rings yellow ; sometimes more or less yellow with dark grey blotches, the last two segments always dark grey.

Expanse of wings : 48—52 mm.

10 examples, all ♀♀, from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., July and August 1902, dry season (Oeckenden).

Nearest to *P. conglomerata* Warr. from Ecuador, which has all the spots much darker.

SUBFAMILY NEPHODIINAE.

36. *Hyalopola marginata* spec. nov.

Forewing : white, semi-transparent ; costal area above subcostal vein, hindmargin and fringe, and the apex broadly slaty grey ; veins plainly darker ; a grey band from costa before middle to middle of inner margin, where it forms a broad cloud, the upper part more or less obsolete.

Hindwing : with costal area paler grey, the hindmargin and apex as in forewing ; fringe of inner margin in both wings grey. In the dark marginal area of both wings appears a faint waved paler submarginal cloud.

Underside with costal and marginal areas all smoky black ; no trace of transverse shade on forewing.

Head and antennae blackish ; thorax and abdomen grey, the latter darker ; abdomen beneath whitish, with a central dark line ; pectus and femora whitish ; tibiae and tarsi black.

Expanse of wings : 56 mm.

1 ♂ from R. Colorado, Peru, October 1902 (Watkins).

37. *Myrmecophantes assimilis* spec. nov.

Very near to *M. elytia* Druce, differing as follows : the underside of hindwing is without the white submarginal band ; the inner margin of the same wings is white, edged by a brown streak along the submedian fold ; the brown streak along the cell-fold beyond cell is not continued through cell to base of wing.

The face is black, edged laterally and below with white.

Expanse of wings : 56 mm.

1 ♂ from Pozuzo, Department Huanuco, Peru (Hoffmanns).

38. *Nipteria directa* spec. nov.

Forewing : very pale brownish-grey, slightly darker along costa, and more broadly at apex and middle of hindmargin ; the costa and apex with obscure dark striae ; a dark linear cell-mark on upper half of discocellular ; a fine curved brown

line from one-fourth of costa, where it is black, to one-third of inner margin ; outer line thick, distinct, quite straight, from four-fifths of costa to two-thirds of inner margin ; fringe dark grey.

Hindwing : with slight cell-spot and fine outer line curved parallel to hindmargin, but obsolescent towards costa.

Underside of forewing with costal and apical areas browner, densely striated with fuscous ; the two lines of upper surface visible by transparency, but beyond outer line a short curved black line to vein 4, starting from a black costal spot : hindwing almost covered with thick olive-fuscous coalescent striae ; a dark cell-spot and dark curved outer line, nearer hindmargin than on upperside.

Head, thorax, and abdomen dull smoky grey, the last with blackish rings ; legs and antennae blackish.

Expanse of wings : 44 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6000 ft., July 1902, dry season (Oekenden).

39. *Nipteria dispansa* ab. *infurcata* nov.

Like the type form of *dispansa* Warr., but the outer line is quite simply curved from three-fifths of inner margin to costa shortly before apex, without any traces of the furcation towards costa with the dark suffusion between the two branches which is so conspicuous in *dispansa*. It seems probable that the present will prove to be the more ordinary form, the original type representing a dark abnormality.

2 ♂♂ from Rio Colorado, Peru, October 1902 (Watkins).

40. *Nipteria elongaria* spec. nov.

Forewing : pale creamy-grey ; a fuscous lunule on discocellular ; costa fuscous at base, with a darker subquadrate blotch at one-third, indicating the commencement of inner line ; costa beyond paler ; a larger blotch at two-thirds, from which a fine dentate-lunulate line runs outwardly to vein 4, then parallel to hindmargin, hardly visible above, but plain below ; apex and hindmargin slightly darker grey ; fringe fuscous.

Hindwing : with grey cell-spot, and pale fringe, finely chequered with dark beyond veins.

Underside with all the markings clear ; a brown triangular cloud on hindmargin from apex to anal angle ; a smaller cloud on costa before apex ; the two separated by an oblique pale streak from apex : hindwing dappled light and dark grey, darker in basal two-thirds ; a round pale spot at base of cell ; dark cell-spot, and outcurved postmedian line ; inner margin whitish.

Face and palpi brown ; antennae black ; vertex, centre of shoulders and patagia cream-white ; patagia laterally brownish ; abdomen grey with dark rings.

Expanse of wings : 58 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

A species of distinct appearance, with long narrow wings.

41. *Nipteria fumosata* spec. nov.

Forewing : smoky grey-brown, darker along hindmargin ; costal area dull whitish with a few grey striae ; a black streak at base, and two short curved black

streaks at two-fifths and two-thirds, between which at equal distances lies the blackish cell-spot : the streaks stop short in cell and on vein 5 respectively, and from their ends two very fine dark lines can be traced to inner margin running parallel to hindmargin ; fringe pale mottled with blackish at veins.

Hindwing : with cloudy black cell-spot and dark curved postmedian line, edged with paler ; marginal line dark ; fringe as in forewing.

Underside brighter, the markings clearer ; a blackish cloud before hindmargin between veins 4 and 6 ; costal markings as above : hindwing as above, but covered with distinct fuscous striae.

Head, thorax, and abdomen dull monse-grey, shoulders and patagia darker, legs and antennae blackish.

Expanse of wings ; 37 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Pern, 6500 ft., October 1902, dry season (Ockenden).

42. *Nipteria occulta* Warr.

The ♀ of this insect, a specimen of which I have seen from Santo Domingo, S.E. Pern, differs somewhat from the ♂. The markings of the upperside are much less distinct ; the two abbreviated apical lines are hardly visible, and the cell-spots almost absent. On the underside the fulvous triangular space at apex of forewing is more conspicuous than in the ♂ ; while in the hindwing the dark transverse line is followed by a fulvous ochreous area.

The ♀, which is the same size as the ♂, was taken in December 1902, wet season (Ockenden).

43. *Nipteria pallidilinea* spec. nov.

Forewing : semi-hyaline, dull greyish ; costal area and hindmargin broadly grey-tinged ; basal fourth of costa blackish ; cell-spot large, blackish, preceded and followed on costa by blackish curved streaks, indicating inner and outer lines, which are obscurely marked by dark spots on the veins ; the outer of the two blackish costal spots is followed by a dark grey spot before the dark grey marginal border, which is limited internally by a faint curved pale line ; fringe chequered dark and light grey.

Hindwing : striated with grey, with black cell-spot and curved postmedian pale line, beyond which the margin is darker ; a dark marginal line ; fringe grey, mottled black beyond veins.

Underside the same, but all the markings blacker ; the veins black ; the outer pale line distinct on both wings.

Head, thorax, and abdomen blackish grey.

Expanse of wings : 35 mm.

1 ♂ from R. Colorado, Pern, October 1902 (Watkins).

Easily distinguished by the pale outer line and neat grey shading.

44. *Nipteria subbrunnea* spec. nov.

Forewing : semi-hyaline, whitish ; costal area pale brownish grey, widening towards apex which is broadly grey, the dark tint narrowing to anal angle ; fringe brownish grey ; a distinct dark cell-spot and outer line oblique from costa to vein 6.

Hindwing: whitish, the outer half showing grey from the dark undersurface; fringe dark grey.

Underside like upper, with the dark tints distinctly brownish-tinged; hindwing with outer half dark brownish, traversed by a diffuse dark line curved parallel to margin.

Thorax and abdomen luteous grey; face and vertex pale ochreous.

Expanse of wings: 34 mm.

1 ♂ from R. Colorado, Peru, October 1902 (Watkins).

Apparently allied to *N. hija* Dogn., but larger, and decidedly brownish.

45. *Penthophlebia subvenata* spec. nov.

Forewing: white with a faint luteous tinge; veins towards hindmargin brownish; costal area pale luteous; a faint grey mark on upper half of discocellular, and half-way between it and apex the commencement of a grey submarginal line; fringe like wings.

Hindwing and fringe altogether whitish.

Underside with all the veins well marked, brownish, also the discocellular lines and the submarginal line below costa of forewing.

Head, thorax, and abdomen whitish, the head parts with a luteous tinge; tibiae and tarsi dark fuscous.

Expanse of wings: 45 mm.

1 ♂ from R. Colorado, Peru, October 1902 (Watkins).

SUBFAMILY SELIDOSEMINAE.

46. *Ischnopteris conjungens* spec. nov.

Forewing: dark fuscous, with a purplish tinge, and speckled obscurely with darker; the inner and outer lines whitish green and narrow; first from near base of costa to one-third of inner margin, bent on submedian fold; basal area with a large black blotch between median and submedian veins, sparsely edged with whitish scales; outer line from three-fifths of costa, vertical to middle, bluntly bent outwards between 3 and 4 and inwards on the submedian fold, then curved inwards and coalescing along inner margin with the inner line; central area with two dark oblique blotches on each side of the median vein; cell-spot black, just beyond outer line, and on inner margin above and below vein 1 a patch of white black-speckled scales; submarginal line acutely dentate, the teeth filled up with blackish and edged with white; this white edging forms a blotch above anal angle and on costa is tinged with luteous; marginal area reddish-tinged, especially along veins 3 and 4, the space between them greenish; marginal lunules blackish; fringe concolorous.

Hindwing: uniform dark fuscous, with traces of a central line; underside of forewing fuscous, with an ill-defined darker submarginal shade; marginal area mixed with ochreous, becoming quite ochreous at apex; hindwing paler, with dark postmedian and submarginal shades and ochreous marginal area.

Head and thorax purplish fuscous; abdomen reddish grey with ochreous anal tuft and dark dorsal crests; foretibiae reddish mottled with black.

Expanse of wings: 44 mm.

1 ♂ from Santo Domingo, Carabaya, S. E. Peru, 6000 ft., November 1902, wet season (Ockenden).

47. *Ischnopteris projectata* spec. nov.

Forewing : deep purplish, striated with darker, in the disc with some green scales intermixed; the inner and outer bands green, in the latter case sometimes mixed with whitish scales; the inner band from quite near base of costa to one-third of inner margin, angled outward on submedian fold; the outer band broad and diffuse from middle of costa to two-thirds of inner margin; the purple area between the green shades crossed at middle by a twice outcurved darker median line, the purple tint beyond it being deeper; the edge of the central space is vertical to cell, then strongly projecting below vein 4 and oblique inwards; the cell-spot, of raised dark scales, stands on the outer edge of the green shade; submarginal line interrupted in middle, greenish or greenish white at costa and above inner margin; the purplish marginal area slightly tinged with green beyond cell; marginal spots dark; fringe purplish.

Hindwing : dark purplish fuscous, paler along costal area, with traces of dark curved postmedian and submarginal lines.

Underside ochreous overlaid with blackish grey, with dark median and outer lines and broad submarginal band; the apical region, the costa, and two postmedian blotches, one in cell, the other on submedian interval, paler; hindwing ochreous speckled with black, with postmedian and submarginal black shades.

Head and palpi purplish and fuscous; thorax green; abdomen cinereous; legs reddish testaceous, coarsely black-mottled.

Expanse of wings : 52 mm.

5 ♂♂ from Santo Domingo, Carabaya, S. E. Peru, 6000 ft., December 1902, wet season (Oekenden).

This species is much like *pevatata* Moeschl. from Surinam, for which at first I mistook it; but the points of difference seem too great. All the examples yet seen are ♂♂; all the examples of *vividifascia* are ♀♀; and though the outer green band is quite different in position, form, and width, in the two forms, it is possible they may be sexes of one species. The ♂ agrees with *pevatata* in having the fringe of inner margin of hindwing very full, and in addition a ridge of hair scales along the outer half of vein 1.

48. *Oenoptila?* *subconfusa* spec. nov.

Forewing : bright orange, speckled with vinous; the inner and hindmargins broadly suffused with dull vinous; a vinous spot at middle of base; first line at one-third, vertical, consisting of three vinous spots on the veins ending in a blotch on inner margin; median shade vinous, from just beyond middle of costa, oblique and straight outwards to vein 4, then bent and vertical to two-thirds of inner margin; outer line from two-thirds of costa, parallel to median, consisting of vinous spots on the veins, those towards inner margin marked with black dashes outwardly tipped with white; an indistinct submarginal vinous shade; fringe vinous like the suffusion, which leaves the extreme apex orange; cell-spot black and large.

Hindwing : wholly diffused with vinous; all the lines, except first line, marked but more or less obscured; no cell-spot.

Underside dull ochraceous, irregularly blotched and speckled with dull vinous, darkest along the hindmargins; cell-spot of forewing blackish.

Vertex, collar, shoulders, patagia, thorax and basal segments of abdomen fiery orange ; face and palpi deep ferruginous ; abdomen cinereous.

Expanse of wings : 39 mm.

2 ♀♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., January and October 1902, dry season (Ockenden).

In the second ♀ the speckling and blotches forming the lines are blackish instead of vinous, like the cell-spot.

Very much like *Oenoptila interrupta* Warr. (*Petelia*) from Brazil, with which I have hitherto confused it, but the undersides are quite different ; in *interrupta* the forewing beneath has a subquadrate dark apical patch.

49. *Oenoptila subfasciata* spec. nov.

Forewing : dull fulvous, striated, not speckled, with blackish ; the lines diffuse, vinous, and as in *subconfusa* the inner and outer lines marked by blackish spots on veins ; the position of the lines is the same as in that species, but the median shade is closer to the cell-spot and nearly vertical throughout ; cell-spot black and large ; a blackish blotch on submarginal line below middle.

Hindwing : with the outer lines marked, and the cell-spot distinct and black.

Underside yellowish straw-colour, almost without speckling ; cell-spots black and large ; a submarginal vinous fascia with its centre blackish.

Head, thorax, and abdomen dull greyish fulvous ; the abdomen with anal segments and laterally grey

Expanse of wings : 39 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Ockenden).

The difference in the underside will distinguish this species at once from both *subconfusa* and *interrupta* Warr.

50. *Thysanopyga nigricosta* spec. nov.

Forewing : pale reddish-grey, with very fine dark striae ; a broad purplish-black costal streak ; the basal area, the cell and space below, and the marginal area above vein 5 brick-red ; first line brown close to base, vertical ; second line well before middle, reddish brown, vertical to below median vein, then slightly curved outwards to inner margin before middle, closely followed by the black cell-spot ; outer line purplish black from three-fourths of inner margin, hardly concave outwards, curving just before reaching the black costal streak and running through it into apex ; below costal streak at apex the hindmargin is pale grey inwardly edged by two white lunules ; fringe reddish grey with pale base, chequered white below apex and above vein 5.

Hindwing : without lines ; cell-spot minute, snow-white in a diffuse brownish shade from before middle of costa, preceded and followed by a brick-red tint in midwing ; a brown cloud at apex and anal angle, preceded by a band of pale ground-colour.

Underside greyish ochreous, speckled with black, with a broad submarginal brownish cloud on both wings ; cell-spots black ; extreme apex of forewing pale.

Pulpi greyish ochreous with dark scales, the tips white ; face brown ; fillet and

base of shoulders purplish black like the costal streak ; patagia, thorax, and rest of shoulders brick-red ; abdomen grey, tinged with red along dorsum ; antennae black ; legs grey.

Expanse of wings : 44 mm.

Several examples from Santo Domingo, Carabaya, S.E. Peru (Ockenden). I have previously passed this species as a form of *abdominaria* Guen., but it is a distinct species, characterised at once by the black costa.

SUBFAMILY ASCOTINAE.

51. *Bronchelia consimilis* spec. nov.

Of the same size and colour as *B. puellaria* Guen., but the whole surface thickly studded with leaden-grey and fuscous granular dots ; the lines more distinctly marked, especially towards costa, the inner and outer with black dashes on veins ; the brownish olive shade between outer and submarginal line, as in *puellaria*, and distinctly extended to margin between veins 4 and 6 ; cell-spot black. In the hindwing there are five dull olive-brownish lines or bands, one antemedian passing over the black cell-spot, a postmedian dentate lunulate line marked with black points on veins, followed by a broader shade, and two submarginal bands enclosing the usual pale submarginal line.

Underside cream-white, in the forewing speckled and dusted with grey, the costa striated with black, the cell-spot black ; a black submarginal band, thick to vein 4 and extended to margin between veins 4 and 6, constricted below 4 and ending in a blotch at vein 2 ; in hindwing this band is narrow, dentate externally on veins, from costa to vein 4, then fading off.

Head, thorax, and abdomen whitish, mixed with olive-grey.

Expanse of wings : 74 mm.

1 ♀ from Jalapa, Mexico.

The white is creamy, not bluish, as in *puellaria*.

52. *Bronchelia plumbilinea* spec. nov.

Very much like *B. scolopaica* Drury [from the West Indian Islands, but the upper surface of the wings is altogether without the erect hairs so characteristic of that species ; the lunulate submarginal line is composed of pale lustrous scales, the lunules filled in with blackish, except that between veins 3 and 4, of which the scales are leaden-grey.

The ochraceous underside has a diffuse black submarginal cloud in both wings broader in the hindwing ; the forewing is thickly and coarsely speckled with blackish, and has all the lines blackish, the double submarginal line being connected with the submarginal fascia by a blackish blotch ; the hindwing by comparison is without speckling or lines.

Expanse of wings : 86 mm.

1 ♂, Santo Domingo, Carabaya, S.E. Peru, 6000 ft., January 1903, wet season (Ockenden).

I have seen examples from several localities in S. America which have hitherto been passed over as *scolopaica*.

53. *Bronchelia semicompleta* spec. nov.

Forewing : white, semi-transparent, with a few fine grey speckles, which are thickest near base and along costa; the lines dark grey, obscurely marked, but starting from distinct dark costal spots; first from one-third of costa to one-fourth of inner margin, oblique parallel to hindmargin, forming an outward curve above and below the median; second from two-thirds of costa to middle of inner margin, curved outwards above and marked by dark dots on veins; cell-spot grey; submarginal line waved, pale, between two dark shades from costa to below vein 5, and less marked from 3 to anal angle; slight dark marginal dashes; fringe white (damaged).

Hindwing : with cell-spot and deutate-lunulate outer line grey; submarginal line and shades less conspicuous.

Underside white; the costal spots only distinct; forewing with a quadrate apical blackish blotch, with curved inner edge, reaching nearly to vein 4, and a blotch between 2 and 3 not touching margin; hindwing similar, but the apical blotch longer and narrower, the lower one very obscure.

Head and palpi grey; shoulders pale grey; thorax and abdomen white, the segments of the latter with grey rings; legs white; pectus and forelegs in front grey.

Expanse of wings : 64 mm.

1 ♂ from Palino cné, Paragnay, February (Montforts).

Distinguished from both *puellaria* Gnen. and *detexta* Wlk. by the narrower and more pointed forewings, and the greyer scaling.

54. *Cymatophora subcrinita* spec. nov.

Forewing : olive-tinged ochreous, the markings dark olive-green; costa with short dark green striae; all the shadings parallel to hindmargin, thick and interrupted along the course of the median vein; the submarginal also by an oblique pale streak from apex; a dark spot at base of costa; first line represented by a spot on costa, a triangular one in cell, and a lunule below median vein, preceded by a paler space edged by a darker line; cell-spot contiguous to a subquadrate olive patch with a dark costal spot obliquely above it beyond middle, and a large lunule below median preceded by a dark line; these markings appear to represent the median shade; outer shade lunulate from three-fourths of costa, below median coalescing irregularly with the median shade; submarginal line lunulate, the lunules filled up with darker and followed by diffuse olive shading; marginal lunules blackish, horseshoe-shaped; fringe pale ochreous.

Hindwing : ochreous, with a diffuse grey submarginal cloud; fringe both of the outer and inner margin yellowish ochreous.

Underside ochreous, irregularly blotched with olive fuscous; a large quadrate apical blotch, the apex itself being pure ochreous, and another at anal angle; the submarginal fascia of hindwing olive fuscous; cell-spots black.

Head, thorax, and abdomen ochreous, the head and shoulders olive-tinged; palpi externally and tips of the shoulders fuscous.

Expanse of wings : 44 mm.

1 ♂ from Huancabamba, Cerro de Pasco, Peru, 6—10,000 ft. (Böttger).

The fringe of inner margin of hindwings is double and thickly curled at anal angle; a ridge of ochreous hairs runs along vein 1, and ochreous hairs are scattered over the base of wing; the segments of the abdomen beneath are all tufted, and the

pectus and femora are hairy; the basal joint of palpi is conspicuous with a rounded fringe of outstanding hairs. The insect bears a great superficial resemblance to *muraena* Druce.

SUBFAMILY SEMIOTHISINAE.

55. *Semiothisa crassisquama* spec. nov.

Forewing: ochreous, covered with coarse olive-brown striations; the costa yellowish with fine brown striae; the lines brown, starting from oblique brown costal blotches at one-fifth, two-fifths, and three-fifths; the first and second lines thick and diffuse, the second touching the brown discal mark, the third narrower, crenulate, angled on vein 6; at four-fifths of costa a fourth brown blotch, inwardly oblique and broadened to vein 6, commences a submarginal shade which is interrupted beyond cell by a fulvous patch and continued as a brown streak to inner margin; marginal area suffused with brown and fulvous; between veins 6 and 7 the ground-colour on each side of the brown marks is white; a row of blackish marginal lunules; fringe yellowish, chequered with brown at the veins, wholly brown beyond cell.

Hindwing: without basal line; the submarginal band uninterrupted, mixed with fulvous throughout; hindmargin below middle paler.

Underside white, striated with brown; costa and veins of both wings yellow; markings as above, but clearer; the fulvous patch beyond cell of forewing conspicuous; apex of hindwing leaden-grey.

Head, thorax, and abdomen olive ochreous, varied with darker.

Expanse of wings: 25 mm.

1 ♂ from Palino cué, Paraguay, February (Montforts).

Hindmargin of forewing without excision; of hindwing bluntly toothed at middle; antennae shortly pubescent; forewing without fovea.

56. *Semiothisa orthodisca* spec. nov.

Forewing: semi-transparent, pearl-grey, striated and partly tinged with dark grey; lines blackish; first at one-fifth, bent in cell, then inwardly oblique; second at two-fifths, waved, parallel to first line; discal mark dark chestnut-brown, oblique, and black edged on both sides, sharply cut at vein 4 and above produced to the costa; outer line from two-thirds of costa to three-fourths of inner margin, waved, and dark-marked on veins; succeeded by a broad fascia with waved external edge, chestnut-brown to vein 3, then dark grey, narrowed to anal angle; it is slightly edged with whitish and followed by a white dash above vein 6; marginal area iron-grey; marginal line black; fringe brownish grey with a white fleck at apex.

Hindwing: without inner line; cell-spot round and black; submarginal fascia wholly dark grey; fringe dark grey with pearly base.

Underside brightly white; all the striae and markings very distinct; submarginal fascias both brown-tinged; costa of forewing yellowish.

Head brown; palpi brown mixed with ochreous; thorax and patagia pale grey; shoulders pale grey with the tips dark; legs greyish white, dark-mottled.

Expanse of wings: 39 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

Subapical excision of forewing slight; hindwing with prominent angle in the middle; forewing with small but distinct fovea; antennae simply pubescent.

57. *Xenoecista lapidata* spec. nov.

Forewing: ochreous stone-colour, speckled with black; lines darker, but all very indistinct; basal line at one-fifth, bent in cell; second nearly straight, parallel to hindmargin, a little before middle, passing beyond the equally obscure cell-spot; outer line at three-fourths, marked by dark spots on the veins, not reaching costa, followed by an obscure shade; dark marginal dashes before the ochreous fringe.

Hindwing: without inner line; all the others plainer.

Underside yellower ochreous, with the middle line and a broad submarginal fascia brown; the fascia in forewing extended to margin beyond cell.

Head, thorax, and abdomen concolorous with wings.

Expanse of wings: 30 mm.

1 ♀ from Organ Mountains, near Tijuco.

Hindmargin of forewing oblique: of hindwing bluntly angled at middle.

This species will almost certainly prove to be a *Xenoecista*, when the ♂ is discovered.

SUBFAMILY ENNOMINAE.

58. *Anisoperas albimorsa* spec. nov.

Forewing: grey, striated with black; the central area with an olive-fuscous tinge; first line dark fuscous, from one-third of costa to two-fifths of inner margin, somewhat excurved above and below median vein, preceded by whitish grey scales; outer line from three-fourths of costa to two-thirds of inner margin, strongly dentate-lunulate, running outwards to vein 7, then sinuous, the teeth on the veins marked by white dashes; a white curve on costa beyond it and another white blotch before apex; on vein 5 within the outer line is a subquadrate cream-white blotch, and between veins 6 and 7 are two smaller cream-white spots, one on each side of the outer line; costal edge striated with ochreous; cell-spot blackish; fringe dark olive fuscous in basal half, paler beyond.

Hindwing: with an olive-fuscous tinge throughout, striated with blackish and with a few whitish grey speckles; cell-spot and outer line as in forewing; a small whitish lunule instead of the subquadrate blotch; marginal area narrowly darker, owing to black striae; fringe as in forewing.

Underside cinereous-fuscous with dark striations; cell-spots and outer lines dark; all the white spots repeated.

Head, thorax, and abdomen like wings; fillet narrowly whitish.

Expanse of wings: 26 mm.

1 ♀ from R. Colorado, Peru, October 1902 (Watkins).

59. *Azelina fulvata* spec. nov.

Forewing: greyish fulvous, the costal streak pale drab with brown points; lines fuscous, diffuse; first straight, at one-third, bent inwards and obscure on subcostal vein, preceded by a pale grey line; outer line obliquely curved from four-fifths of costa to two-thirds of inner margin, outwardly edged with grey; cell-spot blackish, with a minute whitish centre; black submarginal dots; fringe greyish fulvous.

Hindwing: fulvous only along hindmargin, the rest pale ochreous yellow; a

brown straight postmedian line from above anal angle to before apex, faintly edged externally with pale ; an obscure dark cell-spot ; fringe brownish fulvous.

Underside of both wings pale fulvous above middle, striated with brown ; below middle whitish ; outer line brown and distinct on both wings through the fulvous areas ; cell-spot an elongated oval with pale centre.

Head, thorax, and abdomen pale fulvous.

Expanse of wings : 34 mm.

1 ♀ from Onaca, Sta. Martha, 2200 ft., September—October 1901, wet season (Engelke).

Forewing with hindmargin toothed at 3 and 6, the apex also produced ; hindwing toothed at vein 3.

60. *Certima strigifera* spec. nov.

Forewing : brown, covered throughout with short fine yellowish and grey striae ; a diffuse darker brown, less striated, shade at one-fourth and three-fourths, at the place of the usual lines, the latter edged outwardly by white dashes on veins ; costa broadly cream-colour ; fringe concolorous.

Hindwing : similar ; the outer line as on forewing, but forming the outer edge of a slightly darker postmedian fascia.

Underside dirty ochreous, thickly striated with grey ; a grey cloud in cell of forewing, and a submarginal grey cloud on both wings, the apex of each wing being whitish grey.

Head, thorax, and basal segment of abdomen brown ; rest of abdomen grey ; fillet cream-colour.

Expanse of wings : 48 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6000 ft., July 1902, dry season (Ockenden).

61. *Cimicodes angustipennis* spec. nov.

Forewing : brownish fawn-colour, always paler than in any of the forms of *pallicostata* Guen. ; the costal streak olive-ochreous with grey freckling ; lines and markings as in *pallicostata*, but the white dot on vein 6 in the outer line is much less conspicuous, and the outer line itself is slightly curved outwards before reaching inner margin.

Hindwing : with the line sinuous and running outside of, or touching, the distinct black cell-spot.

Underside pale fawn-colour, speckled with darker, and tinged with brownish along hindmargin, with indistinct outer and submarginal lines marked by dark vein-points ; the outer line concave outwards ; apex of forewing whitish.

Face and palpi dark brown ; vertex, shoulders, and basal half of thorax and patagia olive-ochreous, like costal stripe ; rest of patagia and thorax dark brown ; abdomen paler brown.

Expanse of wings : 56 mm.

4 ♂♂ from San Ernesto, Bolivia, 1000 m., August and September 1900 (Simons).

The forewings are very decidedly narrower than in *pallicostata* ; the hindwings rounded.

This is the insect which, in *Nov. Zool.* xi. p. 137, I wrongly referred to *latata* Guen., which is certainly the ♀ of *pallicostata*.

62. *Cimicodes ferruginea* spec. nov.

Forewing: dark chestnut brown, paler, tinged with olive and grey, between first and second line, and deep ferruginous between second and submarginal lines; costal streak bright ochreous straw-colour, along costal edge tinged with olive, and with very few dark speckles; the inner and outer lines pale lilac grey, both concave outwards, the central space towards the lines deeper brown; cell-spot black in a lilac-grey oval; submarginal line starting as a fine sinuous white line at costa, then grey, inwardly edged with black-brown; the outer line runs straight into the pale costal streak, and both are without white vein-dots; fringe grey-brown, with pale tips.

Hindwing: with the costal area and the inner margin up to first line olive grey-brown with dark striae; the rest of the wing deep ferruginous; submarginal line dark brown, irregularly dentate; margin from anal angle to vein 4 deep brown; fringe as in forewing; inner line passing over the black cell-spot.

Underside dull olive-brown, with dark speckles; outer line marked by white vein-dots; submarginal dentate-lunulate, blackish edged with pale grey.

Head, apical two-thirds of patagia and thorax, and abdomen deep brown; shoulders and basal third of thorax and patagia pale green; legs dull orange speckled and ringed with black.

Expanse of wings: 52 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., October 1902, dry season (Ockenden).

Distinguished from all other species of the genus by the bright ferruginous tinge and strikingly pale costa.

63. *Euclysia carneata*.

Phyllodonta carneata Warr., *Nov. Zool.* xi. p. 166 (1904).

This species was wrongly referred by me to the genus *Phyllodonta*: it is a true *Euclysia*; and the ♂, which I have now seen, is like the ♀. The species comes nearest to *Euclysia maculata* Warr., originally described as a *Paragonia*.

64. *Isochromodes straminea* spec. nov.

Forewing: pale straw-colour, speckled with fine rust-coloured scales; the lines of this same tint, all more or less parallel to hindmargin and lunulate-dentate; first from one-third of costa to one-fourth of inner margin, obscure; median thicker, more diffuse, followed on inner margin by a round greyish blotch; outer line indistinct and interrupted, marked chiefly by brown dashes on the veins, followed by a grey blotch between 3 and 4, thence incurved and running into the grey blotch of median line; submarginal line also marked by brown vein-spots only, and ending in a grey cloud; cell-spot small and black, beyond a lunule of the median line; fringe concolorous, with slight brown dots at the vein-ends; hindmargin not crenulate.

Hindwing: similar, but without basal line; the markings all less distinct.

Underside pale straw-colour, brown-freckled towards costa only; a dark grey submarginal line, obscurely lunulate-dentate on both wings, running in from vein 3 to 2, and there ending, followed in both wings beyond cell by a grey cloud.

Head, thorax, and abdomen straw-colour; face white with the upper part brown; pectus, legs, and abdomen beneath all straw-colour.

Expanse of wings: 44 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6000 ft., July 1902, dry season (Ockenden).

65. *Isochromodes turbinata* spec. nov.

Forewing: pale luteous-grey, slightly speckled with brown; the markings all dull chestnut brown; a thick diffuse band at about one-third, sinuous, bent outwards in cell and inwards on submedian fold, coalescing along inner margin with a broad postmedian band, the costal half of which, except the edges, is paler; the inner edge of this band starts from middle of costa, is angled outwards on the median vein, then runs obliquely inwards; its outer edge from five-sixths of costa is vertical to vein 4, projects strongly outwards between 4 and 5, and then curves inwards to two-thirds of inner margin; within the inner edge is a small black cell-spot; submarginal line pale, indistinct, marked by irregular brown shadings on each side, below 4 touching the projection of the brown band; a fine brown marginal lunulate line; fringe pale with dark dots at base beyond veins.

Hindwing: similar, but without inner line: the cell-spot ringed with paler.

Underside cream-white, sparsely sprinkled with dark scales; marginal line darker; forewing with dark cell-spot and smoky fuscous shade from costa to hindmargin at vein 2, containing an obscure dark line across it parallel to hindmargin to vein 2, this shade hardly visible on hindwing.

Head, thorax, and abdomen grey; face darker.

Expanse of wings: 44 mm.

1 ♀ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., October 1902, dry season (Ockenden).

In shape and markings this species resembles *I. maculosata* Warr., but is totally different in coloration; beneath it somewhat resembles *I. grisea*, but the ground-colour is not so white, and there is no shade on hindwing.

66. *Loxapicia cognata* spec. nov.

Forewing: pale ochreous, speckled with dull brownish; the lines pale brown; first before one-third, angled in cell shortly before the small black cell-spot, then oblique to one-fourth of inner margin, preceded by a broad grey shade; outer line from apex to just beyond middle of inner margin, sinuous, being faintly bent in cell and on submedian fold, and slightly curved outwards between those points, followed by a broad grey shade; submarginal line represented by dark dots on veins, of which those on veins 1, 2, 3 alone are conspicuous; fringe ochreous, with minute dark dots at base beyond the veins.

Hindwing: with the inner line distinct, curved, close to base, but without a grey shade; the rest as in forewing; cell-spot black, close before outer line. The brown speckling is densest in the marginal area of each wing and along costa of forewing.

Underside like upper; the shades broad and conspicuous; the submarginal and outer uniting above middle in forewing.

Head, thorax, and abdomen ochreous ; abdominal segments with brown dorsal marks.

Expanse of wings : 26 mm.

1 ♂ from Chanchamayo, Peru (Schunke).

The antennae are heavily pectinated ; in the forewing vein 1 is swollen and incurved at base.

In general appearance the species resembles *Mesedra*.

67. *Melinodes fulvitincta* spec. nov.

Forewing : mustard yellow, with coarse brown-black speckles ; the lines blackish ; first from one-fourth of costa to one-third of inner margin, bent on subcostal, then vertical, projecting outwards on the three veins, inwardly diffusely edged and tinged with fulvous ; outer line from three-fourths of costa to two-thirds of inner margin, sinuous, dentate-lunulate, the teeth marked with white-tipped black dashes on veins, curved outwards to vein 6 and there acutely angled ; submarginal line lunulate-dentate with prominent outward projections on veins 6 and 3, insinuate between ; the space between these last two lines filled in by a shade of brown and fulvous with black speckling, constricted in middle ; fringe yellow ; slight brown spots at end of veins ; cell-spot brown, rather large.

Hindwing : without first line ; the blotched shade beyond outer line broad below middle, narrow above towards costa ; marginal spots large.

Underside paler yellow, with the dark markings dull grey-brown.

Face brown, vertex yellow ; shoulders brown, their tips fulvous ; thorax and patagia yellow ; abdomen yellow, tinged with fulvous and coarsely black-speckled along dorsum. Underside of body and the legs yellow.

Expanse of wings : 36 mm.

1 ♀ from Tucuman, Argentina, May 1902 (Dinelli).

68. *Numia deceptrix* spec. nov.

Forewing : dull grey-green, densely covered with deeper green scales ; costal edge finely white with dark dots ; a dark cell-spot ; fringe concolorous.

Hindwing : with a small round white cell-spot.

Underside paler, luteous green, the speckling sparser but clearer.

Head, thorax, and abdomen like wings.

Expanse of wings : 29 mm.

4 ♀♀ from Tucuman, Argentina, May 1902 (Dinelli).

In forewings the lower radial rises somewhat above the middle of the discocellular, as in the *Geometrinae* proper ; but the hindwings are without a radial at all.

69. *Paracomistis maculata* spec. nov.

Forewing : yellowish ochreous, sparsely dusted with black ; a black spot at base of cell ; the lines marked by black dots on veins ; first at one-fourth ; outer line from just before apex to middle of inner margin, the line being concave outward from vein 7 to 4, then oblique and more or less connected ; submarginal series of dots parallel to margin ; from vein 4 to inner margin an oblique blotch

of black speckles runs between outer and submarginal lines, the median shade also being marked in black below the median vein, and a black shade just beyond the outer line ; apex with some black scales and a few along the lower submarginal spots ; marginal spots black ; cell-dot small ; fringe concolorous.

Hindwing : similar, but without basal line and with the median shade distinct and straight from vein 6 to inner margin, touching the black cell-dot ; the dots of the outer line connected, and followed by a black blotch at anal angle as far as vein 3.

Underside paler, slightly speckled ; cell-spots and those of the outer and marginal series only represented ; a dark submarginal shade in upper half of forewing.

Head, thorax, and abdomen concolorous ; palpi externally blackish ; patagia with a dark mark across middle, thorax and abdomen spotted with black ; hinder part of abdomen blotched and ringed with black above and beneath.

Expanse of wings : 44 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Oekenden).

70. *Polla fuscata* spec. nov.

Forewing : dark olive-brown with blackish striae ; a thick black line from inner margin at one-sixth to apex, marked by white scales above vein 6 ; a black cell-spot ; just before it an oblique dark streak from costa preceded by a few pale scales indicates the inner line ; beneath the oblique line in the middle of wing is a diffuse dark shade ; costal edge ochreous brown with black dots ; fringe in basal half distinctly reddish, in apical half white.

Hindwing : with two obscure curved dark lines beyond middle, ending above anal angle and accompanied there by a few pale scales ; extreme base pale, edged by the continuation of the oblique black line of forewing.

Underside dark lilac-grey with black speckles ; the marginal area broadly brownish fuscous, except at apex of forewing, which remains grey.

Head, thorax, and abdomen like wings ; pectus and abdomen beneath grey ; tarsi fulvous ochreous with black rings.

Expanse of wings : 36 mm.

1 ♂ from Palcazu, Department Junin, Peru (Sedlmayr).

Trotogonia gen. nov.

Forewing : costa curved at base and before apex, nearly straight between ; apex rounded ; hindmargin oblique, not curved, to vein 2, excised between 1 and 2, as long as inner margin, which is somewhat convex.

Hindwing : shouldered at base and excised at apex from 8 to 7, which forms a blunt projection ; hindmargin faintly curved ; anal angle square.

Antennae of ♂ bipectinate, the pectinations being long fascicles of cilia, themselves strongly ciliated laterally and at apex, the shaft rasped above and the segments angulated ; palpi short, closely appressed to face ; tongue and frenulum present ; hindtibia with four spurs.

Neuration : forewing, cell half the length of wing ; discocellular nearly vertical ; first median nervule a little beyond one-half, second close to third ; lower radial from above middle of discocellular, upper from the depressed end of

cell ; 7, 8, 9 stalked ; 10, 11 stalked : hindwing, costal and subcostal only shortly approximated towards base ; 3 and 7 well before angles of cell.

Type : *Trotogonia subornata* spec. nov.

71. *Trotogonia pallidata* spec. nov.

Forewing : pale ochreous with a greenish tinge, suffused with dull purplish at base and along costa and hindmargin ; the bands and markings almost identical with those of *T. subornata*, but the paler ground-colour shows up more before as well as beyond the second line and on hindmargin below apex ; the costa, instead of being smoothly scaled, is marked with dark greenish striae, and the white scaling edging the purplish bands is more developed.

Hindwing : paler, ochreous tinted and speckled with greenish and purplish ; the markings also as in *subornata*, and with a pale centred greenish cell-spot in addition.

Underside pale yellowish with the markings purplish and with scarcely any fulvous tinge.

Head, thorax, and abdomen ochreous tinged with violet ; face brown ; abdomen beneath yellow.

Expanse of wings : 30 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., December 1902, wet season (Oekenden).

Besides its smaller size and paler coloration this species differs structurally from the type species in that the antennae are not bipectinate, but merely subserrate and shortly ciliated.

72. *Trotogonia subornata* spec. nov.

Forewing : with the dull primrose ground-colour almost entirely suffused with pinkish violet and with a greenish tinge throughout ; the costal area above subcostal vein rather paler and the hindmargin deeper ; first line as an olive-green band finely edged with whitish scales, bluntly bent outwards in cell, then oblique inwards ; second line diffuse, starting from a purplish costal blotch at four-fifths, sinuous inwards to beyond middle of inner margin, where it is greenish, both extremities finely edged with white ; submarginal line also starting from a purple wedge-shaped blotch just before apex, edged with white and ending at the anal excision in some more white scales, accompanied by a purplish and olive blotch below middle and a small purple blotch before anal angle, and with two round pale spots, the upper one yellow, above and below vein 2 ; fringe purple ; cell-spot obscure, ocelloid, greenish with dark edge, just before the second line ; space between second and third lines dull primrose below vein 6.

Hindwing : a mixture of diffused violet and olive, more violet towards base and inner margin, with a slightly darker band from middle of inner margin accompanied there by white scaling ; a purple blotch at the apical excision and spot below it, both edged with white, and three purplish spots in a line from costa before the excision.

Underside much gayer ; the paler areas of forewing bright fulvous and yellow, the bands purplish, the hindmargin deep purple, with one yellow spot, the costal

area duller ; hindwing fulvous at costa, below it tinged with violet grey, the apical margin deep yellow, with the five purple spots.

Palpi and face deep ferruginous ; vertex, thorax, and abdomen a mixture of dull violet and olive ; anal segment ochreous yellow ; underside of abdomen bright fulvons.

Expanse of wings : 35 mm.

1 ♂ from San Cajetano, Colombia, 8000 ft., September 1902.

The following species was omitted in its proper place ; it belongs to the *Eucestiinae* :—

73. *Callipia balteata* spec. nov.

Forewing : dull smoky fuscous ; the costa with broad, coarse, yellowish striae and spots, the apical area variegated with fine, longer striae ; at two-fifths and three-fifths two larger yellow spots give rise to two broad, deep rosy bands, the inner vertical to the median vein, then oblique inwards to vein 1, above which it runs inwards, widening to base ; the outer vertical to vein 5, then oblique and straight to vein 1 at two-thirds ; yellow marginal dashes at the ends of the veins running out and chequering the fuscous fringe.

Hindwing : with obscure pale striations ; a pale cell-spot on upper arm of discocellular ; a curved outer band, narrow and pale ochreous above, widening and dull rosy below ; margin and fringe as in forewing, the veins paler towards margin ; fringe of abdominal margin dull rosy.

Underside of forewing like upper, but the yellow striae and costal spots, as well as the brown ground-colour, more vivid and concise ; the veins towards margin yellow ; hindwing bright brown, with fine yellow striae ; cell-spot, veins, and abdominal margin for two-thirds white ; the outer band yellow and broader ; ground-colour along the cell and submedian fold blackish brown ; costa yellow ; some rosy spots at base of wing.

Face, palpi, and shoulders rich velvety black ; collar yellow, tipped with scarlet ; patagia yellowish ; thorax olive-brown ; abdomen black, with broad yellow belts ; legs dark fuscous, internally paler, the femora fringed with yellow hairs, the coxae with red hairs.

Expanse of wings : 65 mm.

1 ♂ from Santo Domingo, Carabaya, S.E. Peru, 6500 ft., January 1902, dry season (Oekenden).

A remarkably coloured insect.

On p. 487 of *Nor. Zool.* xi. I described *Perixera impudens* from Gardner Island. The insect came from Gardener Island, Galapagos, and therefore should have been put among the American species.