

NEW MOTHS OF THE FAMILY CERURIDAE (NOTODONTIDAE) IN THE UNITED STATES NATIONAL MUSEUM

By WILLIAM SCHAUS,

Honorary Assistant Curator, United States National Museum

One hundred and sixty species are described under the above heading, and of these 127 are Neotropical, consisting of 50 species from the Dognin collection, 24 paratypes presented by the Carnegie Museum of Pittsburgh, and the balance chiefly presented to the Museum by myself.

There are 33 species described from the Orient; 8 of these were collected by the Rev. D. C. Graham in China, 3 from India, 3 collected in Java by Messrs. Bryant and May, and 19 received from the late Charles Fuller Baker.

SPECIES FROM CENTRAL AND SOUTH AMERICA

NYSTALEA BIUMBRATA, new species

Male.—Palpi gray streaked above with burnt umber, finely edged with black. Head and front of collar fuscous or buffish. Thorax pale smoke gray. Abdomen above mouse gray, underneath whitish mottled with light brown; a lateral white spot at base. Fore wing silvery gray with darker suffusions on antemedial and terminal areas; some fine black striae on base, and a fine, double, irregular antemedial black line; antemedial area outwardly edged by an irregular double fawn color line, projecting on costa and across median, where it is preceded by a small black spot; discocellular line incurved, whitish with some black scales, followed by a fine lunular dark line; postmedial line double, fuscous, outcurved, lunular from vein 3 to inner margin, and containing some small black lunules; a burnt umber lunular line beyond, the veins before it with black and white points; subterminal deep black spots on either side of veins; marginal fuscous black spots on interspaces; a broken terminal black line; cilia benzo brown with pale spots at veins. Hind wing white; veins, costa, and termen narrowly fuscous, the terminal shade narrowing to anal angle; cilia white.

Expanse 50 mm.

Habitat.—Tucuman, Argentina.

Type.—Cat. No. 33292, U.S.N.M.

Nearest *N. plumipes* Schaus in markings.

In a series of specimens there is variability in the intensity of the markings.

NYSTALEA EASTMANI, new species

Male.—Palpi, with second joint well fringed in front, snuff brown mottled with white hairs. Frons snuff brown with converging buff hairs. Vertex and collar snuff brown. Thorax mostly gray, the tegulae crossed by two faint dark lines. Abdomen above grayish with transverse hair brown lines and light buff tufts at base; underneath buff white. Fore and mid legs chiefly chestnut brown with light buff transverse lines; hind tibiae clothed with long light buff hairs, the hind tarsi mostly fuscous with white rings. Fore wing: Base from costa to vein 1 expanding below cell, grayish white, crossed by some short black lines limited by the fine and partly double irregular antemedial line; medial space fawn color, widest at costa and cell, limited by a double dark line outbent from costa, angled at vein 3, lunular from cell to inner margin; a series of seven black points along middle of cell; postmedial space white, irrorated with some dark scaling and crossed beyond discocellular by a faint outcurved dark line; discocellular white in front; an outbent army brown and black line from vein 5 to vein 4; the postmedial space limited by a double dark lunular line, inbent below vein 2, mostly followed by a cinnamon shade and some verona brown spots; terminal space mostly fawn color; an irregular series of sepia lunules partly preceded by some drab gray shading; whitish irrorations on termen; a broken terminal benzo brown line; cilia white with brown patches on interspaces. Hind wing white largely suffused with drab, the veins and termen broadly hair brown.

Expanse 49 mm.

Habitat.—British Guiana(?)

Type.—Cat. No. 33293, U.S.N.M.

Somewhat like *N. indiana* Grote.

Named in honor of Mr. G. Eastman, a generous contributor to the Dognin fund.

NYSTALEA JULITHA, new species.

Male.—Palpi wood brown. Head, collar, and front of thorax fuscous, thorax otherwise and shoulders pale drab gray. Abdomen above drab, underneath buffish. Fore wing pale wood brown; double fuscous antemedial, medial and postmedial lines on costa; a fine dark streak through cell and on veins from cell; a deeply outangled double line medially, above and below submedian vein; a faint dark line on discocellular; traces of an outcurved postmedial line, better marked

toward inner margin; a wavy fuscous subterminal line from vein 3 to tornus. Hind wing drab, darkest on termen; a slight whitish shade at base.

Expanse 60 mm.

Habitat.—Panciras, Rio, Brazil.

Type.—Cat. No. 33294, U.S.N.M.

NYSTALEA PARSONI, new species

Female.—Palpi: Second joint with hazel stripe above; a light drab streak laterally. Frons white; hazel tufts at base of antenna; tuft on vertex and front of collar light buff, collar otherwise ochraceous tawny. Thorax benzo brown. Abdomen above hair brown with pale hairs at base and a raised dorsal hazel tuft; underneath abdomen light buff, the thorax cinnamon drab. Fore wing largely hair brown with dull purplish suffusions, the inner margin and termen broadly tawny olive except between veins 4 and 6; the lines mostly fuscous; a black and white streak on median near base; antemedial line double, outangled on costa, filled in with buff, less angled below cell; medial line double, irregular, lunular, and inbent below cell, on costa filled in with hazel; reniform long and narrow, buffish broken by dark lines, followed by an outcurved black line from costa to submedian fold where it is marked by a small brownish olive or fuscous spot; postmedial line double, lunular, filled in with brownish, almost vertical, outwardly edged partly with some white scales; a sinuous hazel line follows; a subterminal line from below costa consisting of chestnut brown lunules followed by some white scales, above and below vein 2 suffusing with dark terminal spots; cilia mottled fuscous and wood brown. Hind wing hair brown; base, inner margin, and cilia at tornus light buff; cilia avellaneous toward apex.

Expanse 65 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33295, U.S.N.M.

Described from three females in the United States National Museum.

Allied to *N. porgana* Schaus, but smaller, more variegated, the apical pale area of fore wing more elongated and not so broad.

NYSTALEA AMATURA, new species

Male.—Closely allied to *N. mocotana* Schaus which is the male of *N. marmorea* Schaus, the latter name having priority. Fore wing darker and more evenly benzo brown, the apical pale spot shorter, edged behind by a white line from costa, but not reaching termen; reniform vertical, defined by darker lines and without any white. Hind wing white, somewhat suffused with brown; termen broadly hair brown; veins hair brown.

Expanse 52 mm.

Habitat.—British Guiana; Amatura, Amazons.

Type.—Cat. No. 33296, U.S.N.M.

ELYMIOTIS CORANA, new species

Male.—Palpi almost entirely dark purplish on first two joints, the end of second joint, tips of fringe and third joint dull brown. Frons dull brown or buffish with a black spot and diverging black lines. Collar and thorax sayal brown, with a black transverse line on metathorax, the tegulae mostly white with a few black scales and clay color scales on dorsal edge. Abdomen above drab with black segmental line and spot at end of body, also black tips to anal hairs; underneath whitish with three black lines more or less interrupted. Fore wing silvery drab gray, the lines fuscous; a black mark at base of costa; subbasal line double to fold, lunular; antemedial line double, oblique on costa, inbent along subcostal, outbent and angled on median, with dark lines below it in cell, below median inset with raised velvety fuscous black scales vertically to vein 1; a small velvety spot at lower angle of cell, and one above it slightly outset; a dark shade above median and vein 4 to outer line with a fine, interrupted line above it; a whitish shade from base of veins 4 to 2 to outer line; outer line black on costa, sinuous, outbent, then outcurved, lunular and inbent to near middle of inner margin, a triangular white mark on it between veins 5 and 4; the terminal area suffused with drab between veins 4 and 6; veins 5 and 6 broadly black, and velvety fuscous black streaks above veins 4, 5, and 6; a fine submarginal crenulate black line; a terminal dark line; cilia wood brown with fuscous spots at veins. Hind wing benzo brown, with traces of white in cell, and sometimes along inner margin, below and beyond cell; cilia white; the usual double spot at anal angle.

The female is more uniformly drab gray, the lines less prominent, the spots on discocellular smaller. Both sexes have the hind wing below white, the termen broadly hair brown, narrower, and interrupted at anal angle.

Expanse, male, 48 mm.; female, 54 mm.

Habitat.—Mexico to French Guiana.

Type.—Cat. No. 33297, U.S.N.M.

This species has been called *longara* Stoll, *attenuata* Walker, and *ancora* Feld. According to Stoll's figure and description of *longara* the antennae are pectinated; *attenuata* Walker is a smaller species from Venezuela of which we have a male and three females; *ancora* Fielder is also small and represents a species allied to *E. complicata* Dognin. In the Transactions of the Entomological Society of London (1901, p. 272), I placed *purpurascens* Butler as a synonym of *attenuata*; described from a female, it belongs to a distinct species.

ELYMIOTIS MORANA, new species

Male.—Palpi dusky drab with a few whitish hairs; a steel black line at upper edge, and fuscous transverse line at end of second joint. Head, collar, and thorax chestnut brown mottled with dusky drab; tegulae brownish drab. Abdomen above deep brownish drab with dorsal and lateral whitish buff hairs at base, and a dusky brown dorsal tuft on second segment; a fuscous segmental line towards end of abdomen; underneath buffish with an interrupted fuscous ventral line and outer fuscous lines on last three segments. Fore wing brownish drab, the base and veins to middle of wing irrorated with sea-foam green and black scales; a velvety black broken subbasal line; ante-medial line double, velvety black, lunular, inset at fold, so the outer line falls below the inner line; a double dark medial line, outbent to within cell where it is marked by fine velvety lines, inset below median, where the inner line consists of raised velvety black scales reaching vein 1 and is preceded by a triangular fuscous shade; a round velvety black spot at lower angle of cell, a small spot edged with white above it basad, and a vertical streak above it outset; a velvety fuscous line in cell from medial line, extending well beyond it, below vein 5 marked beyond cell by a short silvery white line, interrupted and continued with a branching curved tip; some pale sea-foam green scaling at base of interspaces between veins 2 and 4; postmedial line double, wavyly lunular, sorghum brown filled in with avellaneous, well out-curved beyond cell with a white line inwardly on inner margin; subterminal velvety short fuscous streaks above veins 5 and 6; a marginal fine, crenulate, black line; cilia mottled fuscous and avellaneous with white points at veins. Hind wing benzo brown, the cell white; base below cell white extending toward termen, some dark scaling before anal angle crossed by a white line; cilia white with a benzo brown patch near anal angle. Fore wing below dark grayish brown; costa whitish buff crossed by dark lines on outer half; some white mottlings on terminal interspaces; cilia chestnut brown mottled with white. Hind wings below white; termen dark grayish brown wide at apex, narrow at anal angle; costal margin irrorated with deep brownish drab; veins 2-4 from cell dark; traces of a double postmedial line.

Female.—Fore wing dusky drab; lines and discal spots reduced; pale greenish shading near lower angle of cell present; marginal line with greenish scaling outwardly; all the double lines with faint paler shading between them.

Expanse, male, 42 mm.; female, 50 mm.

Habitat.—French Guiana; Colombia; Mexico; Guatemala.

Type.—Cat. No. 33293, U.S.N.M.

Four males and eight females in the collection.

ELYMIOTIS LUPICINA, new species

Male.—Palpi white mottled with pale purplish gray; a fine black line near upper edge; tip of third joint white. Frons army brown becoming dark slate violet at vertex; white hairs around eyes. Collar and thorax hair brown, the tegulae mottled white and drab gray. Abdomen above light drab; a black segmental line on segment before last, a similar dorsal spot on last segment; tips of anal hairs fuscous. Fore wing light drab, the veins irrorated with black and white; a subbasal lunular black line from subcostal, outbent below cell; a double antemedial, lunular, fuscous line broken below cell, followed by a whitish shade from median to near vein 1; medial line double, fine, faint, preceded by a vertical velvety fuscous line of raised scales with a short line extending basad on fold; a large round velvety fuscous black spot at lower angle of cell, and a smaller similar spot above it; faint brownish transverse lines beyond cell; a dark shade below base of vein 5; outer line outcurved beyond cell, double, black, punctiform, partly united by a faint crenulate line from costa to vein 5 and with a triangular silvery white spot between veins 5 and 4; subterminal velvety fuscous black spots below veins 7 and 6, a larger duller spot below vein 5 at silvery spot; a submarginal fine black crenulate line, not reaching costa; cilia mottled buffish and hair brown with white points at veins. Hind wing white, the veins and termen broadly hair brown with the usual small spot at anal angle; cilia white. Hind wing below white, the termen more narrowly hair brown with some terminal white mottling, costal margin irrorated with hair brown.

Expanse 39 mm.

Habitat.—Paraguay.

Type.—Cat. No. 33299, U.S.N.M.

The subterminal spots on fore wing are unlike any other species of the group.

ELYMIOTIS DONATIAN, new species

Male.—Palpi whitish with a lateral black line, the second joint with a fine brown line below it, and a broader vinaceous-rufous line above it. Head whitish irrorated with brown and with double deep brown lines on frons. Collar argus brown with a few scattered black scales. Thorax mottled fawn color and hair brown, the tegulae dorsally suffused with brownish drab, laterally with whitish which extends on shoulders. Abdomen above light drab with a dorsal brownish drab tuft at base crossed by a black line, underneath whitish. Fore wing light cinnamon drab suffused with gray, the base and costal margin suffused with pale ecru-drab; a subbasal hazel line forming two deep lunules, double on inner margin; an antemedial vertical, velvety black line from below cell to inner margin; a medial hazel line across cell followed by broad silvery white

scaling above median to end of cell; a small black spot on discocellular; a black line on median from vein 3, extending along vein 5 to termen, partly double beyond cell, but interrupted by a silvery white streak on vein 5 beyond the fine double postmedial line; the latter is preceded from cell to inner margin by a diffuse hair brown shade; subterminal dark spots on interspaces. The entire wing is more or less covered with darker striae. Hind wing white, the termen narrowly suffused with drab.

Expanse 46 mm.

Habitat.—British Guiana.

Type.—Cat. No. 33300, U.S.N.M.

ELYMIOTIS BOISIL, new species

Male.—Palpi drab gray; a lateral fine fuscous line, the second joint crossed near tip by a broader black line. Head, collar, and mesothorax fuscous, the metathorax and tegulae, except narrowly in front, light cinnamon drab. Abdomen above drab, the basal dorsal tuft darker, underneath pale with a ventral black line. Fore wing light cinnamon drab; fine basal, and double antemedial dark lunular lines, followed from vein 1 by a velvety black thick line upcurved to discocellular and outbent along vein 5, not reaching termen where there are two small black spots above it; this line has a triangular projection below it across median fold, black points above and below it on discocellular, and a small silvery white spot on it near the end with a white projection basad; vein 1, and veins from cell and subcostal to end of postmedial area irrorated with black and white scales; a fine subterminal lunular line; terminal white points on veins; cilia with hair brown spots at veins. Hind wing white at base, the termen broadly dark cinnamon drab, its inner edge diffuse; cilia white. Fore wing below dull drab, the termen with paler shading, also the costa toward apex more narrowly. Hind wing below white, the costa and outer margin to anal angle benzo brown, not so broad as above.

Expanse 45 mm.

Habitat.—French Guiana; Amazons near Teffe.

Type.—Cat. No. 33301, U.S.N.M.

PROELYMIOTIS SEVERINA, new species

Male.—Palpi black, the first joint partly white. Frons white with two large fuscous black spots and two small spots below them; vertex and collar black, the tufts at base of antenna cinnamon brown. Thorax black, the tegulae deep slaty brown, dorsally edged in front with cinnamon brown. Abdomen above benzo brown, becoming fuscous on last segments; a black dorsal tuft at base, with diverging tufts of fuscous and cinnamon hairs; second segment with subdorsal cinnamon hairs; underneath whitish buff. Fore wing: Basal half

deep slaty brown; costa black with a double outangled fine white antemedial line; black lines in cell with fine light drab scaling between them; the subcostal vein mottled with drab and fuscous; outer edge of basal half edged with fuscous black faintly inbent, straight from costa to below cell, slightly incurved across vein 2 and outbent to inner margin where it is preceded by a small patch of vinaceous buff and cinnamon; outer half of wing shell pink shading to pinkish cinnamon on termen; an elongated fuscous black spot on costa, preceded by a black postmedial point from which a faint buffish line crosses the wing; three fine indistinct outer lines slightly inbent, the first crenulate, all with dark points on veins; a subterminal whitish line defined by cinnamon, outbent from costa to vein 7 at termen, then sinuous and bilunular on interspaces with outwardly a few dark scales forming a distinct spot on termen below vein 2. Hind wing buff white, the apex and termen somewhat suffused with cinnamon; a small fuscous spot at anal angle.

Expanse 63 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33302, U.S.N.M.

Named in honor of Mr. Edward Severin Clark.

LYSANA MINASENSIS, new species

Male.—Palpi: First and second joints ochraceous tawny, not reaching end of second joint; third joint and fringe mottled white and pale drab gray. Head, high tufts from base of antennae, collar and thorax mottled white, snuff brown and pale brownish drab. Abdomen above avellaneous with white segmental lines; anal tufts produced medially, extended laterally, light buff tipped with snuff brown; underneath light buff with faint grayish segmental bands. Fore wings vinaceous buff; a fine fuscous basal line on costa to within cell; a subbasal cinnamon drab line outcurved on costa to middle of cell, then inbent, with short projecting cinnamon brown shades below median and below a fine white line which extends through middle of cell onto base of vein 4; a double, sinous, brownish olive antemedial line on costa to white line in cell, closely followed by a finer brownish olive line outangled on subcostal, then inbent to near vein 1, with a slight twist on white cellular line, inwardly edged with white to cellular line and outwardly edged with white below it, followed from within cell by a broad brownish olive shade edged partly with fuscous scales, this shade is inangled on inner edge above fold, its outer edge incurved and has a short fuscous black line at its end in cell downbent to lower angle of cell; a similar dark streak oblique on upper part of discocellular, preceded by a dark velvety point in cell, edged with white; a double olive brown line on costa above end of cell, with

white scaling on outer side of each line; postmedial line faintly double, brownish olive, outbent on costa, excurved to near vein 5, then inbent and excurved, paler, indentate to inner margin; a white semilunular line on middle of inner margin; a fine fuscous line above vein 4, not reaching termen; a white line from costa near apex, excurved, expanding between vein 7 to termen at vein 5 preceded and followed by light brownish olive shading; below vein 5, marginal oblique white lines outwardly edged with brownish olive; cilia white mottled with hair brown, forming spots at veins. Hind wing buff white, the termen broadly benzo brown; cilia white, with dark scaling near anal angle; some dark scaling extends upward at anal angle crossed by a short silvery white line.

Expanse 32 mm.

Habitat.—Minas, Brazil.

Type.—Cat. No. 33303, U.S.N.M.

Larger than *L. postpitca* Schaus, paler, and without the golden brown markings of the latter species.

MARTHULA THOREDA, new species

Male.—Palpi and head sorghum brown, the vertex light russet vinaceous. Collar vinaceous brown. Thorax dark livid brown, the tegulae light russet vinaceous. Abdomen above sorghum brown; underneath light buff, the last two segments dark livid brown. Fore wing light russet vinaceous, the costal area broadly suffused with hay's brown, also the termen from apex to vein 3, with similar suffusions before the subbasal and antemedial lines to near vein 1, before the postmedial line on inner margin and before the outer line to vein 1; lines fine, light grayish vinaceous, the subbasal line vertical on costa, outset below cell and slightly inbent to vein 1; antemedial line double, inbent, the first line interrupted in cell by a dark round spot, the second line followed by a smaller spot in cell; reniform long, narrow, oblique, defined by a pale line; postmedial and outer lines slightly inbent from costa; a subterminal line of small black lunules on interspaces. Hind wing aeneous sorghum brown, the base and central area faintly whitish. Hind wing below buff white, the termen narrowly sorghum brown.

Expanse 37 mm.

Habitat.—St. Laurent Maroni, French Guiana.

Type.—Cat. No. 33304, U.S.N.M.

Allied to *M. quadrata* Walker.

Four males from the Dognin collection.

MARTHULA CYNRICA, new species

Male.—Palpi and body above as in *M. thoreda* Schaus; underneath the terminal segments carob brown, the anal hairs tipped with black. Fore wing light vinaceous drab, medially between lines from cell to

vein 1, also on termen from vein 3 to tornus; lines as in *M. thoreda*; costal margin and termen above vein 4 suffused with mars orange with a short brighter upright line below costa at postmedial line; deep brownish drab suffusions before outer line from vein 4 to inner margin, and before antemedial line from cell to vein 1, also along inner margin to outer line; subterminal narrow upright black spots on interspaces, below veins 3 and 2 forming lunules, outwardly pale edged. Hind wing whitish, the veins and termen diffusely cinnamon drab. Hind wing below white with a few terminal brownish scales.

Expanse 34 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33305, U.S.N.M.

Nearest *M. hirsuta* Schaus. Genitalia slides have been made of this species, and of *M. thoreda* Schaus, *M. hirsuta* Schaus, and *M. quadrata* Walker, showing distinct characters.

Genus EUDMOE Hübner

Male.—Antenna with minute fascicles of hair on basal half. Palpi long, porrect, the second joint with projecting hairs above and below, the third joint smooth. Legs smooth, the tibia well scaled; hind tibia with two pairs of long spurs. Fore wing terminally broad; costa and inner margin straight; apex acute; outer margin rounded; vein 2 towards end of cell; 3 and 4 apart; 5 from middle of discocellular; 6 from upper angle; areole very small; 7-10 on long stalk. Hind wing broad; costa slightly curved at base; outer margin rounded; the inner margin short; vein 2 from near end of cell; 3 and 4 from lower angle; 5 from middle of cell; 6 and 7 stalked; 8 close to 7 to end of cell.

Genotype.—*E. arne* Cramer.

EUDMOE CARRIETA, new species

Male.—Palpi, fore legs, mid legs partly, and tarsi brownish quaker drab; part, of mid tibia and hind legs jasper pink. Head, collar, and thorax benzo brown. Abdomen light jasper red, the base dorsally and last segment fuscous. Fore wing benzo brown, the termen broadly cinnamon brown; a faint darker subbasal line slightly mottled with grayish, followed below cell by a small cinnamon drab spot; antemedial line double fuscous, filled in with some faint dark grayish scaling becoming white from above vein 1 to inner margin; an oval cinnamon brown spot on discocellular edged with white scaling and slightly irrorated with white; a broad grayish drab shade from apex, inbent to inner margin, crossed by the fine double benzo brown postmedial line which is slightly outcurved below costa, and nearly vertical; a benzo brown shade from end of cell oblique to postmedial below vein 2; postmedial followed from vein 6 by benzo brown, defined before terminal space by slight white subterminal scaling on

interspaces; veins terminally fuscous, and termen narrowly fuscous, expanding slightly toward apex inclosing small marginal cinnamon brown spots. Hind wing fuscous black. Wings below deep mouse gray, the margins of fore wing mouse gray.

Expanse 45 mm.

Habitat.—Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33306, U.S.N.M.

Named in honor of Mrs. W. J. (Carrie) Holland.

LEPASTA BRANDA, new species

Male.—Palpi russet with a few scattered white hairs; tufts at base of antenna mummy brown mottled with white hairs. Head white behind. Collar warm buff mottled with white and mummy brown. Tegulae white irrorated with mummy brown, and a lateral mummy brown streak. Metathorax with white tufts. Abdomen above whitish largely suffused with wood brown; lateral down turned light buff hairs; venter white. Fore wing: Costa raw umber, not reaching apex; base of cell and inner margin to cell and vein 2 white irrorated with olive brown; an antemedial thick, short black streak above vein 1; a pure white line in outer half of cell anteriorly continued and slightly downcurved on and below vein 5, upturned to vein 7, then downbent to near vein 6 at subterminal line, with a brownish olive shade before it on costa, continued below it to vein 2 and somewhat upbent to termen at vein 3; this dark shade encroaches on white line at lower angle of cell; a fine black subterminal line wavyly crenulate; interspaces above veins 5 and 7 whitish irrorated with olive brown. Hind wing and cilia drab. Fore wing below suffused with drab. Hind wing below: Margins broadly white, the intermediate space benzo brown extending on to termen between veins 3 and 4.

Expanse 30 mm.

Habitat.—São Paulo de Olivença, Amazons.

Type.—Cat. No. 33307, U.S.N.M.

Two males from the Dognin collection.

Somewhat like *L. mascella* Schaus and *L. pittieri* Schaus; these two species described under *Antiopha* must be removed to *Lepasta*.

DASYLOPHIA BLAIZEA, new species

Female.—Palpi: Second joint with a black line above, and a grayish line below it, the fringe light buff with some wood brown mottling; fringe on first joint white. Frons wood brown; a white mark on tuft at base of antenna; collar wood brown, with some chestnut brown in front. Thorax mostly white, the tegulae dorsally white, laterally pinkish buff. Abdomen above drab with white segmental lines, the last two segments white with drab irrorations; underneath white irrorated with drab. Fore wing mostly pinkish buff suffused with avellane-

ous on basal third of costa; a series of black points medially below costal edge; a double medial wood brown line slightly outbent and united at lower angle of cell, preceded on costa by a buffy brown shade, below cell inbent to a black spot above fold which is the end of a black line from vein 1 near basal area, with a finer black line below it; inner margin rather thickly irrorated with black below vein 1 to tornus, except on basal area; an outcurved postmedial wood brown line from costa to the black spot below cell, then downbent to middle of inner margin; a similar evenly curved outer line, faintly double to a dark spot below vein 2, followed between costa and vein 5 to termen by a hazel shade on which the veins are finely black and with whitish intranerval lines edged with black, sharply pointed basad; a fuscous terminal patch between veins 2 and 4, mottled with brown and with a white spot above vein 2 at outer line and a pale marginal angled line broken by vein 3. Hind wing white; veins terminally avellaneous; a very fine terminal avellaneous line.

Expanse 58 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33308, U.S.N.M.

In long series of the variable *D. xylinata* Walker, and *D. maxilla* Schaus, I can find no females with entirely white hind wings. The postmedial and outer evenly curved and parallel lines are also a distinct character.

FARIGIA LIBORIA, new species

Male.—Palpi above brown, laterally and below mottled vinaceous buff and white. Head, thorax, and abdomen above liver brown mottled with white hairs. Abdomen below light buff. Fore wing russet irrorated with white and greenish white scales; a broad ante-medial fascia, rejeane green edged with irregular natal brown lines; a small black and whitish mark on discocellular; postmedial line double, natal brown, filled in with Lincoln green, vertical, slightly sinuous from costa to vein 2, then slightly inbent, followed on costa by a clearer quadrate brown spot; subterminal line natal brown, irregular; termen and inner margin below vein 1 irrorated with Lincoln green, more thickly on inner margin. Hind wing pecan brown, the cilia tipped with white.

Expanse, male, 38 mm.; female, 43 mm.

Habitat.—Amatura, Teffe, Amazons; French Guiana.

Type.—Cat. No. 33309, U.S.N.M.

The contrast between the clear medial space and the green markings is very conspicuous.

FARIGIA LUICANA, new species

Male.—Palpi hazel, the fringe below tipped with white. Head, collar, and thorax hazel thickly mottled with white hairs. Abdomen

above cinnamon mottled with white hairs, underneath light buff. Fore wing: Basal third of costa and cell white with some hazel scattered scales; below cell mostly glaucous; antemedial line glaucous, defined by natal brown scales, curved at costa near middle and indented to inner margin; space beyond to postmedial mottled hazel and white with some glaucous scaling around discocellular and on inner margin; a sulphur yellow spot below costa before postmedial; two dark lines indicating discocellular spot; postmedial line slightly outcurved, fuscous, somewhat macular to submedian fold, followed by faint traces of a paler second line; termen irrorated with glaucous, but very slightly so between veins 4 and 6; subterminal line irregular, fuscous; some white scaling on cilia. Hind wing pecan brown, the cilia tipped with white.

Expanse, male, 34 mm.

Habitat.—Lino, Panama.

Type.—Cat. No. 33310, U.S.N.M.

Described from three males.

FARIGIA THELIAN, new species

Male.—Palpi chestnut brown above, laterally avellaneous, below white. Head, collar, and thorax white mottled with army brown hairs. Abdomen above fawn color with army brown dorsal tufts on three basal segments; underneath light buff. Fore wing white thickly irrorated with fawn color especially on terminal third; an oblique chestnut brown basal line from below costa to submedian fold and a black line edged with chestnut brown from it along submedian fold to just beyond postmedial line; a medial hazel line, straight to vein 1, then double, lunular, on inner margin followed by a narrow russet shade; a black point on discocellular; postmedial line double, fine, hazel, slightly outcurved from costa, followed by some darker spots from vein 3 to inner margin; an irregular subterminal fine hazel line, consisting of oblique streaks below veins 4 and 3; the base of inner margin white. Hind wing buckthorn brown; cilia tipped with white. Wings below light buff, the fore wing suffused with light pinkish cinnamon; some hazel cilia on costa of hind wing before apex.

Expanse 47 mm.

Habitat.—Buena Vista, Colombia.

Type.—Cat. No. 33311, U.S.N.M.

FARIGIA 'ALICIA, new species

Male.—Palpi chestnut brown above, white below. Head and thorax cinnamon brown mottled with white hairs chiefly on tegulae. Abdomen above chestnut brown thickly overlaid with white scales except on segmental lines; a dorsal chestnut brown tuft at base; underneath light buff. Fore wing: Base and inner margin broadly to tornus

Rinman's green, the wing otherwise white thickly irrorated with chestnut brown especially on terminal area; a double, deeply angled, dark subbasal line; antemedial line double, dentate, inbent from costa to below cell, then single, outbent, lunular to near middle of inner margin; a fine black line on submedian fold to postmedial line; a small white spot with a few black scales on discocellular; a faint dark lunular line crosses the wing beyond cell, followed by the more distinct double lunular postmedial line, the outer part thicker, black from submedian fold to inner margin; beyond are some whitish oblique shades on interspaces from vein 6 to vein 2; subterminal line fine, black, outbent from costa to vein 6, vertical to vein 4, below 4 broken into oblique lines outwardly shaded with white, cilia with white points at veins. Hind wing fawn color, narrowly darker on termen; cilia white. Fore wing below shaded with fawn color, the hind wing light buff.

Expanse 42 mm.

Habitat.—Songo, Bolivia.

Type.—Cat. No. 33312, U.S.N.M.

FARIGIA SENNEN, new species

Male.—Palpi buffish edged above with blackish brown. Head and thorax liver brown mottled with white hairs, the collar only tipped with white. Abdomen above liver brown, white hairs forming segmental lines, the two terminal segments and anal hairs whitish; underneath light buff. Forewing: An outcurved fascia from base below costa, liver brown irrorated with pale green scales, the base of costa and inner margin buffish, the former irrorated with liver brown and with two similar outbent short lines; antemedial space and inner margin to tornus thickly mottled with light green scales, on inner margin limited above by a curved black line from antemedial to postmedial, with a similar shorter line along vein 2; antemedial line liver brown, wavy, not distinct; upper portion of wing medially whitish with a few liver brown irrorations; a raised white point on discocellular with a few black scales on inner edge; a drab line crosses the wing beyond cell, closely followed by a liver brown lunular line, outbent on costa, slightly inset at vein 4, then vertical to inner margin, a narrow whitish shade preceding it on inner margin; terminal area light cinnamon drab with some diffuse whitish marks; subterminal line fine, hair brown, irregular, outwardly partly shaded with white; some white hairs on cilia. Hind wing army brown, the cilia tipped with white.

Expanse 37 mm.

Habitat.—Maroni River, French Guiana; São Paulo de Olivença, Amazons.

Type.—Cat. No. 33313, U.S.N.M.

Nearest *F. magniplaga* Schaus.

SYMMERISTA SIGEA, new form

Male.—Body and forewing as in *S. tlotzin* Schaus. Hind wing at base and on inner margin white suffused with light buff; veins drab; outer margin from middle of costa dark hair brown, becoming narrower at anal angle; cilia white. Hind wing below with the hair brown on costa to base, irrorated with white scales from base to apex; outer margin and cilia as above.

Expanse 36 mm.

Habitat.—Coary, Amazons.

Type.—Cat. No. 33314, U.S.N.M.

A male and a female from the Dognin collection.

CERURA PURUSA, new species

Male.—Palpi black. Head white, the eyes fringed with black hairs which extend along frons above palpi. Collar and thorax white, a black line across front of thorax expanding somewhat dorsally; two small dorsal spots, and two larger spots on metathorax. Abdomen above black, base, terminal segment, laterally and ventrally white; a black line on anal hairs, not meeting dorsally. Fore wing silvery white, the markings black; a triangular spot at base, its apex at base of cell, its outer edge excurved and with an outbent line to cilia on inner margin; a small triangle at middle of inner margin filled in with warm buff; a short upturned line from inner margin postmedially with black and buff scaling on its outer edge; a round spot at middle of cell filled in with warm buff, and a bifurcating line on costa above it; a small streak on costa above discocellular; and outer thick line, from above vein 4, sinuous to costa, with another line close beyond from vein 6 excurved and outbent on costa, a white spot between them on costa, and warm buff scales between veins 8 and 6, these continuing along the outer edge of first line to its end; terminal black lunules on interspaces including cilia; at veins the cilia are white. Hind wing white, semihyaline in cell and interspaces beyond cell.

Expanse 34 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33315, U.S.N.M.

Closely allied to *C. trigonostigma* Dyar from Mexico.

PEROARA CATERINA, new species

Female.—Head, collar, and thorax benzo brown mottled with white hairs especially on tegulae, the base of the hairs, laterally on tegulae, buff, also a long tuft of buff hairs on dorsal side in front. Abdomen pale ochraceous buff, the basal dorsal tuft natal brown; some hazel scaling sublaterally towards end of abdomen. Fore wing: Base of

costa and cell to double medial line benzo brown mottled with white and buff scales, limited below by a fuscous line, outbent from base of subcostal to median vein; base of inner margin white irrorated with fuscous and natal brown scales; inner margin to above vein 5 mottled white and natal brown, crossed by two dark medial lines and the white postmedial and subterminal lines; the double dark medial line slightly incurved, partly crossing a large fuscous spot in cell; a triangular white and buff space over end of cell and discocellular, its apex at vein two, its base on subcostal, slightly irrorated with natal brown, the costa above it natal brown thickly irrorated with white; postmedial line double filled in with whitish on costa, with clear white on inner margin, outbent and sinuous on costa, inbent along vein 6, then deeply lunular dentate to vein 2; a subterminal white shade preceded by a dark space on costa, with fuscous streaks above and below vein 7, expanding towards cell between veins 6 and 4, then narrow to vein 2 and outbent to tornus; a fine terminal white line; cilia morocco red, cut by yellowish fine lines at veins; the tips of cilia yellowish. Hind wing buffish suffused with fawn color, the termen broadly army brown; an indistinct medial and postmedial darker shade; cilia tipped with white.

Expanse 51 mm.

Habitat.—Blumenau, Brazil.

Type.—Cat. No. 33316, U.S.N.M.

PSILACRON CONGALLA, new species

Male.—Head, collar, and thorax light brownish olive. Abdomen above drab with fine dark segmental lines; some olive buff anal hairs; underneath olive buff with ventral black spots on all the segments. Fore wing suffused with olive ocher; base of costa finely dark purple drab; a similar streak along upper edge of cell to antemedial line; transverse lines sayal brown, on costa fine; antemedial line double, sinuous, interrupted; medial line wavyly outbent and angled between veins 3 and 4 at postmedial, then inbent to middle of inner margin between two small round white spots above vein 1, these spots more darkly edged; a faint pale grayish shade above and below vein 3 at cell; postmedial line double, below costa mostly light yellowish olive, deeply outcurved at vein 6, inbent and lunular to fold, then sinuous, vertical to inner margin; some light vinaceous gray scaling irrorated with black following postmedial between veins 5 and 4; a cinnamon shade from apex, inbent and expanding at vein 5 crossed by a sayal brown subterminal line which is wavy, broken, ending in an outbent dark line from vein 2 to vein 1 with black points on these veins; a few black hairs on cilia at veins. Hind wing whitish buff suffused with hair brown forming a broad shade on outer margin; cilia whitish suffused with olive ocher.

Expanse 34 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33317, U.S.N.M.

Somewhat like *P. luteovirens* Felder, the fore wing broader, the outer margin rounded; also smaller.

PSILACRON GORDIANA, new species

Male.—Head, collar, and thorax yellow ocher, the tegulae mottled with drab gray. Abdomen above ochraceous buff on two basal segments, beyond suffused with fuscous; anal hairs warm buff; underneath warm buff, a ventral black spot near base and one on last segment. Fore wing mostly warm buff; antemedial and medial lines zinc orange, the former double, outcurved to middle of inner margin, preceded by mouse gray scaling on inner margin irrorated with black, and some black scales above vein 1; the medial line outbent, angled at vein 4 and inbent to middle of inner margin, cinnamon irrorated with black on costa; postmedial fine, double, outbent from costa to vein 6, vertical to vein 4, and inbent to vein 2 below which it is vertical to inner margin; apical area suffused with sayal brown; subterminal black spots from costa to below vein 4, the two spots nearest costa placed on small trigonate buff yellow spots. Hind wing suffused with drab; some white suffusions at base, and a whitish postmedial line inwardly edged by a fine black line; cilia warm buff.

Expanse 49 mm.

Habitat.—Monte Tolima, Colombia.

Type.—Cat. No. 33318, U.S.N.M.

This species is closely allied to *P. luteovirens*, but larger, with darker hind wing and the fore wing broader, the outer margin rounded as in *P. congalla* Schaus.

URGEDRA OSLACA, new species

Female.—Head, collar, and thorax, hessian brown; a few white hairs on collar; a transverse whitish line on metathorax. Abdomen above fuscous, underneath mars brown. Fore wing hessian brown; some baryta yellow scales on costal margin, and four oblique costal lines toward apex; a fuscous subbasal line outbent below cell to vein 1; a faint antemedial fuscous line, outangled on fold, followed by some white and baryta yellow scaling around angle; an irregular white and yellowish oblique line on discocellular; a subterminal white line indentate on veins 5 to 1 mottled with baryta yellow at veins, followed narrowly by hessian brown scaling on interspaces; a terminal hessian brown line, inwardly edged by bluish white scales, interrupted by veins; the veins terminally baryta yellow irrorated with hessian

brown, this coloring extending on cilia, which are hessian brown on interspaces, and crenulate. Hind wing dark cinnamon drab; cilia tipped with white, and with yellowish points at veins. Wings below sorghum brown, the cilia darker with whitish yellow spots at veins.

Expanse 50 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33319, U.S.N.M.

URGEDRA NABORA, new species

Male.—Head, collar, and thorax mottled ocher red and white, the white predominating on collar; tegulae light cinnamon drab. Abdomen above light drab, paler laterally. Fore wing light cinnamon drab; some pale veronese green metallic scaling below subcostal on basal third, similar scaling before antemedial line broadly, and also broadly before outer line, diminishing toward costa; subterminal small chestnut brown lunules, with some metallic scaling, increasing at tornus; antemedial almost evanescent, except from fold to inner margin, outcurved, somewhat lunular, sayal brown to fold, below it chestnut brown; a faint medial, and a double postmedial sayal brown line; outer line slightly incurved from below vein 4, fine, chestnut brown, outwardly edged with white; a fuscous point in middle of cell; a dark line on discocellular. Hind wing tawny, the base and costa broadly whitish; cilia mottled white and tawny.

Expanse 37 mm.

Habitat.—Monte Tolima, Colombia.

Type.—Cat. No. 33320, U.S.N.M.

Near *Urgedra viridiflava* Dognin = *U. luceria* Druce, in which the green scaling is dull.

From the Dognin collection.

DICENTRIA FECHIMA, new species

Male.—Palpi and frons light pinkish cinnamon, the palpi streaked above with fuscous. Vertex, collar, and thorax mottled cinnamon buff and chestnut, the tegulae laterally suffused with fuscous. Abdomen above hair brown, the base and last two segments light pinkish cinnamon, underneath buff white. Fore wing: Base obliquely and inner margin cinnamon, followed by a black space to postmedial; a narrow cinnamon streak above fold from base; a long curved cinnamon buff spot on outer half of cell, crossed by a fine double medial line, and a cinnamon line at discocellular; costa from before middle light ochraceous buff, expanding from postmedial to apex; postmedial consisting of a blackish outcurved shade followed by cinnamon scaling on interspaces from vein 2 to vein 6, and some white scaling on veins; terminal area prout's brown, inwardly darker shaded; subterminal dark spots below costa; cilia pinkish buff with dark spots at veins. Hind wing white; costa light drab; veins terminally irrorated with

cinnamon brown, and similar scales on termen; some dark scaling at anal angle and a dark streak extending toward base; the inner margin whitish buff; cilia white.

Expanse 37 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33321, U.S.N.M.

Nearest *D. limosoides* Schaus = *claricostata* Dognin.

SCHIZURA SALVADOR new species

Female.—Palpi fuscous fringed with white. Head, collar, and thorax mottled white and fawn color. Abdomen above light cinnamon drab suffused with cinnamon at base, underneath white irrorated with light cinnamon drab. Fore wing bister, the veins black; a black streak at base below cell; a round black spot between veins 2 and 3 at cell; verona brown streaks on interspaces beyond cell, and a similar streak below middle of cell and vein 2; cilia white with dark spots at veins. Hind wing white, the veins beyond cell and termen aeneous sayal brown, rather darker at anal angle; cilia white except at anal angle. Hind wing below white with a snuff brown spot at anal angle.

Expanse 40 mm.

Habitat.—San Salvador.

Type.—Cat. No. 33322, U.S.N.M.

From the Dognin collection.

LITODONTA CENTIGERNA, new species

Male.—Palpi army brown, somewhat darker above. Frons mottled cinnamon drab and white. Vertex fuscous, collar and thorax pale drab gray mottled with drab and cinnamon drab. Abdomen white irrorated with cinnamon, more densely toward base, forming transverse bands; underneath white. Fore wing largely white, the lines benzo brown; a faint subbasal line; antemedial space snuff brown mottled with white below cell; antemedial line double outcurved to median, the inner line with projecting streaks above and below median to near base, below cell deeply outangled below fold, and again on inner margin; medial space to postmedial snuff brown on costa, otherwise partly irrorated with brown, crossed by a fine incurved line in cell; postmedial army brown with some fuscous scaling, double, outangled at vein 7 and vein 3, inangled at discocellular and vein 5, below vein 3 incurved; veins from cell fuscous; interspaces suffused with buffy brown, outwardly defined by a white, deeply dentate subterminal line, a fine fuscous marginal line; cilia partly white. Hind wing white; inner margin broadly, termen narrowly fawn color; cilia white.

Expanse 27 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33323, U.S.N.M.

NOTOPLUSIA MARCHIANA, new species

Male.—Very similar to *N. clara* Cramer. Antenna fasciculate on basal half instead of being shortly pectinated. Forewing differs in having the subterminal broad black line lunular on interspaces, with only one lunule from vein 6 to vein 4, followed by a fine lunular chestnut line, interrupted by veins; terminal chestnut lunules, expanding at veins. Hind wing whitish, the margins suffused with drab narrowly so on outer margin.

Expanse 40 mm.

Habitat.—Buenavista, eastern Andes, Colombia.

Type.—Cat. No. 33324, U.S.N.M.

Another male from Rio Songo, Bolivia, has the hind wing almost completely white.

Genitalia slides have been made of these two specimens and of *N. clara* Cramer, showing them to be absolutely different.

From the Dognin collection.

NOTOPLUSIA TALMECANA, new species

Male.—Palpi fuscous above, buff white below. Head, collar, and thorax vinaceous buff; a medial line of olive brown and cinnamon hairs from vertex to metathorax. Abdomen above chestnut drab, the last two segments and anal hairs buff white with a few dark irrorations; underneath white. Forewing tilleul buff; a white line on median to vein 3, narrowly edged in cell with sayal brown, and below cell with antimony yellow; below this a mouse gray streak and a streak in cell, both irrorated with black; similar suffusions medially from fold to inner margin; an interrupted dark, outbent subbasal line; traces of an antemedial line on costa with a few black scales on subcostal; a postmedial dusky narrow shade, outbent on costa, incurved below vein 2; a very faint outer dentate line, except from costa to vein 6, where the angles are filled in with fuscous, outwardly edged with white, below vein 6 are fuscous points, followed by whitish and then by short fuscous streaks on veins; a faint dusky shade from cell along vein 5 to termen; terminal fuscous points on interspaces; cilia white, with fuscous streaks at veins. Hind wing drab; cilia white suffused with drab at base.

Expanse 35 mm.

Habitat.—Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33325, U.S.N.M.

In general appearance very much like the species of *Talmeca*.

MISOGADA BRIOCA, new species

Female.—Antenna pectinated on basal half. Palpi cinnamon brown above, the third joint and fringe white. Head, collar, and thorax white mottled with buffy brown; two tufts on metathorax partly edged with fuscous, the center irrorated with iridescent scales. Abdomen above white irrorated with buffy brown, and with some buff brown hairs at base; underneath white. Fore wing white, thinly irrorated with buffy brown, more so on inner margin and costa medially; traces of a subbasal dark line; antemedial line double, fine, the inner part hardly traceable below cell, the outer part well defined, buffy brown irrorated with fuscous, outbent on costa, dentate, inbent from middle of cell, outbent, even from median to near vein 1, inangled and outbent to inner margin near postmedial; a fine dark curved line on discocellular, inwardly edged with clear white; postmedial line benzo brown from an elongated fuscous shade on costa, inbent, crenulate, incurved from veins 8-4, then outbent, and again incurved from vein 2 to vein 1, followed by a narrow buffy brown shade; a subterminal hair brown shade from below costa, narrower from vein 4 to tornus; a very wavy marginal fuscous line. Hind wing whitish. the outer margin thickly irrorated with buffy brown.

Expanse 31 mm.

Habitat.—San Ignacio Mission, Argentine Republic.

Type.—Cat. No. 33326, U.S.N.M.

From the Dognin collection.

TRUMANDA SCHIFFI, new species

Male.—Palpi black fringed with white. Head cream white. Collar and thorax white mottled with a few drab hairs. Abdomen above cream white; anal tufts mottled with hair brown. Fore wing white; costa with small mouse gray spots at origin of lines; patches of drab irrorations at base and on antemedial area from subcostal to vein 1; a mouse gray subbasal line, outbent and angled on fold, inwardly edged with clear white, followed on inner margin by a mouse gray patch; antemedial line double, across cell black, below cell mouse gray somewhat incurved, filled in with white to vein 1 below which is a round mouse gray spot; end of cell dull white; discocellular with a black bar; veins 3-8 from cell black to subterminal line; between veins 4-8 the interspaces dull white, appearing semihyaline, crossed by a fine double incurved postmedial black line, which on costa is rather vague, outbent, mouse gray, below vein 4 inbent, diverging, the inner line doubled by a line from base of vein 3 and incurved to inner margin, the outer part outset, lunular, also mouse gray; from vein 2 beyond its base an ochraceous orange and tawny bar not reaching vein 1, and a similar spot below vein 5 at discocellular; subterminal thick black spots outbent from

costa to vein 6, inbent below it to vein 4, followed by a sinuous white line edged below vein 4 on either side with hair brown; a fine marginal line, straight and inset on each interspace; terminal hair brown irrorations at tips of veins; cilia white with hair brown spots at veins. Hind wing semihyaline white below vein 6 and lower part of cell; costal margin broadly white; a postmedial black line from costa to vein 6; inner margin broadly light buff. Wings below white; costa of fore wing fuscous for two-thirds from base; costa of hind wing broadly black.

Expanse 48 mm.

Habitat.—Buena Vista, Colombia.

Type.—Cat. No. 33327, U.S.N.M.

Named in honor of Mr. Mortimer L. Schiff, a generous contributor to the Dognin fund.

DISPHRAGIS CLITIUSA, new species

Male.—Palpi fuscous above and laterally, fringe and tip of second joint whitish buff. Collar cinnamon in front, whitish buff behind. Thorax drab suffused with light vinaceous drab. Abdomen above drab, suffused with brown towards base; underneath white or light drab according to light. Fore wing drab mottled with cinnamon drab; a darker shade from base below streak to medial line at vein 1; a fine double subbasal line outangled on costa, lunular below cell with a short black streak on it from base below cell; a cinnamon patch antemedially on costa; a double medial line below cell partly traced with black scales, lunular, deeply indentate just below cell and on vein 1, inbent and sinuous on inner margin; a fine dark incurved line on discocellular touched at either end by a more heavily outcurved black postmedial line, almost vertical from vein 2 to vein 1, then fine and outbent, crossed above vein 2 by a faintly downcurved thick black line to near termen, and by a fine black line from discocellular above vein 4; traces of a similar line above vein 5; a fine double outer line very faint, irregular and interrupted; a whitish subterminal line inwardly edged with black between veins 8 and 6 and a small black spot above vein 3; fine marginal and terminal dark lines. Hind wing white, the costal margin drab crossed by three dark lines toward apex, and a whitish line before the last; inner margin suffused with drab.

Expanse 45 mm.

Habitat.—Joinville, Brazil.

Type.—Cat. No. 33328, U.S.N.M.

Near to *D. daona* Druce, larger, paler, the line above vein 2 straighter, the subterminal line less distinct.

Three males in the United States National Museum, two from the Dognin collection.

DISPHRAGIS EPIMACHA, new species

Female.—Palpi fuscous streaked above, laterally light buff, the fringe buffy brown. Head, collar, and thorax mottled light buff and vinaceous cinnamon, the tegulae dorsally and metathorax with some fuscous and drab scales. Abdomen above light drab on basal half, the terminal half vinaceous buff; some fine dark segmental lines; underneath vinaceous buff with dark segmental lines. Fore wing: Basal half mostly sayal brown; base grayish limited by a double black line from a small orange spot near base of median vein, outbent to vein 1, and filled in with white; antemedial line fine, black and outbent on costa, then oblique wavy lunular to the fine medial black line at inner margin; postmedial fuscous line incurved from subcostal to vein 3 followed by a large buffish white spot, partly suffused with warm buff which narrows and reaches costa before apex. This space is indentated at its middle by a brown space on costa, its outer edge is limited by a cinnamon brown subterminal sinuous shade, which encroaches upon it between veins 6 and 4, below vein 4 the subterminal is velvety fuscous, outcurved to below vein 3, inangled, and outangled below vein 2; the pale space is crossed near cell by a fine curved cinnamon line, and by a partly double cinnamon brown outer line, which on costa is outbent and filled in with white; terminal antimony yellow spots on interspaces preceded by some diffuse hair brown shading and crossed by a fine cinnamon brown line; vein 1 and veins from cell partly irrorated with black and white; cilia tipped with ochraceous buff on interspaces; postmedially below vein 2 is a smaller buffish white space. Hind wing dark buffy brown; a faint postmedial pale line, ending at a small white spot on inner margin above anal angle; cilia white with dark spots at veins.

Expanse 43 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33329, U.S.N.M.

DISPHRAGIS MARUSA, new species

Female.—Palpi mottled wood brown and white, streaked above with fuscous. Head and collar mottled light buff and pecan brown. Thorax mottled brownish drab and light buff, the lateral tuft of tegulae dark grayish brown. Abdomen above dark grayish brown, except at base and on two last segments which are whitish irrorated with cinnamon and cinnamon drab; dorsal tuft at base dark grayish brown; underneath drab. Fore wing mostly sayal brown; base of costa to below cell and inner margin medially suffused with cinnamon buff; an irregular cinnamon brown subbasal line; costa medially mottled olive buff and light yellow crossed by three dark lines; a faint double medial dark line, very fine, vertical from subcostal to vein 1; a white crescent on discocellular divided by a fine cinnamon brown line

inwardly edged by a narrow dark shade which is downcurved to vein 2 and termen; postmedial line cinnamon brown, from costa above discocellular where each line is outwardly edged with white, outbent along vein 11, downbent, lunular and vertical to vein 3, then incurved to inner margin near tornus; some sayal brown and hair brown mottling between crescent and postmedial line; some greenish and whitish yellow mottling beyond postmedial from vein 3 to costa at apex; the cinnamon brown line on crescent is continued across lower angle of cell and downcurved to vein 2 and subterminal line which is also cinnamon brown outwardly edged with white, indentate between veins 6 and 4, outset on 4 and curved to join line from crescent, with traces of the line below vein 2; the subterminal is followed by a broad fuscous shade which becomes narrower and broken below vein 3, then by a light dull green yellow thick line, cut by the fuscous veins and edged by a wavy fine black line; termen from apex to vein 3 narrowly brownish drab, below vein 3 to tornus light yellowish green, terminally edged by a faint black line; cilia light brownish drab with fuscous spots at veins; there is a whitish space postmedially from vein 2 to vein 1. Hind wing dark drab; a faint white postmedial line; cilia whitish with faint dark spots at veins. Hind wing below whitish; a discal spot, broad medial shade, and termen broadly drab.

Expanse 41 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33330, U.S.N.M.

The nearest allied species is *D. atilis* Schaus.

DISPHRAGIS ARIMA, new species

Male.—Palpi black above, fringe mottled buffy brown and whitish. Collar brownish olive, broadly fuscous behind with white tipped hairs on posterior edge. Thorax mottled buffy olive and brownish drab. Abdomen above dark grayish brown; dorsal crests dusky brown; last segment tawny olive. Fore wing light brownish olive slightly irrorated with black; a double, curved, subbasal black line; antemedial and medial lines indistinct, fine, black, dentate; a fine fuscous line on discocellular edged with fawn color; a fine dark dentate line outcurved beyond cell, closely followed by the similar double postmedial line, the latter with white spots on veins along its outer edge, and a series of fuscous and tawny small streaks on interspaces, the one below vein 3 larger; a fuscous and orange cinnamon streak along inner margin before middle; a faint subterminal dark line, lunular or oblique on interspaces; veins from cell irrorated with black and white; a fine dark terminal line with whitish points on veins; cilia light brownish olive with dark spots at veins. Hind wing: Inner and outer margins broadly drab; lower part of cell and interspaces beyond

whitish; costal margin light brownish olive crossed by a double post-medial and a subterminal black line; a punctiform postmedial faint line; cilia buffy olive tipped with white and with dark hairs at veins.

Expanse 40 mm.

Habitat.—Arima, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33331, U.S.N.M.

Closely related to *D. vestona* Schaus; the hind wing quite different.

DISPHRAGIS SABARIA, new species

Male.—Palpi fuscous black above, brown laterally and below, but white toward tip of second joint, and on third joint. Frons buffish; some cinnamon buff between antennae. Vertex, collar, thorax, and basal tuft on abdomen prout's brown. Abdomen above drab partly overlaid with cinnamon drab, the last segment mottled with white; underneath pale drab gray. Fore wing: Base obliquely from costa to a black medial streak on inner margin, buckthorn brown; costa and cell to beyond discocellular, and below cell to vein 1 and medial line white irrorated with ochraceous tawny; a faint double fine line on costa; medial line, double, cinnamon brown, outbent from before middle of costa to beyond middle of inner margin, filled in with white, irrorated in cell with black; a small black spot in cell toward end; some black scaling on discocellular partly edged outwardly with whitish; outer space beyond largely buckthorn brown, darker toward apex; a fuscous shade between veins 4 and 5 and from vein 3 to fold; a fuscous double line on costa above discocellular; postmedial line remote, faint, cinnamon brown, partly irrorated with black, incurved between veins 7 and 4, and below vein 3; subterminal line pale and fine from costa to vein 5, then broader, white, lunular to vein 2; veins from cell mostly black; cilia tipped with white and with black spots at veins. Hind wing suffused with benzo brown; a double darker postmedial line, followed by a faint whitish band; costal margin and cell whitish buff; the postmedial lines on costa cinnamon brown; veins from cell black; cilia tipped with white. Hind wing below buff white.

Expanse 50 mm.

Habitat.—Mana River, French Guiana.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33332, U.S.N.M.

DISPHRAGIS HYGINIA, new species

Male.—Palpi buffy brown above, white below mottled laterally with buffy brown. Frons white with some cinnamon scaling. Vertex fawn color. Collar deep brownish drab, crossed by a black line. Thorax cinnamon brown, the tegulae deep brownish drab. Abdomen

above cinnamon brown the last two segments white irrorated with cinnamon brown; underneath white with pale ecru drab segmental lines. Fore wing dark buckthorn brown with an olivaceous tinge, possibly vivid green when fresh; a large triangular white space from base to middle of costa, narrowing to vein 1 before middle of inner margin; traces of a double antemedial ochraceous tawny fine line; a similar double medial line, inbent on costa, interrupted in cell, lunular and vertical from median to vein 1; a fuscous spot at end of cell; an outcurved cinnamon brown line around end of cell; some fuscous scaling between veins 2 and fold from medial to postmedial line, this latter double, somewhat lunular, inbent from costa; white spots on termen from above vein 4 to vein 2, partly cut by some marginal buckthorn brown scales, the white extending on cilia, which are otherwise only tipped with white. Hind wing white, thinly scaled on interspaces below vein 7; some brownish scaling on inner margin; costa opaque white with a double postmedial buckthorn brown line, and small spots at apex.

Expanse 46 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33333, U.S.N.M.

A very distinct species.

DISPHRAGIS DRUONA, new species

Male.—Palpi black, the fringe buffy white. Head, collar, and thorax mottled light yellowish olive and buffy brown. Abdomen above drab, underneath light buff. Fore wing light yellowish olive; double basal, antemedial and medial fine fuscous lunules on costa; cell and base to antemedial thickly irrorated with black; a black, diffuse fascia from lower angle of cell, oblique, expanding to marginal line from vein 3 to vein 1; a fuscous line on discocellular; postmedial line lunular dentate, outbent on costa, followed on veins by white and black points, the veins beyond black irrorated with white; a diffuse benzo brown subterminal shade, expanding somewhat between veins 4 and 6; a marginal lunular black line from vein 7 to inner margin; a terminal darker green line with a few black scales; cilia tipped with white, and with black spots at veins. Hind wing hair brown, the costal margin broadly dull green, crossed by a double, wavy, fuscous, postmedial line, and a dusky subterminal shade; cilia green tipped with white and with dark points at veins.

Expanse 37 mm.

Habitat.—French Guiana.

Type.—Cat. No. 33334, U.S.N.M.

Two males in the Dognin collection.

DISPHRAGIS CARANTIS, new species

Male.—Palpi buff in front, black laterally. Head, collar, and thorax reddish brown. Collar behind dark with some white tipped scales at center; shoulders and tegulae shaded with dull green. Abdomen above fuscous brown. Forewing: Costal margin dull green with black lines and black points toward apex; below costa the wing is chiefly purplish brown with a light brown shade from discocellular to apex; some luteous hairs at base of inner margin; a light brown streak at base below submedian and a black streak below it to antemedial line; antemedial line black with a white point on submedian and one below it; a dull green streak on discocellular partly edged with white; postmedial indistinct, black, with minute white points on veins; the veins terminally black with a few white irrorations; subterminal fuscous streaks and spots; a terminal green line cut by the veins and outwardly edged with black; cilia mottled fuscous and light brown. Hind wing fuscous, the veins darker; an indistinct pale straight postmedial line; costal margin tinged with green and brown above vein 7 with a dark medial streak, and a dark streak before the postmedial line. Forewing below fuscous gray, the veins darker except on termen and inner margin which are narrowly white. Hind wing below whitish; some terminal greenish irrorations; cilia white with fine black streaks at veins.

Expanse 36 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33335, U.S.N.M.

DISPHRAGIS AGAPA, new species

Male.—Palpi black above and laterally, the fringe and hairs on legs mottled white and buffy brown. Head, collar, and thorax mottled avellaneous and pale drab gray. Abdomen above light buff suffused with drab. Fore wing: Base fuscous mottled with drab close to thorax and on inner margin, limited by the black antemedial line which is deeply outbent in cell, inangled below cell then wavily outbent; medial area grayish on costa, light cinnamon drab at lower part of cell and below cell to inner margin, below vein 2 expanding to beyond postmedial line; a fine velvety black line, incurved along discocellular and on median to vein 2, somewhat punctiform; a broad fuscous shade beyond cell from vein 8 to vein 2 and tornus, its outer edge irregularly incurved, outwardly edged by the fine fuscous black postmedial line, which is inangled at vein 5, sinuous to vein 2, then incurved; a broad oblique white spot from vein 5 to near apex, followed by fuscous spots; termen mottled fuscous and wood brown; a marginal fine dark line, somewhat lunular. Hind wing white, the termen drab; the hairs on inner margin whitish buff; cilia white.

Expanse 28 mm.

Habitat.—Venadio, Sinaloa, Mexico.

Type.—Cat. No. 33336, U.S.N.M.

The species is close to *D. subrotata* Harvey and may prove to be the same species when more material is examined.

DISPHRAGIS PSALMOIDA, new species

Male.—Head and body dull green; tufts on metathorax and base of abdomen dorsally mottled with bone brown. Fore wing buffy olive, the lines fine, fuscous; a double subbasal line on costa; antemedial line lunular, slightly outcurved; a faint line on discocellular; postmedial line outwardly edged with white on costa, wavy to vein 5, then crenulate, followed by a double series of black points on veins with white points between them from vein 8 to vein 3, connected by a very faint crenulate line; the veins from cell to termen black. Hind wing whitish, the inner margin buffy brown, expanding at anal angle; costal margin broadly buffy olive with a double fuscous postmedial line, and a subterminal line, preceded by a whitish shade; a terminal brown line and short dark streak on tips of veins; cilia tipped with white.

Expanse 29 mm.

Habitat.—Venezuela.

Type.—Cat. No. 33337, U.S.N.M.

HEMIPECTEROS TEFFEINA, new species

Male.—Palpi: Second joint fuscous fringed with white; third joint wood brown tipped with white. Head, collar, thorax, and abdomen above mouse gray mottled with white and benzo brown, the latter color chiefly on collar; abdomen below white. Fore wing white irrorated with mouse gray, deep mouse gray, and fuscous; some black scales from base of costa form an indistinct outbent line; antemedial and postmedial lines, also a lunule on discocellular, fine, black, all filled in with ochraceous buff, the antemedial line vertical, sinuous, the postmedial outbent along vein 8, almost vertical to vein 3, then incurved, followed by a parallel dark smoky line outangled above vein 6; terminal space suffused with drab; a fine black marginal line, wavy and incurved to vein 4, then broken and lunular; cilia mottled white and chestnut brown. Hind wing white; a narrow light drab shade at apex; a terminal fuscous lunule at anal angle, surmounted by a brown shade; the veins terminally finely brown.

Expanse 47 mm.

Habitat.—Teffe, Amazons.

Type.—Cat. No. 33338, U.S.N.M.

From the Dognin collection.

This species is allied to *H. arthemis* Schaus.

MALOCAMPA MEDOMMOCA, new species

Male.—Palpi fuscous fringed with light buffy drab. Head white, collar light ochraceous buff, the hairs posteriorly tipped with white. Thorax fuscous black, the tegulae chiefly white mottled with some dark hairs. Abdomen above eceru drab, underneath buffish. Fore wing light grayish olive; an oblique, irregular, and broken black streak from base of costa to vein 1 near antemedial line; a double subbasal dark line on costa; antemedial line, fine, double, both black on costa and inner margin, the inner line faint grayish olive, the outer line distinct, black, inangled on subcostal and median, outcurved in cell, and from above fold to vein 1; a fuscous spot at lower angle of cell; reniform outlined by black, a dark line on costa above it; postmedial line fine black, lunular on costa, outbent and sharply angled, incurved to vein 4, then inbent and incurved on each interspace to inner margin; three black spots on costa toward apex; subterminal diffuse black spots, oblique and connected from veins 8 to 6, inset from 5 to 4, outset just below 4, inset below 3, with a short black streak on inner margin at tornus. A fine marginal black line, parallel with termen from costa to vein 4, then wavy to tornus. Hind wing smoky benzo brown, the cilia white. Wings below hair brown. Fore wing with costa narrowly white and four black spots toward apex; whitish terminal streaks on interspaces. Hind wing with termen narrowly white.

Expanse 40 mm.

Habitat.—French Guiana.

Type.—Cat. No. 33339, U.S.N.M.

From the Dognin collection.

MALOCAMPA MAMMERTA, new species

Female.—Palpi black above, fringe white mottled with some black hairs. Head, collar, and thorax white mottled with some fuscous hairs, forming a transverse line on vertex and on collar. Abdomen above drab, the last two segments white irrorated with drab; underneath white. Fore wing white, the basal half with some hair brown irrorations; an ovate black line from near base of inner margin, curved to median, then outcurved to inner margin limited by the double medial line, the space inclosed deep mouse gray crossed by a dark mouse gray curved line; a fine black subbasal line; a fine double antemedial benzo brown line on costa; the double medial line fine, fuscous, outangled on costa, outcurved on cell; discocellular spot large outlined by black, filled in with whitish and buffy brown, the space before it narrowly, broadly beyond it to postmedial line suffused with wood brown, and crossed close beyond cell by an outcurved snuff brown line to just below vein 2; postmedial line fine, double, fuscous black slightly outcurved, below vein 3 slightly sinuous and inbent;

terminal space whitish irrorated with drab; subterminal line white, outcurved below costa, incurved opposite cell, expanding into a white spot between veins 3 and 4; a fine marginal black line, lunular from vein 4 to tornus; cilia white with some dark mottling. Hind wing white, somewhat suffused with drab on inner margin and terminally along veins; cilia white. Hind wing below white; some hair brown scales medially on fringe of costa.

Expanse 42 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33340, U.S.N.M.

Near *Malocampa lunula* Dognin.

MALOCAMPA RANDAUTA, new species

Male.—Palpi fuscous black above, the cilia mottled tilleul buff and carob brown. Head, collar, and thorax mottled carob brown and white. Abdomen above benzo brown, underneath pale ochraceous buff. Fore wing: Base mottled brown and light buff limited by a double carob brown line filled in with light buff, outcurved and inangled on median; antemedial space fuscous from costa to just below median, with a few whitish scales, then to inner margin thickly irrorated with white limited by a double fuscous line filled in with cinnamon buff, outbent from costa, curved and narrower below cell to middle of inner margin, and with white points on median, fold, and vein 1; medial and outer space buffy brown irrorated with pinkish buff; reniform pinkish buff with two carob brown points; a medial line defined by absence of irrorations excurved from costa across discocellular and inbent from vein 4 to middle of inner margin crossed by fuscous streaks on veins; postmedial line fine, double, snuff brown, wavy to vein 4, then parallel to termen, with black points on veins, followed and preceded by white irrorations on veins; veins beyond mostly fuscous with some white scaling; a subterminal and a marginal snuff brown diffuse shade defined by the pale irroration from vein 7 to vein 3; a terminal carob brown line, inwardly edged from vein 3 to tornus with light ochraceous buff; cilia with dark spots at veins. Hind wing deep brownish drab; cilia naples yellow tipped with white. Fore wing below deep brownish drab; light buff spots on costa toward apex; cilia whitish buff tipped with brownish drab and divided by dark streaks at veins. Hind wing below: Base, inner margin broadly, termen narrowly and cilia light buff; outer space deep brownish drab becoming narrow at anal angle.

Expanse 40 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33341, U.S.N.M.

Allied to *M. omarita* Dognin and *M. sorex* Schaus.

MALOCAMPA BRONACHA, new species

Male.—Palpi black with a few grayish hairs in fringe. Head, collar, and thorax fuscous, the metathoracic tufts mottled with ochraceous tawny. Abdomen above cinnamon brown, underneath light buff. Fore wing fuscous suffused with hair brown; base ochraceous tawny, its outer edge indentate on median vein; antemedial line light brownish olive, finely edged with black, slightly outcurved and lunular; a round buffy olive spot on discocellular containing a few dark scales; postmedial line crenulate outwardly edged with light brownish olive on interspaces, followed by white points on veins between black points; the terminal space brownish olive, the veins black; a subterminal fuscous shade from apex to vein 4; a terminal black line preceded by light brownish olive spots on interspaces; cilia brownish olive with fuscous lines at veins. Hind wing fuscous brown, somewhat paler at base; a fine medial dark line, defined by slightly paler shading; a black and white spot at anal angle; cilia buffy brown. Fore wing below dusky drab with some whitish shading on costa to apex. Hind wing below from within cell to inner margin at anal angle light buff, otherwise dusky drab; cilia light buff.

Expanse 45 mm.

Habitat.—Avangarez, Costa Rica.

Type.—Cat. No. 33342, U.S.N.M.

Allied to *M. obscura* Schaus.

RHUDA DECEPTA, new species

Male.—Body and fore wing above as in *R. focula* Cramer. Hind wing light orange yellow, the termen fuscous black, 4 mm. in width, emitting a broad black streak toward base before inner margin; cilia light orange yellow. Fore wing below dark purplish gray, base of costal margin, inner margin to near tornus and a broad streak below cell and vein 4 to subterminal line buff yellow; costa on outer half white with black spots and fine lines; a fine subterminal whitish line preceded by velvety black spots above vein 6 to costa and followed by a similar streak above vein 7; terminal triangular yellow spots at veins 5-8, below 5 the termen yellow divided by a fine dark line between veins 4 and 2. Hind wing below pinard yellow, the marginal dark band not so broad as above, projecting very slightly well before inner margin; cilia light orange yellow which extends slightly on termen.

Expanse 55 mm.

Habitat.—Colombia.

Type.—Cat. No. 33343, U.S.N.M.

The hind wing is more like that of *R. tuisa* Schaus, the male of which is much smaller.

GISARA MEYERI, new species

Male.—Palpi: Basal joints with a lateral hazel line, a black line below it and short black fringe above, below fringed with hair brown; third joint smooth, buff white, with a small fuscous spot at tip. Head light buff, collar buffy brown behind, darker in front and transverse whitish hairs between the two. Thorax chestnut brown, the tegulae mottled drab, pale drab gray, and white; lateral white tufts on metathorax. Abdomen above benzo brown; a fuscous white tipped dorsal tuft at base; anal segment light buff with a fuscous dorsal spot, the long lateral tufts warm buff; underneath light buffish drab. Fore wing: Base drab gray crossed by a thick hair brown lunular line, limited by a double fuscous subbasal line; costal margin and cell benzo brown, the costal edge and a streak below subcostal slate color, the veins slate color with short black streaks, and white streaks on terminal space; an antemedial natal brown double line, irregular and partly broken; medial area below cell to inner margin suffused with slate gray; a natal brown medial curved line in cell, inwardly edged with cinnamon; a faint cinnamon line on discocellular; postmedial line outcurved on costa, then inbent, double, finely wavy, fuscous; a large cream white space at tornus to vein 4 with a small subterminal white spot above it, the upper edge downcurved to vein 3, inbent along 3 and irregularly curved to close to tornus, some black points on veins; subterminal dark spots toward costa; marginal black points partly irrorated with white from vein 7 to vein 4, below 4 some very small black lunules. Hind wing benzo brown, the outer margin broadly fuscous, narrowing to anal angle; cilia white suffused at base with benzo brown. Fore wing below hair brown, the costa terminally whitish with dark irrorations; terminal white patches on interspaces; marginal black points or lunules; base of cilia partly white. Hind wing below hair brown, the cell and below it to inner margin buff white; cilia white which extends on termen.

Expanse 56 mm.

Habitat.—St. Laurent, French Guiana.

Type.—Cat. No. 33344, U.S.N.M.

Type collected by Barnes and Schaus; other specimens in Dognin collection.

Near *G. procne* Schaus, differs in color, detail of markings, and the very different underside.

Named in honor of Mr. Eugene Meyer, a contributor to the Dognin fund.

GISARA BREWSTERI, new species

Male.—Similar to *G. procne* Schaus = *Sambana* Druce well figured in the *Biologia*. (Pl. 92, fig. 13.) Differs in having the hind wing white, the veins irrorated with benzo brown, more thickly on termen.

Expanse 57 mm.

Habitat.—San Jose, Costa Rica.

Type.—Cat. No. 33345, U.S.N.M.

Named in honor of Mr. F. F. Brewster, a subscriber to the Dognin fund.

GISARA BRAUNI, new species

Male.—Palpi: Basal joints orange cinnamon, the third wood brown above, light buff below. Head and collar orange cinnamon. Thorax medially orange cinnamon edged with white; tegulae pale drab gray mottled with light drab and light cinnamon drab; the shoulders whitish. Abdomen above fuscous, usually with a buffish dorsal line; basal dorsal tuft black mottled with bluish gray scales; anal hairs light buff and orange cinnamon. Fore wing mostly chestnut brown; costa narrowly cinnamon brown on outer half, becoming paler at apex; four light buff points on costa before apex; inner margin from below cell and obliquely below fold to postmedial line irrorated with silvery white and pale gray scales; base with some fuscous irrorations; a faint dark subbasal line; antemedial line double, fuscous and cinnamon brown, outcurved in cell, inangled below cell, vertical below fold; a postmedial lunulate, dentate, indistinct line; subterminal line double, outcurved below costa, faintly darker than ground color, then fuscous, somewhat lunular, very slightly inbent; a large terminal white space from tornus frequently suffused with olive buff on termen, its inner edge incurved from vein 3 to vein 1, above 3 extended as a subterminal curved line to vein 6, very narrow between veins 5 and 6; marginal orange cinnamon lunules, outwardly black from vein 7 to vein 3, below which are fuscous lines on interspaces. Hind wing buffy brown suffused with fuscous, faintly paler at base; cilia mottled wood brown and buff, tipped with white. Wings below dark hair brown; a fuscous medial line; interspaces darker subterminally; fore wing with costa buff on outer half also on termen; a marginal wavy fuscous line with black points, and some cinnamon brown shading on interspaces near costa; hind wing with termen and cilia light buff.

Expanse 60 mm.

Habitat.—San Antonio, Colombia.

Type.—Cat. No. 33346, U.S.N.M.

Five males from the Dognin collection.

Named in honor of Mr. F. W. Braun, of Los Angeles, a generous contributor to the Dognin fund.

GISARA METCALFI, new species

Male.—Palpi: Basal segments sayal brown with a lateral verona brown line; third joint light buff with a fine lateral fuscous line. Head and front of collar pinkish buff, collar behind pale drab gray;

lateral tufts behind eyes and base of antennal tufts sayal brown. Tegulae mottled drab gray and snuff brown with scattered cinnamon and black scales. Abdomen above hair brown; basal dorsal tufts mottled black, drab gray, and buff; anal segment and hairs, also underside of abdomen light buff. Fore wing: Costal edge avellaneous with numerous olive brown striae; a medial streak below costa, the cell and slightly beyond and below it sayal brown; base to antemedial, inner margin to above fold and on interspaces to vein 4 before outer line vinaceous buff; a double basal dark sinuous line; antemedial line double, indistinct, vertical, the outer part lunular, fuscous from cell to inner margin, followed from costa to lower angle of cell by a fine orange cinnamon sinuous line; a black point on discocellular; postmedial line faint snuff brown, outbent on costa, lunular dentate, followed by a double dark line, outcurved, faint below costa, below vein 7, the inner part lunular, orange cinnamon, partly spotted with black, the outer part of the line with larger black spots between veins 6 and 4; a silvery white space from tornus to vein 6, becoming narrower owing to terminal dark suffusions, the inner edge is incurved to vein 3, then dentate and incurved between veins 4 and 6; marginal black and white spots, reduced to fine lines below vein 3; cilia with white points at veins. Hind wing brownish fuscous, paler at base and on interspaces near cell; cilia tipped with white. Fore wing below hair brown, the costal margin and inner margin to near tornus light buff; terminal orange cinnamon shading on interspaces; the veins from cell black irrorated with white, extending on cilia with white points at veins, the termen and cilia on interspaces light buff. Hind wing below whitish buff, the costa irrorated with hair brown, the termen suffused with hair brown, not very broadly; cilia whitish with paired dark spots at veins.

Expanse, male, 66 mm.; female, 80 mm.

Habitat.—Male from Songo, Bolivia, a female from northeast Peru, and a female from Juan Vinas, Costa Rica.

Type.—Cat. No. 33347, U.S.N.M.

A male and a female from the Dognin collection.

Named in honor of Senator Jesse H. Metcalf, a generous contributor to the Dognin fund.

BORIZA IGNATIA, new species

Male.—Head, collar, and thorax isabella color; some black scales on collar behind, on dorsal edge of tegulae and on metathorax. Abdomen above chamois with black segmental bands. Fore wing above cream buff, with a very faint greenish tinge, the inner margin broadly, and outer space beyond postmedial, except on costa suffused with tawny olive and cinnamon buff irrorated with black scales, more

thickly so medially between fold and vein 1, forming a fuscous streak; a short curved basal line of black and cinnamon scales on costa; antemedial line formed by some black scales, double on costa, incurved to below cell, and outcurved across fold; reniform indicated by cinnamon buff lines; a postmedial line of black scales outcurved beyond cell to vein 2, interrupted and inbent on inner margin, followed by two faint series of black scales, barely forming lines; veins beyond cell whitish irrorated with black; some white scaling at apex preceded by a black streak between veins 7 and 8; shorter subterminal black streaks between veins 5 and 7; some terminal black points; cilia white on interspaces. Hind wing white; inner margin light buff and isabella color, the latter forming a narrow shading on outer margin.

Expanse 38 mm.

Habitat.—Blumenau, Brazil.

Type.—Cat. No. 33348, U.S.N.M.

TALMECA DABUISA, new species

Female.—Palpi bone brown fringed with light buff. Head, collar, and thorax deep olive buff. Abdomen above citrine drab, the terminal segments deep olive buff; underside citrine buff with pale segmental lines. Fore wings vinaceous buff with scattered buffy brown irrorations; a chartreuse yellow streak below cell and vein 2 to termen; a drab shade in base of cell, and a large black spot on discocellular; a hair brown streak on vein 4 to outer points, above it a faint greenish shade to termen, and similar shades on terminal interspaces; a faint basal line on costa; antemedial line punctiform, double, outbent to middle of cell, then slightly inbent; faint traces of a postmedial line, and a more remote series of points on interspaces, followed by two series of black points on veins; terminal black spots on interspaces; cilia with dark spots at veins. Hind wing drab, the cilia white.

Expanse 33 mm.

Habitat.—Corozal, Canal Zone.

Type.—Cat. No. 33349, U.S.N.M.

TALMECA AGATHOSA, new species

Male.—Palpi fuscous fringed with pale ochraceous buff. Head, collar, and thorax dark olive buff, the tegulae deep olive buff. Abdomen above chaetura drab, the last two segments and hairs at base light ochraceous buff; underneath white. Fore wing pale ochraceous buff, the inner margin suffused with dark olive buff; a similar streak below median at base, then above median to termen above vein 4; a basal and a subbasal russet vinaceous line on costa, the inner antemedial line starting from the basal line; antemedial double deeply outbent and outangled in cell, lunular below cell; a small yellowish citrine spot on discocellular; a line from costa above cell deeply out-

bent below subcostal, double, outcurved well beyond cell, lunular, russet vinaceous, followed by slight similar scaling on interspaces, then by a double series of claret brown points on veins with white points between them; termen narrowly white preceded by some dark olive buff dashes on interspaces; cilia white with claret brown points on interspaces. Hind wing dark drab, the cilia white.

Expanse 33 mm.

Habitat.—Miracema, Rio Purus, Brazil.

Type.—In Carnegie, Museum, Pittsburgh.

Paratype.—Cat. No. 33350, U.S.N.M.

CHADISRA PARAGORNA, new species

Male.—Palpi, head, collar, and thorax mottled prout's brown and white, the white hairs predominating on tegulae; a fuscous patch medially on thorax. Abdomen above prout's brown with darker segmental bands; underneath white except anal hairs. Fore wing: White scaling at base with a fine black subbasal line; costa at base and medially avellaneous, irrorated medially with white; costa beyond postmedial line white irrorated with drab also between basal and antemedial lines where the white extends into cell; basal line double, fuscous, outcurved to below cell, then outbent; inner margin to fold and from basal line to tornus suffused with light brownish olive; antemedial line double, fuscous black, lunular, incurved below cell followed below vein 2 by a white streak, these lines filled in with brownish olive and a similar shade in end of cell; a drab incurved line on discocellular outwardly edged by a dark line from costa, out-angled at vein 4 with white mottling before and beyond it to post-medial from subcostal to vein 3; postmedial line fuscous black, outbent at costa and broken, crenulate, inset on vein 5, filled in with white to vein 3, inbent at vein 4 and vertical to inner margin filled in with white from vein 2 to inner margin, followed between veins 5 and 8 by velvety fuscous black streaks, by a small spot below vein 4 and a larger spot below vein 2; space beyond white to marginal line crossed by a diffuse drab shade, narrow from apex, expanding to vein 2; marginal line black, wavy, lunular, outwardly bordered with white thickly irrorated with drab to the fine fuscous terminal line; cilia white spotted with drab. Hind wing white, the outer margin broadly fuscous, extending narrowly upward at inner margin, partly cut above anal angle by a short white line; cilia white.

Expanse 35 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In the Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33351, U.S.N.M.

The species is allied to *C. fitilla* Dognin.

CHADISRA FINIANA, new species

Male.—Palpi vinaceous buff, with some natal brown scales on upper edge. Head, collar, and thorax mottled white, cinnamon drab, and benzo brown, the tegulae whitish mottled with light buff and with a few fuscous tipped hairs; sublateral white and buff hairs from metathorax. Abdomen above whitish, the fourth and fifth segments hay's brown; the basal segments with subdorsal cinnamon hairs; anal segment white with some dark scales; underneath whitish. Fore wing white with some light cinnamon drab irrorations; costal edge on basal third, except the base, brownish drab followed by similar spots to near apex; an antemedial fuscous black space from subcostal to below median vein limited by an irregular dark line, outbent and lunular below fold; a faint medial drab shade; an ill defined white lunule on discocellular; a faint drab postmedial diffuse line, followed by a more distinct, very fine outer line, fuscous black, lunular between veins 6 and 3, followed from vein 4 to costa by a broad deep brownish drab shade, limited by a white, dentate, subterminal line; below vein 3 this outer line is inset, lunular to inner margin, followed by a dark incurved line between veins 3 and 2; a drab patch at tornus; termen dark from apex to vein 4 with thick marginal black lunules; below vein 4 the termen is white with a marginal black line outcurved at end of veins 3 and 2. Hind wing white, the outer margin fuscous, and a short curved black line about it at anal angle.

Expanse 34 mm.

Habitat.—Villavicencio, Colombia.

Type.—Cat. No. 33352, U.S.N.M.

Two males from the Dognin collection.

CHADISRA ULRICA, new species

Male.—Palpi chestnut brown above, below whitish with benzo brown irrorations. Head mottled drab and whitish, some fuscous hairs on tufts at antennae. Collar mostly fuscous; thorax mostly drab and white. Abdomen above drab with some white scaling and whitish segmental lines, underneath whitish buff. Fore wing drab; dark mouse gray suffusions in cell near base and below subcostal to postmedial line; benzo brown spots and lines on costa; subbasal and antemedial fuscous lines below cell, the antemedial outbent; some light buff hairs at base of inner margin; no distinct mark on discocellular; a faint cinnamon drab postmedial line outcurved around cell, somewhat dentate, at submedian fold downbent forming two fuscous lunules to inner margin; a more remote fine fuscous black line from vein 7, slightly outangled at vein 6, vertical to vein 4, and lunular inbent to inner margin, followed above vein 2 by a fuscous black streak, above vein 3 a shorter similar streak outset, and small

spots above other veins to vein 8, all followed by a faint whitish subterminal wavy shade; a fine fuscous black lunular marginal line. Hind wing white the costal and outer margin hair brown. Fore wing below largely white with brownish suffusions on costal half. Hind wing below white; a short benzo brown shade from costa close to apex.

Expanse 38 mm.

Habitat.—Teffe, Amazons.

Type.—Cat. No. 33353, U.S.N.M.

From the Dognin collection.

CHADISRA EZRANA, new species

Female.—Palpi chestnut, the fringe partly tipped with white. Head, collar, and thorax deep brownish drab mottled with white. Abdomen above drab with paler segmental lines; underneath tilluel buff. Fore wing buffy brown; costa to postmedial line, inner margin to fold, and terminal area irrorated with white; some white scaling at base; a short outbent black line from base below cell; a short fuscous streak in cell near base, and a longer streak below cell to antemedial, this line faintly darker, double, filled in with white, interrupted in cell, lunular below fold; a faint darker line from costa to discocellular on which are two small black spots; postmedial line darker, double, slightly outcurved, well beyond cell; a subterminal hair brown shade, outwardly edged with whitish, below vein 4 clear white, expanding from vein 3 to tornus; white spots at termen on interspaces, leaving a narrow dark terminal line; cilia white with brown spots at veins. Hind wing whitish suffused with avellaneous, the veins dark; outer margin broadly dark drab, fuscous and excurved above at anal angle, with white above it divided by an excurved white line. Hind wing below with the costa dark drab to near base.

Expanse 41 mm.

Habitat.—Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33354, U.S.N.M.

Allied to *Chadisra lautina* Dognin.

CHADISRA CELSA, new species

Male.—Palpi, head, collar, and mesothorax mottled white and buffy brown, the palpi buffy brown above. Metathorax mottled white and fuscous. Abdomen above mouse gray, some cinnamon hairs at base; anal segment and hairs mostly white; underneath white irrorated with buffy brown, very thickly on basal half. Fore wing white largely irrorated with buffy brown, less so on terminal area, some long hairy scales near base in and below cell; faint, fine, dark basal and subbasal lines; antemedial line fine, approximated to medial, thicker on costa

with some fuscous scales, the antemedial defined on inner side by clearer white, followed by a few black scales on median vein and fold, the medial line somewhat outbent, not reaching inner margin; a clear white spot on discocellular; postmedial line fine, fuscous black, lunular, at vein 2 slightly inset and vertical with smaller lunules, followed from costa to inner margin by a broad wood brown shade with small fuscous spots on outer edge above and below submedian fold; subterminal diffuse brownish shading; a marginal black line, straight from below apex to vein 3, then slightly lunular wavy. Hind wing white, the tips of veins and termen narrowly wood brown.

Expanse 36 mm.

Habitat.—Songo, Bolivia.

Type.—Cat. No. 33355, U.S.N.M.

A male and female from the Dognin collection.

This species is allied to *C. tenuis* Schaus and *C. lauta* Schaus.

CHADISRA EMETERIA, new species

Male.—Palpi fuscous black above, underneath white irrorated with fuscous. Ocelli brownish drab thickly mottled with white hairs; a fuscous black line between antennae; vertex and collar cinnamon brown, the latter edged laterally and behind with fuscous tipped with white; thorax drab, the tegulae white irrorated with fuscous. Abdomen above drab, the anal segment and hairs mottled benzo brown and white; underneath white. Fore wing silvery white thinly irrorated with drab, the lines fuscous; a broken basal line; subbasal line double, inbent on costa, outset in cell, diverging below cell, the inner part incurved, crossing a buff yellow spot below fold, the outer part, outcurved approximating the antemedial line; antemedial line double, finely wavy, slightly outcurved, filled in with benzo brown from cell to inner margin, outwardly edged with buff yellow above fold, and below fold to inner margin by two maize yellow lunules; a buff yellow crescent at end of cell, partly edged with benzo brown, part of a line from costa which approximates the antemedial line at fold and edges the two yellow lunules, crossing buff yellow spots below veins 3 and 2; postmedial line indentate on costa, outangled at vein 6, double from vein 6 to vein 3, filled in with buff yellow above veins 5 and 4; a narrow space before the postmedial on inner margin benzo brown, also the tornal area; from below vein 2 the postmedial is outwardly bordered with white, partly suffused with maize yellow; a subterminal series of black streaks and spots on interspaces very small between veins 4 and 5; a marginal wavy black line; terminal black points at veins; cilia white with paired drab spots at veins. Hind wing white, the outer margin broadly benzo brown; some dark scaling near inner margin above anal angle; a partly double small angled black line at anal angle.

Expanse 36 mm.

Habitat.—Nova Olinda, Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33356, U.S.N.M.

Allied to *Chadisia extranea* Schaus, which is darker and has none of the buff yellow markings on fore wing.

MERAGISA SALVINA, new species

Male.—Palpi black fringed with white and buffy brown hairs. Head, collar, and front of thorax mottled white and buff brown, the thorax otherwise and tegulae mostly white; from metathorax laterally and behind light buff tufts. Abdomen above drab with faint white segmental lines, the base with cinnamon scaling, the anal segments white with a few dark scales; underneath light buff. Fore wing white irrorated with wood brown, the costal edge light buff; a subbasal massicot yellow line, inbent outwardly edged with army brown scales; antemedial and outer lines double, buffy brown filled in with massicot yellow, the former outset in cell, faintly outbent below cell; a dark medial line from costa to median vein, its outer edge with a massicot yellow line on discocellular; postmedial line very fine wood brown, lunular, incurved opposite cell and below vein 3; outer line lunular, incurved from costa, outset between veins 4 and 3, then again incurved; fuscous marginal semicurved lines, and fuscous terminal spots, forming a line toward apex. Hind wing drab, the inner margin cream buff; cilia white.

Expanse 54 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33357, U.S.N.M.

Allied to *M. pallescens* Schaus and *M. cloacina* Dognin, but not so white.

MERAGISA VISTARA, new species

Male.—Palpi black above, not reaching tips; fringe white with a few dark hairs. Head, collar, and thorax mottled with white and fuscous hairs; a transverse fuscous line on collar; metathorax with warm buff hairs. Abdomen above cinnamon on two basal segments, then wood brown overlaid with deep olive buff hairs, the last two segments white irrorated with black; underneath warm buff. Fore wing silvery white irrorated with buffy brown, the subcostal veins from cell, and vein 1 tinged with olive buff; the antemedial and outer lines black, double, filled in with deep olive buff, also the subbasal line on costa, subbasal line double on costa, inbent, single, excurved and outbent below cell; antemedial line inbent on costa, outset in cell, lunular and outbent below cell to inner margin; a white spot on discocellular with a black and warm buff line, above it on costa a faint dark outbent line; postmedial line very fine, lunular dentate,

dark olive buff, outcurved from costa, slightly incurved from below vein 3; outer line double and inbent from costa to vein 3, then single; oblique, curved, black marginal streaks on interspaces; terminal black spots. Hind wing hair brown, the inner margin broadly warm buff; a postmedial fuscous line, outangled on inner margin; traces of a subterminal line, well marked at anal angle; cilia white. Fore wing below deep quaker drab, the margins maize yellow. Hind wing below maize yellow, suffused below costa and subterminally with deep quaker drab.

Expanse 63 mm.

Habitat.—Buena Vista, Colombia.

Type.—Cat. No. 33358, U.S.N.M.

MERAGISA SIMEONA, new species

Male.—Antenna with the fascicles more developed than in any other species of the genus. Palpi chestnut brown fringed with drab gray. Head and collar mottled white and chestnut brown. Thorax and tegulae pale smoky gray with a few drab hairs. Abdomen above hair brown; some cinnamon scaling at base; anal segment white irrorated with hair brown; underside light buff. Fore wing white; base just below cell and middle area irrorated with wood brown; some black scales form an indistinct subbasal line; an antemedial chestnut brown line, double, thick, finely dentate, outbent to median vein, then fainter, lunular, vertical to vein 1 and outbent on inner margin; inner margin from near base to outer line broadly suffused with light cinnamon drab; discocellular with a fine fuscous line edged with white; postmedial line extremely faint, light cinnamon drab, outcurved around cell; outer line fuscous lunular, inbent from costa to vein 4 followed by orange cinnamon spots, slightly outset below vein 4 and again inbent with only faint traces of orange cinnamon beyond; a marginal deeply curved black line, partly cut by veins on termen; cilia white. Hind wing drab, the inner margin light buff; cilia white.

Expanse 45 mm.

Habitat.—Monte Tolima, Quindiu, Colombia.

Type.—Cat. No. 33359, U.S.N.M.

Two males and a female from the Dognin collection.

MERAGISA EUTHYMIA, new species

Male.—Palpi fuscous with a few white hairs in fringe. Head, collar, and thorax mottled pallid neutral gray and army brown, the latter forming a conspicuous dorsal patch on collar and front of thorax; light buff lateral tufts from metathorax. Abdomen above suffused with cinnamon on basal segment, the following segments hair brown, the last two segments white irrorated with hair brown; underside light buff. Fore wing white rather thickly irrorated with drab; costa grayish olive at base; a wavy subbasal fuscous line with some

warm buff scales on costa and just below cell. Antemedial line double, benzo brown, inangled on subcostal, below cell fainter slightly outbent to inner margin; a white and fine dark line on discocellular, and a small outbent line above it on costa; a double outbent post-medial line on costa, then inbent and hardly traceable; outer line double, hair brown, inbent forming a single lunule from vein 6 to vein 4, inset at vein 3 and excurved to inner margin; marginal line fuscous, broken, well edged on inner side with white; a terminal punctiform line; cilia white. Hind wing dark drab; inner margin broadly warm buff crossed by a dark curved line above anal angle; cilia white.

Expanse 51 mm.

Habitat.—Santo Domingo, Peru.

Type.—Cat. No. 33360, U.S.N.M.

A male from the Dognin collection.

Differs in color and its white cilia from the allied species *M. submarginata* Schaus and *M. innoxia* Schaus.

MERAGISA MOCHOSEMA, new species

Male.—Palpi fuscous, the fringe terminally mottled light grayish olive and cinnamon drab. Head, collar, and tegulae dorsally mottled light grayish olive and benzo brown, the tegulae otherwise mottled olive buff and white. Abdomen above hair brown, the base pinkish cinnamon overlaid with light buff hairs; terminal segment irrorated with white and fuscous; underneath warm buff. Fore wing deep olive buff irrorated with fuscous scales, the markings chiefly fuscous; edge of costa at base warm buff; a basal point below cell; a double subbasal line, consisting below cell of a few fuscous scales, followed by a patch on costa; antemedial line double, vertical, interrupted by veins, closely followed by a double medial line, the outer part macular to fold, then outbent lunular; a faint white line on discocellular with a few black scales on outer edge; postmedial line fine, dusky, faintly outcurved, and incurved below cell; outer line from costa near apex, double, lunular, somewhat incurved to vein 3, then more so to inner margin, filled in with dark olive buff from vein 6 to costa, and between veins 2 and 3; a faint irregular subterminal shade; a marginal natal brown line, inwardly edged with white, vertical from costa to vein 6, inset and vertical wavy to vein 2, again inset forming oblique lines; termen mottled with whitish; a terminal natal brown line; cilia tipped with white. Hind wing army brown; a double dark curved line above anal angle, defined by whitish; a darker terminal line; cilia white.

Expanse 41 mm.

Habitat.—Teffe, Amazons.

Type.—Cat. No. 33361, U.S.N.M.

Two males from the Dognin collection.

MERAGISA POLYCARPA, new species

Male.—Palpi fuscous above edged laterally with army brown, the fringe white. Frons mottled white, fuscous and cinnamon. Vertex white and fuscous with an angled fuscous line in front. Collar white and fuscous crossed by a fuscous line and edged with fuscous behind. Thorax white and fuscous. Abdomen above light drab; underneath buff white. Fore wing whitish thickly irrorated and mottled with buffy brown producing a darker shade toward apex; a fine basal black line from costa to cell; a double fuscous subbasal line, outbent on costa, inbent in cell, slightly outcurved below cell, followed from fold to vein 1 by a dusky neutral gray spot; antemedial line double benzo brown, outcurved, lunular; a short black line on discocellular; postmedial line, double, benzo brown, lunular dentate, the inner part fuscous between veins 5 and 2, with long projecting points on veins, almost reaching the marginal line, this latter consisting of small black spots toward apex, below vein 6 of small black lunules; terminal black points on interspaces, and short lines on tips of veins; cilia mottled white and cinnamon drab. Hind wing buffish drab, broadly benzo brown on outer margin; cilia white.

Female.—Fore wing with fewer dark mottlings, but the dark shade beyond cell toward apex, partly fuscous, the postmedial line between veins 2 and 3 heavily marked.

Expanse, male, 34 mm.; female, 35 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33362, U.S.N.M.

Closely allied to *M. arenosa* Schaus.

DUGONIA, new genus

Female.—Antenna serrate with short fascicles of hairs at base, then ciliate to middle. Palpi slightly upturned, long, the second joint thickly scaled, the third smooth. Legs smooth, the mid tibia with a long and a short terminal spur, the hind tibia with two pairs of long spurs, the outer terminal spur short. Fore wing long and rather narrow, the termen somewhat crenulate; vein 2 from beyond middle of cell; 3 and 4 from lower angle; 5 from middle of discocellular; areole short originating at end of cell; 6 from upper angle; 7, 8 and 9, 10 from end of areole; 11 free. Hind wing: Costa straight; apex rounded; termen somewhat obtuse below vein 2 to anal angle; cell half the length of wing; vein 2 well before lower angle; 4 and 5 from lower angle; 6 and 7 from upper angle; 8 diverging from cell before middle.

Genotype.—*Dugonia eliera*, new species.

DUGONIA ELIERA, new species

Female.—Palpi mikado brown irrorated with white. Head and neck mottled cinnamon and white. Collar and thorax mikado brown. Abdomen above fuscous, the anal hairs white; underneath white

irrorated with avellaneous. Fore wing chestnut brown; a postmedial and an outer double series of small fuscous black spots; an oblique sayal brown shade from cell to apex; orange cinnamon mottlings on inner margin, expanding at tornus to between veins 2 and 3, where it is inwardly preceded by a trigonate white spot and a white streak above it to termen; some orange cinnamon below and above vein 4 at termen; traces of subterminal white lunules from vein 5 to vein 1. Hind wing verona brown; orange cinnamon and white mottling along inner margin, on which are verona brown spots. Cilia on both wings partly white. Wings below dresden brown.

Expanse 30 mm.

Habitat.—French Guiana.

Type.—Cat. No. 33363, U.S.N.M.

From the Dognin collection.

EUXOGA AMATURA, new species

Male.—Palpi white mottled with buffy brown. Head, collar, and thorax white irrorated with tawny, densely so on edge of collar, and on edge of tegulae. Abdomen above cinnamon drab, the base, anal hairs, and underside white. Fore wing: Base, cell and medial area pallid mouse gray irrorated with fuscous which form a double sub-basal sinuous line; an antemedial and medial line, diverging below cell, with a white spot below them above vein 1; a brownish olive line edged with white on discocellular with projecting lines at each end on basal side; a fine, dark, dentate postmedial line, followed by a pale mouse gray even line, both outcurved around cell to vein 2, then excurved to vein 1; the pale gray line followed by a double series of black points on veins with white points between them, these points followed by a bister shade diverging from vein 6 to costa and from vein 2 to tornus; a large pallid mouse gray spot from vein 7 to costa close to apex; the terminal area broadly and thickly irrorated with dark grayish brown crossed by a lunular pallid mouse gray shade, and beyond by a fine similarly colored line sinuous to vein 3 at termen, inset and oblique below veins 3 and 2; cilia natal brown. Hind wing fuscous, paler at base; a white streak close to inner margin, expanding toward anal angle with a few natal brown scales; cilia white from apex to below vein 2, then fuscous. Hind wing below fuscous with a large white space below cell from base not reaching termen.

Expanse 30 mm.

Habitat.—Amatura, Amazons.

Type.—Cat. No. 33364, U.S.N.M.

A male from the Dognin collection.

RIFARGIA HAITIA, new species

Female.—Head, collar, and thorax white, mottled with buffy brown on vertex and collar, with black and fuscous on tegulae. Abdomen silvery mouse gray mottled with light brownish olive, and with

brownish olive segmental lines; underneath white. Fore wing pale mouse gray, the costa white irrorated with army brown; base below cell white irrorated with black; a subbasal black line inangled below cell; antemedial line fine, double, brown, inbent on costa, black and slightly outcurved to inner margin; a large crescent on discocellular, outlined in black; a fine and very faint double postmedial line slightly darker than ground color; a subterminal sinuous drab shade double from costa to vein 4; a marginal black line parallel with termen, slightly lunular below vein 3 to tornus; termen and cilia white irrorated with black. Hind wing white; a narrow terminal hair brown shade, its edge outwardly wavy; cilia white.

Expanse 35 mm.

Habitat.—Port au Prince, Haiti.

Type.—Cat. No. 33365, U.S.N.M.

Somewhat like *R. bichorda* Hampson from the Bahamas.

RIFARGIA DEMISSA BRIOCA, new form

Female.—Differs from the typical form in having the postmedial line of fore wing followed by a continuous well-defined black fascia, its outer edge partly dentate.

Expanse 45 mm.

Habitat.—British Guiana.

Type.—Cat. No. 33366, U.S.N.M.

RIFARGIA AUSCHARIA, new species

Female.—Palpi fuscous fringed with white and a few buffy brown hairs. Head, collar, and thorax white thickly mottled with fuscous and cinnamon brown hairs on vertex, collar, and tegulae. Abdomen above mottled white and benzo brown; anal hairs mostly white; underneath white. Fore wing white irrorated with black and hair brown, also with grayish olive on postmedial area; lines very faint except on costa, hair brown; antemedial line double, inbent on costa, outcurved across cell to fold, then inbent; a light buff incurved line on discocellular, inwardly edged with fuscous; postmedial line double, outcurved around cell, with fuscous points or short streaks on veins, followed by two more series of fuscous points on veins; a marginal fuscous line, mostly punctiform inangled on vein 5; cilia white with benzo brown spots at veins and a few dark hairs otherwise. Hind wing white suffused with smoky mouse gray, darker on veins and termen; cilia white.

Expanse 42 mm.

Habitat.—Valera, Venezuela.

Type.—Cat. No. 33367, U.S.N.M.

Easily distinguished by the punctiform lines on outer half of fore wing.

RIFARGIA POSSIDA, new species

Male.—Palpi: First and second joints fuscous fringed with white; third joint white with a brown spot. Frons white; vertex mottled benzo brown and white. Collar benzo brown with some white hairs, laterally white. Thorax white with a few black hairs, the tegulae in front dorsally mottled with benzo brown. Abdomen above white suffused with drab, the anal hairs mottled with drab hairs; underneath white. Fore wing from base to discocellular and tornus white with a few scattered black scales; a subbasal and a double antemedial lunular line, formed by thin black scaling, and between the lines on costa to within cell a quadrate brownish drab spot irrorated with white and edged with fuscous black; a fuscous medial line on costa joining the black line on discocellular, the latter outwardly upcurved to vein 8, and downbent to vein 5 at postmedial; outer space beyond discocellular brownish drab, irrorated with white on termen, more broadly below vein 4; postmedial line double, lunular, fuscous, above vein 6 diverging; a marginal lunular fuscous line; cilia white mottled with drab gray; and with dark spots at veins. Hind wing white; a small dark spot at anal angle.

Expanse 39 mm.

Habitat.—Porto Velho, Amazons.

Type.—Cat. No. 33368, U.S.N.M.

RIFARGIA EVERITI, new species

Male.—Palpi drab with a chestnut brown line above and a thick black lateral line. Head and collar fuscous black; tegulae sayal brown; thorax mottled avellaneous, light drab, and buffy brown. Abdomen above hair brown basally suffused with orange cinnamon in the female; underneath tilleul buff. Fore wing whitish irrorated with buffy brown and ochraceous tawny, less so on anterior third of wing; an irregular black patch at base of costa entering cell; a double antemedial vertical black line connected with basal patch by a black line below cell, and preceded in cell by a whitish space; reniform vertical, narrow, somewhat oval and whitish defined by a fine fuscous line edged narrowly with whitish; postmedial line thick, black, very outbent to vein 8, then fine, vertical, somewhat sinuous to vein 3, incurved to vein 2 in a line with discocellular and outbent to inner margin, followed from below vein 4 to termen and tornus by a dark vinaceous brown shade; from postmedial below vein 8 a thick black streak upbent to costa at marginal line; marginal line black, almost straight to vein 3, then lunular to tornus. Hind wing fuscous; a faint postmedial sinuous line, downbent near inner margin to anal angle where it is well defined in black and white.

Expanse, male, 65 mm.; female, 80 mm.

Habitat.—French Guiana.

Type.—Cat. No. 33369, U.S.N.M.

From the Dognin collection.

Named in honor of Mr. Everit Macy, one of the two largest subscribers to the Dognin fund.

AFILIA VENADIA, new species

Male.—Palpi, head, collar, and thorax mottled fuscous, hair brown and white. Abdomen above cinnamon, suffused with orange cinnamon at base. Fore wing: Base, costal margin, and medial area whitish with a few dark irrorations; antemedial and terminal area light cinnamon drab; lines fine, mostly fuscous; basal line outcurved; antemedial line slightly outcurved, inangled on median and vein 1, preceded by a faint parallel cinnamon-drab line; a line on discocellular; postmedial line double, cinnamon drab, the inner part with fuscous scaling on costa and below vein 4, outangled on vein 6, incurved opposite cell, lunular below vein 3; subterminal line broken by veins, dentate or lunular on interspaces; a marginal line, inset and irregular below vein 4; on medial area the white below cell is partly devoid of dark scaling and forms a large spot. Hind wing white suffused with light buff; cilia white.

Expanse, male, 28 mm.; female, 30–39 mm.

Habitat.—Venadio, Mexico.

Type.—Cat. No. 33370, U.S.N.M.

A long series in the United States National Museum.

AFILIA PURULHA, new species

Male.—Mottling of head and thorax hair brown and white. Abdomen above cinnamon drab. Fore wing more uniformly gray than in *A. venadia*; subbasal line outcurved black, partly double; antemedial line, almost medial, double, black, curved on costa, then well inbent, with a black line projecting basad to subbasal line; postmedial line drab, macular, preceded by a fine, indistinct, disconnected drab line; a black line on discocellular; subterminal line hair brown, macular, inbent from costa to vein 4, then sinuous; marginal line fuscous, sinuous below vein 4. Hind wing and cilia pure white.

Expanse 38 mm.

Habitat.—Purulha, Guatemala.

Type.—Cat. No. 33371, U.S.N.M.

Two males collected by Barnes and Schaus.

LUSURA TURNINA, new species

Male.—Palpi above cinnamon brown, the long fringe on terminal half benzo brown with a few white hairs. Head, collar, and thorax cinnamon brown mottled with white hairs. Abdomen above russet with dark transverse bands. Fore wing: Costa to near middle

prout's brown, the lines defined by white scaling between them; basal area mostly cinnamon brown crossed by a basal, a double sub-basal, and double antemedial prout's brown lines, all somewhat macular, being cut by the veins; a fuscous streak on submedian fold to postmedial; medial and outer area mostly sayal brown, with white irrorations on medial space, also before and beyond postmedial line; discocellular spot cinnamon brown edged with white scales; postmedial line double, dentate, lunular, cinnamon brown, incurved below vein 3; subterminal shade sayal brown, diffuse, with black streaks on veins, followed by an avellaneous spot on costa; a marginal wavy black line. Hind wing benzo brown, the basal half suffused with grayish olive. Fore wing below fuscous, the costa and an apical spot whitish buff. Hind wing below hair brown, the costa and basal half suffused with whitish.

Expanse 39 mm.

Habitat.—French Guiana.

Type.—Cat. No. 33372, U.S.N.M.

From the Dognin collection.

LOBEZA PETROPOLIA, new species

Female.—Palpi black above, the base and laterally wood brown; fringe with a few black hairs. Head, collar, and thorax white mottled with black hairs; a black line on frons close to eyes; metathorax with some cinnamon medial scaling outwardly edged by a short black line. Abdomen above white with broad hair brown bands interrupted dorsally; a dorsal white tuft at base, the last segment white irrorated with black. Fore wing white irrorated with black, more densely subterminally; antemedial line fine consisting of black and warm buff scales, outcurved to below median then forming two oblique curves to beyond middle of inner margin; a small, clear, white spot at lower angle of cell; postmedial line fine consisting of black and warm buff scales, slightly lunular, incurved opposite cell, well outcurved between veins 4 and 3, then incurved followed by a broad shade formed by black and warm buff scales; termen narrowly white; a terminal black crenulate line expanding at veins; large black spots on cilia on interspaces. Hind wing light drab; a darker terminal line; costal margin broadly white; cilia white. Hind wing below mostly white; a broad medial hair brown line, and similar dusting on interspaces before termen.

Expanse 85 mm.

Habitat.—Petropolis, Brazil.

Type.—Cat. No. 33373, U.S.N.M.

Somewhat like the female of *L. huacamaya* Schaus.

LOBEZA GILBERTA, new species

Male.—Palpi cinnamon brown at base, fuscous above, otherwise white. Head and collar white mottled with deep mouse gray and sayal brown; thorax grayish white with a few dark hairs. Abdomen above cinnamon brown with dorsal white spots, and fine dark segmental lines, the last segment and tips of anal hairs white, the former irrorated with fuscous; underneath white banded with mouse gray. Fore wing white irrorated with fuscous, very slightly on medial area; antemedial line fine, dark, with a few warm buff scales, inset below median then outbent to middle of inner margin; discocellular mark clear white with a dark point at lower angle of cell; postmedial line fine, formed by chestnut brown scales, lunular slightly incurved opposite cell and below vein 3 followed by a parallel line of brownish dusting; terminal line fine, expanding at veins; no spots at cilia on interspaces, only a few dark scales at veins. Hind wing white; a faint dark medial line, punctiform on veins; a slight dark postmedial shade.

The female is more thickly irrorated on fore wing with dark scales, the lines more pronounced; dark spots on cilia on interspaces; hind wing largely suffused with drab on terminal half.

Expanse, male, 58 mm.; female, 70 mm.

Habitat.—St. Jean, Maroni River, French Guiana.

Type.—Cat. No. 33374, U.S.N.M.

Three males and two females in the United States National Museum.

Belongs to the *L. aglone* group.

LOBEZA HUACAMAYA, new species

Male.—Palpi carob brown fringed with white. Frons white, laterally carob brown. Vertex and tegulae white with a few black scales. Collar mottled white and fuscous, the anterior edge carob brown. Metathorax mottled black, orange buff and white. Abdomen above white with mouse gray segmental lines; underside light buff. Fore wing white thinly irrorated with black scales; antemedial line fine orange buff with black irrorations, irregularly outcurved to below cell, then out bent to the medial line near inner margin; a small annulus on discocellular closely followed by the fine vertical medial shade which is dentate on its outer edge. Postmedial line fuscous black, consisting of lunules, outbent on costa, then slightly inbent to vein 3 and vertical preceded by a clearer white space, and followed by a parallel line mottled with ochraceous orange, broadly irrorated beyond with fuscous and ochraceous orange scales to the faint whitish sub-terminal shade; a marginal black lunular line cut at tips of veins; cilia white with small fuscous spots on interspaces. Hind wing white

suffused with hair brown in cell and interspaces; veins and a medial line hair brown; inner margin buffish. Wings below white.

Expanse, male, 60 mm.; female, 83 mm.

Habitat.—Rio Huacamaya, Peru.

Type.—Cat. No. 33375, U.S.N.M.

LOBEZA MARONIA, new species

Male.—Palpi carob brown fringed with white. Head, collar, and thorax white, the collar with some wood brown mottling, the tegulae with a few mouse gray hairs. Abdomen above brownish drab with white segmental lines and white hairs dorsally; underneath white. Fore wing white thinly irrorated with black and drab scales, leaving a clear white space before the postmedial line; antemedial line fine, double on costa, consisting of a few black and ochraceous orange scales, inset below median and outbent to medial line on inner margin, the latter very faint, outwardly dentate with ochraceous orange scaling from fold to inner margin; a fuscous line on discocellular; postmedial line double, lunular, the inner part fuscous, the outer part paler, outbent on costa, incurved from vein 8 to vein 3, a deeper curve between veins 3 and 2, then vertical, lunular dentate; a broad subterminal diffuse white space, due to absence of irrorations; a fine marginal lunular dark line; cilia white; small spots on interspaces. Hind wing light drab brown, the costal margin white; cilia white. Wings below white; a fine indistinct medial line on hind wing. The female has the underside of wings light drab.

Expanse, male, 68 mm.; female, 85 mm.

Habitat.—St. Jean Maroni, French Guiana.

Type.—Cat. No. 33376, U.S.N.M.

Two males and three females in the United States National Museum.

The male type from the Dognin collection.

LOBEZA VENICA, new species

Male.—Palpi black, the fringe white with a few black hairs; a lateral brownish line on second joint. Frons white; vertex white and gray. Collar and thorax mottled white, with underlying wood brown and light buff hairs. Abdomen above dull snuff brown with light pinkish cinnamon segmental lines; anal hairs and underside whitish. Fore wing white, thinly irrorated with fuscous; antemedial line double, fuscous, outbent to median, inset below, outbent to vein 1 and curved on inner margin; discocellular white; medial line faint, outwardly prolonged on veins; postmedial line double on costa and macular, black, outangled on vein 7, lunular and deeply incurved to vein 3, then vertical, deeply dentate to inner margin, followed by a much less distinct parallel line of fuscous and ochraceous scales; terminal line fine, lunular, expanding at veins; cilia white with dark

spots on interspaces. Hind wing white suffused with hair brown; a dark medial line; inner margin with avellaneous scaling. Wings below white, the fore wing with a hair brown vertical, dentate, post-medial line.

Expanse 58 mm.

Habitat.—Merida, Venezuela.

Type.—Cat. No. 33377, U.S.N.M.

LOBEZA RHENIA, new species

Male.—Palpi pecan brown above, otherwise white. Head, collar, and thorax white with scattered fuscous hairs. Abdomen above white at base and terminally, the latter with some cinnamon brown hairs, the second to sixth segments cinnamon with whitish segmental lines; underneath white. Fore wing white thinly irrorated with fuscous scales; antemedial line faint in male, more pronounced in female, double on costa, almost vertical and somewhat punctiform to below cell, then sinuous, outbent to the faint medial line; discocellular mark white; postmedial line lunular dentate, double in female, incurved opposite cell, vertical between veins 4 and 3, then very slightly incurved; the male without terminal line, only some fuscous scales on interspaces, the female with a fine dark terminal line projecting on cilia. Hind wing white.

Expanse, male, 62 mm.; female, 84 mm.

Habitat.—Muzo, Medina, Colombia.

Type.—Cat. No. 33378, U.S.N.M.

Belongs to the *L. aglone* group, and the only described allied species with clear white hind wings.

From the Dognin collection.

LOBEZA MEDINA, new species

Male.—Palpi dusky brown, the fringe tipped with white. Head, collar, and tegulae white mottled with fuscous so they appear grayish; thorax overlaid with bone brown hairs from below tegulae. Metathorax with white tufts dorsally edged with bone brown and some ochraceous orange scales. Abdomen white with subdorsal snuff brown spots, meeting dorsally at base. Fore wing white; base to antemedial irrorated with fuscous scales, except at base of inner margin; antemedial line fuscous, macular from costa to below cell, outcurved, then outbent mottled with light orange yellow scales; medial area between lines with very few irrorations, a few forming an indistinct line from costa across discocellular to antemedial line at fold; postmedial line vertical consisting of small fuscous spots; terminal area irrorated with olive brown more densely near the postmedial series of spots; a fine terminal line; cilia white. Hind wing white suffused with light buff on base and inner margin; a medial hair brown line from costa to near anal angle.

Expanse 67 mm.

Habitat.—Medina, Colombia.

Type.—Cat. No. 33379, U.S.N.M.

From the Dognin collection.

LOBEZA ARNOULA, new species

Male.—Palpi carob brown above, kaiser brown laterally, the fringe white; throat and sides of frons carob brown, the frons otherwise and thorax mottled white and hazel; the collar carob brown with some white tipped hairs behind. Abdomen above hazel banded with carob brown; anal segment mottled white and hazel; underneath whitish. Fore wing white irrorated with chestnut brown; a subbasal spot on costa; lines chestnut brown with a few orange buff scales; antemedial line slightly outbent from costa to median, then sinuous and outbent to middle of inner margin; a discocellular fuscous point at lower angle of cell, and a faint streak above it with some white scales on inner side; postmedial line outangled at vein 7, incurved lunular to vein 4, outcurved to below 3, then outbent to vein 1, angled and inbent, closely followed by a faint paler line; a subterminal broad white shade, incurved opposite cell; an interrupted fine terminal line expanding slightly above and below veins; cilia white with brown lines or spots on interspaces. Hind wing cinnamon drab with a slightly darker medial line; cilia white suffused with brown at anal angle.

Expanse 65 mm.

Habitat.—Carabaya, Peru.

Type.—Cat. No. 33380, U.S.N.M.

LOBEZA GENEBRARDA, new species

Male.—Palpi black above, laterally cinnamon brown, the fringe white with a few dark scales. Frons with white hairs predominant; vertex mottled carob brown and white. Collar carob brown tipped with white behind. Thorax and tegulae mottled white with a few dark hairs. Abdomen above hair brown partly mottled with orange cinnamon; basal segments with whitish lines; last two segments mottled white with a few brown scales; underside light buff with slight dark segmental lines. Fore wing white irrorated with chestnut brown, the lines formed by closer set scales mottled fuscous, chestnut brown, and orange buff; antemedial line outangled on subcoatal and median incurved from median to fold, then outbent to middle of inner margin; a fuscous spot on discocellular with a chestnut brown point above it; a faint darker shade close beyond cell, vertical from costa to vein 4 then slightly inbent; postmedial line double, the inner part more heavily marked, vertical on costa, faintly incurved from veins 6-4, outangled at vein 3, then vertical to inner margin; traces of a subterminal whitish shade; a marginal lunular fuscous line, thickened at tips of veins; cilia white with small dusky spots on interspaces.

Hind wing; base to beyond dark medial line whitish with light buffish and gray suffusions, the veins crossing it hair brown; termen broadly dark cinnamon drab; cilia white.

Expanse 60 mm.

Habitat.—Rio Huacamaya, Peru.

Type.—Cat. No. 33381, U.S.N.M.

LOBEZA ABDJESA, new species

Male.—Palpi fuscous, the fringe and frons army brown with some white hairs; vertex and collar deep mouse gray, the tegulae the same with white mottling, the thorax mottled with sayal brown. Abdomen above fuscous with sayal brown segmental lines and white hairs at base and dorsally, the last two segments mottled white and sayal brown; underneath drab with light buff segmental lines. Fore wing white irrorated with chestnut brown, the lines fuscous mixed with orange buff scales; antemedial line vertical from costa, incurved slightly in cell, more deeply incurved below median and outbent to a faint medial shade which suffuses with discocellular on which is a short black line; postmedial line vertical, slightly incurved between veins 3 and 2; an irregular subterminal narrow white shade, only slightly irrorated with dark scales; a marginal chestnut line with projecting spots on termen at veins; cilia white with a few dark scales on interspaces. Hind wing hair brown, the cilia white. Fore wing below largely suffused with hair brown. Hind wing below grayish with a dark medial line.

Expanse 60 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33382, U.S.N.M.

LOBEZA GUNTHIENA, new species

Male.—Palpi; head, collar, and thorax mottled white and cinnamon brown. Abdomen above walnut brown, overlaid partly with pale mouse gray hairs, the anal segment white mottled with cinnamon brown; underneath buffish white. Fore wing white irrorated with walnut brown and fuscous; antemedial line formed of fuscous and orange buff scales, the former color predominating, finely wavy and almost vertical from costa to median, shortly incurved below median, then outbent and twice outcurved to middle of inner margin, preceded by a very faint and finer parallel line; discocellular spot white with a fuscous line; postmedial line fuscous with a few orange buff scales, outbent on costa, incurved between vein 7 and 4, vertical to vein 3, then lunular incurved to vein 2, and outbent to inner margin near tornus, followed by a parallel line, fuscous on costa, from vein 7 orange buff mottled with fuscous; an irregular subterminal clear white shade, indentate opposite cell; a fine walnut brown terminal line projecting to cilia above and below veins; the cilia with

short dark spots on interspaces. Hind wing deep brownish drab, the cilia white.

Expanse 65 mm.

Habitat.—Songo, Bolivia.

Type.—Cat. No. 33383, U.S.N.M.

Five males from the Dognin collection.

Nearest to *L. favilla* Dognin, broader winged and differing in genitalia.

EUNOTELA CHACOA, new species

Male.—Palpi, head, collar, and thorax buffy brown, the tegulae pale olive gray mottled with white and a few black scales. Abdomen grayish shaded with hair brown; long tufts of hairs at base, white broadly tipped with black. Fore wing: Base chiefly clay color crossed by some subbasal black scales, and followed by an antemedial hair brown shade limited by a double fine fuscous line; medial space grayer in tone; a mars brown line on discocellular partly edged with white; postmedial line fine, fuscous, edged with whitish, excurved on costa and opposite cell, slightly angled at vein 4, then lunular, and incurved below vein 2; vein 3-6 beyond postmedial streaked with fuscous; an outer hair brown shade, inbent to postmedial angle at vein 4, then very faint to inner margin; a submarginal fine fuscous line, straight from vein 8 to vein 4, then wavy preceded by some whitish and buffy brown shading. Hind wing white; a very fine terminal brown line and small cluster of scales before anal angle.

Expanse 27 mm.

Habitat.—El Chaco, Argentina.

Type.—Cat. No. 33384, U.S.N.M.

APELA ARCHIMMA, new species

Male.—Antenna with short bristles. Palpi, head, collar, and thorax fawn color mottled with white tipped hairs; tegulae dorsally fuscous, laterally light buff. Fore wing cinnamon rufous slightly suffused with purplish; inner margin with produced lobe; a subbasal obliquely curved wavy black line, partly edged outwardly with white; antemedial line outbent and curved, fine, white outwardly edged with burnt sienna; postmedial line from apex to beyond lobe on inner margin, fine, white, inwardly edged with burnt sienna; an orbicular annulus in cell, and a larger annulus over discocellular, both defined by dark lines; some black irroration on terminal area and some pale vinaceous fawn scales at tornus. Hind wing suffused with fawn color, the costa light buff, the cilia tipped with white.

Expanse 37 mm.

Habitat.—Bocas, Rio Ica, Amazons.

Type.—Cat. No. 33385, U.S.N.M.

From the Dognin collection.

DOTTIA BOLIVIATA, new species

Male.—Palpi black above; a lateral wood brown streak; base of cilia fuscous tipped with light drab. Head citrine drab mottled with army brown. Collar mostly citrine drab. Tegulae army brown. Abdomen above hair brown, at base buffish; anal segment with a black line edged with white, laterally kaiser brown; underneath light buff with a ventral black line. Fore wing: Base of costa and cell hair brown, below cell ochraceous buff with some tawny scales, the whole limited by a faint dark line outangled on fold, followed by another dark line from costa to within cell; a medial dull chamois shade from costa to lower angle of cell, and along costa to apex; discocellular finely black followed by fine russet streaks above and below vein 5, the upper streak reaching termen; three indistinct fine sayal brown lines beyond cell, slightly wavy; veins from cell deep olive buff; terminal area mottled chamois and olive ocher; the veins terminally edged with hair brown expanding on margin and extending on cilia; cilia chamois on interspaces, the inner margin is partly suffused with tawny. Hind wing smoky hair brown with a pale shade postmedially. Fore wing below hair brown, the interspaces terminally buffish. Hind wing below buffish; a dark medial line, the veins terminally broadly hair brown.

Expanse 47 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33386, U.S.N.M.

Collected by J. Steinbach.

PAMCALOMA ABBA, new species

Male.—Palpi carob brown fringed below with white and drab gray hairs. Frons carob brown, with whitish hairs at sides and below. Vertex, front of collar dorsally, and front of thorax dorsally ochraceous tawny with some white hairs, collar otherwise, and mesothorax fuscous; tegulae and metathorax mouse gray, the former with some wood brown and white hairs. Abdomen above deep mouse gray, the two terminal segments thickly irrorated with white, the base dorsally drab gray; underneath warm buff. Fore wing below cell, and terminally from vein 5 to inner margin chiefly silvery pallid neutral gray scales on a whitish ground with a brownish tinge according to light; base of costa mottled with brown and steel gray; a white basal line on costa, edged by a fuscous line, outbent below cell; antemedial line double, fuscous, outbent on costa and cell, filled in with benzo brown mottling, below cell lunular wavy and downbent; double medial fuscous lines on costa wavy, single and faint below cell; a carob brown line on discocellular broadly edged with ochraceous buff; postmedial line remote, incurved from costa to vein 3, consisting of double black lunules, filled in and followed by snuff

brown, below vein 3 inbent without brown shading except on inner margin; subterminal line black, irregular, dentate, outbent to termen above and below veins where they are connected, inwardly edged with light ochraceous buff; a white spot on costa close to apex, preceded by three white costal points; cilia mottled white and brown. Hind wing benzo brown with a faint dark terminal line; cilia tipped with whitish. Wings below drab, with light buff and white mottling at base, more so on hind wing; costa of fore wing finely light buff on basal half, followed by three white points and an apical white spot.

Expanse 45 mm.

Habitat.—Incachaca, Bolivia.

Type.—Cat. No. 33387, U.S.N.M.

Allied to *P. marita* Schaus.

HEMICERAS URSARA, new species

Male.—Palpi brownish vinaceous; fringe of second joint white irrorated with wood brown, of third joint white. Head, collar, and thorax vinaceous fawn, some white hairs on vertex. Abdomen above fawn color; anal hairs and underside buff white. Fore wing vinaceous fawn thickly irrorated with vinaceous buff; a slightly outcurved antemedial line, light ochraceous buff outwardly defined by vinaceous fawn; an oblique black spot on discocellular; postmedial line from costa at 3 mm. from apex to middle of inner margin, fawn color, outwardly edged with light ochraceous; veins terminally finely whitish; some irregular subterminal faintly darker shading. Hind wing whitish, almost completely suffused with fawn color; cilia broadly tipped with white; the stigma not darker.

Expanse 45 mm.

Habitat.—Chiriqui, Panama.

Type.—Cat. No. 33388, U.S.N.M.

Nearest *H. unimacula* Dyar.

HEMICERAS LIBORIA, new species

Male.—Palpi hazel above, buff white below. Frons hazel with a whitish buff spot. Vertex pale pinkish cinnamon, the tuft at base of antennae white. Collar, thorax, and abdomen above brownish drab, the tegulae laterally broadly vinaceous buff. Anal tufts white, the abdomen below light buff with some light vinaceous cinnamon scaling toward anal segment. Fore wing light pinkish cinnamon thickly irrorated with sorghum brown, the lines light ochraceous buff; a sinuous subbasal line, outbent; antemedial line slightly sinuous, and somewhat outbent; a hair brown thick streak on discocellular and two small spots, one before it at subcostal, the other beyond at base of vein 6; postmedial line remote from apex inbent shortly on costa and slightly curved to vein 2, then incurved to inner margin; a faint

subterminal dark shade. Hind wing chiefly light buff; a broad fawn color shade from base before inner margin to termen, the stigma army brown; some fawn color suffusions on termen; costa postmedially light ochraceous buff; cilia slightly tipped with white, wings below light buff, the apical third of fore wing mostly suffused with vinaceous cinnamon.

Expanse 50 mm.

Habitat.—St. Laurent, French Guiana.

Type.—Cat. No. 33389, U.S.N.M.

From the Dognin collection.

Allied to *H. modesta*; differs in color and in having a subbasal line.

HEMICERAS TURIIFA, new species

Male.—Palpi prout's brown, the fringe pale pinkish cinnamon. Head, collar, and thorax mottled cinnamon and white, the frontal tufts with white predominating; tegulae dorsally edged with white. Abdomen above drab, the base with long avellaneous hairs; underneath light buff. Fore wing with the inner margin straight, silky fawn color with a slight olive tinge slightly irrorated with whitish; some light buff hairs at base of inner margin, the lines fine, prout's brown; basal line outwardly pale edged forming a lunule on costa and one below cell; antemedial line inwardly edged with whitish, out-angled on costa and in cell at vein 2, incurved to vein 1 and outcurved; medial space below fold to tornus thickly mottled with fuscous and lilac gray scales; the discocellular and veins from cell fuscous irrorated with white, cut by the postmedial line which is finely edged with white, also with white points at some of the veins, straight from costa well before apex to vein 1 and is slightly outcurved below it; costal edge finely white except at base; a subterminal fuscous shade parallel with postmedial; terminal interspaces without white irrorations. Hind wing and stigma cinnamon drab; cilia white.

Expanse 31 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33390, U.S.N.M.

HEMICERAS CLIMACA, new species

Male.—Palpi above hay's russet, second joint fringed with whitish irrorated with russet hairs, first joint fringed with pure white. Head, collar, and thorax vinaceous cinnamon thickly mottled with white hairs. Abdomen above suffused with light pinkish cinnamon; underneath buff white. Fore wing light cinnamon drab, darker shaded medially from cell to inner margin where it extends beyond postmedial line; costa narrowly white to postmedial line; a small subbasal black and white spot below cell; lines light buff finely darker shaded on

medial sides, both from just below costa; antemedial line almost vertical, the postmedial remote from apex to close beyond middle of inner margin; subterminal darker shading from costa to vein 2; the veins white irrorated with fuscous. Hind wing white, the termen narrowly suffused with cinnamon drab, the stigma the same color.

Expanse 34 mm.

Habitat.—Paso de San Juan, Mexico; Chiriqui, Panama.

Type.—Cat. No. 33391, U.S.N.M.

Belongs to the group of *H. transducta* Walker.

HEMICERAS JOINVILLIA, new species

Male.—Palpi cameo brown above; second joint mottled white and fuscous laterally and below, the third joint fuscous at base fringed with white. Head, collar, and thorax mottled buffy brown and white. Abdomen above benzo brown, underneath and anal hairs light buff. Fore wing glossy buffy brown, the veins fuscous irrorated with white, the white irrorations spread over the wing; inner margin deeply lobed; lines army brown; antemedial line straight, outbent to lobe, inwardly edged with buffish; postmedial line remote from apex inbent to inner margin just beyond lobe, outwardly edged with light buff; space beyond line to near termen darker shaded, its outer edge wavy; three very faint dark discal marks. Hind wing whitish, mostly suffused with bronzy cinnamon drab, the stigma benzo brown. Fore wing below with inner margin white, otherwise mostly suffused with benzo brown. Hind wing below buff white.

Expanse 40 mm.

Habitat.—Joinville, Brazil.

Type.—Cat. No. 33392, U.S.N.M.

From the Dognin collection.

Allied to *H. dentata* Dognin and *H. postica* Maassen, both having the postmedial line remote from apex and a lobe on inner margin; in *H. dentata* the lobe is equally pronounced, in *H. postica* less so.

HEMICERAS CHROMONA, new species

Male.—Palpi snuff brown above, underneath white, suffused toward end with sayal brown. Frons vinaceous cinnamon with a white line between antennae. Collar vinaceous cinnamon, finely edged behind with white. Thorax vinaceous buff. Abdomen above suffused with light drab, underneath buff white. Fore wing vinaceous buff produced by cinnamon buff thickly irrorated on a pinkish buff ground; the lines fine, straight, the antemedial nearly vertical, fuscous, inwardly pale edged, the postmedial from costa at apex to near middle of inner margin, cinnamon, inwardly darker edged, outwardly pale edged; a small round black spot at end of cell, sometimes almost evanescent; small dark subterminal points on veins 3 and 4.

Hind wing and stigma light buff, the termen broadly suffused with cinnamon drab, diffuse basad; cilia tipped with white.

Expanse 35 mm.

Habitat.—Hyutanahan and Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33393, U.S.N.M.

Comes nearest to *H. flavorufa* Dognin.

HEMICERAS TEFFEA, new species

Female.—Antenna with minute bristles. Palpi mikado brown fringed below with white. Head and collar cinnamon; a white band across frons at antennae. Thorax and base of abdomen light pinkish cinnamon; abdomen above silvery drab gray with buffish segmental lines, underneath buff white, the terminal segments suffused with cinnamon buff. Fore wing silky vinaceous drab, the termen broadly hessian brown; costa light pinkish cinnamon and an oblique fascia from base of costa and inner margin narrowing to a point before tornus; a darker shade in cell, and below cell to postmedial line; an indistinct fuscous spot on discocellular; only a postmedial line remote from apex, parallel with termen, vinaceous drab defined by dark lines. Hind wing almost entirely suffused with bronzy cinnamon drab, more heavily on termen; cilia tipped with white.

Expanse 34 mm.

Habitat.—Teffe, Amazons.

Type.—Cat. No. 33394, U.S.N.M.

Unlike any known species.

From the Dognin collection.

HEMICERAS TAPERINHA, new species

Male.—Palpi walnut brown above, light buff below. Head, collar, and thorax mottled amber brown and white, the white hairs predominating on tegulae and metathorax. Abdomen above sorghum brown; anal hairs and underside white. Fore wing with termen crenulate, light cinnamon drab slightly suffused with pale ecru drab on inner margin, the costal margin and medial area thinly irrorated with white; subbasal line lunular, hazel; antemedial line from near middle of costa, excurved on costa and in cell, white, outwardly edged with hazel, then only hazel, shortly inbent on median, vertical to vein 1, and outcurved, with a black point on vein 1, and dark scaling on curve below it, followed in cell by an ochraceous buff shade; a small dark annulus on discocellular, and a small spot above it basad; postmedial line remote, outbent on costa, white, angled on vein 7, then inbent, hazel, cut by veins; the veins from cell and vein 1 chestnut brown irrorated with white; subterminal small darker shades from apex to vein 2, expanding below veins 4 and 3. Cilia with white

points or lines on crenulate curves. Hind wing dull cinnamon drab, whitish at base of cell and costa; cilia tipped with white.

Expanse 35 mm.

Habitat.—Taperinha, Amazons.

Type.—Cat. No. 33395, U.S.N.M.

Four males from the Dognin collection.

Very similar to *H. angulata* Schaus which has termen of fore wing straight.

HEMICERAS REYBURNI, new species

Male.—Antenna pectinated on less than basal half. Palpi and frons tawny mottled with a few whitish hairs. Vertex, collar, and thorax tiller buff, with some verona brown irrorations forming a slight line on tegulae. Abdomen above drab gray suffused with verona brown on last two segments, the anal hairs and underside buff white. Fore wing: Basal area whitish irrorated with verona brown and crossed by a curved subbasal lunular line formed of black and fuscous scales, followed by an oblique drab shade from costa across cell; basal area limited by the fine, black, deeply wavy, antemedial line inwardly edged with light buff, and followed by a broad white shade from below cell to inner margin; medial area whitish thickly irrorated with cinnamon drab; a small fuscous spot on discocellular, and a large fuscous spot on inner margin before postmedial line; postmedial line outbent on costa, then wavyly inbent to inner margin near middle, verona brown outwardly edged with light buff and followed by a small fuscous spot on inner margin; terminal space suffused with benzo brown, the veins mottled white and fuscous. Hind wing dull benzo brown; cilia tipped with white.

Expanse 35 mm.

Habitat.—Teffe, Amazons.

Type.—Cat. No. 33396, U.S.N.M.

From the Dognin collection.

Allied to *H. commentica* Schaus.

Named for Mr. Samuel W. Reyburn, the second subscriber to the Dognin fund.

HEMICERAS HIDULPHA, new species

Male.—Palpi and frons vinaceous brown, the second and third joints of palpi tipped with white; vertex white. Collar and thorax dark vinaceous brown; a large patch on metathorax and base of abdomen dorsally white mottled with olive brown. Abdomen above deep brownish drab, underneath light buff. Fore wing dark vinaceous brown, the costal edge white; a few white scales at base; antemedial white points from subcostal to vein 1; inner margin deeply lobed and excised before tornus; a very few scattered white scales on medial area; outer line from costa before apex, lunular-white from costa to

vein 6 and from vein 2 to inner margin, punctiform on veins 5-3; termen partly suffused with prussian red. Hind wing and stigma benzo brown, the base of costa and cell whitish. Fore wing below cinnamon drab; a large light yellow patch from base below cell to inner margin, not reaching termen. Hind wing below light yellow; a streak at base of costa and terminal suffusions between veins 7 and 2 cinnamon drab.

Expanse 41 mm.

Habitat.—Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33397, U.S.N.M.

Unlike any other species.

HEMICERAS JOVITA, new species

Male.—Palpi, collar, and thorax cameo brown suffused with purple, the vertex white. Abdomen above brownish drab suffused with cameo brown on basal segments, underneath drab with drab gray transverse lines on medial segments. Fore wing purple drab; base and inner margin broadly suffused with cinnamon brown; lines cinnamon brown; antemedial indistinct, vertical, lunular; outer line near apex, inbent to submedian fold and upbent to near cell and antemedial line, outwardly suffused with darker purple drab; a black and light drab spot on discocellular; clusters of pale drab gray scales on antemedial space below cell and vein 1; the inner margin slightly rounded near base. Hind wing white somewhat suffused on interspaces with drab; stigma benzo brown.

Expanse 35 mm.

Habitat.—São Paulo de Olivença, Amazons.

Type.—Cat. No. 33398, U.S.N.M.

From the Dognin collection.

Unlike any described species.

HEMICERAS PHOCAS, new species

Male.—Palpi above kaiser brown, underneath light buff and vinaceous. Head, collar, and thorax kaiser brown; a white band between antennae. Abdomen above brownish drab; anal hairs and underside vinaceous fawn. Fore wing fawn color suffused with purplish; costal edge hair brown; a dusky dull violet streak below it with some bluish white irrorations; antemedial area below cell pale brownish drab limited by a fine chestnut brown line straight and outbent from costa to submedian vein with a white point on it, then slightly outcurved, paler; a dark oblique streak on discocellular; postmedial line remote, chestnut brown, from below costa, slightly outbent, below vein 7 inbent consisting of small points on veins, below vein 3 very faintly connected by a dentate line, a pale brownish drab shade on outer

side on inner margin; a subterminal benzo brown shade over veins 7 and 8; an oblique sayal brown shade from vein 5 to vein 3 near termen; a medial white point on vein 1. Termen rounded below apex then inbent and curved to slight antemedial lobe on inner margin. Hind wing whitish, the veins dark; inner margin hair brown; suffusions on termen and stigma sayal brown.

Expanse 40 mm.

Habitat.—São Paulo de Olivença, Amazonas.

Type.—Cat. No. 33399, U.S.N.M.

From the Dognin collection.

Near *H. nigracosta* Schaus; differs in shape of fore wing and lines.

HEMICERAS PRAXIDES, new species

Male.—Wing shape as in *H. eustalhia* Schaus. Palpi above prout's brown, underneath white, mottled with pinkish buff at end of second joint, the third joint tipped with white. Head, collar, and thorax cinnamon rufous; some white hairs on frons and between antennae. Abdomen above cinnamon drab, the anal hairs and underside white except the last three segments which are suffused with vinaceous buff. Fore wing vinaceous fawn; costa deep neutral gray streaked with fuscous black and some white scales on subcostal; a fine outbent dark basal line; antemedial line fine, natal brown, outbent, straight from costa to submedian fold, then finer and sinuous; a similar oblique line on discocellular; outer line remote from apex, fine, lunular dentate, fuscous from vein 8 to vein 6, below 6 barely indicated except as black and white points on veins; an oblique cinnamon shade from below vein 5 to vein 3; a subterminal fuscous shade from vein 8 to below 5, broken by the veins; a few white scales at apex and terminally on vein 8; cilia cinnamon brown. Hind wing white, the stigma and termen very narrowly cinnamon brown; cilia white. Hind wing below entirely white.

Expanse 42 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33400, U.S.N.M.

Differs from *H. phocas* Schaus in the white hind wing.

HEMICERAS EUSTALHIA, new species

Male.—Palpi chestnut brown above, underneath white, mottled at end of second joint with pinkish buff. Frons pinkish buff; a white line between antennae; vertex, collar, and thorax pinkish cinnamon. Abdomen above hair brown, the anal hairs and underside white; a light pinkish cinnamon shade ventrally on last two segments. Fore wing: Costa straight, apex acute, termen and tornus obliquely rounded to near base of inner margin, then obliquely upbent, vinaceous fawn; costa iron gray; base narrowly deep mouse gray; medial space deep

mouse gray edged basally by the fine iron gray antemedial line which is outcurved from costa to median and twice slightly lunular to inner margin, outwardly edged by an oval iron gray spot on discocellular, containing some sayal brown scales, and from vein 3 by the lunular postmedial line; between veins 3 and 5 the postmedial is obsolescent, but there is a small oblique cinnamon shade from below vein 5 to vein 3; at costa the postmedial is followed by a broad, irregular, subterminal iron gray shade to vein 6, and a similar small spot before tornus; cilia tipped with iron gray. Hind wing white; inner margin suffused with drab gray; veins finely dark; termen very narrowly cinnamon drab, the stigma deep brownish drab; cilia white. Hind wing below entirely white.

Expanse 45 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33401, U.S.N.M.

HEMICERAS ELPHEGA, new species

Male.—Palpi pale cinnamon buff, streaked above with russet. Head, collar, and thorax vinaceous fawn; a white line between antennae. Abdomen above avellaneous; anal hairs and underside buff white. Fore wing vinaceous fawn, lines fine, black; a black and white basal point below cell; antemedial line outcurved in cell, wavyly outbent below cell, with black points on veins; a faint brownish curved line on discocellular with a black point above it; postmedial line inbent from near apex, crenulate, followed from apex to vein 6 by a narrow fuscous shade, at vein 1 outcurved; inner margin excurved at base. Hind wing white; stigma and narrow terminal suffusions bronzy vinaceous fawn.

Expanse, male, 44 mm.; female, 49 mm.

Habitat.—St. Laurent, Maroni River, French Guiana.

Type.—Cat. No. 33402, U.S.N.M.

Three males and one female from the Dognin collection.

Near *H. quebra* Schaus, which has the postmedial line punctiform.

HEMICERAS MONEGONDA, new species

Female.—Differs from *elphega* in the following respects. Palpi vinaceous fawn, the first joint fringed with white. Fore wing: The base faintly paler limited by the antemedial line which is outbent to middle of cell, then downbent and sinuous; costal margin fuscous; an oblique fuscous streak on discocellular; postmedial line inbent from costa toward apex to submedian fold, then vertical, followed by a small darker shade on inner margin; a faint subterminal dusky shade from vein 5 to termen at vein 2 and tornus fawn color. Hind wing white, veins and termen narrowly cinnamon buff; cilia white suffused with cinnamon buff at base.

Expanse 55 mm.

Habitat.—Guapiles, Costa Rica.

Type.—Cat. No. 33403, U.S.N.M.

HEMICERAS ARBOGASTA, new species

Female.—Palpi above mikado brown, underneath white suffused with light pinkish cinnamon toward end. Head, collar, and thorax orange cinnamon, the tegulae suffused with vinaceous drab. Abdomen above light drab, underneath vinaceous fawn. Fore wing fawn color; antemedial line fine, black, outbent and curved across median, inangled, slightly outbent forming two slight lunules, with black points on veins, preceded by a slight cinnamon rufous shade; a slight blackish line on discocellular, and dark shade medially from below cell to inner margin; postmedial line from costa well before apex, fine, black, lunular with black points on veins, below vein 2 incurved, followed by a broad cinnamon rufous shade, more distinct from costa to vein 5 and from vein 2 to inner margin; an oblique cinnamon brown shade from vein 4 to below vein 3 and termen near tornus. Hind wing whitish, the veins and termen broadly pinkish cinnamon; cilia tipped with white.

Expanse 49 mm.

Habitat.—Nova Olinda, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33404, U.S.N.M.

The inner margin of fore wing is only slightly sinuous.

The nearest allied species is *H. brunnea* Schaus.

HEMICERAS TURNINA, new species

Male.—Palpi, head, collar, and thorax vinaceous fawn, the palpi fringed below with white. Abdomen above cinnamon drab, underneath fawn color. Fore wing avellaneous suffused with vinaceous fawn, the lines fine, wood brown with well marked black points; antemedial line with the subcostal and point on fold in a line, the point on median and vein 1 outset, the line darker on inner margin; postmedial line with points inbent to middle of inner margin, the faint connecting line better defined below vein 2, outangled from 2 to point on fold, and forming a lunule on inner margin; very faint subterminal darker shading; a fine dark streak on discocellular. Hind wing whitish suffused with fawn color, especially on termen, the stigma benzo brown, cilia tipped with white.

Expanse 46 mm.

Habitat.—Yahuarmayo, Peru.

Type.—Cat. No. 33405, U.S.N.M.

From the Dognin collection.

Allied to *H. subochraceum* Walker.

HEMICERAS VINVALA, new species

Male.—Palpi natal brown above, fringed below with light buff and white. Head, collar, and thorax silky avellaneous; some white hairs between antennae. Abdomen above wood brown, underneath light buff. Fore wing silky avellaneous; antemedial line wood brown, faint, with slight dark points on veins, almost vertical, outcurved in cell, less so on inner margin; a faint dark line on discocellular; postmedial line from near apex, indicated by dark points on veins to vein 2, then linear and punctiform to inner margin; a faint oblique darker shade before middle of termen. Hind wing and stigma uniform bronzy buffy brown; cilia on termen and inner margin white.

Expanse 49 mm.

Habitat.—Palmira, Colombia.

Type.—Cat. No. 33406, U.S.N.M.

From the Dognin collection.

Allied to *H. subochraceum* Walker.

HEMICERAS NOCTIFER, new species

Male.—Palpi hay's russet irrorated with white, fringed with whitish buff. Head, collar, and thorax kaiser brown, the tegulae dark vinaceous drab, the hairs partly tipped with white; a white band between antennae. Abdomen above dusky drab, underneath vinaceous buff. Fore wing silky sorghum brown; some slight fuscous shading on basal area; antemedial line fuscous, vertical, faintly inangled below cell with some white scales on it at fold and vein 1; medial area suffused with fuscous except in cell before the outbent fuscous discocellular shade; postmedial line from costa at 3 mm. from apex to near middle of inner margin, faint crenulate, with black and white points on veins, outwardly edged from vein 2 to inner margin by a narrow orange cinnamon shade; a subterminal fuscous shade from costa to vein 4, then inset and oblique to termen below vein 2; a fuscous spot on inner margin beyond postmedial line. Hind wing aeneous fawn color; the cilia whitish suffused partly with wood brown.

Expanse 44 mm.

Habitat.—Juntas, Colombia; Juan Vinas, Costa Rica.

Type.—Cat. No. 33407, U.S.N.M.

Closely allied to *H. nubilata* Schaus and *H. pernubila* Dyar. The three species differ in the genitalia. The Museum series of *H. nubilata* Schaus consists of 8 males and 12 females; of *H. pernubila* Dyar 12 males and 18 females; of *H. noctifer* Schaus 6 males and 7 females.

SCHAUSIADES ALMOTHES, new species

Male.—Palpi hay's russet above, white below mottled with hazel. Frons hay's russet; vertex and a broad line between antennae white. Collar hay's russet in front; collar behind and thorax white with

some hazel irrorations. Abdomen above hair brown, paler toward end, underneath buff white. Fore wing white thinly irrorated with hazel; antemedial line fine, outcurved, wavy, marked with some fuscous scales; a faint light drab, oblique shade on discocellular; postmedial line from a small chestnut brown spot on costa, outbent below vein 8 fuscous, fine, deeply lunular wavy, inbent to inner margin at middle; terminal space beyond postmedial from vein 6 to inner margin drab; cilia white irrorated with hazel. Hind wing and stigma cinnamon brown; cilia tipped with white. Hind wing below white; veins terminally and a narrow shade on termen from vein 7 to vein 2 cinnamon; some similar scaling at base of costa.

Expanse 48 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33408, U.S.N.M.

A close ally of *S. lepidodes* Dognin.

HAPIGIA DUPONTI, new species

Male.—Palpi vinaceous drab. Head, collar, and tegulae cinnamon drab, the thorax vinaceous drab. Abdomen above brownish drab or fuscous, underneath light buff suffused with vinaceous. Fore wing light cinnamon drab with three oblique cinnamon drab shades from costa, outwardly bordered with diffuse pale vinaceous drab, the antemedial to middle of inner margin, the medial to termen below vein 2, the outer from postmedial to subterminal at vein 3; an indistinct subbasal grayish line; some grayish scaling on outer edge of antemedial oblique shade; a small gray spot at subcostal before end of cell; two grayish glaucous spots at discocellular, the upper somewhat oblique, the lower curved and projecting on median vein, a cinnamon brown line from costa, outcurved to lower angle of cell, then slightly incurved to vein 1; a postmedial fine outcurved line with black and white points on veins, followed by a short oblique white spot across vein 5, above it from costa a faint whitish dentate line; subterminal small black lunules above and below veins, between 7 and 8 a white bilunular line followed by some grayish glaucous scales; terminal light buff points at veins. Hind wing benzo brown, the cilia on inner margin and termen whitish buff.

Expanse 70 mm.

Habitat.—Amatura, Amazons.

Type.—Cat. No. 33409, U.S.N.M.

Allied to *H. nodicornis* Guenée.

I take great pleasure in naming this fine species from the Dognin collection in honor of Senator Coleman du Pont, a very generous contributor to the Dognin fund.

HAPIGIA HOLLANDIA, new species

Female.—Head, collar, and thorax vinaceous brown, the tegulae and metathorax deep brownish vinaceous. Abdomen above dark vinaceous drab, underneath light grayish vinaceous suffused with russet vinaceous toward base. Fore wing light russet vinaceous, the oblique lines vinaceous brown outwardly shaded with light brownish vinaceous; a line at base along inner margin to near middle; antemedial line outbent to a finer dark lunular line which follows and joins it on inner margin; the next line from before middle of costa oblique to tornus outwardly edged by the fine double discocellular silver line; postmedial line straight, oblique to vein 4, then double, outbent and curved to below vein 2, then incurved to inner margin; an outer oblique line, slightly excurved to termen at vein 4; a shorter oblique line well beyond it from costa to below vein 6; an irregular subterminal black line inwardly finely edged with white, outangled at vein 6 with broken lunules on interspaces below it; termen deeply crenulate. Hind wing drab, the cilia light buff.

Expanse 90 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33410, U.S.N.M.

Named in honor of Dr. W. J. Holland.

HAPIGIA SMERINTHINA, new species

Male.—Head, collar, and thorax sayal brown, the tegulae salmon buff; a small white spot on thorax. Abdomen above benzo brown, underneath buff white with vinaceous tawny transverse bands toward base. Fore wing cinnamon buff with fine darker antemedial and postmedial wavy lunular lines meeting at middle of inner margin; a small white spot at base of cell; a subbasal line with small spots in and below cell; a large irregular spot at end of cell, chestnut brown edged with white, except on outer edge, containing sea-foam green lines encircling a chestnut brown spot; contiguous on basal side two obliquely placed white edged spots filled in with sea-foam green and a few dark scales; an outer series of black and white points on veins, connected by a faint line; subterminal small white spots on veins larger between veins 4 and 6, followed by a fine, very irregular black line, partly edged with white. Hind wing benzo brown, the costa light buff, not reaching apex; some light buff on inner margin; cilia irregularly tipped with white.

Expanse 66 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33411, U.S.N.M.

Allied to *H. smerinthoides* Walker, but paler, the discocellular spot different and the termen of fore wing evenly curved, not crenulate as in that species.

HAPIGIA APIANA, new species

Male.—Palpi, head, collar, and thorax brownish drab. Abdomen above wood brown, underneath light buff suffused with vinaceous except terminally. Fore wing avellaneous faintly suffused with light vinaceous; faint antemedial, postmedial, and subterminal lines partly punctiform. A small grayish medial spot in cell at subcostal; a similar slightly larger spot at lower angle of cell with a hair brown line above it on discocellular; a glaucous gray spot at costa before apex. Hind wing whitish suffused with cinnamon drab, the inner margin broadly warm buff.

Expanse 57 mm.

Habitat.—Venezuela.

Type.—Cat. No. 33412, U.S.N.M.

From the Dognin collection.

Near *H. repandens* Schaus, but differs in color, the reduced markings, the absence of a spot on upper discocellular, and the pale hind wings.

HAPIGIA ENEANA, new species

Male.—Head and tips of palpi dark purple drab, palpi otherwise and collar cinnamon drab. Thorax vinaceous cinnamon. Abdomen above drab, underneath light buff suffused with vinaceous fawn; anal hairs above vinaceous fawn. Fore wing avellaneous suffused with vinaceous fawn; basal line fine, lunular, irregular, black edged with white on inner side; antemedial black and white points on costa, median and submedian veins; reniform consisting of three black annuli obliquely placed, the inner spot small in cell at subcostal, the other two conjoined, B-shaped, containing a few black scales; postmedial fine, dark, marked with black and white points on veins, curved from costa to below vein 2, and slightly outcurved to inner margin; a faintly darker shade before subterminal which is irregular consisting of small black lunules, with a thicker black line near costa, four white points on costa towards apex. Hind wing silky buffy brown, the cilia tipped with white.

Expanse 60 mm.

Habitat.—Cayuga, Guatemala.

Type.—Cat. No. 33413, U.S.N.M.

Four males and a female in the United States National Museum.

HAPIGIA BEUVEA, new species

Male.—Palpi, head, and collar pecan brown. Thorax cinnamon drab with pecan brown tufts on metathorax. Abdomen above benzo brown with dorsal pecan brown tufts on second and third segments.

Fore wing cinnamon drab; traces of a subbasal and antemedial darker lunular lines, outbent from costa to inner margin; reniform narrow, clay color finely defined by black lines, with a small spot close to it on basal side below subcostal; a darker shade from within cell at reniform to inner margin near postmedial; postmedial line straight, oblique from costa to near tornus, pale grayish vinaceous outwardly dark edged; a faint irregular darker shade before subterminal; no white points on costal edge; subterminal line fine, wavy, lunular, black, preceded by a short white line between veins 7 and 8. Hind wing dark buffy brown.

Expanse 72 mm.

Habitat.—Italy, Amazons.

Type.—Cat. No. 33414, U.S.N.M.

From the Dognin collection.

Allied to *H. simplex* Walker. Differs in color, postmedial line nearer end of cell, and absence of white points on terminal third of costa.

HAPIGIA MILLSI, new species

Male.—Palpi, head, and collar dark purple drab. Mesothorax and tegulae vinaceous fawn; metathorax burnt sienna; abdomen above fuscous; basal tufts, anal hairs and underside light buff, the latter suffused with vinaceous. Fore wing: A broad cinnamon buff fascia from base of costa to inner margin, oblique, its outer edge forming two large curves, and somewhat suffused with sayal brown, crossed by a basal black line, inbent from costa to median vein; space beyond, except termen fawn color suffused with purple; a vertical dark antemedial line, almost medial, from costa to median vein, then wavily outbent and curved below vein 1 to inner margin; reniform vertical, ochraceous buff, preceded by a smaller similar spot at subcostal; a faint darker shade from within cell slightly outbent to inner margin; postmedial line dark, inwardly edged with light vinaceous fawn, straight and somewhat outbent from costa to vein 1 where it is marked by a white point; termen broadly cinnamon buff, its inner edge slightly incurved from costa, inset and straight from vein 5 to below vein 4, again inset and dentate to inner margin, between veins 3 and 2 the cinnamon buff color extending beyond the dentate edge to postmedial line; four white points on costa towards apex; subterminal line very irregular, partly lunular, black, between veins 7 and 8 replaced by a fine white line. Hind wing buffy brown, the termen shaded with pinkish cinnamon; cilia tipped with white.

Expanse 75 mm.

Habitat.—Santo Domingo, Carabaya, Peru.

Type.—Cat. No. 33415, U.S.N.M.

From the Dognin collection.

Named in honor of the Hon. Ogden L. Mills, a generous contributor to the Dognin fund.

RHAPIGIA, new generic name

It is advisable to employ a new name for those species described as *Hapigia* which have the inner margin of fore wing deeply excised and the tornus lobed. It will include *H. accipites* Schaus as type, *H. aymara* Schaus, *Hapigiodes rotundata* Dognin, *H. klagesi* Rothschild, and the following new species.

RHAPIGIA DEICOLA, new species

Male.—Head, collar, and thorax cinnamon brown, the tegulae apricot buff. Abdomen above benzo brown, underneath buff white, suffused with buff pink. Fore wing to terminal area amber brown; broad subbasal and antemedial outbent lines formed on conjoined pinkish cinnamon spots, the antemedial extending to lobe at tornus, the spots partly divided by small dark lunules; an oval similar spot on discocellular and a smaller spot before it at subcostal; postmedial area lunular wavy on outer edge and crossed by a fine dark out curved line inwardly edged with gray, with points on veins, slightly outbent below vein 2; terminal space pinkish buff suffused with amber brown from apex to vein 3 terminally, crossed by a deeply lunular fine black line, edged with white toward apex. Hind wing dark drab, the costa whitish at base; cilia tipped with white.

Expanse 45 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—In Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33416, U.S.N.M.

RHAPIGIA DEICOLA AGNESA, new form

Male.—Similar to *deicola* Schaus but with a black spot on inner margin at excision, and a black spot across vein 4 on the outer edge of the postmedial area.

Expanse 45 mm.

Habitat.—Hyutanahan, Rio Purus, Brazil.

Type.—Carnegie Museum, Pittsburgh.

Paratype.—Cat. No. 33417, U.S.N.M.

HAPIGIODES ARGENTIDISCATA, new species

Male.—Palpi and head fawn color. Collar and thorax vinaceous buff, the former with army brown shading laterally. Abdomen above benzo brown, the anal hairs and under side light buffish. Fore wing: Lower half, obliquely from costa to near tornus wood brown, otherwise vinaceous buff; a vertical basal line inwardly edged with pale vinaceous fawn; antemedial black points on costa and veins, below median connected by a faint lunular line, the lunule on inner margin deeply outcurved to beyond sinus, preceded by a small black spot on median and vein 1; discal spot large golden silvery,

oblique, preceded by a smaller spot at subcostal; postmedial line strongly inbent to vein 2, then incurved and outcurved across vein 1, army brown, inwardly edged with whitish; some faint wood brown suffusions beyond it, and a cluster of black scales across vein 4; subterminal line consisting of small black lunules, and a silvery and black line above vein 7 outangled on vein 8. Hind wing buffish suffused with buffy brown.

Expanse 51 mm.

Habitat.—Taragua, Santa Catherina, Brazil.

Type.—Cat. No. 33418, U.S.N.M.

Probably a southern race of *H. xolotl* Schaus from Central America; differs in paler coloring; the postmedial line more remote from apex.

SYNONYMY OF AMERICAN SPECIES SUBSEQUENT TO 1901

- Tagela noctuiformis* Dognin = (*Tachida cossula* Rothschild).
Nystalea longicornis Felder = (*N. picta* Dognin).
Nystalea olivescens Dognin = (*Malocampa obliquata* Schaus).
Nystalea indiana Grote = (*N. guttulata* Schaus).
Nystalea scarra Schaus is possibly the female of *N. postpuncta* Schaus.
Nystalea lineiplena Walker = (*N. cucullia* Felder = *Congruia congrua* Dyar).
Nystalea corrusca Schaus = (*N. nigriplaga* Rothschild).
Nystalea marmorea female Schaus = (*N. mocotana* male Schaus).
Pentobesa valta Schaus = (*P. placida* Schaus = *Dasylophia roberta* Dyar).
Phedusia turbida Moeschler = (*Proelymiotis apicenotata* Dognin = *Bardaxima castaneobrunnea* Rothschild).
Proelymiotis lignicolor Moeschler = (*Dasylophia exusta* Butler = *P. arpia* Schaus).
Lysana plusiana Schaus = (*L. postpicta* Dognin).
(*Elymiotis*) *Crinodes alector* Druce = (*C. crenulata* Schaus).
(*Edema*) *Lepasta lanassa* Druce = (*Lysana parvipuncta* Dognin).
Lepasta majorina Dognin = (*L. gigantea* Rothschild).
Strophocerus flocciferus Moeschler = (*S. striolata* Dognin).
(*Elymiotis*) *Dasylophia basitincta* Dognin = (*D. nigrescens* Schaus).
Dasylophia seriata Druce = (*D. indecoris* Schaus).
Farigia vecina Schaus = (*F. moresca* Schaus).
Farigia basiviridis Dognin = (*F. malomen* Dyar).
Farigia gamarra Dognin = (*F. baladan* Druce).
Hamidonta unca Dognin = (*Drugera muscosa* Rothschild).
Pseudodryas luteopunctata Dognin = (*Marthula aurea* Druce).
Tecmessa annulipes Berg = (*T. phyllis* Druce = *Eunaduna cerurata* Dognin).
Hippia mumetes Cramer = (*H. albopicta* Dognin).
(*Edema*) *Hippia mandela* Druce = (*H. nigricaput* Dognin).
Cerura scitiscrupta Walker = (*C. platea* Schaus).
Cerura dandon Druce = (*C. grandis* female Schaus).
Arpema megalopia Schaus = (*Malocampa bucephaloides* Rothschild).
Psilacron luteovirens Felder = (*P. cosmipennis* Dyar).
(*Lirimiris*) *Psilacron mechanica* Dognin = (*Pheosia ockendeni* Druce).
(*Heterocampa*) *Urgedra striata* Druce = (*U. quindinata* Dognin).
Urgedra viridiflava Dognin = (*U. luceria* Druce).
Salluca pistacina Schaus = (*Phastia maricolor* Kaye).
Dicentria violascens Herrich-Schaeffer = (*Rifargia brunnipennis* Kaye).
Dicentria limosoides Schaus = (*D. claricostata* Dognin).

- Schizura concinna* Smith and Abbott=(*Hatima deba* Druce).
Trichomaplata vittata Wing=(*Ichthyosoma tigniferum* Felder).
Trumanda fiana Dognin=(*Trichomaplata stigmatica* Rothschild).
Disphragis daona Druce=(*Heterocampa andradora* Dyar).
Disphragis bactrea Schaus=(*Skaphita crocea* Dognin).
Disphragis averta Barnes and McDunnough=(*D. pasathelys* Dyar).
Disphragis baracoana female Schaus=(*D. habilis* male Schaus).
Disphragis edwardsi Druce=(*Muscosa* Hy. Edwards=*D. mastia* Schaus)
Disphragis sylla Druce=(*D. novella* Schaus).
Disphragis tharis Stoll=(*D. laeca* Schaus).
Disphragis notabilis Schaus=(*D. normula* Dognin=*D. hemicera* Schaus).
Disphragis externa Walker=(*D. spurca* Schaus).
Hemipteros similis Druce=(*H. dyari* Schaus).
(*Hardingia*) *Hemipteros albifera* Dognin=(*H. vatsoni* Schaus).
Malocampa punctata Cramer=(*M. ziliante* Stoll=*M. bifurcata* Sepp).
Malocampa sida Schaus=(*M. canescens* Dognin=*M. sidoides* Schaus).
Malocampa satis Druce=(*M. punctata* Druce=*M. parvipunctata* Schaus).
Magava marginata Schaus=(*Rifargia incurvata* Jones).
Rhuda minor Schaus=(*R. opalistriga* Rothschild).
Rhuda dissona Schaus=(*R. postriangulum* Rothschild).
(*Drymonia*) *Rhuda dimidiata* Herrich-Schaeffer=(*R. endymion* Schaus).
Chadisra flavodiscata Dognin=(*Notoplusia distinguenda* Rothschild).
(*Heterocampa*) *Chadisra lemoulti* Dognin=(*C. hollandi* Schaus).
Chadisra arecosa male Druce=(*C. cacobule* female Dyar).
Chadisra trevisi Schaus=(*Blera costaricensis* Dognin).
Chadisra cucullioides Schaus=(*Boriza lignosa* Dognin).
(*Heterocampa*) *Chadisra corda* Druce=(*Rifargia grisea* Schaus).
(*Rifargia*) *Chadisra collema* female Schaus=(*C. praelauta* male Schaus).
Meragisa submarginata Schaus=(*M. julia* Druce).
Meragisa arida Schaus=(*Eragisa basifera* Rothschild).
Phastia umbrata Schaus=(*P. rufolineata* Dognin).
(*Rifargia*) *Euphastia nubila* Druce=(*E. ophidera* Dognin).
Euzoga argenteopunctata Moeschler=(*E. senilis* Dognin).
Euzoga balba Dognin=(*Lysana caudatula* Schaus).
Rifargia cassandra Schaus=(*Heterocampa longula* Druce).
Rifargia myconos Schaus=(*R. pupula* Dognin).
Rifargia condita male Schaus=(*R. presbytica* female Dyar).
Rifargia xylinoides Walker=(*Heterocampa cloelia* Schaus).
(*Eragisa*) *Rifargia bocra* Schaus=(*R. indiscata* Dognin).
Rifargia litura Schaus=(*R. maculata* Dognin).
Rifargia steinbachi Rothschild=(*Lusura speciosa* Schaus).
(*Eragisa*) *Rifargia nox* Schaus=(*E. tenebrosa* Rothschild).
Rifargia incisura Dognin=(*R. terebroides* Rothschild).
Rifargia mistura Schaus=(*R. cossoides* Rothschild).
Eragisa sabulosa Schaus=(*Meragisa garleppi* Druce).
Maschane frondea Schaus=(*M. costipuncta* Rothschild).
Dylomia fragilis Schaus=(*D. nubiloviolaceus* Rothschild).
Dylomia ciliata Felder=(*D. consobrina* Schaus).
Naprepa houla Dyar=(*N. fusconubilata* Rothschild).
Navarcastes limnatis Schaus=(*Dicentria medulla* Dognin).
(*Anita*) *Kurtia lassa* Schaus=(*Proanita squalida* Dognin).
Anita galibensis Schaus=(*Rifargia basiplaga* Rothschild).
Anita basipuncta Schaus=(*A. costalis* Schaus=*Schizura albocostata* Dognin).
(*Malocampa*) *Kaseria gemonia* Schaus female=(*K. pallida* male Schaus).

- (*Malocampa*) *Disphragis mayeri* Schaus=*Notoplusia stricula* Dognin.
 (*Malocampa*) *Disphragis bromia* Schaus=*Notoplusia dentifera* Dognin.
Rifargia causia Schaus=*Cerura titus* Koehler.
Boriza trajecta Dognin=*Exaereta giacomelli* Koehler.
Ginaldia davidsoni Schaus=(*Rifargia cassandra diminuta* Dognin).
 (*Symmerista*) *Pamcoloma mus* Moeschler=(*P. refervens* Schaus).
Hemiceras unimacula Dyar=(*H. furina* Dognin).
Hemiceras nigrigutta Schaus=(*H. yuntasa* Dognin).
Hemiceras obliquicola Walker=(*H. cadoca* Schaus).
Hemiceras affinis Druce=(*H. astigma* Dyar).
Hemiceras meona Cramer=(*Eulophopteryx splendens* Moeschler.)
Hemiceras violascens Guenée=(*H. singuloides* Dyar).
Hemiceras losa Druce=(*H. carmelita* Maassen).
Hemiceras nigrescens Schaus=(*H. obliquiplaga* Dyar).
Hapigia notha Moeschler=(*H. rufocinnamomea* Rothschild).
Hapigia simplex Walker=(*Lobogona hapigia* Felder=*H. ribbei* Druce).
Antaea omana Schaus=(*A. pseudosmerinthus* Rothschild).
Canodia difformis Herrich-Schaeffer=(*Hemiceras pogoda* Dognin).

SPECIES FROM CHINA, INDIA, AND THE PHILIPPINE ISLANDS

SPATALIA BRONACHA, new species

Male.—Palpi above hessian brown, underneath white suffused with tawny toward end. Head and collar chestnut mottled with white. Thorax and tegulae cinnamon rufous. Abdomen above clay color, the dorsal tufts at base and anal tufts bister. Fore wing pinkish buff suffused with vinaceous; apex rounded, termen oblique, even; base of costa and just below cell chestnut brown, limited by an incurved white line, followed below cell by a small oblique silver spot, then by a large triangular silver spot, its base at median, its apex at vein 1, its basal side twice excurved, and edged with hessian brown, its outer edge bordered with ocher red, outwardly edged with hessian brown and then with white, these colors expanding below vein 1; a tawny olive streak above median toward base to termen between veins 5 and 6; a black streak on upper discocellular, and a shorter fuscous streak on lower discocellular; postmedial line double, outcurved and lunular from costa to vein 5, then evanescent to vein 4, below 4 consisting of a single inbent, sinuous hessian brown line to below vein 2; a fuscous point above vein 7 at postmedial; a series of subterminal fuscous spots and lunules, the lunules inwardly edged with white and more remote from termen; cilia mostly hessian brown. Hind wing white, the veins and inner margin cream color; cilia light buff tipped with white.

Expanse 42 mm.

Habitat.—Buitenzorg, Java.

Type.—Cat. No. 33419, U.S.N.M.

NOTODONTA GRAHAMI, new species

Male.—Head, collar, and thorax fuscous, the head and collar thickly mottled with grayish hairs; a large light buff patch on thorax, edged with cinnamon brown and crossed by a similar line. Abdomen above light drab, suffused with prout's brown; underneath whitish. Fore wing: Basal area, except costa blackish brown, outwardly finely edged by faint brownish scaling and a black line outcurved from subcostal, slightly inbent on vein 1, originating from an inbent black line on costa; an antemedial small brownish spot below cell, crossed by a black line; costal margin to above discocellular irrorated with white; medial space from below cell to subcostal white thinly irrorated with blackish brown; a thick black line on discocellular, edged with pure white; a narrow blackish brown shade outcurved beyond cell and inbent to middle of inner margin, followed by a finely wavy black line slightly outcurved on costa, vertical below vein 2, outwardly edged with brownish and followed by a blackish brown suffusion to termen except from vein 4 to apex which is dark drab; traces of small subterminal black spots. Hind wing white, the inner margin drab; a fine dark postmedial line with darker streaks on veins; a broad subterminal blackish brown shade, fainter toward anal angle; a similar terminal line. Wings below pale smoke gray, both crossed by a dark postmedial line; fore wing except inner margin faintly darker irrorated.

Expanse, male, 57 mm.; female, 65 mm.

Habitat.—Mount Omei, Szechuen, China.

Type.—Cat. No. 33420, U.S.N.M.

Named in honor of the Rev. D. C. Graham.

The species is closely allied to *N. moltrechtii* Oberthuer = *N. kotshubeji*, Sheljuzko described from the southern Ussuri district.

CERURA NICETIA, new species

Male.—Palpi, head, collar, and thorax black with a few white hairs. Abdomen above with alternate deep mouse gray and black narrow bands; anal hairs white; underneath white with black bands. Fore wing with the base and outer area drab gray; a small black spot near base of cell, followed by a series of spots on veins; a vertical antemedial black line, the space beyond thickly irrorated with black and white, limited by the black medial line which is slightly inbent to below cell, then outbent to inner margin near postmedial; a short black line on lower discocellular; a fine deep ventral gray line from cell across base of vein 2, parallel with medial line; postmedial line very fine, double, deep neutral gray, incurved opposite cell, very deeply outangled on veins 4, 3 and 2, followed by a thick black line parallel to it, very fine and merely dentate from vein 4 to vein 2, below 2 incurved and more heavily marked; this line is followed from

costa to vein 4 by a broad space thickly irrorated with black and white; terminal black spots on interspaces. Hind wing and cilia white; a black line on discocellular; terminal black spots on interspaces. Fore wing below smoky black, the termen broadly drab gray with terminal black spots.

Expanse 46 mm.

Habitat.—Thirty miles north of Tatsienlu, China.

Type.—Cat. No. 33421, U.S.N.M.

Four males collected by D. C. Graham.

The postmedial line is more deeply dentate than in the species of *Dicranura*.

SOMERA ACASIA, new species

Male.—Palpi ochraceous tawny streaked above with fuscous, the tip white. Head, collar, and thorax mottled white, pale ecru drab and slightly with fuscous hairs. Abdomen above army brown, underneath wood brown. Fore wing silky grayish olive, the lines chiefly black; a double subbasal line, inangled on median, outangled below cell with a projecting line to antemedial; antemedial line vertical, double on costa and from fold to inner margin, preceded by an inbent streak from subcostal to median; a fine line on discocellular, outwardly edged with white; a faint dark grayish olive line outbent and dentate to vein 4, then incurved, macular from vein 2 to inner margin; postmedial line double mostly punctiform, filled in with dark grayish olive from vein 3 to inner margin; a lunular subterminal line partly edged outwardly with pale olive buff, forming small lunules from veins 7 to 4, below 4 incurved, sinuous; an interrupted marginal line; cilia with fuscous spots on interspaces. Hind wing army brown; cilia with vinaceous fawn spots. Fore wing below cinnamon drab, the hind wing pinkish buff, with darker suffusions; both wings with cilia cinnamon brown on interspaces.

Expanse 47 mm.

Habitat.—Assam, India.

Type.—Cat. No. 33422, U.S.N.M.

A very distinct species.

STAUROPUS BRIACHISIA, new species

Male.—Palpi cinnamon brown, streaked with fuscous above. Head and collar prout's brown, the head mottled with white hairs. Thorax white mottled with ochraceous tawny, the tegulae white mottled with prout's brown. Abdomen above cinnamon brown, darker at base; underneath light brownish drab with darker bands. Fore wing white thickly irrorated with brownish drab, the lines diamine brown, fine, on costa thicker; base of costa whiter; a subbasal line from costa inbent to base below cell, followed on costa by a short longitudinal streak; a broken medial line slightly inbent; discocellular spot oval,

outlined with white; postmedial outcurved, minutely wavy, vertical below vein 2, followed on costa by a short curved line and a thick streak below vein 7 to subterminal which is white, wavy, preceded by some dark streaks, almost obsolete from vein 4 to below vein 3; a broken terminal line; cilia with white points at veins. Hind wing cinnamon drab; cilia slightly tipped with white.

Female.—Fore wing more thinly irrorated, the outer half of cell almost white; an antemedial line below cell, close to medial indentate at fold with a fine line to base; postmedial line below vein 4 crenulate. Hind wing light cinnamon drab, with darker suffusions before inner margin.

Expanse, male, 54 mm.; female, 66 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33423, U.S.N.M.

STAUROPOUS NITERIA, new species

Male.—Antennae fasciculate. Palpi fuscous, the cilia mottled white and chestnut. Head, collar, and thorax white mottled with black; tips of patagia black, also of tufts on metathorax. Abdomen above cinnamon drab, the last segment mottled white and chestnut, the anal hairs white; underneath pale ecru drab. Fore wing white thinly irrorated with fuscous, still less so on medial area; a black line from base below cell and along vein 1, downturned on inner margin near middle, and some yellowish scales below it at base; a double, antemedial line, consisting of light grayish olive scales tipped with black, inset below cell; a similar fine line across cell before the white discocellular line, which is outwardly edged with black, then broadly with scales similar to antemedial, suffusing with the inner postmedial line; postmedial double, incurved below vein 3 at cell, the outer line below vein 3 broadly edged distally by citrine drab striated with black, this edged with black projecting between veins 2 and 3; an outer oblique citrine drab and black fascia from costa to vein 4; a double marginal series of black lines on interspaces, mostly edged with maize yellow on basal side. Hind wing drab, the basal half cinnamon brown, fuscous on discocellular.

Expanse 48 mm.

Habitat.—Assam, India.

Type.—Cat. No. 33424, U.S.N.M.

STAUROPOUS PALLADINA, new species

Male.—Antennae pectinated to near tips. Palpi chestnut, streaked above with fuscous, fringed with white. Frons white medially, chestnut laterally. Vertex and collar mostly white, the latter with a transverse chestnut band. Thorax mottled wood brown and greenish white. Abdomen above cinnamon drab, underneath whitish. Fore wing: Basal third, costa, inner margin, termen from vein 6 to

tornus, median vein, base of veins 2, 3, 4, 6, and 7, and a space along distal edge of outer line from costa to vein 4 light grass green, otherwise brownish drab with some green irrorations on terminal third; lines fuscous; an inbent subbasal dentate line; antemedial line double filled in with whitish and light drab, inbent from costa to vein 1, then outcurved on inner margin and filled in with green; post-medial and outer lines crenulate, parallel; subterminal line fine, wavy, edging the green termen from vein 6 to inner margin. Hind wing cinnamon drab; costa to beyond middle whitish; a double black line filled in with light grass green from costa near apex to vein 6; cilia tipped with white.

Expanse 43 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33425, U.S.N.M.

Six males and a female in the United States National Museum.

STAUIOPUS KEBEAE Bethune-Baker

This species¹ is quite abundant in the Philippine Islands and shows great variation. Some specimens agree perfectly with the type, whereas others lose all the conspicuous black markings; however, one female has the fore wing almost entirely black with a broad light buff termen. There are 22 males and 8 females in the United States National Museum.

FENTONIA GUALBERTA, new species

Male.—Antennae pectinated on basal two-thirds. Palpi fuscous fringed with light buff; large white tufts below eyes expanding over palpi. Frons and vertex white mottled with cinnamon brown. Collar and thorax prout's brown mottled with white leaving dark transverse bands; the mesothorax whiter, with some maize yellow scaling, the tegulae predominantly white. Abdomen above cinnamon brown, the last two segments white irrorated with cinnamon; underneath cinnamon buff. Fore wing: Base silvery white limited by a fine double black line outbent to fold; a subbasal black point on subcostal vein, and fine dark line from fold to vein 1, outwardly margined with citron yellow scales; wing beyond light silvery gray with faint drab suffusions medially on inner margin and from cell to costa and termen; a fine medial black line across cell; some black scales before and on discocellular; a fine drab postmedial, lunular dentate, outcurved close around cell and inbent to middle of inner margin; a fine, well defined, double, black outer line dentate near costa, slightly curved and outbent to vein 3, then incurved to inner margin near tornus; a subterminal white shade incurved from apex to vein 3; a marginal black line, straight from costa to vein 4 then

¹ Described in *Novitates Zoologicae*, vol. 11, p. 378 pl. 5, fig. 52.

slightly lunular. Hind wing cinnamon brown, the cilia tipped with white. Wings below sayal brown, the base of inner margin of fore wing white.

Expanse 42 mm.

Habitat.—Surigao, Philippine Islands.

Type.—Cat. No. 33426, U.S.N.M.

FENTONIA ERCONVALDA, new species

Male.—Palpi, head, and collar cinnamon brown. Thorax in front wood brown with some white scales; tegulae dusky drab with some cinnamon brown hairs dorsally, crossed posteriorly by two chestnut lines. Abdomen above black, underneath benzo brown, the last two segments suffused with buff white. Fore wing fuscous, the costa finely light grayish olive; an antemedial wavy black line; a small black spot at end of cell; a faint outcurved postmedial black line; an outer black lunular line, double between veins 6 and 4 followed by some faint lilacine scaling, and similar scaling before and beyond a marginal interrupted black line; some indistinct benzo brown subterminal shading from costa to vein 4; a black terminal line interrupted by veins; cilia cinnamon brown. Hind wing black, the cilia mottled with cinnamon brown.

Expanse 47 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33427, U.S.N.M.

All the markings on fore wing are indistinct, owing to the fuscous ground color.

FENTONIA ABRAAMA, new species

Male.—Head, collar, and thorax drab gray. Abdomen above grayish olive suffused with cinnamon drab except the last two segments; laterally and underneath light yellowish buff, the venter with fine dark segmental lines. Fore wing: Base light drab; a basal faint chestnut line outbent; subbasal and antemedial fine, wavy, parallel, deep grayish olive lines, outbent to inner margin, the space between grayish olive; medial area whitish irrorated with wood brown, more thickly from below vein 2 to inner margin, this shade extending to termen, the more thinly irrorated portion forming an oblique band beyond antemedial line; a small white spot on discocellular; a browner shade beyond cell, and on termen from vein 4 to costa; postmedial line double on costa, buff brown, otherwise obsolete; an outer broad, irregular, smoky deep neutral gray shade inbent from costa before apex to vein 4, partly defined by black lines, below vein 4 very faint, defined outwardly by grayish between veins 4 and 3, and 2 and 1; small fuscous marginal lunules; cilia mottled white and brown with small fuscous spots at veins. Hind wing dark drab, the cilia tipped with white.

Expanse 50 mm.

Habitat.—Shin Kai Si, Mount Omsi, Szechuen, China.

Type.—Cat. No. 33428, U.S.N.M.

Collected by D. C. Graham.

FENTONIA MANGHOLDA, new species

Male.—Palpi and frons snuff brown, the former streaked above with fuscous. Vertex, collar, and thorax sayal brown; a chestnut line across collar behind; tegulae smoke gray, dorsally edged with bister; metathorax with smoke gray and snuff brown tufts. Abdomen above snuff brown with somewhat paler segmental lines; underneath grayish buff with drab bands; laterally the segmental lines are white, with small hair brown spots between. Fore wing drab finely mottled with smoke gray scales; the cell medially and space beyond suffused with dark mouse gray; antemedial line fine, black, preceded closely by a fainter line; reniform defined by white scaling; postmedial line double, deeply dentate, inbent from vein 4 to middle of inner margin, followed by a velvety black sinuous line partly double to vein 4 where it becomes very faint, lunular, followed by velvety lunules from vein 4 to vein 1; a subterminal cinnamon drab shade, somewhat lunular outwardly, much reduced from vein 4 to inner margin, preceded by some white scaling between veins 6 and 4, and followed by ecru drab shading to termen; marginal black spots inwardly edged with white and partly suffusing with the dark terminal line; cilia light ochraceous buff mottled with benzo brown. Hind wing benzo brown; a faint postmedial pale line; cilia partly white tipped. Wings below benzo brown, the termen of fore wing somewhat whitish on interspaces with an irregular dark terminal line. The female browner, the subterminal shade narrower.

Expanse, male, 51 mm.; female, 56 mm.

Habitat.—Surigao, Luzon, Philippine Islands.

Type.—Cat. No. 33429, U.S.N.M.

FENTONIA CANTIANA, new species

Male.—Head, collar, and thorax chestnut mottled with bluish white hairs, very slightly so on vertex and collar. Abdomen above hair brown, the two basal segments cinnamon drab, the last segment and dorsal basal tuft fuscous; anal hairs cinnamon and white. Fore wing benzo brown thickly irrorated with bluish white scales, less so on terminal area; lines fine, fuscous, very indistinct; traces of an antemedial and a discocellular line; postmedial and outer lines far apart on costa, below vein 4 closer together, parallel, crenulate, the lunules of outer line slightly edged with white distally from vein 3 to vein 1; cilia mostly white. Hind wing snuff brown; cilia mostly white.

Expanse 55 mm.

Habitat.—Suifu, Szechuen, China.

Type.—Cat. No. 33430, U.S.N.M.

Collected by D. C. Graham.

FENTONIA EINGANA, new species

Male.—Head, collar, and thorax dark mouse gray mottled with pale gray. Abdomen above light drab, the last segment and anal hairs pale smoky gray; underneath pale smoke gray. Fore wing: Base drab gray; a black basal line outbent to above vein 1 followed by a fine parallel hair brown subbasal line, and two similar vertical antemedial lines; medial area in cell, below it to inner margin and below vein 2 to termen, also at cell between veins 2 and 3 pale smoke gray minutely covered with darker striae; a cinnamon drab line on discocellular with paler edging, followed between veins 4 and 6 by an iron gray patch, outwardly edged with black forming part of the inner postmedial line which is dentate from vein 4 to vein 2; the outer postmedial line black, outcurved from above vein 4 to vein 2; terminal space grayish olive crossed by the evenly curved subterminal pale smoke gray line; a terminal black line.

Hind wing smoke gray with a darker medial shade and dark streaks on veins.

Expanse 29 mm.

Habitat.—Mount Omei, Szechuen, China, at 4,500 feet elevation.

Type.—Cat. No. 33431, U.S.N.M.

Antennae well pectinated and veins 6 and 7 on hind wing with long stalk.

FENTONIA MAGUILA, new species

Male.—Palpi and frons cinnamon brown. Vertex, collar, thorax, and anal hairs grass green; abdomen above cinnamon brown, underneath buff white with brown segmental bands. Fore wing: Base of costa, cell, below cell to fold and base of inner margin cinnamon buff, the costa with brown irrorations; below fold to inner margin and close to tornus grass green, with a black spot above vein 1 at base; a slight subbasal and antemedial cinnamon brown line becoming pale cendre green across inner margin; medial area on costa and cell cinnamon brown, below cell to fold and on outer area clay color; from antemedial above cell green grass scaling expanding above discocellular to near apex, with a similar curved line on discocellular and a white spot on upper discocellular extending on costa; a smaller white spot on costa near end of green; veins from cell partly green; an outer series of fuscous spots on veins followed by white streaks on veins 3 and 4; green spots terminally on interspaces; cilia cinnamon buff with cinnamon brown irrorations and spots at veins. Hind wing light cinnamon drab with some dark scaling at anal angle.

Expanse 21 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33432, U.S.N.M.

The antennae are well pectinated; veins 6 and 7 on hind wing with long stalk.

Evidently very close to *F. viridinota* Hampson, but much smaller.

Four males and a female in the United States National Museum.

CHADISRA MADENA, new species

Male.—Palpi hessian brown fringed with white. Frons sayal brown; vertex deep brownish drab, the hairs partly tipped with light gray. Collar white edged in front with chestnut. Thorax white suffused with vinaceous buff, the tegulae white. Abdomen above whitish buff suffused with avellaneous except at base and at end. Fore wing largely deep vinaceous gray, mottled with broad fuscous scales; a small white spot at base of cell; inner margin white, expanding beyond base, upbent to cell at vein 2, obliquely downbent to below fold, upbent to vein 2 and oblique to tornus, the lines crossing it deep olive buff; a large antemedial oval spot blackish mouse gray formed of broad scales, each tipped with buff white, from within cell, inbent to inner margin, and narrowly edged with white, followed by a double chestnut line from costa, outbent in cell, inset below cell to fold, very faint from fold to inner margin; below vein 2 to postmedial a triangular chestnut mark; discocellular edged with fuscous and a few white scales; an irregular fuscous line, lunular, outcurved and close to cell, followed by the double postmedial fuscous line, which is crenulate, almost vertical to vein 2 and inbent; this line followed from costa by a large white spot with outer edge wavy, and narrowing to vein 4 largely irrorated with olive and dark olive buff, with two chestnut spots on costa and some buffy brown at apex; subterminal small white spots on interspaces from vein 6 to vein 2; cilia mottled fawn color, wood brown and white. Hind wing cinnamon drab, the base and inner margin partly white; cilia white at anal angle.

Expanse 42 mm.

Habitat.—Tjibodas, Mount Gede, Java.

Type.—Cat. No. 33433, U.S.N.M.

In appearance very much like *Fentonia orbifer* Hampson but with the areole and venation typically that of *Chadisra*, only differing in having the antennae well pectinated for three-fourths of the length.

NEOPHEOGIA CATHANA, new species

Male.—Palpi dark chestnut, the fringe mottled with white. Frons dark chestnut, laterally mottled with white and buff pink. Collar and thorax with a dorsal fuscous line, collar otherwise and tegulae white

mottled with chestnut hairs. Abdomen above drab with fuscous bands except on last two segments; underneath white with some drab shading. Fore wing: Basal half pinkish buff; vein 1 from base chestnut; some white at base of costa followed by two short fuscous lines, the antemedial with a short streak below it in cell; costa to medial line fuscous, the latter forming a blackish mouse gray shade, narrow in cell below cell suffusing with a similar shade on interspaces from vein 4 to inner margin, partly coalescent; two white streaks on costa from medial to postmedial line; a faint dark streak in cell above median; a pinkish buff oval spot an discocellular, containing a small fine brown annulus; interspaces beyond cell, between veins 4 and 6 sayal brown; postmedial line on costa double, oblique, fuscous, filled in with white, the outer line upbent below vein 7 to apex; a wavy pale and faint subterminal line from vein 4 to inner margin followed by thick black streaks on veins 4-2, and on inner margin; cilia fuscous on interspaces tipped with white. Hind wing white; a small fuscous black patch at anal angle.

The female has pectinated antennae, is more uniformly pinkish buff, without the dark postmedial suffusions; the hind wing with the costal margin pinkish buff and wood brown; the termen narrowly and cilia mostly fuscous.

Expanse, male, 58 mm.; female, 70 mm.

Habitat.—Mindanao and Luzon, Philippine Islands.

Type.—Cat. No. 33434, U.S.N.M.

The female is somewhat like *P. fasciata* Moore, which also occurs in the Philippine Islands, but this has simple antenna.

PHALERA ORDGARA, new species

Male.—Palpi and throat chestnut, the former fringed with orange cinnamon. Vertex warm buff. Collar and thorax ochraceous tawny, the tegulae deep mouse gray. Abdomen above chestnut brown with rather broad whitish segmental lines; anal hairs light buff; underneath white laterally, black ventrally, except on last two segments. Fore wing mouse gray, darker in cell and on costa to outer line; a broad black oblique streak from base below cell to inner margin; a fine black subbasal line on costa and cell; antemedial line fine, black, vertical, minutely wavy; a double, very fine postmedial line, well apart, from beyond cell at vein 4 wavily dentate to middle of inner margin, followed between vein 3 and subcostal by deep mouse gray lines to outer line, this latter rather broad, white, vertical from costa to vein 4, incurved between 4 and 3, joined at vein 4 by a crenulate white line from apex, the space between them and termen from apex to vein 3 avellaneous; on outer edge of vertical line small dentate black marks; below vein 3 the outer line is reduced to a fine lunular deep mouse gray line; a terminal cinnamon brown and black dentate

line, enclosing white spots which extend on cilia. Hind wing dark buffy brown, cilia with white spots.

Expanse 60 mm.

Habitat.—Nine to thirty miles from Tatsienlu, China.

Type.—Cat. No. 33435, U.S.N.M.

A very distinct species described from 4 males collected by D. C. Graham. One specimen shows a faint pale discal spot on fore wing.

PHALERA SURIGAONA, new species

Male.—Palpi fuscous fringed with wood brown mottled with a few white hairs. Frons snuff brown. Vertex white. Collar snuff brown. Thorax and tegulae brownish drab; a white line at shoulders. Abdomen above bister with white segmental bands; anal segment and underside yellowish white. Fore wing army brown, paler below cell and vein 2 to inner margin; a broad oblique white shade irrorated with brown from base of costa to antemedial line below cell; traces of a fine black basal line; antemedial line double, well apart on costa, then outcurved and minutely wavy to median, then close together, straight and vertical to vein 1, inbent below it; a double vertical medial line, finely dentate, wavy, inwardly edged with white from below cell; a small buffy brown spot at discocellular; post-medial line double, fine with some black and grayish points on veins, lunular dentate to vein 2, below it sinuous and vertical, closely followed by a fine double lunular dentate line slightly incurved below vein 4, and more heavily marked between veins 2 and 1; a faint fawn color shade from vein 4 to apex, outwardly crenulate; a terminal white patch from tornus to vein 3; submarginal wood brown lunules filled in with black; a terminal cinnamon brown line, extending on cilia at veins, the cilia otherwise cinnamon. Hind wing army brown becoming broadly fuscous on termen; cilia buffy brown with army brown spots at veins. Wings below buffy brown, paler on termen; fore wing with a double army brown, somewhat crenulate, terminal line; hind wing with a vertical medial thick olive brown line from costa to vein 2.

Expanse, male, 80 mm.; female, 112 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33436, U.S.N.M.

Five males and one female in the United States National Museum.

The species is allied to *P. grotei* Moore, which I do not think is identical with *P. raya* Moore. *P. grotei* also occurs in the Philippine Islands, and the Museum has a long series. The genitalia of the two species are very different.

BESIDA VINVALVA, new species

Male.—Palpi: Second joint fuscous, the cilia and third joint drab. Head and collar mottled light buff and cinnamon brown, the latter narrowly fuscous in front; thorax mouse gray. Abdomen above drab

suffused with light buff at base and with a dorsal cinnamon brown tuft; anal hairs whitish buff; underneath buff white with a benzo brown ventral line, and traces of dark segmental lines. Fore wing: A black spot at base, outwardly curved with a black branch at base of median extending to the black space beyond, with an avellaneous shade above and below it crossed by a double sinuous chestnut and black line; cell and just beyond to inner margin fuscous black, the costa and part of inner margin avellaneous; traces of an antemedial and double medial black line, the entire dark space limited by a narrow black shade indent from costa to inner margin; a double broken light buff line partly edged with velvety black at discocellular; post-medial and terminal area largely suffused with buffy brown, and below vein 2 with light buff, crossed by two broken, somewhat punctiform black lines; a broad subterminal black line, straight from apex to vein 2, its outer edge expanding on veins, followed on interspaces by small velvety black lunules; an oblique white streak at tornus; a terminal black line; cilia fuscous partly mottled with white.

Hind wing dark buffy brown; cilia partly whitish.

Expanse 49 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33437, U.S.N.M.

Close to *B. xylinata* Walker with the type of which it was compared.

LIPAROPSIS DYPNA, new species

Male.—Palpi and head mottled russet and white. Collar white with a line of black scales anteriorly. Thorax cinnamon brown and fuscous. Abdomen white; some light drab hairs at base and dorsally. Fore wing: Base narrowly white edged by a fuscous line indentate below median; antemedial space sayal brown partly clouded with fuscous, its outer edge oblique to inner margin beyond middle; post-medial line white outcurved below costa with black and white points on veins 5 to 1, followed by short fuscous streaks on veins 6 and 5, and a white space to apex; the medial triangular space formed by the two lines white thickly irrorated with light drab and deep mouse gray; a sinuous white line on discocellular, usually separated into two spots; terminal space below vein 5, and more narrowly on termen to vein 7 sayal brown. Hind wing white; some chestnut irrorations above vein 6 to apex and on costa; a fine terminal black line not reaching anal angle; a fuscous spot on cilia at apex; some light buff suffusions on inner margin.

Expanse 29 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33438, U.S.N.M.

Close to *L. postalbida* Hampson, and *L. formosana* Wilemen.

PYDNA ADJUTREA, new species

Male.—Antenna bipectinated to near tip. Palpi avellaneous streaked above with fuscous. Head and collar grayish olive. Thorax light buff, the front narrowly, a dorsal line, shoulders, and tegulae outwardly bay. Abdomen above light ochraceous buff, underneath cream white. Fore wing whitish buff; base of costal edge bay; cell silvery white; a bay line at base of wing; a subbasal fine cinnamon rufous line, outangled on costa, followed on costa by a cluster of cinnamon scales; an outcurved antemedial amber brown line from costa to median, below cell outcurved to fold; from antemedial in cell to near end a fine amber brown bifurcating line; a fine amber line from antemedial along upper edge of cell, expanding and outcurved at discocellular, at vein 3 joining a thicker amber brown line from base along median; a similar line from apex to vein 2, close to cell, slightly crenulate from vein 4 to vein 2, with some ochraceous buff between it and the line on median; a fine pinkish cinnamon postmedial line outangled on costa, then obsolete; base of veins 7, 6 and 4 to 2 amber brown; outer dark specks on veins 8 to 6; from below vein 4 to antemedial below cell, some pinkish cinnamon scaling; a similar wavy subterminal line from vein 5 to inner margin; submarginal tawny points on interspaces, larger at fold; cilia with ochraceous buff spots at veins. Hind wing light yellowish buff, darker on inner margin. Wings below yellowish white, the cell of fore wing suffused with brownish drab.

Expanse 58 mm.

Habitat.—Assam, India.

Type.—Cat. No. 33439, U.S.N.M.

PYDNA MARCONIA, new species

Male.—Antennae with long pectinations, in the female moderately pectinated. Palpi buff white, streaked above with fuscous. Frons buff white, darkly edged at eyes. Collar and thorax light buff, the tegulae mottled with cinnamon buff hairs. Abdomen above pinkish buff, underneath white. Fore wing light buff thinly irrorated with cinnamon buff and sayal brown; subbasal line indicated as a curved cinnamon line on costa, and a curved black line below cell; a very faint medial line consisting of cinnamon scales sinuous from within cell to inner margin, preceded in cell by a large quadrate black spot; an elongated black spot at end of cell to the postmedial which is similar to the medial line, outcurved from costa, inbent from vein 4 to the medial line at fold; dark scaling on vein 5, upbent to near apex; subterminal black points on interspaces parallel with termen. Hind wing light buff suffused with light pinkish cinnamon especially toward inner margin; cilia white. In some specimens the cell spots are sayal brown.

Expanse, male, 46-48 mm.; female, 58 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33440, U.S.N.M.

A series in the United States National Museum.

PYDNA ODRANA, new species

Male.—Antenna with fine fascicles. Palpi and head light buff, the palpi streaked above with fuscous. Collar avellaneous. Thorax light buff, suffused with avellaneous in front and partly on tegulae. Abdomen above cinnamon, the last segment and anal hairs white; underneath white. Fore wing light buff slightly irrorated with cinnamon, except between veins 2 and 4, and on terminal area from vein 8 to fold; irrorations denser medially below cell and on inner margin; a fine and faint drab line below cell to vein 2, cinnamon scaling on median and discocellular, and a narrow drab shade from above vein 4 to termen below apex; a round black medial spot below vein 2; postmedial black points on veins 2, 3 and 4; a black antemedial point above median; subterminal black points on interspaces from below vein 7, preceded between veins 4 and 2 by an inbent faint drab shade; inner margin suffused with drab. Hind wing pinkish cinnamon; costa narrowly and cilia white.

Expanse 43 mm.

Habitat.—Surigao, Philippine Islands.

Type.—Cat. No. 33441, U.S.N.M.

PYDNA UBALVIA, new species

Male.—Antenna ciliate. Palpi and head drab gray, the palpi black above. Collar and thorax drab gray; a dorsal hair brown line from vertex to metathorax; tegulae with long light buff hairs from shoulders. Abdomen above cinnamon, the last segment, anal hairs and underside white. Fore wing light buff; costal edge white; a drab line from base along median, from lower angle of cell upbent to apex; an excurved light drab shade from inner margin near base to vein 2 near cell; a faint outcurved postmedial line, sinuous and inbent from vein 5 to vein 2; an outer series of black points on veins parallel with termen and with light drab suffusions from vein 2 to inner margin; subterminal streaks on interspaces from vein 7 to vein 1, preceded from vein 4 by a faint light drab line; cilia tipped with white. Hind wing brownish vinaceous, broadly dark on inner margin; cilia white.

Expanse 45 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33442, U.S.N.M.

PYDNA BARASAMPHIA, new species

Male.—Antennae fasciculate, simple in the female. Palpi hazel above, white below irrorated with hazel at tips. Head, collar, and thorax light buff mottled with fawn color. Abdomen above warm buff, terminal segment, anal hairs and underside white. Fore wing light buff thinly irrorated with tawny; tawny scaling forming a shade along median, at vein 4 upbent to apex; similar scaling forming very indistinct and broken antemedial, medial, and postmedial lines, all outcurved, the postmedial followed by fuscous points on veins, vertical from costa, on vein 6 to 4 small angled lines, below vein 4 inset to inner margin; marginal fuscous points on interspaces. Hind wing maize yellow, cilia tipped with white.

Expanse 33–38 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33443, U.S.N.M.

PYDNA ERCONA, new species

Male.—Antenna and body as in *P. barsamphia* Schaus. Fore wing buff white; some cinnamon scaling forming a line below cell to vein 2, expanding there into a spot reaching fold, then above median, along vein 4 and upbent to apex; a few postmedial and subterminal cinnamon scales; marginal fuscous points on interspaces. Hind wing white suffused with pinkish buff along inner margin.

Expanse 33 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33444, U.S.N.M.

PYDNA GODDRICA, new species

Male.—Antennae fasciculate. Palpi: Second joint dark mouse gray, the fringe and third joint whitish with slight black hairs and irrorations. Head benzo brown. Collar and thorax drab, the tegulae ecru drab. Abdomen above deep olive buff, with dark transverse lines. Fore wing pale pinkish buff, the inner margin to outer line suffused with dark olive buff, the lines dark olive buff; a line from base of cell along median and vein 4 to termen, faintly edged with whitish below; a postmedial line outcurved around cell and inbent to middle of inner margin; traces of an inbent dull darker shade from middle of costa to median and a similar dark olive buff line from fold antemedially to base of inner margin. In one specimen a small black spot on discocellular; an outer series of black points on veins, parallel with postmedial, partly double, and from vein 2 to inner margin triple; a faint, fine darker shade from apex to vein 4, and from termen to vein 1 at outer series of points; marginal black spots on interspaces. Hind wing blackish drab.

Expanse 47 mm.

Habitat.—Shin Kai Si, Mount Omei, China.

Type.—Cat. No. 33451, U.S.N.M.

Received from D. C. Graham.

TURNACA BRYANTIA, new species

Male.—Palpi, head, collar, and thorax mottled wood brown and whitish buff. Abdomen above fawn color, underneath white. Fore wing fawn color thickly irrorated with white, less so along median below cell and vein 4 to termen; inner margin slightly darker, also along vein 6 to termen; faint traces of a double postmedial line and an outer punctiform line. Hind wing fawn color. Wings below cinnamon.

Expanse 60 mm.

Habitat.—Java.

Type.—Cat. No. 33445, U.S.N.M.

Collected by Bryant and May.

Allied to *T. rafflesi* Moore, larger, the hind wing darker.

TURNACA PANTAENA, new species

Male.—Palpi verona brown fringed with white. Head, collar, and thorax whitish buff thinly mottled with sayal brown. Abdomen above mikado brown, the last segment, anal hairs and underside white. Fore wing whitish buff, thinly irrorated with sayal brown; a fine, black line on median and vein 4 to outer streaks; an antemedial sayal brown point on subcostal, median and vein 1, the latter inset; a subbasal point on costa; very faint traces of a double postmedial line; an outer series of short black streaks on veins; fine black terminal streaks on veins 1, 4, and 7; faint brownish marginal points on interspaces. Hind wing pinkish cinnamon, the cilia white. Fore wing below pinkish cinnamon. Hind wing below pinkish cinnamon, the costa pale pinkish buff.

Expanse 35 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33446, U.S.N.M.

Five males in the United States National Museum.

TURNACA SURIGA, new species

Male.—Palpi fuscous fringed with white. Head, collar, and thorax mottled white and sayal brown, the tegulae outwardly entirely white. Abdomen above cinnamon, the last segment and anal hairs white mottled with cinnamon; underneath white. Fore wing white with a few dark scales; inner margin suffused with deep olive buff; some olive buff between veins 2 and 4 at cell; a fine black line on median and vein 4 to outer points, also on base of vein 6; the median vein edged in cell with maize yellow; a broken, oblique, fuscous line on

costa at base; a double outcurved antemedial cinnamon line, not distinct and broken; a similar medial, single line to median where it is preceded in cell by some dark scaling; a double outcurved post-medial line, largely consisting of light pinkish cinnamon scaling on interspaces; a double outer series of small fuscous spots on veins, the veins themselves mostly white; a terminal black streak on vein 4, and some black irrorations between veins 5 and 6 between the points. Hind wing light pinkish cinnamon, broady darker along inner margin; cilia mottled with white.

Expanse 38 mm.

Habitat.—Surigao, Mindanao, Philippine Islands.

Type.—Cat. No. 33447, U.S.N.M.

NORRACA ORDGARA, new species

Male.—Palpi neutral gray above, white below. Head, collar, and tegulae cream buff with a faint olive tinge. Thorax and abdomen above vinaceous fawn, the last segment light buff; anal hairs vinaceous buff; underneath white. Fore wing cream buff; traces of a darker antemedial line; a long white fascia in cell from antemedial to discocellular, divided by a fine longitudinal cream buff line, crossed close to each end by a similar line; postmedial, outer line and subterminal line consisting of small patches of light grayish olive scales, all inbent and parallel with the very oblique outer margin. Hind wing vinaceous fawn, darker shaded near inner margin; costal margin and cilia white. Wings below buffish white.

Expanse 48 mm.

Habitat.—Manila, Philippine Islands.

Type.—Cat. No. 33448, U.S.N.M.

MICROPHALERA STYXANA, new species

Male.—Head, body, and fore wing above blackish brown. Abdomen above with deep neutral gray segmental lines; underneath drab gray. Fore wing silky; a fine velvety black line on discocellular; traces of deep neutral gray antemedial and postmedial lines on costa, the latter outcurved on costa, crenulate, preceded by a short whitish streak on vein 1, and followed on veins 2-4 by faint neutral gray streaks; faint traces of a pale subterminal line from costa near apex; cilia with a few white tipped hairs. Hind wing whitish suffused with drab; costa and termen hair brown, the latter preceded by a clearer white space. Fore wing below deep quaker drab; white spots on costa before apex; a subterminal black shade. Hind wing below white; a submarginal blackish band; cilia pale drab gray tipped with white.

Expanse, male, 38 mm.; female, 44 mm.

Habitat.—Shin Kai Si, Mount Omei, China.

Type.—Cat. No. 33449, U.S.N.M.

Collected by D. C. Graham.

PYGAERA HILDORA, new species

Female.—Palpi and frons russet faintly mottled with whitish hairs. Vertex and collar medially velvety mars brown; collar laterally, thorax and abdomen drab. Fore wing drab, finely irrorated with prout's brown, the lines pale drab gray; antemedial and medial lines parallel, slightly outbent; reniform spot defined by a pale drab gray line down and outbent to vein 1, then upturned to vein 4, very indistinct; postmedial line from subcostal oblique to near vein 3, then rounded and inbent to inner margin, the space beyond to apex and termen above vein 3 raw umber. Hind wing buffy hair brown.

Expanse 44 mm.

Habitat.—Luzon, Philippine Islands.

Type.—Cat. No. 33450, U.S.N.M.

