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XXIX.—Descriptions of new Pyralidæ of the subfamily Pyraustinæ

Sir George F. Hampson Bart. F.Z.S.
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scarcely diminish behind, the suture slightly elevated behind, and the posterior declivity steep.

Length $5\frac{1}{2}$ – $6\frac{1}{4}$ mm., breadth $2\frac{1}{2}$ –3 mm.

INDIA: Dehra Dun, United Provinces (*Ollenbach*); Pusa (Pusa Coll.); and Chota Nagpur, Bengal (*Cardon*).

Dedicated to Prof. Dr. Yngve Sjöstedt, of Stockholm, to whom I have been indebted for the loan of numerous types in the past.

XXIX. — *Descriptions of New Pyralidæ of the Subfamily Pyraustinae.* By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

[Continued from p. 136.]

(33 b) *Lamprosema inglorialis*, sp. n.

Head, thorax, and abdomen pale grey-brown; palpi blackish, whitish in front towards base and the 3rd joint whitish; pectus, legs, and ventral surface of abdomen white tinged with brown. Fore wing pale grey-brown faintly tinged with reddish and irrorated with darker brown; an indistinct curved dark antemedial line; a narrow blackish discoidal lunule; a slight dark terminal line; cilia grey-brown with a fine whitish line at base. Hind wing pale grey-brown faintly tinged with reddish and irrorated with darker brown; a slight dark terminal line; cilia pale grey-brown with a fine whitish line at base; the underside white tinged with brown.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 1 ♂, 1 ♀ type. *Exp.* 26 mm.

(38 a) *Lamprosema hottentota*, n. n.

Nacoleia fusalis, Hmps. A. M. N. H. (8) ix. p. 442 (1912); nec *Thysanodesma fusalis*, Warr. A. M. N. H. (6) xvii. p. 142 (1896).

Hab. CAPE COLONY.

(40 a) *Lamprosema svezeyi*, n. n.

Omiodes meyricki, Svezey, Honolulu Sugar Planters' Bull. v. p. 24, fig. (Aug. 1907); nec *Merotoma meyricki*, Swinh. (Jan. 1907).

Hab. HAWAII.

(46 a) *Lamprosema lateritialis*, sp. n.

Head, thorax, and abdomen yellow tinged with rufous; palpi white in front at base; pectus, legs, and ventral surface of abdomen

white tinged with fulvous yellow. Fore wing fulvous yellow, the inner half tinged with brown, the terminal half suffused with grey-brown; antemedial line rather diffused, brown, oblique, arising below the costa; a small brown spot in upper part of middle of cell and discoidal bar; postmedial line rather diffused brown defined on outer side by yellowish, excurved to above vein 2, then retracted to lower angle of cell and excurved above inner margin; cilia whitish at tips. Hind wing fulvous yellow tinged with brown, the costal area white to beyond middle, the inner area whitish, the terminal area suffused with brown except towards tornus; an oblique brown discoidal bar; postmedial line rather diffused brown, arising below costa, oblique to above vein 2, then retracted to lower angle of cell, then oblique to submedian fold where it terminates; cilia whitish at tips.

Ab. 1. More suffused with brown; fore wing with the costal area yellowish, narrowing to the costal edge towards base.

Hab. BR. C. AFRICA, Mt. Mlanje (*Neave*), 5 ♂, 5 ♀ type. *Exp.* 26–30 mm.

Pupæ in colonies in silken cocoons in rolled up leaves.

(57 b) *Lamprosema chrysanthalis*, sp. n.

Head, thorax, and abdomen dark brown mixed with some greyish, the last with yellow dorsal patches except at base and extremity; antennæ ringed with yellow; palpi yellow at base and with yellow ring at extremity of 2nd joint; pectus, legs, and ventral surface of abdomen pale yellowish white, the fore tibiæ with black-brown bands at base and extremity. Fore wing golden yellow; the basal area dark brown mixed with some greyish; small obliquely placed yellow subbasal spots in and below the cell; antemedial line black-brown with some yellow before and beyond it on the costa and defined on inner side by yellow below the cell, excurved to median nervure and above inner margin and incurved in submedian interspace; the medial area with some dark brown suffusion below costa conjoined to a large black-brown discoidal spot filled in with leaden grey and with its upper extremity produced and a spot beyond its lower extremity; postmedial line black-brown, incurved below costa, then waved to vein 5, then excurved to vein 2 on which it is retracted to below end of cell, angled outwards at submedian fold and oblique to inner margin; the terminal area with a large irregular black-brown patch from costa to vein 4, its inner edge dentate to the postmedial line beyond which it encloses yellow spots, its outer edge incurved and enclosing a yellow patch on termen between veins 7 and 5, a short subterminal streak on vein 3 and a bar from the postmedial line at vein 2 to inner margin; a terminal series of black-brown bars; cilia intersected by black-brown bars at and below apex, at veins 4 and 3, and with spots at base at veins 2 and 1. Hind wing golden yellow; a black-brown discoidal

spot and spot at middle of inner margin; a diffused spot beyond lower angle of cell conjoined to the black-brown postmedial line, which is excurved below costa, bent inwards between veins 6 and 5, excurved to vein 2 where it is retracted with an upwards curve to below end of cell, excurved at submedian fold and ending at vein 1 above a black-brown patch irrorated with greyish rather beyond it on the inner margin and cilia; a black-brown subterminal band from costa to vein 5, above which it expands into a patch, then oblique to termen at vein 4; a curved mark from vein 2 before termen to termen at vein 1, its outer edge rather dentate; a rather lunulate black-brown terminal line, reduced to spots towards apex; cilia with a series of small black-brown spots at base, intersecting them at veins 4 to 2.

Ab. 1. Head and thorax red-brown mixed with some whitish; abdomen yellow suffused with red-brown and with dark segmental lines; fore wing with the markings red-brown, the basal inner area only red-brown at base, the antemedial line excurved below median nervure, the discoidal spot with hardly a tinge of grey on it, the subterminal patch on apical half not dentate to the postmedial line; hind wing with the markings red-brown.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 6 ♂, 2 ♀ type. *Exp.*, ♂ 28-30, ♀ 38 mm.

(59 a) *Lamprosema flavizonalis*, sp. n.

♀. Head, thorax, and abdomen dark reddish brown, the head with some yellow on vertex, the two basal segments of abdomen golden yellow; palpi white towards base; pectus, legs, and ventral surface of abdomen yellowish white. Fore wing glossy dark reddish brown with a very broad golden yellow postmedial band, its inner edge bent inwards at inner margin to near the antemedial line; the antemedial line black-brown defined on inner side by a narrow yellow band, from subcostal nervure to inner margin; a diffused yellow spot in end of cell. Hind wing golden yellow; some brown at base; the terminal area glossy dark reddish brown, its inner edge incurved below discal fold and with dark point before it on vein 1; cilia white and brown.

Hab. DUTCH N. GUINEA, Fak-fak (*Pratt*), 1 ♀ type. *Exp.* 30 mm.

(70 c) *Lamprosema cervinicosta*, sp. n.

Head white tinged with rufous, the frons browner, the palpi rufous; thorax and abdomen pure white; fore tibiae grey-brown at base and extremity. Fore wing silvery white; the costal area pale grey-brown, leaving the costal edge white on medial area; the terminal area pale grey-brown narrowing to a point at tornus; antemedial line slight, brown and curved from the costal area to

vein 1; a small dark brown discoidal lunule; postmedial line grey-brown, bent outwards between veins 5 and 2, then almost obsolete and retracted to lower angle of cell, then slight and obliquely excurved to vein 1; cilia pale reddish brown with a fine whitish line at base. Hind wing silvery white; a slight grey-brown discoidal bar; postmedial line grey-brown, bent outwards between veins 5 and 2, then almost obsolete and retracted to below angle of cell and faint to vein 1; a rather diffused grey-brown terminal line except towards tornus.

Hab. COLOMBIA, Choko, Juntas of R. Tamana and R. San Juan (*Palmer*), 1 ♂ type, R. Tamana, El Tigre (*Palmer*), 1 ♀. *Exp.*, ♂ 32, ♀ 28 mm.

(70d) *Lamprosema griseicosta*, sp. n.

♂. Head white tinged with rufous; thorax silvery white with black-brown bars on the shoulders; abdomen white tinged with rufous; palpi black-brown, white tinged with rufous in front, the 3rd joint whitish; pectus, legs, and ventral surface of abdomen whiter, the fore tibiæ with grey-brown band at extremity. Fore wing silvery white, the costal area grey-brown; a faint brown antemedial line from cell to vein 1; a curved dark brown discoidal striga; postmedial line slight, grey-brown with a blackish bar at costa, slightly angled inwards at vein 7, bent outwards and waved from vein 5 to below vein 3, then retracted to below angle of cell and excurved at submedian fold; a grey-brown terminal line. Hind wing silvery white; a pale grey-brown postmedial line, bent outwards and slightly waved from vein 5 to below vein 3, then retracted to below angle of cell and oblique to above tornus; a grey-brown terminal line except towards tornus.

Hab. PERU, Carabaya, Oconeque (*Ockenden*), 2 ♂ type, San Domingo (*Ockenden*), 1 ♂. *Exp.* 26-28 mm.

(70f) *Lamprosema rufilinealis*, sp. n.

♂. Head, thorax, and abdomen white tinged with rufous, the last with the anal segment black except the extremity of the anal tuft; palpi dark brown, white in front and with the extremity of the 3rd joint white; pectus, legs, and ventral surface of abdomen white, the fore tibiæ with dark band at extremity. Fore wing white, the costal area narrowly and the terminal area broadly pale brownish rufous; antemedial line brown tinged with rufous, erect; a brown discoidal bar tinged with rufous; postmedial line brown tinged with rufous, slightly bent outwards between veins 5 and 3, then bent inwards to lower angle of cell and erect to inner margin; cilia reddish brown and whitish with a whitish line at base. Hind wing white, the terminal area pale brownish rufous, broadly at

costa, narrowing to tornus; a reddish brown discoidal bar; post-medial line reddish brown, at vein 3 retracted and almost obsolete to lower angle of cell, then oblique to tornus; a dark brown terminal line; cilia whitish at base, with dark brown line at middle and white tips.

Hab. ECUADOR, Zamora, 1 ♂ type. *Exp.* 28 mm.

(70 h) *Lamprosema monocamptalis*, sp. n.

♂. Head, thorax, and abdomen silvery white faintly tinged in parts with pale red-brown, the last with black-brown band before the anal tuft on which there are lateral black-brown streaks; palpi pale red-brown, white at base; fore tibiae with brown band near extremity. Fore wing silvery white faintly tinged with pale red-brown, the costal area pale red-brown leaving the costal edge white on medial area; antemedial line red-brown, erect and almost straight; a red-brown discoidal bar; postmedial line red-brown, slightly bent outwards from vein 5 to above 2, then retracted and almost obsolete to lower angle of cell, then erect to inner margin; a rather diffused red-brown terminal line; cilia white tinged with red-brown and with red-brown line near base. Hind wing white faintly tinged with pale red-brown; a red-brown discoidal bar; postmedial line red-brown, almost straight to vein 2, then retracted and almost obsolete to lower angle of cell and oblique to tornus; a pale red-brown subterminal shade; a fine red-brown terminal line; cilia white tinged with red-brown at base and tips and with darker brown line near base.

Hab. COLOMBIA, Minca (*H. H. Smith*), 2 ♂ type, Don Amo (*H. H. Smith*), 2 ♂. *Exp.* 24–28 mm.

(73 a) *Lamprosema leuconephralis*, sp. n.

♀. Head white suffused with pale red-brown; thorax and abdomen silvery white; sides of frons and palpi black-brown, the latter silvery white below; pectus, legs, and ventral surface of abdomen white faintly tinged with pale red-brown; fore tibiae suffused with black-brown above. Fore wing silvery white, the costal area pale red-brown; antemedial line pale red-brown, from cell to inner margin; a small pale red-brown annulus in upper part of middle of cell; reniform white defined by pale red-brown; postmedial line pale red-brown, somewhat bent outwards and very slightly waved between veins 5 and 2, then retracted and obsolescent to lower angle of cell and slightly sinuous to inner margin; a diffused very pale red-brown patch on terminal area below apex, then a very pale red-brown terminal line; cilia white tinged with pale red-brown. Hind wing silvery white; a faint pale red-brown discoidal bar; postmedial line pale red-brown, slightly excurved at vein 5, then oblique and slightly sinuous to vein 2 near termen, then retracted and obsolescent to lower angle of cell and oblique to tornus; a

rather diffused pale red-brown terminal line and the cilia tinged with pale red-brown except towards tornus.

Hab. COLOMBIA, Choko, R. Siato, 1 ♀ type. *Exp.* 20 mm.

(78 a) *Lamprosema furcirenalis*, sp. n.

♀. Head, thorax, and abdomen whitish suffused with pale red-brown, the tegulæ dorsally and shoulders with black-brown stripes, the abdomen with small black subdorsal spots on 2nd segment; palpi white, the 2nd joint above and 3rd joint dark brown; pectus, legs, and ventral surface of abdomen white tinged with pale red-brown, the terminal half of fore tibiæ black. Fore wing whitish suffused with pale red-brown, the costal area dark reddish brown to end of cell; a minute black spot at base of vein 1; a red-brown subbasal bar from the costal area to submedian fold and a small black spot at inner margin; antemedial line black-brown, oblique to discal fold, then erect and slightly sinuous; a black-brown annulus in middle of cell and two discoidal bars approximated below; postmedial line black-brown, incurved from below costa to vein 5, then excurved to vein 2 where it is retracted to below angle of cell and oblique to inner margin; the terminal area suffused with red-brown to vein 4 and with slight red-brown shade from the postmedial line at vein 2 to inner margin; a black-brown terminal line. Hind wing whitish suffused with pale red-brown; a V-shaped black-brown discoidal mark with an oblique black-brown line from it to just above inner margin near tornus; postmedial line black-brown, slightly bent outwards at vein 5 and diffused from submedian fold to above tornus; a subterminal dark brown shade from below costa to vein 4; a black-brown terminal line.

Hab. CAPE COLONY, Bedford (*Mansell-Weale*), 1 ♀ type. *Exp.* 20 mm.

(85 b) *Lamprosema truncitornalis*, sp. n.

♂. Head, thorax, and abdomen yellow tinged with red-brown and slightly irrorated with fuscous; antennæ ringed with black; frons at side and palpi black-brown, the latter with the basal half white; pectus, legs, and ventral surface of abdomen white faintly tinged with rufous, the fore tibiæ and tarsi banded black and white. Fore wing yellow tinged with red-brown and irrorated with fuscous; some black on base of costa, some spots on terminal half of costa, and a subbasal spot below costa; antemedial line blackish, waved; a blackish annulus in middle of cell; reniform defined by black except below, its lower extremity produced with some blackish irroration below it; postmedial line blackish, incurved at discal fold, excurved between veins 5 and 2, then retracted to below angle of cell and excurved to inner margin; a slight subterminal blackish shade from costa to vein 5; a terminal black line, a line

near base of cilia and the tips of cilia blackish to vein 4. Hind wing with the tornus truncate; yellow tinged with red-brown and irrorated with fuscous; a rather diffused blackish antemedial line arising at upper angle of cell; postmedial line blackish, excurved between veins 5 and 2 and diffused towards tornus; a blackish subterminal shade from costa to vein 3; a black terminal line and line near base of cilia from apex to vein 2.

Hab. QUEENSLAND, Brisbane, Taylor Range (*Dodd*), 1 ♂ type. *Exp.* 14 mm.

(94 b) *Lamprosema strigivenalis*, sp. n.

♂. Head and thorax whitish tinged with ochreous and fuscous, the patagia with black streak; abdomen whitish suffused with fuscous, leaving pale segmental lines, the anal tuft with dorsal and subdorsal blackish streaks; antennae whitish tinged with fuscous, the basal joint black; palpi ochreous white with blackish marks at sides of 1st and 2nd joints; pectus, legs, and ventral surface of abdomen ochreous white, the fore coxae with black spots, the mid femora and tibiae with black spots and the tarsi ringed black and white. Fore wing whitish suffused with ochreous; the costal edge black towards base and a black spot at base of cell; a subbasal black spot on inner margin; antemedial line blackish with a black spot at costa, excurved at median nervure and angled inwards at vein 1; a small rather elongate black annulus in middle of cell and rather irregular black discoidal spot conjoined to a spot on costa; a spot below end of cell; the veins beyond the cell streaked with black to the postmedial line, which is blackish with a black spot at costa, angled outwards at vein 6 and inwards at discal fold, then excurved to vein 3 on which it is retracted, then rather oblique and angled outwards at vein 1; the terminal area with a black spot on costa, rather triangular patch between veins 7 and 4, and patch from below vein 3 to tornus; a black terminal line; cilia chequered ochreous white and black. Hind wing whitish suffused with fuscous brown; a blackish terminal line; cilia whitish tinged with brown and with brown line near base.

Hab. ECUADOR, Queredo, 1 ♂ type. *Exp.* 16 mm.

(95 a) *Lamprosema niposemalis*, sp. n.

♂. Head, thorax, and abdomen brown with a cupreous gloss, the last with the anal segment and tuft white tinged with red-brown, the anal segment dilated and flattened and the genital tufts large; palpi white in front to near extremity of 2nd joint; pectus, legs, and ventral surface of abdomen ochreous white, the fore and mid legs suffused with ochreous brown, the fore femora blackish above, the tibiae black on terminal half and the tarsi banded with blackish. Fore wing brown with a cupreous gloss; antemedial line indistinct, brown, sinuous; a small white spot defined by dark brown in upper

part of middle of cell and white discoidal lunule defined by dark brown; postmedial line white defined on inner side by dark brown, excurved at vein 6 and from vein 5 to 2, then retracted and erect to inner margin; cilia white tinged with cupreous brown. Hind wing brown with a cupreous gloss, whitish towards base; a brown discoidal bar and line from below angle of cell to inner margin; postmedial line brown, incurved at discal fold, then oblique and ending on vein 2 near termen; a waved brown terminal line; cilia whitish suffused with cupreous brown.

Hab. BR. N. GUINEA, Mailu (*Anthony*), 1 ♂ type. *Exp.* 16 mm.

(97 c) *Lamprosema ædiproctalis*, sp. n.

♂. Head fuscous brown; thorax and abdomen whitish suffused with red-brown, the latter with the anal segment dilated; palpi, pectus, legs, and ventral surface of abdomen white tinged with brown, the fore tibiæ black above and the tarsi banded black and white. Fore wing whitish suffused with brown, the veins slightly streaked with brown and the costal edge black; an indistinct diffused brown subbasal line; antemedial line brown, excurved below median nervure and bent outwards to inner margin; a brown annulus in middle of cell and whitish discoidal lunule defined by dark brown; postmedial line dark brown defined on outer side by whitish, excurved at vein 7, incurved at discal fold, then excurved to vein 2, then obsolescent and retracted upwards to beyond lower angle of cell and excurved at vein 1; the terminal area with a brown shade to vein 3 and spot above tornus; a dark brown terminal line to vein 2; cilia white at base, then pale brown, chequered with white towards tornus. Hind wing white tinged with brown; a sinuous dark brown line from upper angle of cell to inner margin; postmedial line rather diffused brown, incurved at discal fold, excurved at vein 5, and ending at tornus; a brown terminal shade, broad at costa and ending at vein 2; cilia white, chequered with brown except at base.

Hab. SOLOMON Is., Rendova I. (*Meek*), 1 ♂ type. *Exp.* 18 mm.

(97 e) *Lamprosema platyproctalis*, sp. n.

♂. Head, thorax, and abdomen reddish brown mixed with white, the last with white segmental bands, the anal segment whitish, dilated and flattened, the genital tufts ochreous white; antennæ ringed with blackish; pectus, legs, and ventral surface of abdomen white, the legs banded with brown. Fore wing white irrorated with red-brown, the costal area suffused with red-brown; a red-brown subbasal shade; a blackish antemedial bar from costa; a red-brown medial shade; a white discoidal lunule defined by rather diffused red-brown; a diffused red-brown patch beyond lower angle of cell; the terminal part of costa with blackish spots with white

between them; postmedial line red-brown, excurved from discal fold to vein 2, then retracted to below angle of cell and excurved to inner margin, some diffused red-brown before it below costa; the terminal area with red-brown shade to vein 3, small spot above vein 2, and diffused spot at tornus; a waved dark terminal line to vein 2; cilia chequered red-brown and white. Hind wing white tinged with red-brown; a red-brown terminal line; cilia white chequered with red-brown to vein 2.

Hab. Ké Is. (Kühn), 1 ♂ type. *Exp.* 16 mm.

(97 g) *Lamprosema flaviterminalis*, sp. n.

♂. Head whitish tinged with red-brown, some orange-red on vertex; thorax and abdomen bright red-brown, the latter with the anal segment whitish tinged with red-brown; palpi dark brown, white in front and the 3rd joint white; pectus, legs, and ventral surface of abdomen white, the legs tinged with red-brown. Fore wing glossy bright red-brown, the termen narrowly and cilia yellowish tinged with rufous. Hind wing glossy bright red-brown, a terminal band and the cilia yellowish tinged with rufous.

Hab. PERU, R. Pacaya, 1 ♂ type. *Exp.* 20 mm.

(16 a) *Sylepta disciselenalis*, sp. n.

♂. Head, thorax, and abdomen glossy grey-brown; palpi white in front to near extremity of 2nd joint; pectus, legs, and ventral surface of abdomen white, the legs tinged with brown. Fore wing glossy grey-brown; a small pure white discoidal lunule; a white postmedial bar from vein 8 to discal fold formed by three conjoined spots, then an indistinct dark line slightly defined on outer side by whitish, excurved to below vein 3, then retracted to lower angle of cell, and excurved above inner margin; cilia with a fine whitish line at base. Hind wing glossy grey-brown; a small white postmedial spot at discal fold, then an indistinct dark postmedial line faintly defined on outer side by whitish, slightly bent outwards between veins 5 and 2, then bent inwards to below end of cell and somewhat excurved to inner margin; cilia with a fine white line at base and whitish tips.

Hab. BR. C. AFRICA, Mt. Mlanje (Neave), 3 ♂ type. *Exp.* 28 mm.

(50 c) *Sylepta molybdopasta*, sp. n.

♂. Grey-brown with a leaden gloss, the vertex of head with a rufous tinge; palpi rather darker brown, whitish at tips; pectus, legs, and ventral surface of abdomen with a whitish tinge. Fore wing glossy grey-brown; a dark discoidal bar; postmedial line indistinct, brown faintly defined on outer side by whitish, excurved and very slightly waved from vein 6 to 2, then retracted to below angle of cell and erect to inner margin; cilia with a fine white line

at base. Hind wing glossy grey-brown, the cilia with a fine white line at base.

Hab. BISMARCK ARCH., Rook I. (*Meek*), 1 ♂ type. *Exp.* 38 mm.

(50 d) *Sylepta subcyanealba*, sp. n.

♂. Head, thorax, and abdomen dark glossy brown; palpi white at base; pectus, legs, and ventral surface of abdomen white, the legs tinged with brown, the fore tibiæ brown except at extremity. Fore wing very dark brown glossed with purple; a faint rather diffused dark antemedial line; an indistinct dark discoidal bar; postmedial line faint, dark and rather diffused, erect to vein 3, then retracted to below end of cell and erect to inner margin; a slight pale line at base of cilia. Hind wing very dark brown glossed with purple; traces of a dark discoidal spot and diffused postmedial line; a slight pale line at base of cilia. Underside of fore wing with the basal area white tinged with blue except at costa; hind wing white tinged with blue, the terminal area brown to vein 3, the cilia brown.

♀. Much paler and greyer brown, the wings with the markings more distinct.

Hab. CAMEROONS, Ja R., Bitje (*Bates*), 5 ♂, 5 ♀ type. *Exp.* 38 mm.

(50 h) *Sylepta crenilinealis*, sp. n.

♀. Head, thorax, and abdomen pale rufous, the last with slight brown segmental lines except at base; pectus and legs white, the legs tinged with rufous, the fore femora blackish above, the tibiæ with black band at extremity, the tarsi ringed with black; ventral surface of abdomen white banded with rufous. Fore wing pale rufous; antemedial line black, obsolescent at costa, oblique and sinuous to submedian fold, incurved at vein 1 and oblique to inner margin; a small black spot in upper part of middle of cell and elliptical discoidal spot; postmedial line black, crenulate to below vein 3, then retracted to below angle of cell and excurved below submedian fold; the terminal area darker reddish brown; cilia with a whitish line at base, the tips dark brown. Hind wing white tinged with rufous, the terminal area pale reddish brown, narrowing to a point at submedian fold; a small dark spot at lower angle of cell; postmedial line dark, waved to vein 5, then bent outwards and crenulate to above vein 2, on which it is retracted, then excurved to above tornus; a black-brown terminal line; cilia white at base, chequered black-brown and whitish at tips.

Hab. DUTCH N. GUINEA, Snow Mts., Oetakwa R. (*Meek*), 1 ♀ type. *Exp.* 40 mm.

(51 a) *Sylepta grisealis*, sp. n.

♂. Head, thorax, and abdomen grey tinged with brown, a dorsal black patch on anal segment, the anal tuft white with subdorsal

black streaks; palpi white towards base; pectus, legs, and ventral surface of abdomen white, the femora and tibiæ tinged with brown, the fore tibiæ with blackish band at extremity. Fore wing grey tinged with brown; a slightly curved blackish antemedial line; a narrow black discoidal lunule; postmedial line blackish, slightly bent outwards and waved from vein 5 from above 2, then retracted to below angle of cell and slightly sinuous to inner margin; cilia whitish tinged with brown and with a blackish line at base. Hind wing grey tinged with brown; an oblique black discoidal bar; postmedial line blackish, bent inwards and almost obsolete on vein 2, then oblique to tornus; cilia whitish tinged with brown and with a blackish line at base. Underside white, the fore wing tinged with brown except on inner area.

Hab. PERU, La Mercede, Chanchamayo (*Watkins*), 1 ♂ type. *Exp.* 32 mm.

[To be continued.]

PROCEEDINGS OF LEARNED SOCIETIES.

GEOLOGICAL SOCIETY.

December 5th, 1917.—Dr. Alfred Harker, F.R.S., President, in the Chair.

A Demonstration on the Application of X-Rays to the Determination of the Interior Structure of Microscopic Fossils, particularly with reference to the Dimorphism of the Nummulites, was given by E. Heron-Allen, F.L.S., F.G.S., Pres.R.M.S., and J. E. Barnard, F.R.M.S.

Mr. HERON-ALLEN said that in the year 1826 Alcide d'Orbigny published among the innumerable, and for many years unidentified, nomina nuda that compose his 'Tableau Méthodique de la Classe Céphalopodes' the name *Rotalia dubia*. This species was left untouched by Parker & Jones in their remarkable series of articles 'On the Nomenclature of the Foraminifera.' The French naturalist G. Berthelin was the first investigator to unearth and make use of the 'Planches inédites' which had been partly completed by d'Orbigny for the illustration of his great work upon the Foraminifera, a work that was never published. Working with Parker & Jones's paper, Berthelin made for his own use careful tracings of 246 of A. d'Orbigny's unfinished outline-sketches. These sketches were never elaborated by d'Orbigny upon the 'Planches,' which are still preserved in the Laboratoire de Paléontologie under the care of Prof. Marcellin Boule; among them was found the sketch of *Rotalia dubia*. On the death of Berthelin the tracings passed into the possession of Prof. Carlo Fornasini of Bologna, who reproduced them all in a valuable series of papers published between the years 1898 and 1908. Fornasini's opinion