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LIST

OF THE

SPECIMENS

OF

HOMOPTEROUS INSECTS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

7.10.1850

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PART I.

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PRINTED BY ORDER OF THE TRUSTEES.

LONDON, 1850.

LONDON :  
PRINTED BY EDWARD NEWMAN,  
9, DEVONSHIRE ST., BISHOPSGATE.

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## INTRODUCTION.

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THE principal object of the present Catalogue has been to give a complete list of the specimens of Homopterous Insects contained in the collection of the British Museum, indicating at the same time the peculiarities of each, as regards variation of character, locality, and the source from whence it has been derived. With this view, the different individuals of each species contained in the collection are indicated by the letters *a*, *b*, *c*, &c., following the name of the species and its synonymes, and the description, if it appeared to have been before undescribed.

This part of the Catalogue of Homopterous Insects has been prepared and the new species described by Mr. FRANCIS WALKER, so well known for his attention to this order of Insects.

The remaining part, containing the other families, is in hand, and will follow as soon as it can be completed.

JOHN EDWARD GRAY.

*British Museum,*

*Oct. 15th, 1850.*





LIST  
OF  
HOMOPTEROUS INSECTS.

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Order I. CICADINA.

Cicadina, *Burmeister, Handb. Ent.* ii. 1, 99.

Fam. I. STRIDULANTIA.

Stridulantia, *Burm. Handb. Ent.* ii. 1, 170.

*Note.*—The fore-wing of nearly all the species in this family contains sixteen areolets, which Germar distinguishes by the following names:—one primitive areolet; one front areolet; six discoidal areolets; and eight marginal areolets. The flap is at the base of the hind border of the hind wing, and can be folded beneath. In the fore-wing there is a small corresponding part which I have named the fore-flap, but it does not fold. The first cross-vein forms the base of the second marginal areolet, and the second forms the base of the third; the third forms the base of the fifth, the fourth of the seventh, and the fifth of the eighth. The angles mentioned are outward, and are formed by the base of each cross-vein.

Genus 1. POLYNEURA.

Polyneura, *Westwood, Arc. Ent.* 1842, 92.

## 1. POLYNEURA DUCALIS.

*Polyneura ducalis*, *Westw. Arc. Ent.* 1842, 92, pl. 24, f. 2. *Amyot et Serr. Hist. Nat. Ins. Hém.* 460, 1.

*a.* Nepaul. Presented by General Thos. Hardwicke.

*b—d.* ?

## Genus 2. PYCNA.

*Pycna*, *Amyot et Serr. Hist. Nat. Hém.* 463, 361.

## 1. PYCNA STRIX.

*Pycna strix*, *Amyot et Serr. Hist. Nat. Hém.* 463, 1.

*Cicada stryx*, *Brull. Regn. Anim.* pl. 95, f. 1.

*Hab.*——— ?

## Genus 3. PLATYPLEURA.

*Platypleura*, *Amyot. et Serr. Hist. Nat. Hém.* 465, 364.

## 1. PLATYPLEURA STRIDULA.

*Platypleura stridula*, *Amyot. et Serr. Hist. Nat. Hém.* 466, 1.

*Cicada stridula*, *Linn. Syst. Nat.* i. 2, 706, 12. *Mus. Lud. Ulr.* 157, 4. *Oliv. Enc. Méth.* v. 751, 22, pl. 112, f. 2. *Gmel. Ed. Syst. Nat.* i. 3, 2096, 12. *Germ. Thon. Arch.* ii. 2, 19. *Silb. Rev. Ent.* ii. 76, 54. *Burm. Handl. Ent.* ii. 1, 179, 1. *Blanch. Hist. Nat. Ins.* iii. 165, 3.

*C. catenata*, *Drury, Ins.* ii. pl. 27, f. 2.

*C. nigrolinea*, *Deg. Ins.* iii. 219, 15, pl. 33, f. 1.

*Scarabæus volans*, *Seba, Thes.* ii. 23, pl. 2, f. 5.

*Tettigonia Stridula*, *Fabr. Syst. Ent.* 679, 8. *Sp. Ins.* ii. 320, 9. *Mant. Ins.* ii. 266, 13. *Ent. Syst.* iv. 21, 26. *Syst. Rhyn.* 38, 23.

*a—b.* South Africa. Presented by Dr. A. Smith.

*h—m.* Cape. Presented by R. W. Townsend, Esq.

*n.* Cape. Presented by J. G. Children, Esq.

*o.* South Africa. Presented by G. F. Angas, Esq.

*p, q.* Natal. From Dr. Krauss' collection.

*r, s.* Cape. From M. Dregé's collection.

## 2. PLATYPLEURA HIRTIPENNIS.

*Cicada hirtipennis*, *Germ. Silb. Rev. Ent.* 80, 57, f. 25. Perhaps a variety of *P. stridula*.

## 3. PLATYPLEURA CAPENSIS.

*Platypleura capensis*, *Amyot. et Serv. Hist. Nat. Hém.* 466, 2.  
*Cicada capensis*, *Linn. Syst. Nat.* i. 2, 706, 13. *Mus. Lud. Utr.* 158.  
 2. *Sulz. Hist. Ins.* pl. 9, f. 8. *Petiv. Gaz.* vii. pl. 4, f. 1.  
*Oliv. Enc. Méth.* v. 751, 23, pl. 112, f. 5. *Stoll, Cic.* 27, pl.  
 3, f. 15. *Gmel. Ed. Syst. Nat.* i. 3, 2097, 13.

*a, b.* South Africa. Presented by Dr. A. Smith.  
*c—e.* Natal. From Dr. Krauss' collection.  
*f—h.* Cape. From M. Gueinzus' collection.  
*i, j.* South Africa. From Mr. Argent's collection.

## 4. PLATYPLEURA DIVISA.

*Cicada divisa*, *Germ. Silb. Rev. Ent.* 80, 56, f. 25. Perhaps a variety of *P. capensis*.

## 5. PLATYPLEURA OCELLATA.

*Cicada ocellata*, *Deg. Ins.* iii. 220, pl. 33, f. 1. *Oliv. Enc. Méth.* v.  
 751, 21, pl. 112, f. 3.  
*Cicada ciliaris*, *Linn. Syst. Nat.* 706, 8. *Mus. Lud. Utr.* 155.  
*Oliv. Enc. Méth.* v. 757, 52. *Rumph. Herb.* iii. 210, pl. 135.  
*Germ. Thon. Arch.* ii. 2, 18. *Silb. Rev. Ent.* ii. 78, b.

*a—c.* South Africa. Presented by the Earl of Derby.  
*d—g.* South Africa. Presented by Dr. A. Smith.  
*h* ———? Presented by J. G. Children, Esq.

## 6. PLATYPLEURA PLUMOSA.

*Cicada plumosa*, *Germ. Silb. Rev. Ent.* ii. 81, 58, f. 26. Perhaps a variety of *P. ocellata*.

## 7. PLATYPLEURA AFFINIS.

*Tettigonia affinis*, *Fabr. Syst. Rhyn.* 37, 22.  
*Cicada affinis*, *Germ. Thon. Arch.* ii. 2, 6. *Silb. Rev. Ent.* ii. 79, d.

## 8. PLATYPLEURA DECORA.

*Cicada decora*, *Germ. Silb. Rev. Ent.* ii. 79, 552, f. 4. *Stoll, Cic.* 39, pl. 7, f. 37.

First cross-vein straight, very slanting, forming a very obtuse angle, parted from the second by thrice its length; second nearly straight, very slanting, forming a very obtuse angle, much longer than the first; third nearly straight, slightly slanting, forming a slightly acute angle; fourth slightly curved, slightly slanting, forming a very slightly acute angle, longer than the third; fifth curved, forming a nearly right angle.

*a.* Cape? From Mr. Shuckard's collection.

## 9. PLATYPLEURA PHALENOIDES, Mas. et Fem.

*Nervus transversus 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens; 2us subcurvus aut subundatus, valdè obliquus, angulum valdè obtusum fingens; 3us subundatus aut subcurvus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o plus minusve brevior.*

Second marginal areolet full five-sixths of the length of the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by more than thrice its length; second, very slightly curved, very slanting, forming a very obtuse angle, nearly twice the length of the first; third very slightly waved, slanting, forming an acute angle; fourth very slightly curved, slanting, forming a slightly acute angle, much shorter than the third; fifth curved abruptly to the hind border, forming a slightly acute angle.

*Var. β.* First cross-vein parted from the second, by nearly four times its length; fourth slightly waved, very little shorter than the third.

*Var. γ.* First cross-vein parted from the second by little more than twice its length; second very little longer than the first.

*Var. δ.* First cross-vein parted from the second by full five times its length; second about thrice the length of the first; fourth hardly shorter than the third.

*Var. ε.* Second cross-vein slightly waved, a little longer than the first.

*Var. ζ.* Third cross-vein straight with the exception of a slight curve in front.

*Var. η.* First cross-vein parted from the second by six times its

length; second very slightly waved, near four times the length of the first.

The preceding varieties may be distinct species.

*Male*.—Body green, more or less tinged with tawny, covered with whitish down, clothed with black hairs above, with whitish hairs beneath; head much narrower than the fore-chest, adorned with a black irregular band which sends forth towards the hind border a black stripe, on each side of which there is a black spot; face very slightly convex, adorned on each side in front with black bands: mouth yellow with a black tip, extending a little beyond the hind lips: feelers black; first joint tawny: eyes not prominent: fore-chest broadest in the middle: scutcheon adorned with five stripes, the middle one much widened behind, the two side pairs oblique: hind scutcheon broad, very slightly furrowed, adorned with a small black spot on the fore-border, slightly widened, and forming a black angle on each side which bends upward: scutcheon of the middle chest adorned with four obconical black stripes: inner pair hardly half the length of the outer pair, succeeded by a dart-shaped mark which sends forth a black band on each side: a black band on each side nearer the tip; hind border very slightly excavated: abdomen hardly longer than the chest, adorned with a white patch on each side near the tip which is tawny; hind borders of the segments more or less tawny: opercula pitchy, close; drums rather large, black with tawny borders, more than one-third of the length of the abdomen, slightly overlapping: legs tawny; thighs adorned with pitchy streaks; knees partly black; claws black, tawny at the base; fore-thighs armed with two very short and blunt black teeth: fore-wings dark brown, covered with white shining down, varied with tawny towards the base, and towards the tip with colourless marks and bands which are variable in size and shape; veins tawny, green towards the base; hind wings deep tawny, dark brown towards the border, which is colourless; veins pale tawny; flaps dark brown.

*Fem*.—Black marks on the head smaller and more distinct than those of the male: feelers tawny; second joint black: drums very small, very far apart: oviduct ferruginous.

Length of the body 9—12 lines; of the wings 31—39 lines.

- a.* North Bengal. From Miss Campbell's collection.
- b, c.* Silhet. From the Rev. J. Stamford's collection.
- d, e.* North India. From Mr. Warwick's collection.
- f.* Assam. From Mr. Warwick's collection.
- g.* Java? From Mr. Leadbeater's collection.
- h, i.* Silhet. From Mr. Sowerby's collection.
- j, k.* ———?

## 10. PLATYPLEURA HILPA, Mas. et Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o ejus longitudine plus triplo divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens; 1o multo longior; 3us curvus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o brevior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by more than thrice its length; second slightly curved, slanting, forming a very obtuse angle, very much longer than the first; third curved, slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, shorter than the third; fifth curved, upright, forming a slightly acute angle: the two cross-veins above it are distinct. Body of the male tawny; of the female dark tawny: head narrower than the fore chest; a broad irregular black band across the crown: face slightly convex, adorned with black bands: mouth black, reaching the hind-hips: eyes not prominent: feelers black: hind-scutcheon of the fore-chest broad, not widened at the base of each fore-wing, rounded and pitchy on each side: scutcheon of the middle-chest adorned with four broad black obconical stripes; the inner pair not more than half the length of the outer pair; between the latter there is a conical stripe, and behind them there are five black spots, two on each side of the middle one, which is angular and joins the conical stripe before mentioned; hind border slightly excavated: breast partly black: abdomen black, obconical, longer than the chest, tawny at the tip beneath: opercula and drums of the male tawny, the former rather large: legs very dark tawny; claws black towards the tips: fore-thighs without teeth: wings of the male paler than those of the female; fore-wings nearly colourless, dark tawny towards the base, adorned with four broad irregular brown bands, and along the hind border with two connected rows of brown spots: hind-wings dull tawny with two brown bands, the inner one broader than the other, but not extending more than half across the wing; flaps tawny. Length of the body 10 lines; of the wings 32 lines.

a, b. China. Presented by J. C. Bowring, Esq.

c. China.

## 11. PLATYPLEURA SIGNIFERA, Mus.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o ejus longitudine quadruplò divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o multò longior; 3us subundatus, valdè obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o paullò brevior.

Second marginal areolet full five-sixths of the length of the first: first cross-vein slightly curved, very slanting, forming a very obtuse angle, parted from the second by four times its length; second slightly curved, very slanting, forming a very obtuse angle, very much longer than the first; third slightly waved, very slanting, forming an acute angle: fourth slightly curved, slanting, forming a slightly acute angle, a little shorter than the third; fifth curved, forming a nearly right angle. Body black, powdered with white beneath and on the tip of the abdomen: head much narrower than the fore-chest, adorned on each side with a waved tawny band which has a tawny spot behind it; two small almost connected yellow spots on the face which is very slightly convex: mouth tawny with a black tip reaching nearly to the hind-hips: eyes not prominent: feelers black: fore-chest tawny, broadest in the middle; disk of the scutcheon mostly black; hind-scutcheon broad, widened and almost angular on each side, which bends very slightly upward and has a black border: sides, cross ridge and hind border of the scutcheon of the middle chest tawny; hind border hardly excavated: legs dark tawny, powdered with white; fore-shanks, fore-feet, and tips of the other feet black: fore-thighs armed with two very short and blunt black teeth; hind-shanks beset with tawny spines: fore-wings brown, partly gray, and feathered with brown, adorned with nine irregular colourless spots: hind borders colourless, slightly streaked with brown, and communicating with a parallel row of semicircular colourless spots; veins black, partly tawny; hind-wings tawny, dark brown on one-third of the surface towards the borders, which are whitish with a row of small pale brown marks near the brown part; the latter is adorned with a colourless spot in each wing; veins tawny, partly black. Length of the body 9 lines: of the wings 27 lines.

a. South Africa. Presented by Dr. A. Smith.

## 12. PLATYPLEURA VARIA.

*Cicada varia*, Oliv. *Enc. Méth.* v. 756, 44, pl. 113, f. 6. *Stoll, Cic.*  
102, pl. 26, f. 147. *Germ. Silb. Rev. Ent.* ii. 79, f.

a. Cape. From M. Dregé's collection.

b. Natal. From M. Gueinzus' collection.

c. ———?

## 13. PLATYPLEURA CHLORONOTA, Fem.

*Nerrus transversus* 1us subrectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subrectus, perobliquus, angulum perobtusum fingens, 1o multò longior; 3us undatus, subobliquus, angulum rix acutum fingens; 4us subrectus, subobliquus, angulum rix acutum fingens, 3o longior.

Second marginal areolet full five-sixths of the length of the first: first cross-vein nearly straight, very slanting, forming a very obtuse angle, parted from the second by rather more than twice its length; second nearly straight, extremely slanting, forming an extremely obtuse angle, very much longer than the first; third waved, slightly slanting, forming a hardly acute angle: fourth nearly straight, slightly slanting, forming a hardly acute angle, longer than the third; fifth curved, forming a slightly acute angle. Body green: head narrower than the fore-chest, adorned with two waved black bands; face very slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers black: fore-chest broadest in the middle: scutcheon adorned with four black stripes, the middle pair curved towards each other, the side pair oblique; hind-scutcheon slightly widened and forming a very obtuse angle on each side: scutcheon of the middle-chest adorned with four obconical tawny spots which proceed from the fore border, and are more or less bordered and mottled with brown, the middle pair are shorter than the outer pair, and have a spot of the like hue behind them; hind border slightly excavated: abdomen obconical, longer than the chest, black above with the exception of a tawny stripe, which extends from the base to the middle, and is continued along the hind borders of the segments: drums very small, pale tawny, far apart: legs green; fore-thighs armed with three black teeth; hind-shanks beset with tawny spines: fore-wings gray mingled with green, tawny towards the tips; hind-wings pale tawny, with a broad white border which is divided by an irregular brown interval from the tawny part; flaps pale tawny. Length of the body 13 lines; of the wings 40 lines.

a. Port Natal. From M. Gueinzus' collection.



## 14. PLATYPLEURA FULVIGERA, Mas. et Fem.

*Nervus transversus* 1us subrectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus quadruplo ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o ferè duplò longior; 3us subcurvus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet nearly as long as the first: first cross-vein nearly straight, very slanting, forming a very obtuse angle, parted from the second by more than four times its length; second nearly straight, very slanting, forming a very obtuse angle, nearly twice the length of the first; third slightly curved, slanting, forming an acute angle; fourth slightly curved, slanting, forming an acute angle, very much longer than the third; fifth curved, forming an acute angle. Body tawny, with some black marks beneath: head much narrower than the fore-chest, adorned with two irregular tawny bands; face very slightly convex, adorned with black bands on each side in front: mouth tawny, with a black tip, reaching a little beyond the hind-hips: feelers black: eyes not prominent: fore-chest widest in the middle; furrows of the scutcheon black; hind-scutcheon adorned on the fore-border with two black dots, widened, black, and forming a slightly obtuse angle on each side: scutcheon of the middle-chest adorned with four obconical black marks, the outer pair partly tawny towards the base, the inner pair short, and having a dart-shaped mark between them; behind this there is a cross-shaped mark with a black dot, and a black band on each side of it; hind border hardly excavated: abdomen hardly longer than the chest; hind borders of the segments adorned with tawny bands, which are broadest beneath: opercula tawny, large, close; drums tawny, not apart, black at the base, less than half the length of the abdomen: legs tawny; knees and tips of the shanks and of the feet black; fore-thighs armed with black teeth; hind-shanks beset with tawny spines: wings tawny; fore-wings varied with brown, which extends beyond the brown part into the colourless half of the wing; veins tawny, darker towards the tips; hind-wings adorned with a dark brown stripe near the border which is pale brown, and especially so towards the inferior part; a very large brown spot in the fore part of the wing communicates more or less with the brown stripe: flaps tawny, with brown borders. *Fem.*—Drums very small, far apart.

Length of the body 10 lines; of the wings 30 lines.

*a, b.* Philippine Isles. Presented by J. C. Bowring, Esq.

## 15. PLATYPLEURA BASIMACULA, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o multò longior; 3us curvus, valdè obliquus, angulum valdè acutum fingens; 4us curvus, obliquus, angulum acutum fingens, 3i longitudine.

Second marginal areolet nearly as long as the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by more than thrice its length; second slightly curved, very slanting, forming a very obtuse angle, much longer than the first; third slightly curved, very slanting, forming a very acute angle; fourth slightly curved, slanting, forming an acute angle, as long as the third; fifth curved, forming a slightly acute angle. An insect of this species has an additional cross-vein in the second discoidal areolet; and the third and fourth cross-veins are much curved. Body tawny: head narrower than the fore-chest; crown adorned with two very irregular black bands; face very slightly convex: mouth tawny, with a black tip, extending to the hind-hips: eyes not prominent: feelers dark tawny: fore-chest broadest in the middle; scutcheon adorned with a black stripe, which joins a black band at each end; hind-scutcheon rather narrow in the middle, rounded and much widened on each side: scutcheon of the middle-chest adorned with four large black marks; the outer pair obconical, the inner pair smaller and nearly round; a black spot near the tip; hind border slightly excavated: abdomen obconical, a little longer than the chest, black above, with the exception of the hind borders of the segments: opercula pitchy, close; drums pale tawny, slightly overlapping, less than half the length of the abdomen: legs tawny, clothed with pale hairs; claws black, tawny at the base; fore-thighs armed with very short tawny teeth; hind-shanks beset with tawny spines: fore-wings colourless, tawny towards the base, whence a tawny stripe proceeds near the hind border to the tip; two irregular and oblique tawny bands beneath the fore border, these tawny marks are feathered with brown; hind border slightly striped with pale brown; primitive areolet brown; fore-flaps pale tawny; hind-wings tawny, with a colourless border, which is divided by a brown interval from the tawny part; borders of the flaps white. Length of the body 8 lines; of the wings 23 lines.

a, b. Congo. Presented by Sir J. Richardson.

## 16. PLATYPLEURA REDUCTA, Fem.

*Nervus transversus* 1us subrectus, valdè obliquus, angulum valdè obtusum fingens, 2o ferè sexies ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o duplò longior; 3us subundatus, valdè obliquus, angulum acutum fingens; 4us subrectus, obliquus, angulum subacutum fingens, 3o brevior.

Second marginal areolet longer than the first: first cross-vein nearly straight, very slanting, forming a very obtuse angle, parted from the second by nearly six times its length; second nearly straight, very slanting, forming a very obtuse angle, about twice the length of the first; third slightly waved, very slanting, forming an acute angle; fourth nearly straight, slanting, forming a slightly acute angle, shorter than the third; fifth curved, forming a nearly right angle. Body pale tawny, clothed with short whitish hairs: head a little narrower than the fore-chest; an irregular black band across the crown; face marked with black, very slightly convex: mouth tawny, with a black tip, reaching the hind-hips: feelers tawny at the base: eyes not prominent: fore-chest broadest at the base of the fore-wings; hind scutcheon widened, and forming a very obtuse angle on each side; scutcheon of the middle-chest adorned with four black marks, the outer pair large and obconical, the inner pair shorter and nearly round, and having a dart-shaped black mark behind them; hind border hardly excavated: abdomen slightly bronzed, obconical, a little longer than the chest: legs pale tawny; claws and tips of the feet black; fore-thighs armed with three short tawny teeth; hind-shanks beset with tawny spines: fore-wings colourless, pale tawny at the base; some pale brown marks in the disk, and beyond these two brown bands parallel to the hind border; veins pale tawny; hind-wings yellow, with a broad white border, which is divided by a broad brown border from the yellow part; flaps yellow. Length of the body 7 lines; of the wings 20 lines.

a. South Africa. Presented by Dr. A. Smith.

## 17. PLATYPLEURA ALBIGERA, Fem.

*Nervus transversus* 1us subrectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus triplo ejus longitudine divisus, 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o ferè duplò longior; 3us et 4us subrecti, subobliqui, angulos subacutos fingentes.

Second marginal areolet longer than the first: first cross-vein nearly straight, very slanting, forming a very obtuse angle, parted from the second by more than thrice its length: second very slightly curved, very slanting, forming a very obtuse angle, nearly twice the length of the first; third nearly straight, slightly slanting, forming a very slightly acute angle; fourth nearly straight, very slightly slanting, forming a very slightly acute angle; fifth curved, forming an acute angle. Body green, with a tawny tinge: head a little narrower than the fore-chest: crown adorned with an irregular black band; face slightly convex, adorned on each side in front with brown bands, which are paler towards the mouth; the latter tawny, with a black tip, reaching to the hind-hips: feelers black: eyes not prominent: fore-chest broadest in the middle: furrows of the scutcheon pale brown: hind-scutcheon adorned with two black dots on the fore border, rounded and much widened on each side: scutcheon of the middle-chest adorned with six black marks, the two outer pairs indistinct and oblique, the middle pair distinct, broad and obconical; hind border slightly excavated: abdomen brown, obconical, longer than the chest, tawny beneath and along the hind border of each segment: drums pale tawny, very small, far apart: legs tawny; tips of the claws black; hind-shanks beset with tawny spines: fore-wings whitish, tinged with green towards the base, feathered with pale brown, which forms two rows of double dots along the hind border: veins tawny towards the base, elsewhere feathered with pale brown, adorned with a row of brown ringlets along the hind border: a waved, whitish stripe along the hind border; four large whitish spots on the fore border, and three on the hind border; hind-wings tawny, adorned with two dark brown bands, between which are brown streaks; border pale brown, excepting the outermost part, which is colourless. Length of the body 11 lines; of the wings 26 lines.

a. Cape. From Mr. Shuckard's collection.

## 18. PLATYPLEURA SPHINX, Mas et Fem.

*Nercus transversus* 1us subrectus, subobliquus, angulum subobtusum fingens, 2o quinquies ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o plus duplò longior; 3us subrectus, valdè obliquus, angulum valdè acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3i dimidio paullò longior.

Second marginal areolet as long as the first: first cross-vein nearly straight, slightly slanting, forming a very slightly obtuse angle, parted from the second by about five times its length; second nearly straight, very slanting, forming a very obtuse angle, much more than twice the length of the first; third nearly straight, very slanting, forming a very acute angle; fourth slightly curved, slanting, forming a slightly acute angle, a little more than half the length of the third; fifth curved, forming a slightly acute angle. In the left wing of an insect of this species the third cross-vein is not more than half the length of that in the other wing. Body pale tawny, tinged with white, clothed with short whitish hairs: head narrower than the fore-chest; crown adorned with two brown bands; face very slightly convex: mouth tawny, with a brown tip, reaching the hind-hips: eyes not prominent: feelers dark tawny: fore-chest broadest in the middle; hind-scutcheon much widened, and almost angular on each side: scutcheon of the middle-chest adorned with four obconical dark brown marks, the outer pair long, the inner pair short and pointing towards two dots of the same colour: hind border very slightly excavated: abdomen obconical, a little longer than the chest: opercula close; drums of moderate size, nearly meeting, less than half the length of the abdomen: legs pale tawny; tips of the shanks darker; claws pitchy, tawny at the base: fore-thighs armed with tawny teeth, which hardly rise above the surface; hind shanks beset with tawny spines, whose tips are pitchy: fore-wings whitish, brownish-tawny towards the base, and having elsewhere some irregular pale brown marks, which, here and there, include white spots; veins yellow; hind-wings brown, mostly yellowish-white towards the base, and having a large yellowish-white spot in the disk, white at the tips, and adorned with a white spot on the hind border, which elsewhere is brown; flaps yellowish-white, with broad brown borders. Length of the body 8 lines; of the wings 21 lines.

a. North Bengal. From Miss Campbell's collection.

b. North India. From Mr. Warwick's collection.

## 19. PLATYPLEURA PUNCTIGERA, Mas.

*Nervus transversus* 1us subrectus, subobliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o plus duplò longior; 3us subcurvus, valdè obliquus, angulum acutum fingens; 4us subcurvus, subobliquus, angulum subacutum fingens, 3o paullò brevior.

Second marginal areolet more than five-sixths of the length of the first: first cross-vein nearly straight, slightly slanting, forming an obtuse angle, parted from the second by about four times its length; second nearly straight, very slanting, forming a very obtuse angle, more than twice the length of the first; third very slightly curved, very slanting, forming an acute angle; fourth slightly curved, slightly slanting, forming a slightly acute angle, a little shorter than the third; fifth curved, forming an acute angle. Body grassy-green: head much narrower than the fore-chest; crown adorned with two irregular black bands, and with two black dots near the eyes; face slightly convex, adorned with a circle of black marks; mouth tawny, with a black tip, reaching the hind-hips: eyes not prominent: feelers tawny; second joint black: fore-chest broadest in the middle; scutcheon adorned with four black dots, two in the disk and two on the hind border; hind-scutcheon adorned with a black stripe, widened, and forming a distinct angle on each side: scutcheon of the middle-chest adorned with two short black streaks on the fore border, and with four black dots on the hind part; hind border very slightly excavated: abdomen obconical, longer than the chest; its disk brown and shining for a short distance from the base: drums green, of moderate size, not apart, less than one-third of the length of the abdomen: legs green; tips of the feet and of the claws black: fore-thighs armed with three long, oblique black teeth; hind-shanks beset with black spines: wings colourless, green at the base and along some part of the fore border; disks of the areolets adorned with slight pale brown streaks: cross-veins clouded with darker brown, of which there are two rows of spots along the hind border, and a larger brown mark near the convex fore border towards the base; veins green, tawny towards the tips; hind-wings pale green. Length of the body 10—12 lines: of the wings 28—30 lines.

*a, b.* Natal. From M. Guenzius' collection.

## 20. PLATYPLEURA SUBFOLIA, Mas.

*Nervus transversus* 1us rectus, valdè obliquus, 2o plus sexties ejus longitudine divisus; 2us rectus, valdè obliquus, angulum sub-obtusum fingens, 1o duplò longior; 3us ferè rectus, valdè obliquus, angulum acutum fingens, 4us ferè rectus, subobliquus, angulum rectum fingens, 3i longitudine.

Second marginal areolet a little longer than the first: first cross-vein straight, very slanting, forming an extremely obtuse angle, parted from the second by more than six times its length: second straight, very slanting, forming an extremely obtuse angle, full twice the length of the first; third nearly straight, very slanting, forming an acute angle; fourth nearly straight, slightly slanting, forming a right angle, as long as the third; fifth very much curved, slightly slanting, forming a very obtuse angle. Body pale green, clothed with white hairs, and having a whitish covering, which is most thick beneath: head adorned with an irregular band of black spots: eyes and eyelets red: feelers black; second joint tawny: fore borders of the abdominal segments black: legs pale green; claws and tips of the feet black: fore-shanks armed beneath with three small black teeth: fore-wings pale gray, very convex on the fore border near the base, tinged with pale green, especially towards the base and along the fore border, clouded with pale brown, which forms imperfect ringlets on the areolets, and a row of double-forked marks near the hind border; hind-wings pale green, with white stripes; veins green; flaps pale green. Length of the body 11 lines; of the wings 31 lines.

*a, b.* Natal. From Dr. Krauss' collection.

## 21. PLATYPLEURA BASIFOLIA, Mas et Fem.

*Nervus transversus* 1us subcurvus, perobliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subrectus, perobliquus, angulum perobtusum fingens, 1o rix brevior; 3us subundatus, obliquus, angulum acutum fingens: 4us rectus, obliquus, angulum acutum fingens, 3o longior.

Second marginal areolet longer than the first: first cross-vein straight, with the exception of a slight curve at its lower end, extremely slanting, forming an extremely obtuse angle, parted from the second by a little more than twice its length; second nearly straight, extremely slanting, forming an extremely obtuse angle, al-

most as long as the first; third slightly waved, slanting, forming an acute angle; fourth straight, slanting, forming an acute angle, longer than the third; fifth curved, forming an acute angle. Body green, or green and tawny, or nearly all tawny: head much narrower than the fore-chest, adorned with three black bands; the foremost on the face, short and very convex; the other two widened and connected on the region of the eyelets; face slightly convex: mouth tawny, with a black tip, reaching nearly to the hind border of the drums; feelers tawny, black at the base: eyes not prominent: fore-chest broadest near the middle; two black dots in front of the scutcheon, the black marks on whose sides communicate with the U-shaped black mark in the middle; hind-scutcheon widened, but hardly angular on each side: scutcheon of the middle-chest adorned with about fourteen black marks, eight of these join the fore border, and four of them are obconical; hind border very slightly excavated: abdomen obconical, a little longer than the chest; hind borders of the segments adorned with black bands, some of which are interrupted: opercula greenish, close; drums rather large, slightly overlapping, less than half the length of the abdomen: legs tawny, tinged with green; tips of the claws black; fore-thighs armed with black teeth; hind-shanks beset with tawny spines, which form circlets at the tips: wings colourless, green towards the base, tawny at the base of the fore border; the colourless part with several brown marks, which are darker on the borders of the veins than in the disks of the areolets; veins green, tawny towards the tips; hind-wings green for more than two-thirds of the length, colourless from thence to the tips; flaps green. Length of the body 13 lines; of the wings 39 lines.

*a.* South Africa. Presented by Dr. A. Smith.

*b, c.* South Africa. From Mr. Argent's collection.

## 22. PLATYPLEURA CERVINA, Fem.

*Nervus transversus* *1us subcurvus, obliquus, angulum obtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o duplò longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o multo brevior.*

Second marginal areolet much longer than the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by nearly thrice its length; second slightly curved, slanting, forming a very obtuse angle, about twice the length of the



first; third very slightly curved, slanting, forming an acute angle; fourth slightly curved, slanting, forming an acute angle, much shorter than the third: fifth curved, forming a very slightly acute angle. Body pale buff: head nearly as broad as the fore-chest; face very slightly convex: mouth pale buff with a black tip extending to the hind-hips: eyes not prominent: feelers pitchy, buff at the base: fore-chest of equal breadth from the fore border to the hind border; hind-scutcheon widened, and nearly straight on each side: hind border of the scutcheon of the middle chest very slightly excavated; abdomen obconical, a little longer than the chest: drums very small, far apart: legs pale buff; claws black, tawny towards the base; fore-thighs armed with small teeth; hind-shanks beset with buff spines whose tips are black: wings whitish; veins yellow: fore-wings buff along the fore border; cross-veins clouded with brown; a row of brown dots on the tips of the longitudinal veins of the marginal areolets. Length of the body 8 lines; of the wings 24 lines.

a. North Bengal. From Miss Campbell's collection.

### 23. PLATYPLEURA STRAMINEA, Mas.

*Nervus transversus* 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o sexties ejus longitudine divisus; 2us subcurvus, obliquus, angulum perobtusum fingens, 1o ferè triplò longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3i longitudine.

Second marginal areolet a little longer than the first: first cross-vein almost straight, slightly slanting, forming an obtuse angle, parted from the second by six times its length; second very slightly curved, slanting, forming an extremely obtuse angle, nearly thrice the length of the first; third nearly straight, slanting, forming a slightly acute angle; fourth nearly straight, slanting, forming a slightly acute angle, as long as the third; fifth slightly curved, nearly upright, forming a slightly acute angle. Body straw-colour, dull, short, broad, thinly clothed with short white hairs; head a little narrower than the fore-chest: mouth pale tawny, with a black tip, reaching the middle-hips: eyes prominent: feelers tawny, pitchy towards the tips, straw-colour at the base: fore-chest not narrower before than behind; hind-scutcheon broad, its rim extending much beyond the scutcheon, forming a very obtuse angle at the base of the fore-wing, nearly straight on each side, rounded in front: hind border of the scutcheon of the middle-chest slightly excavated: abdomen ob-

conical, a little longer than the chest : opercula of moderate size, close, straw-colour ; drums rather large, nearly meeting, a little less than half the length of the abdomen : legs straw-colour ; tips of the claws black : tips of the hind-shanks beset with a circlet of black spines ; fore-thighs not much thickened, their teeth small : wings colourless (white in the specimen described, which is probably immature) ; fore border and veins pale straw-colour ; second, third, fourth, and fifth cross-veins, and the tips of the longitudinal veins of the marginal areolets, clouded with brown. Length of the body 8 lines : of the wings 22 lines.

a. North India. From Mr. Stevens' collection.

#### 24. PLATYPLEURA BASI-VIRIDIS, Mas.

*Nervus transversus 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o quadruplo ejus longitudine divisus ; 2us ferè rectus, valde obliquus, angulum perobtusum fingens, 1o ferè duplò longior ; 3us ferè rectus, valdè obliquus, angulum valdè acutum fingens ; 4us subcurvus, obliquus, angulum acutum fingens.*

Second marginal areolet a little longer than the first : first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by full four times its length ; second nearly straight, very slanting, forming an extremely obtuse angle, nearly twice the length of the first ; third nearly straight, very slanting, forming a very acute angle ; fourth straight, with the exception of a slight curve at its upper end, slanting, forming an acute angle, nearly as long as the third ; fifth curved, forming a slightly acute angle. Body tawny : head a little narrower than the fore-chest, adorned with two irregular black bands ; face very slightly convex, adorned on each side in front with brown bands : mouth tawny, with a black tip, extending just beyond the hind-hips : fore-chest broadest near the fore border ; scutcheon adorned with five black marks, the middle one obconical, the other four oblique ; hind-scutcheon adorned with a black mark on the fore border, much widened, tinged with brown, and almost angular on each side : scutcheon of the middle-chest adorned with four very large obconical black marks which proceed from the fore border ; in the angle formed by the inner pair there is a dart-shaped black mark with a black dot on each side, and a black band is behind each of these dots ; hind border very slightly excavated ; abdomen black above ; hind borders of the segments tawny : opercula yellowish, large, close ; drums yellow, large, hardly apart, less than half the length of the abdomen : legs tawny, clothed with pale hairs ; tips of the claws black ; fore-thighs armed with

very short yellow teeth ; hind-shanks beset with tawny spines : fore-wings colourless, greenish towards the base, adorned with some brown marks which have a tendency to form four very irregular and interrupted bands ; veins green, tawny towards the tips ; hind-wings greenish, with a broad brown border, on which there are two white spots. Length of the body 8 lines ; of the wings 23 lines.

a. ——— ?

## 25. PLATYPLEURA BREVIS, Fem.

*Nervus transversus 1us vix curvus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus ; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o multò longior ; 3us curvus, obliquus, angulum subacutum fingens ; 4us curvus, obliquus, angulum subacutum fingens, 3i longitudine.*

Second marginal areolet about four-fifths of the length of the first : first cross-vein hardly curved, very slanting, forming an extremely obtuse angle, parted from the second by more than thrice its length ; second slightly curved, slanting, forming a very obtuse angle, much longer than the first ; third curved, slanting, forming a slightly acute angle ; fourth slightly curved, slanting, forming a slightly acute angle, as long as the third ; fifth curved, nearly upright, forming a slightly obtuse angle. In the left wing of the insect described there is an additional cross-vein near the base of the fourth marginal areolet. Body greenish tawny, paler beneath, short, broad : head short and broad, but much narrower than the fore-chest, adorned with two black bands, which are irregular and partly united and include some tawny spots, one of them is in front of the crown, the other across the face ; the latter is very slightly convex, and not at all prominent : mouth pale tawny, with a black tip, reaching the hind border of the drums : eyes not prominent : feelers tawny, yellow towards the tips ; first and second joints black : scutcheon of the fore-chest adorned with two irregular black stripes, which in front are united in a triangle, and terminate in two black dots, and are widened into angles along their outer side ; three or four small pitchy or black marks on each side ; hind-scutcheon very broad, with a pitchy outer border near the base of each fore-wing, and forming with its wide rim an obtuse angle on each side : scutcheon of the middle-chest adorned with four ferruginous stripes, whose borders are black ; the inner pair are much shorter than the outer pair, whose black borders are much interrupted and reduced to three spots, one on each side of the base, and one at the tip ; be-

tween the inner pair there is a black stripe which is widened in the middle, and assumes a diamond form, and has a black spot on each side; hind border very slightly excavated: abdomen obconical, not longer but a little narrower than the chest, black towards the base beneath: opercula pale tawny, close, rather small; drums rather large, pale tawny, slightly overlapping, one-third of the length of the abdomen: legs pale tawny; thighs tinged with green, slightly streaked with brown; claws black, tawny at the base; fore-thighs armed with a very short tooth which hardly rises above the surface; tips of the hind-thighs and of the four hinder shanks pitchy; hind-shanks armed with pitchy spines; fore-feet black; middle-feet black at the base and at the tips: wings colourless; fore-wings indistinctly tinged with brown along the hind border, which is adorned with a double row of pale brown spots; first, second, and third cross-veins clouded with brown; fore border beset with very short spines, green as far as the pitchy band, tawny from thence to the tips; veins ferruginous, black towards the tips. The specimen described has near the base of the third marginal areolet of the left wing an additional cross-vein which is tinged with brown. Length of the body 10 lines; of the wings 42 lines.

*a.* Port Natal. From M. Gueinzus' collection.

#### 26. PLATYPLEURA? SEMICLARA.

*Cicada semiclara*, *Germ. Silb. Rev. Ent.* ii. 82, 59.

#### 27. PLATYPLEURA SEMILUCIDA, Mas.

*Nervus transversus* 1us rectus, erectus, angulum rectum fingens, 2o octies ejus longitudine divisus; 2us ferè rectus, valdè obliquus, angulum valdè obtusum fingens, 1o triplò longior; 3us subundatus, valdè obliquus, angulum valdè acutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3i dimidio brevior.

Second marginal areolet very nearly as long as the first: first cross-vein straight, upright, forming a right angle, parted from the second by full eight times its length; second nearly straight, very oblique, forming a very obtuse angle, about thrice the length of the first; third slightly waved, very oblique, forming a very acute angle; fourth nearly straight, oblique, forming a slightly acute angle, not half the length of the third; fifth curved abruptly to the hind border, forming a hardly acute angle. In this species and in *P. gemina*

the longitudinal vein towards the base of the fore side of the eighth marginal areolet does not, as in other species, form an angle with the fourth cross-vein but a continuous line. Body tawny: head much narrower than the fore-chest; crown adorned with a black spot, on each side of which there are two black dots; face very slightly convex: mouth tawny, with a black tip, extending a little beyond the hind borders of the drums: eyes not prominent: feelers black, tawny at the base: fore-chest broadest near the fore border: scutcheon adorned with some oblique black marks on each side, and in the middle with a slender black stripe which joins a black mark on the fore border of the hind-scutcheon; the latter is widened and black, and forms an obtuse angle on each side: scutcheon of the middle-chest adorned with four large black marks, the side pair obconical, the middle pair short, nearly round; hind border very slightly excavated; abdomen obconical, not longer than the chest, black at the base and on the fore borders of the segments: opercula close, rather large: drums tawny, very large, slightly overlapping, less than half the length of the abdomen: legs tawny, clothed with paler hairs; feet partly pitchy; claws black; fore-thighs armed with very short black teeth; hind-shanks beset with tawny spines: wings brown, with a few colourless marks for half the length from the base, colourless, with some brown marks from thence to the tips; fore border towards the base and veins reddish-tawny; hind-wings dark brown, with a colourless broad border, tawny at the base; flaps pale brown, with colourless borders. Length of the body 8 lines; of the wings 26 lines.

a, b. Java. From Mr. Argent's collection.

## 28. PLATYPLEURA GEMINA, Mas.

*Nervus transversus 1us rectus, ferè erectus, angulum subobtusum fingens, 2o plus decies ejus longitudine divisus; 2us subundatus, valdè obliquus, angulum perobtusum fingens, 1o plus octies longior; 3us subundatus, valdè obliquus, angulum acutum fingens, 3i dimidio vix longior.*

Second marginal areolet a little shorter than the first: first cross-vein straight, almost upright, forming a very slightly obtuse angle, parted from the second by more than ten times its length; second very slightly waved, very slanting, forming an extremely obtuse angle, more than eight times the length of the first; third slightly waved, very slanting, forming a very acute angle; fourth very slightly waved, very slanting, forming an acute angle, hardly more than half the length of the third; fifth curved, upright, form-

ing a hardly acute angle. Body green, short, broad, tinged with tawny: head very much narrower than the fore-chest, mostly pale ferruginous, adorned with seven small black spots, one behind the eyelets, two on each side, and one between two yellow spots at the base of each feeler; face very slightly convex, adorned with a black band: mouth yellow, tinged with green towards the base, black at the tip, extending a little beyond the drums: eyes not prominent: feelers black: scutcheon of the fore-chest adorned with five black marks, one on the hind border, two on each side on the furrows, and one on each side border; hind-scutcheon broad, widened on each side, where it forms a slightly obtuse angle, whose sides are pitchy and rounded: disk of the scutcheon of the middle-chest tawny, adorned with four black marks; two black dots between the tips of the outer pair, which are obconical, and much more than twice the length of the inner pair; hind border very slightly excavated: abdomen obconical, not longer than the chest: its base and the fore borders of the segments black: opercula large, green; drums green, of moderate size, overlapping: legs tawny, partly green, tinged with pitchy-colour; tips of the claws black; fore-feet pitchy; fore-thighs unarmed: fore-wings colourless, brown, and adorned with white and green towards the base, adorned with some brown marks towards the tips; these marks form two very interrupted bands which are parallel to the hind border, the latter is adorned with a row of clusters of three dark brown dots: hind-wings very dark brown, paler at the base, white at the tips and along the hind border; flaps pale brown, with white tips; veins green. Length of the body 9 lines; of the wings 30 lines.

a. Cape.

## 29. PLATYPLEURA SIMPLEX, Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o longior; 3us undatus, obliquus, angulum subacutum fingens; 4us curvus, fere erectus, angulum rectum fingens, 3o brevior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by more than thrice its length; second very slightly curved, very slanting, forming an extremely obtuse angle, longer than the first; third waved, slanting, forming a slightly acute angle; fourth curved, nearly upright, forming a right angle, shorter than the third; fifth curved, slightly slanting, form-

ing a hardly acute angle. Body tawny, tinged with green, short, broad: head much narrower than the fore-chest, adorned above with two black bands which are joined together on each side and include several tawny spots: eyes not prominent: mouth tawny with a black tip, reaching a little beyond the hind-hips: feelers tawny, black towards the base: scutcheon of the fore-chest adorned in front with a short black band, in the middle with two black curved stripes, and on the hind border with two black dots; hind-scutcheon broad, rounded and slightly widened on each side: middle-chest adorned with two black U-shaped marks, with a black stripe, with two black spots, and on each side with a broad, slanting, ferruginous stripe, which has two black spots at its base; hind border very slightly excavated: abdomen not longer than the chest, abruptly tapering towards the tip: legs tawny, tips of the feet and of the claws black; teeth of the fore-shanks very small; wings colourless; veins tawny, black towards the tips: cross-veins indistinctly clouded with brown; primitive areolet, fore-flaps and base of hind-flaps pale fawn-colour. Length of the body 9 lines; of the wings 32 lines.

*a.* Congo. Presented by Sir J. Richardson.

#### Genus 4. OXYPLEURA.

*Oxypleura*, *Amyot et Serr. Hist. Nat. Hém.* 469, 368.

##### 1. OXYPLEURA CLARA?

*Oxypleura clara?* *Amyot et Serr. Hist. Nat. Hém.* 469, 1.

*a.* Gambia. Presented by T. Whitfield, Esq.

##### 2. OXYPLEURA LIMBATA.

*Tettigonia limbata*, *Fabr. Syst. Ent.* 678, 3. *Sp. Ins.* ii. 319, 3.  
*Mant. Ins.* ii. 265, 4. *Ent. Syst.* iv. 17, 4. *Syst. Rhyn.*  
34, 5.

*Cicada limbata*, *Oliv. Enc. Méth.* v. 747, 4, pl. 110, f. 1. *Stoll*,  
*Cic.* 51, pl. 12, f. 57. *Gmel. Ed. Syst. Nat.* i. 3, 2099, 88.

*a, b.* Ashanti. From the Wesleyan Missionary Society's collection.  
*c.* Cape Coast.

##### 3. OXYPLEURA CAPITATA.

*Cicada capitata*, *Oliv. Enc. Méth.* v. 754, 34, pl. 112, f. 10. *Stoll*,  
*Cic.* 76, pl. 19, f. 103.

*Cicada nobilis*, *Germ. Thon. Arch.* ii. 2, 9. *Silb. Rev. Ent.* ii.  
82, 60.

## 4. OXYPLEURA ARMATA.

*Cicada armata*, *Oliv. Enc. Méth.* v. 748, 7, pl. 110, f. 3. *Stoll, Cic.*  
69, pl. 17, f. 94.

a. ———?

## 5. OXYPLEURA? MARMORATA.

*Tettigonia marmorata*, *Fabr. Syst. Rhyn.* 38, 24.

*Cicada marmorata*, *Germ. Thon. Arch.* ii. 2, 17. *Silb. Rev. Ent.*  
ii. 79, e.

This species and *O. sanguiflua* may be identical.

## 6. OXYPLEURA SANGUIFLUA, MSS.? Mas et Feni.

*Nervus transversus* 1us subcurvus, valde obliquus, angulum perobtusum fingens, 2o triplò ejus longitudine divisus; 2us curvus, obliquus, angulum obtusum fingens, 1o multò longior; 3us subundatus, valdè obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o multò brevior.

Second marginal areolet a little longer than the first: first cross-vein slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by thrice its length; second curved, slanting, forming an obtuse angle, much longer than the first; third slightly waved, very slanting, forming an acute angle; fourth slightly curved, slanting, forming a slightly acute angle, much shorter than the third; fifth curved, almost upright, forming a hardly acute angle. Body tawny, rather short and broad: head much narrower than the fore-chest, adorned in front with two broad black bands of which the fore one includes a tawny spot: face very slightly convex: mouth reaching far beyond the hind-lips: eyes not prominent: feelers black: scutcheon of the fore-chest ferruginous, with two black dots on the hind border; hind-scutcheon broad, much widened, and forming a nearly right angle on each side: disk of the middle-chest black, adorned with two U-shaped marks; hind border excavated: abdomen obconical, sometimes pitchy above, not longer than the chest; tymbals and drums large: legs tawny; tips of the claws black; fore-thighs hardly armed: fore-wings colourless, tawny along the fore border, adorned towards the base with three irregular brown bands; cross-veins clouded with brown; flaps red: hind-wings brown, red at the base and along the veins into the disk, colourless at the tips, between which and the



brown part there is a tinge of white: veins tawny, brown towards the tips. Length of the body 10—12 lines; of the wings 31—37 lines.

- a.* India. Presented by J. G. Children, Esq.  
*b, c.* N. Bengal. From Miss Campbell's collection.  
*d.* N. India. From Mr. Warwick's collection.  
*e, g.* India.

#### 7. OXYPLEURA SUBRUF A, Fem.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o ferè triplo ejus longitudine divisus; 2us ferè rectus, obliquus, angulum perobtusum fingens, 1o ferè duplo longior; 3us rectus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o multò brevior.

Second marginal areolet full as long as the first: first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by nearly thrice its length; second nearly straight, slanting, forming an extremely obtuse angle, almost twice the length of the first; third straight, slanting, forming an acute angle; fourth straight with the exception of a slight curve near its fore-end, slanting, forming an acute angle, much shorter than the third; fifth curved, forming a slightly acute angle. Body tawny: head and fore-chest very broad: head a little narrower than the fore-chest, adorned with two black stripes, the fore one forming a circlet on the face which is slightly convex, and is adorned in front with a row of black bands on each side; mouth tawny with a black tip reaching the hind hips: eyes not prominent: feelers black: fore-chest broadest in the middle; scutcheon adorned with two black marks on each side; hind-scutcheon pale tawny, widened, pitchy, and forming a very obtuse angle on each side; scutcheon of the middle chest adorned with four black marks, the side pair large and obconical, the inner pair smaller and nearly round; a black dot behind each of the latter; hind border very slightly excavated: abdomen punctured, obconical, narrower and a little longer than the chest, hind borders of the segments and tip mostly black: legs tawny, clothed with pale hairs; claws pale tawny with black tips: fore-wings colourless; one-third of the length from the base brown with a broad white band; the colourless part includes a brown band, its cross-veins are clouded with brown, and there are two imperfect rows of brown dots on the tips of the longitudinal veins of the marginal areolets; hind-wings brown, tawny at the base, adorned with a broad interrupted white

band, and at the tip with a white spot; veins dark tawny; flaps brown. Length of the body 13 lines; of the wings 36 lines.

a.———?

### 8. OXYPLEURA BASIALBA, Mas.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o plus duplò longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us curvus, erectus, angulum subacutum fingens.

Second marginal areolet as long as the first: first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by full five times its length; second very slightly curved, very slanting, forming an extremely obtuse angle, a little more than twice the length of the first; third very slightly curved, slanting, forming an acute angle; fourth curved, upright, forming a slightly acute angle. Body yellow, clothed with white hairs, covered beneath with white powder: forehead adorned with a black band in front and behind, and with a stripe of short black bands on each side; cheeks also with slender black bands: eyes tawny: eyelets red: feelers tawny with black bands and tips: fore-chest adorned with seven small black marks: middle-chest adorned with three black stripes, the side pair oblique, the middle one straight, widened on each side by the fore border, and having a small black spot on each side near the hind border: abdomen black; drums, tip and hind borders of the segments yellow: legs yellow, clothed with short white hairs; tips of the claws black; hind-shanks beset with tawny spines; fore-thighs armed beneath with two small teeth: wings colourless, white at the base above, brown at the base beneath: from this brown hue a short tawny stripe proceeds along the hind border, and communicates with an oblique brown band which crosses the wing near its base; hind-wings colourless, dark brown with a whitish outline for near half the surface from the base which is tawny; flaps dark brown; veins tawny, pitchy at the tips of the fore-wings. Length of the body 9 lines; of the wings 29 lines.

a. North Bengal. From Miss Campbell's collection.

## 9. OXYPLEURA BUFO, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus quadruplo ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o ferè duplò longior; 3us ferè rectus, valdè obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o paullò brevior.

Second marginal areolet nearly as long as the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by more than four times its length; second slightly curved, very slanting, forming a very obtuse angle, nearly twice the length of the first; third nearly straight, very slanting, forming a slightly acute angle; fourth nearly straight, slanting, forming a very slightly acute angle, a little shorter than the third: fifth curved, forming a slightly acute angle. Body tawny: head and chest very broad: head much narrower than the fore-chest, adorned with two black irregular bands, the hinder one passing over the region of the eyelets; face very slightly convex: mouth tawny, with a black tip, reaching the hind border of the drums: eyes not prominent; feelers black: fore-chest broadest in the middle: scutcheon adorned with a blackish mark in the middle; furrows blackish; hind-scutcheon pale tawny, ferruginous, much widened, and forming a very projecting right angle on each side: scutcheon of the middle-chest ferruginous; hind border very slightly excavated: abdomen ferruginous, shorter and narrower than the chest, tawny at the tip and beneath: opercula tawny, partly pitchy, close: drums tawny, rather large, nearly meeting, less than half the length of the abdomen, their disks darker: legs tawny; tips of the claws black; fore-thighs armed with two extremely short and blunt tawny teeth: wings with an extremely slight tawny tinge, tawny towards the base, bright tawny along the fore border; veins tawny, darker towards the tips; cross-veins darker. Length of the body 12 lines; of the wings 39 lines.

a. East India. Presented by Sir R. H. Inglis.

## 10. OXYPLEURA PASSA, Mas.

*Nervus transversus*, 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o paullò longior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us subcurvus, vix obliquus, angulum rectum fingens, 3o paullò longior.

Second marginal areolet nearly as long as the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by four times its length; second very slightly curved, slanting, forming a very obtuse angle, a little longer than the first; third very slightly curved, slanting, forming a slightly acute angle; fourth very slightly curved, hardly slanting, forming a right angle, a little longer than the third; fifth curved, forming a slightly acute angle. Body tawny: head much narrower than the fore-chest, adorned with two irregular black bands, the hinder one widened over the eyelet-region, which has a black dot on each side; face slightly convex: mouth tawny, with a black tip, reaching some distance beyond the hind-hips; eyes not prominent: feelers black: fore-chest broadest in the middle; scutcheon adorned with a club-shaped black mark; furrows blackish; hind-scutcheon, with a black streak above the base of each fore-wing, much widened, and forming a very projecting right angle on each side: scutcheon of the middle-chest adorned with four pitchy obconical marks; the inner pair distinctly angular, darker than the outer pair, and rather more than half their length, and pointing towards two black dots; hind border very slightly excavated: abdomen obconical, a little longer than the chest: opercula large, close; drums meeting beneath, of moderate size, less than half the length of the abdomen: legs tawny; feet and tips of the shanks pitchy; claws black; fore-thighs armed with three very short and blunt tawny teeth; hind-shanks beset with tawny black-tipped teeth: wings tinged with pale tawny; a black spot on the primitive areolet; veins tawny: cross-veins mostly black. Length of the body 11 lines; of the wings 36 lines.

a. Congo. Presented by Sir J. Richardson.

## 11. OXYPLEURA POLITA, Fem.

*Nervus transversus* 1us ferè rectus, obliquus, angulum valdè obtusum fingens, 2o plus sexties ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o duplò longior; 3us subundatus, obliquus, angulum subacutum fingens; 4us curvus, obliquus, angulum acutum fingens, 1o brevior.

Second marginal areolet a little longer than the first: first cross-vein nearly straight, slanting, forming a very obtuse angle, parted from the second by more than six times its length; second very slightly curved, very slanting, forming a very obtuse angle, about twice the length of the first; third slightly waved, slanting, forming a slightly acute angle; fourth curved, slanting, forming an acute angle, shorter than the third; fifth abruptly curved, forming a slightly acute angle. Body tawny, shining, clothed with whitish hairs, which are mostly beneath, and on the abdomen: head much narrower than the fore-chest, adorned with two black bands; the fore one forming two curved lines on the face, the hinder one widened over the region of the eyelets, on each side of which there is a black dot; face very slightly convex: mouth tawny, with a black tip, reaching far beyond the hind-lips: eyes not prominent: feelers black: fore-chest broadest in the middle; scutcheon adorned with a short black stripe, and with a transverse black mark; furrows blackish; hind-scutcheon widened on each side, and forming a black, obtuse, and projecting angle, whose sides are slightly convex: scutcheon of the middle-chest adorned with four black obconical stripes; the outer pair twice the length of the inner pair, and each including an indistinct tawny spot at the base; in the middle there is a club-shaped black mark, with a black dot on each side; hind-border very slightly excavated: abdomen black, obconical, not longer than the chest; a tawny band on the hind border of each segment: drums tawny, black at the base, far apart, rather small: legs tawny; feet and fore-shanks mostly pitehy; tips of the claws black; fore-thighs armed with very short and blunt blackish teeth: wings colourless, tawny at the base and along the fore border: cross-veins clouded with dark brown; a few pale brown spots on the longitudinal veins, and two rows of brown spots on the veins of the marginal areolets; veins tawny; a black dot on the primitive areolet, which is pale tawny; veins of the hind-wings pale yellow, some of them black; tips of the marginal areolets clouded with brown; base of the wings and of the flaps tawny, of which hue there are some slight streaks extending along the veins. Length of the body 12 lines; of the wings 39 lines.

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## 12. OXYPLEURA BASISTIGMA, Fcm.

*Nervus transversus* 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o plus quadruplo ejus longitudine divisus; 2us ferè rectus, obliquus, angulum valdè obtusum fingens, 1o duplò longior; 3us subundatus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet shorter than the first: first cross-vein nearly straight, slightly slanting, forming an obtuse angle, parted from the second by more than four times its length; second nearly straight, slanting, forming a very obtuse angle, about twice the length of the first; third slightly waved, slanting, forming a slightly acute angle; fourth nearly straight, slanting, forming a slightly acute angle, longer than the third; fifth curved, forming a very slightly acute angle. Body pale tawny, clothed with paler hairs: head much narrower than the fore-chest, adorned with two black bands, which include tawny spots, the hinder one is widened over the region of the eyelets; face very slightly convex: mouth pale tawny, with a black tip, extending beyond the hind-hips: eyes not prominent: feelers black: fore-chest broadest in the middle; scutcheon adorned with a black cross, and on each side with three oblique black stripes; hind-scutcheon very much widened, and forming a nearly right and very projecting angle on each side: scutcheon of the middle-chest adorned with the four usual marks; the side pair large, obconical, brown with black tips; the middle pair smaller and black, and each succeeded by a black dot; hind border very slightly excavated: abdomen obconical, a little longer and narrower than the chest: a large black spot on each side of the tip: drums pale tawny, very small, far apart: legs pale tawny; tips of the feet, fore-shanks and fore-feet pitchy; claws black; fore-thighs armed with three very short and blunt black teeth; hind-shanks armed with black spines, which form a circle at the tips: wings colourless; a black spot on the primitive areolet, which is pale tawny; veins pale tawny, partly black, which colour mostly prevails on the cross-veins; flaps pale tawny. Length of the body 12 lines; of the wings 37 lines.

a. Gambia. Presented by T. Whitfield, Esq.

## 13. OXYPLEURA CONTRACTA, Mas.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus sexties ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o duplò longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us subcurvus, subobliquus, angulum subacutum fingens, 3o paullò brevior.

Second marginal areolet as long as the first: first cross-vein almost straight, very slanting, forming a very obtuse angle, parted from the second by more than six times its length; second very slightly curved, slanting, forming an obtuse angle, full twice the length of the first; third slightly curved, slanting, forming an acute angle; fourth very slightly curved, slightly slanting, forming a very slightly acute angle, a little shorter than the third; fifth curved, slightly slanting, forming a hardly acute angle. Body tawny, shining, very short and broad, almost hairless: head much narrower than the fore-chest; very short; region of the eyelets and borders of the eyes black; two black bands across the crown; face convex, not prominent, adorned with a black band above, and with a black stripe in front: mouth tawny, with a pitchy tip, reaching the hind-hips: eyes rather large: feelers pitchy, with tawny tips, black towards the base: scutcheon of the fore-chest short, adorned with three black spots in a row, one triangular near the fore border, the second slender in the middle, the third transverse on the hind border; furrows blackish; hind-scutcheon broad, very slightly excavated in the middle of the hind border, forming a broad rim to the scutcheon on each side, where it has a prominent and slightly obtuse angle: scutcheon of the middle-chest dark yellowish brown, adorned with four black stripes, the middle pair short and obconical, the outer pair oblique and much longer; two black spots near the hind border; sides, cross-ridge and hind border tawny, the latter very slightly excavated: abdomen obconical, hardly longer than the chest; a pitchy band on each segment: tip pitchy: opercula none; drums pale tawny, very small, the space between them equal to twice the breadth of each: legs tawny; feet and fore-shanks pitchy; claws tawny, with black tips; fore-thighs armed with one black tooth of moderate size: wings long and narrow, indistinctly tinged with tawny, fore-wings tawny, and slightly clouded here and there with brown towards the base; cross-veins more or less clouded with brown; a row of pale brown spots near the tips of the longitudinal veins of the marginal areolets; veins tawny, black towards the tips; hind-wings dark brown for more

than one-third of the length from the base. Length of the body 7 lines; of the wings 24 lines.

a. Sierra Leone. Presented by T. Whitfield, Esq.

#### 14. OXYPLEURA POLYDORUS, Fem.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o plus duplo ejus longitudine divisus; 2us ferè rectus, valdè obliquus, angulum perobtusum fingens, 1o ferè duplo longior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet full five-sixths of the length of the first; first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by much more than twice its length; second nearly straight, very slanting, forming an extremely obtuse angle, near twice the length of the first; third very slightly curved, slanting, forming a very slightly acute angle; fourth slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming a slightly acute angle. Body green, short, broad, tinged with tawny: head very much narrower than the fore-chest, adorned with two irregular black bands, which are joined together on each side at the base of the feelers, and include eight tawny spots; face very slightly convex, adorned in front with a pitchy stripe, and with a pitchy band: mouth tawny, with a pitchy tip, reaching a little beyond the hind-hips: eyes not prominent: feelers black: scutcheon of the fore-chest adorned with a black stripe; hind-scutcheon broad, much widened on each side, and forming a nearly right angle, whose hinder part is edged with black: middle-chest adorned with two black U-shaped marks, with four black slanting stripes, and with four black dots; hind border slightly excavated: abdomen obconical, narrower and a little longer than the chest, adorned above with a row of black spots on each side, powdered with white beneath; legs green, tinged with tawny, thighs and fore-shanks streaked with black; feet black, with tawny bands; teeth of the fore-thighs very small: wings colourless; veins green, with black bands towards the base, black towards the tips; cross-veins clouded with brown; primitive areolet green, black towards the tip. Length of the body 12 lines; of the wings 38 lines.

a, b. Port Natal. From M. Gueinzins' collection.



## Genus 5. ZAMMARA.

Zammara, *Amyot et Serville, Hist. Nat. Hém.* 468, 367.

## 1. ZAMMARA TYMPANUM.

Zammara tympanum, *Amyot et Serr. Hist. Nat. Hém.* 468, 1.

Tettigonia tympanum, *Fab. Syst. Rhyn.* 40, 36.

Cicada tympanum, *Gerin. Thon. Arch.* ii, 2, 7. *Silb. Rev. Ent.* ii. 69, 32, f. 22. *Perty, Del. An. Art.* 176, pl. 35, f. 1. *Burm. Handb. Ent.* ii. 1, 183, 7. *Blanch. Hist. Nat. Ins.* iii. 167, 4. *Hém.* pl. 10, f. 1.

a—e. Brazil.

## 2. ZAMMARA STREPENS.

Zammara strepens, *Amyot et Serv. Hist. Nat. Hém.* 469, 2.

Cicada tympanum, *Pal. Beauv. Ins.* 132, *Hém.* pl. 20, f. 5.

a, b. Brazil. From Mr. Mornay's collection.

## 3. ZAMMARA SMARAGDINA, Mas.

*Nervus transversus* 1us *ferè* rectus, valdè obliquus, angulum perobtusum fingens, 2o plus duplo ejus longitudine divisus; 2us *subcurvus*, obliquus, angulum valdè obtusum fingens, 1o dimidio brevior; 3us *subundatus*, obliquus, angulum subacutum fingens; 4us *subcurvus*, obliquus, angulum acutum fingens, 3o paullo brevior

Second marginal areolet about one-fourth longer than the first: first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by much more than twice its length; second very slightly curved, slanting, forming a very obtuse angle, not half the length of the first; third very slightly waved, slanting, forming a very slightly acute angle; fourth slightly curved, slanting, forming an acute angle, a little shorter than the third; fifth straight, upright, forming an obtuse angle. Body tawny, tinged with green: head very much narrower than the fore-chest, adorned with a large black band, which encloses the eyelets, and sends forth two branches on each side; face convex, black above, pale tawny in front, with a row of black spots on each side, and with two green stripes which enclose a black stripe: mouth pale green, with a black tip, reaching beyond the hind-hips: eyes rather prominent: feelers black, slender: scutcheon of the fore-chest adorned with

seven black stripes; the middle one linear, very much widened on the fore border, and slightly widened on the hind border; the next pair forked, partly occupying the furrows; the following pair on the furrows; the outer pair on each side; hind-scutcheon bright green, varied with tawny, slightly waved along the hind border, rather narrow in the middle, much widened, and forming a black nearly right angle on each side: scutcheon of the middle-chest bright green; disk tawny, adorned with three large black marks, of these the side pair are obconical and the middle one resembles a ♀ reversed; hind border deeply excavated: abdomen nearly obconical, a little shorter than the chest, mostly pitchy above with the exception of the hind borders of the segments: opercula none; tymbals pale tawny: drums green, short, hardly parted: legs green, tinged with tawny; tips of the claws black; fore-legs adorned with pitchy marks; fore-thighs armed with two small black teeth: wings colourless; fore-wings tinged with tawny towards the base, adorned towards the tip with seven large dark brown spots, six of these are at the tips of the fore-areolet of the first second and third discoidal areolets, and of the eighth marginal areolet; the seventh is the largest, occupies the tip of the wing, and encloses two round colourless spots; a very small brown spot at the base of the eighth marginal areolet; primitive areolet, fore-flaps, and the base of the hind-flaps green; veins black, pitchy towards the base, where they are tinged with green. Length of the body 15 lines; of the wings 47 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

#### 4. ZAMMARA ANGULOSA, Fem.

*Nervus transversus* 1us *subcurvus*, *valdè obliquus*, *angulum valdè obtusum* *figens*, 2o *plus duplò ejus longitudine divisus*; 2us *rectus*, *obliquus*, *angulum obtusum* *figens*, 1o *quadripartito brevior*; 3us *subundatus*, *obliquus*, *angulum subacutum* *figens*; 4us *curvus*, *obliquus*, *angulum vix acutum* *figens*, 3o *paullò longior*.

Second marginal areolet about seven-eighths of the length of the first, slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second straight, slanting, forming an obtuse angle, not one-fourth of the length of the first; third slightly waved, slanting, forming a very slightly acute angle; fourth curved, slanting, forming a hardly acute angle, a little longer than the third; fifth straight, slightly slanting, forming an obtuse angle. Body dull tawny, short, broad: head much narrower than the fore-chest, adorned with two black oblique stripes, which being united occupy

the space between the eyelets; face convex, adorned in front with blackish bands on each side: mouth tawny, with a black tip reaching the hind hips: eyes not prominent: feelers dark tawny, black at the base: scutcheon of the fore-chest adorned with a black stripe, on each side of which there is a reversed C-shaped mark; furrows blackish; hind-scutcheon widened on each side into a broad rim, and forming a right angle, whose fore side is very slightly convex and its hind side equally concave: scutcheon of the middle-chest adorned with two obconical brown stripes which proceed from the border, and have a cross-shaped brown spot behind them, and a large irregular brown mark on each side; excavation on the hind border of moderate depth: abdomen obconical, hardly longer than the chest: drums very small, far apart: legs dark tawny; feet and tips of the shanks pitchy; claws black, tawny at the base: fore-thighs streaked with black, their teeth hardly rising above the surface: wings colourless, adorned with six large spots, and with one short broad stripe of a pale tawny hue clouded with brown; three of the spots are along the fore border, two in the disk on the cross-veins, and one on the hind border; the stripe occupies half the length of the hind border from the tip, and contains three colourless circles; veins tawny, darker towards the tips. Length of the body 14 lines: of the wings 48 lines.

a. Mexico. From Mr. Argent's collection.

##### 5. ZAMMARA INTRICATA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o triplo ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1i dimidio paulò longior; 3us ferè rectus, valdè obliquus, angulum acutum fingens; 4us subcurvus, subobliquus, angulum rivè acutum fingens, 3o multò brevior.

Second marginal arcelet a little shorter than the first: first cross-vein very slightly curved, slanting, oblique, forming a very obtuse angle, parted from the second by thrice its length, second very slightly curved, slightly slanting, forming an obtuse angle, little more than half the length of the first; third nearly straight, very slanting, forming an acute angle; fourth slightly curved, slightly slanting, forming a hardly acute angle, much shorter than the third; hind-vein of the fourth discoidal arcelet forming an acute angle, whence springs the fifth cross-vein, which is straight and forms a slightly obtuse angle. Body black above, tawny beneath: head much narrower than the fore-chest, adorned with eight

tawny spots, of which the two inner pair are nearly square, and the two outer pair are curved; face very convex, rather prominent: mouth tawny, with a black tip, reaching the hind-hips: eyes black: feelers black, tawny towards the tips: fore-chest broadest in the middle; scutcheon adorned with some tawny marks which resemble a reversed C, and on each side with some more obscure tawny marks; hind-scutcheon green, tinged with tawny, and having a brown spot on each side, which is widened into a projecting and slightly obtuse angle, whose fore side is convex, its hind side concave: scutcheon of the middle-chest adorned with a tawny W-shaped mark, behind which are four short stripes; these are united on the hind border; an obconical, oblique tawny mark on each side; sides and hind border green, the latter rather deeply excavated: abdomen tawny, nearly elliptical, hardly longer than the chest; segments adorned with blackish bands, which are broadest towards the tip: opercula none; tymbals brown, adorned with white bands; drums green, rather small, very little apart: legs tawny; shanks green; feet and fore-shanks black; fore-thighs armed with two small, sharp, green teeth; hind-shanks beset, with a few tawny spines whose tips are black: wings green at the base; fore-wings dark brown, colourless towards the base; the brown part includes some colourless marks which are variable in size, shape and situation; veins black, tawny towards the base of the fore-wings; hind-wings colourless. Length of the body 14 lines; of the wings 40 lines.

*a, b.* Guayaquil. Presented by Dr. J. D. Hooker.

#### 6. ZAMMARA MONTEZUMA, Mas.

*Nervus transversus 1us ferè rectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus duplo ejus longitudine divisus; 2us subcurvus, perobliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus, obliquus, angulum ferè rectum fingens; 4us subcurvus, obliquus, angulum subacutum fingens.*

Second marginal areolet four-fifths of the length of the first: first cross-vein nearly straight, very slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second very slightly curved, extremely slanting, forming an extremely obtuse angle, much longer than the first; third very slightly waved, slanting, forming a nearly right angle: fourth straight with the exception of a slight curve in its upper part, slanting, forming a slightly acute angle; fifth curved abruptly to the hind border, forming a slightly acute angle. Body pale tawny above, greenish

and much powdered with white beneath: head much narrower than the fore-chest, adorned with a black stripe, and with an irregular black band; face slightly convex, adorned in front with two black stripes, on each side of which there are a few black bands: mouth tawny, with a black tip reaching the hind-hips: eyes not prominent: feelers black, tawny at the base: fore-chest broadest in the middle: scutcheon adorned in the middle with two parallel black stripes, which are widened in front; furrows black; hind-scutcheon widened with a black border on each side which forms a very obtuse and slightly rounded angle: scutcheon of the middle-chest adorned with four obconical black marks; the outer pair much longer than the inner pair, and much excavated on the inner side; between the inner pair there is a black cross, and behind it on each side a black dot supported by a short black band; hind-border deeply excavated: abdomen as broad as the chest, almost linear till near the tip, where it is conical; each segment adorned with a pitchy band whose hind border is much excavated: opercula none; tymbals ferruginous, with whitish stripes; drums pale green, of moderate size, rather far apart: legs tawny; tips of the shanks, feet and fore-shanks black; fore-thighs armed with two long sharp black teeth; hind-shanks beset with a few tawny spines: wings colourless, tawny at the base of the fore border, green at the base of the hind border; veins black, ferruginous towards the base; flaps whitish towards the base. Length of the body 20—22 lines; of the wings 57—60 lines.

a. Mexico. Presented by the Entomological Club.

b. ———?

#### 7. ZAMMARA SUFFUSA, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o ferè triplo ejus longitudine divisus; 2us subcurvus, perobliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o longior.

Second marginal areolet near three-quarters of the length of the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by nearly thrice its length; second very slightly curved, extremely slanting, forming an extremely obtuse angle, very much larger than the first; third slightly waved, slanting, forming a slightly acute angle; fourth very slightly curved, slanting, forming an acute angle, longer than the third; fifth curved, forming a hardly acute angle. Body black

above, tawny beneath: head much narrower than the fore-chest; crown adorned with two tawny bands, one in front of the eyelets, the other along the hind border: face slightly convex, not prominent: mouth tawny with a black tip, reaching the hind-hips: feelers black: eyes not prominent: fore-chest broadest in the middle; hind-scutcheon mostly dull red, widened and forming a very obtuse angle on each side: scutcheon of the middle-chest dull red on each side and on the hind border, which is slightly excavated: abdomen very slightly decreasing in breadth from the base to the tip, nearly as broad as the chest and much longer; hind borders of the segments tawny: opercula none; tymbals brown, adorned with white streaks; drums tawny, nearly meeting, rather small: legs tawny; claws black towards the tips; fore-thighs, middle-thighs and fore-shanks spotted with black; fore-thighs armed with two distinct sharp tawny teeth; hind-shanks beset with a few tawny spines: wings very slightly tinged with clear brown, darker towards the tips, dark reddish tawny at the base; cross-veins and brands clouded with dark brown; a rim of brown spots on the tips of the longitudinal veins of the marginal areolets; veins pitchy; flaps of the hind-wings dark reddish tawny towards the base, brown along the fore border. Length of the body 15 lines; of the wings 41 lines.

*a.* St. Domingo. Presented by M. A. Pierret.

#### 8. ZAMMARA PLENA, MRS.

*Nervus transversus* 1us *ferè rectus, subobliquus, angulum obtusum* *fringens, 2o plus quadruplo ejus longitudine divisus; 2us sub-* *curvus, valdè obliquus, angulum perobtusum fringens, 1o plus* *duplo longior; 3us subundatus, obliquus, angulum acutum* *fringens; 4us subcurvus, obliquus, angulum subacutum fringens,* *3o longior.*

Second marginal areolet more than two-thirds of the length of the first: first cross-vein nearly straight, very slightly slanting, forming an obtuse angle, parted from the second by more than four times its length; second slightly curved, very slanting, forming an extremely obtuse angle, much more than twice the length of the first; third very slightly waved, slanting, forming an acute angle; fourth very slightly curved, slanting, forming a slightly acute angle, longer than the third; fifth curved, almost upright, forming a hardly acute angle. Body tawny: head much narrower than the fore-chest, blackish in front; crown adorned with an irregular interrupted black band; face very slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes rather prominent: feelers

black: hind-scutcheon of the fore-chest widened on each side into a rim; this forms an obtuse angle whose hind side is straight, and its fore side slightly convex: scutcheon of the middle-chest tinged with green, adorned with four broad pitchy stripes; inner pair short, obconical, succeeded by two pitchy dots; outer pair nearly triangular, with several slight pitchy streaks in front; hind border slightly excavated: abdomen nearly oval, a little longer and broader than the chest: drums of moderate size, rather less than half the length of the abdomen, approaching each other beneath: legs tawny; thighs and fore-shanks streaked with black; tips of the claws black: fore-thighs armed with two long teeth: wings with a very slight tawny tinge, tawny at the base; veins green, black towards the tips; first and second cross-veins and the longitudinal vein between the first and the fore border of the wing clouded with brown; flaps tawny at the base, brown along the fore border. Length of the body 13 lines; of the wings 38 lines.

a. Jamaica. From Mr. Gosse's collection.

#### 9. ZAMMARA CUNCTA, Fem.

*Nervus transversus* 1us *subcurvus, obliquus, angulum obtusum fingens*, 2o *quinqvies ejus longitudine divisus*; 2us *subcurvus, validè obliquus, angulum perobtusum fingens*, 1o *multo longior*; 3us *rectus, erectus, angulum obtusum fingens*; 4us *curvus, obliquus, angulum obtusum fingens*, 3o *ferè triplo longior*.

Second marginal areolet full two-thirds of the length of the first; first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by full five times its length; second slightly curved, very slanting, forming an extremely obtuse angle, much longer than the first; third straight, upright, forming an obtuse angle; fourth curved, slanting, forming an obtuse angle, nearly thrice the length of the third; fifth slightly curved, almost upright, forming a hardly obtuse angle. Body dark tawny, paler beneath: head narrower than the fore-chest: face very slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers black, tawny at the base: hind-scutcheon of the fore-chest widened on each side into a rim, which forms an obtuse angle whose hind side is very slightly concave: scutcheon of the middle-chest adorned with four broad pitchy obconical stripes, the outer pair much longer than the inner pair; hind border very slightly excavated: abdomen obconical, slightly compressed towards the tip, rather narrower but not longer than the chest: drums tawny, very small, far apart: legs tawny; tips of the claws black

fore-thighs armed with two rather long teeth: wings colourless, tawny at the base, near which they are slightly adorned with opaline lustre; cross-veins from the first to the fourth clouded with brown; this especially prevails on the first and second, and the adjoining parts of the longitudinal veins are also clouded; a row of indistinct brown spots on the tips of the longitudinal veins of the marginal areolets; veins tawny, darker towards the tips; flaps tawny at the base, streaked with brown along the fore border. Length of the body 12 lines; of the wings 36 lines.

a. Jamaica. From Mr. Gosse's collection.

#### 10. ZAMMARA PRAXITA, Mas.

*Nervus transversus 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o plus quinquies ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o plus duplò longior; 3us subundatus, obliquus, angulum acutum fingens, 4us subundatus, obliquus, angulum acutum fingens, 3o multo longior.*

Second marginal areolet more than two-thirds of the length of the first: first cross-vein nearly straight, very slightly slanting, forming an obtuse angle, parted from the second by more than five times its length; second slightly curved, very slanting, forming an extremely obtuse angle, a little more than twice the length of the first; third very slightly waved, slanting, forming an acute angle; fourth very slightly waved, slanting, forming an acute angle, very much longer than the third; fifth slightly curved, upright, forming a right angle. Body black, broad, nearly linear, dark tawny beneath: head broad, short, much narrower than the fore-chest, darkened along the hind border; face very short, very slightly convex, pitchy on each side in front; mouth dark tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers black: scutcheon of the fore-chest dark red with the exception of a middle black stripe, which is much widened on the fore border and on the hind border; hind-scutcheon rather narrow in the middle, tinged with dark red on each side, where it is very much widened and its broad rim forms a slightly obtuse angle: scutcheon of the middle-chest dark red, but nearly all occupied by the four usual black obconical stripes, the inner pair much shorter than the outer pair, and in advance of a very large black spot which extends across the cross-ridge to the hind border; the latter very slightly excavated: abdomen much longer than the chest, nearly linear till near the tip where it is almost truncated: opercula none; tymbals small, pitchy: drums



small, pitchy, not parted: legs dark tawny; thighs black; hind-thighs and fore-shanks mostly pitchy; fore-thighs armed with a long black tooth which is near the tip: wings adorned with a very slight tawny tinge; fore border ferruginous as far as the brand, black thence towards the tip; veins tawny, mostly green in the fore-wings, black towards the tips; cross-veins and the longitudinal vein between the first and the fore border clouded with brown; tip of the longitudinal vein of the sixth marginal areolet clouded with brown; primitive areolet tawny; fore-flaps dark tawny; hind-flaps tawny at the base, and along some part of the fore border, their veins clouded with pale brown. Length of the body 15 lines; of the wings 38 lines.

a. ———?

### 11. ZAMMARA ERATO, Mas.

*Nervus transversus 1us ferè rectus, obliquus, angulum obtusum fingens, 2o plus quadruplo ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o plus duplo longior; 3us ferè rectus, obliquus, angulum vix acutum fingens; 4us subcurvus obliquus, angulum subacutum fingens, 3o multo longior.*

Second marginal areolet three-fourths of the length of the first: first cross-vein nearly straight, slanting, forming an obtuse angle, parted from the second by much more than four times its length: second slightly curved, very slanting, forming an extremely obtuse angle more than twice the length of the first; third nearly straight, slanting, forming a hardly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, very much longer than the third; fifth curved, nearly upright, forming a right angle. Body black, broad, nearly linear, dark tawny beneath: head broad, short, much narrower than the fore-chest, mostly dark red along the hind border; face very short, very slightly convex, adorned on each side with a dark red stripe: mouth dark tawny, black towards the tip, reaching the hind-hips: eyes not prominent: feelers black: scutcheon of the fore-chest adorned with six large dark red spots, the inner pair brighter and more distinct than the other four; hind-scutcheon very much widened on each side where its broad rim forms a slightly obtuse angle: scutcheon of the middle-chest tinged with dark red on each side; hind border very slightly excavated: abdomen a little longer than the chest, a little increasing in breadth along half the length, obconical from thence to the tip: opercula none; tymbals small, tawny, adorned with a pitchy circlet; drums pitchy, small, not parted: legs ferruginous; hips and trochanters

marked with black; thighs and fore-shanks black; claws black, tawny at the base; fore-thighs armed near the tips with two black teeth, one of moderate size, the other extremely small: wings slightly tinged with tawny, adorned with blue opaline lustre: fore border black with a tawny vein beneath; veins tawny, black towards the tips; first and second cross-veins and the space between them and the fore border deeply clouded with dark brown; a small brown spot on the third cross-vein; primitive areolet tawny; fore-flaps brownish tawny; hind-flaps tawny at the base and along part of the hind border, tinged with dark brown along the veins. Length of the body 14 lines; of the wings 39 lines.

a. Jamaica. From Mr. Gosse's collection.

### Genus 6. THOPHA.

*Thopha*, *Amyot et Serv. Hist. Nat. Hèm.* 471, 372.

#### 1. THOPHA SACCATA.

*Thopha saccata*, *Amyot et Serv. Hist. Nat. Hèm.* 471, 1.

*Tettigonia saccata*, *Fabr. Syst. Rhyn.* 34, 9.

*Cicada saccata*, *Germ. Thon. Arch.* ii. 2, 5, 57. *Guer. Mag. Zool.* 80, pl. 238.

a. New Holland. Presented by the Earl of Derby.

b. New Holland. Presented by Dr. Sinclair.

c.—f. New Holland.

#### 2. THOPHA PERULATA.

*Thopha perulata*, *Amyot et Serv. Hist. Nat. Hèm.* 471, 2.

*Cicada perulata*, *Guerin, Voy. aut. du Monde*, 180, pl. 10, f. 5, 5 a.

a—c. New Holland.

#### 3. THOPHA VARIA, Mas.

*Nervus transversus* 1us ferè rectus, obliquus, angulum valdè obtusum fingens, 2o ejus longitudine quadruplò divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o multo longior; 3us subcurvus, obliquus, angulum ferè rectum fingens; 4us subrectus, obliquus, angulum acutum fingens, 3o multo longior.

Second marginal areolet full seven-eighths of the length of the first: first cross-vein nearly straight, slanting, forming a very obtuse angle, parted from the second by about four times its length; second slightly curved, slanting, forming a very obtuse angle, much longer than the first; third slightly curved, slanting, forming a nearly

right angle; fourth nearly straight, slanting, forming an acute angle, much longer than the third; fifth nearly upright, slightly curved forming a hardly acute angle. Body tawny, partly clothed with pale yellow or white down, rather broad: head a little narrower than the fore-chest; a broad black band occupies the crown and includes two tawny dots on each side of the eyelets; face blackish, convex but not prominent: mouth ferruginous with a pitchy tip, extending a little beyond the middle-hips: eyes prominent: feelers dark tawny, pitchy towards the base: scutcheon of the fore-chest adorned with two broad black stripes widened in front and occupying the whole fore border, united and more slightly widened on the hind border; hind-scutcheon broad, widened and almost angular at the base of each fore-wing, slightly excavated on each side: disk of the scutcheon of the middle-chest black, adorned with two large forked tawny marks, on each side of which there is an oblique ferruginous stripe, hind border tawny, very slightly excavated in the middle, whence two short tawny branches proceed towards the forked spots: abdomen black, obconical, longer than the chest; hind borders of the segments and tip tawny beneath: opercula large, pale tawny; drums very large, pale tawny, tinged with green, overlapping, occupying rather less than half the length of the abdomen: legs ferruginous; streaks of the thighs, tips of the shanks, and spines of the hind-shanks pitchy; claws black; fore-thighs armed with black teeth of moderate size: wings almost colourless, tawny at the base; veins ferruginous, tawny towards the base, where they are partly black, very slightly clouded with tawny towards the tips; first and second cross-veins and the longitudinal vein beyond them clouded with brown: flaps whitish towards the base and along the fore border. Length of the body 17 lines; of the wings 48 lines.

a. ——— ?

#### 4. THOPHA CHLOROMERA, Mas.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us curvus, valdè obliquus, angulum perobtusum fingens, 1o longior; 3us subundatus, obliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum acutum fingens.

First cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by more than thrice its length; second curved, very slanting, forming an extremely obtuse angle, longer than the first; third slightly waved, slanting, forming a right angle; fourth slightly waved, slanting, forming an acute

angle, a little longer than the third; fifth almost upright, very slightly curved, forming a nearly right angle. Body black above, tawny and tinged with green beneath: head a little narrower than the fore-chest, adorned with several small tawny marks, and on each side of the front with one of larger size; face slightly convex, not at all prominent, adorned with a pale tawny elliptical mark, tawny with blackish bands on each side in front: mouth tawny with a pitchy tip, reaching the middle-hips: eyes rather prominent: scutcheon of the fore-chest adorned with two oblique black stripes, which are united behind; fore border black excepting a little interval in the middle; hind-scutcheon adorned on each side with three greenish-tawny spots, one large, the other two small; sides not angular, but slightly excavated in front and slightly convex near the base of each fore-wing: scutcheon of the middle-chest adorned with a tawny slender double U-shaped mark whose inner sides are interrupted in front and behind; on each side of this are two oblique tawny stripes which are united behind; the middle pair are broader than the outer pair, and their inner sides are excavated; hind border slightly excavated in the middle; cross-ridge tawny: abdomen obconical, longer than the chest, black above, tawny beneath: drums very large, pale tawny, much more than half the length of the abdomen, slightly overlapping: legs green, streaked with tawny; fore-thighs armed with two stout black teeth; spines of the hind-shanks ferruginous with black tips: wings colourless, bright green at the base; veins ferruginous, green towards the base and along half the length of the fore border; first and second cross-veins clouded with brown. Length of the body 17 lines; of the wings 48 lines.

a. ——— ?

### Genus 7. CYCLOCHILA.

*Cyclochila*, *Amyot et Serr. Hist. Nat. Hém.* 470, 370.

#### 1. CYCLOCHILA AUSTRALASIE.

*Cyclochila Australasiæ*, *Amyot et Serr. Hist. Nat. Hém.* 470, 1.

*Tettigonia Australasiæ*, *Donor. Ins. New. Holl. Hém.* pl. 2, f. 1.

*Cicada australis*, *Leach.*

*Cicada olivacea*, *Germ. Thon. Arch.* ii. 2, 8.; *Silb. Rev. Ent.* ii.

57, 4. *Burm. Handb. Ent.* ii. 1, 182, 6.

a, b. New Holland. Presented by Dr. Sinclair.

c. New Holland. Presented by J. G. Children, Esq.

d, e. New Holland. Presented by F. Walker, Esq.

f. New Holland.

## 2. CYCLOCHILA HONESTA, Mas et Fem.

*Nervus transversus* Ius *vix* *curvus*, *obliquus*, *angulum* *valdè* *obtusum* *figens*, 2o *paullo* *plus* *duplo* *ejus* *longitudine* *divisus*; 2us *curvus*, *subobliquus*, *angulum* *obtusum* *figens*, 1o *multo* *brevior*; 3us *subundatus*, *subobliquus*, *angulum* *vix* *obtusum* *figens*; 4us *ferè* *rectus*, *obliquus*, *angulum* *subacutum* *figens*, 3o *multo* *longior*.

Second marginal areolet seven-eighths of the length of the first: first cross-vein hardly curved, slanting, forming a very obtuse angle, parted from the second by a little more than twice its length; second curved, slightly slanting, forming an obtuse angle, much shorter than the first; third slightly waved, slightly slanting, forming a hardly obtuse angle; fourth very nearly straight, slanting, forming a slightly acute angle, much longer than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle.

*Male*.—Body pale tawny, short and broad: head narrower than the fore-chest; face slightly prominent, tinged with green; mouth tawny with a darker tip, reaching the middle-hips: eyes not prominent: feelers green at the base: scutcheon of the fore-chest tinged with green in the middle of the front; hind-scutcheon green along the hind border, and on each side where the rims are narrow and slightly waved, but not angular: hind border of the scutcheon of the middle-chest very slightly excavated: abdomen obconical, much longer but hardly broader than the chest, slightly compressed towards the tip which is somewhat tinged with green: drums green, small, not more than one-sixth of the length of the abdomen, some distance apart: legs tinged with green; feet tawny; claws black, tawny at the base; fore-thighs armed with two green teeth of moderate size: wings colourless, green at the base; veins green, partly tawny at the base and along the fore border; fore-flaps and the base of the hind-flaps bright pale red.

*Fem*.—Abdomen shorter and a little broader than that of the male, a little broader and longer than the chest.

Length of the body 20 lines; of the wings 64 lines.

a. Brazil. From Mr. Mornay's collection.

b. ———?

## Genus 8. TACUA.

Tacua, *Amyot et Serv. Hist. Nat. Ins. Hém.* 461.

## 1. TACUA SPECIOSA.

Tacua speciosa, *Amyot et Serv. Hist. Nat. Ins. Hém.* 462, 1.

Tettigonia speciosa, *Illiger, Wied. Zool. Arch.* ii. 145, 38, pl. 2.

*Fabr. Syst. Rhyn.* 33, 1.

Cicada indica, *Donov. Ins. Ind. Hém.* pl. 2, f. 3.

Cicada speciosa, *Blanch. Hist. Nat. Ins.* iii. 165, 1. *Hém.* pl. 9.

*Hab.* ———?

## Genus 9. TOSENA.

Tosena, *Amyot et Serv. Hist. Nat. Hém.* 462.

## 1. TOSENA FASCIATA.

Tosena fasciata, *Amyot et Serv. Hist. Nat. Hém.* 462, 1.

Tettigonia fasciata, *Fabr. Mant. Ins.* ii. 265, 2. *Ent. Syst.* iv. 17,

2. *Syst. Rhyn.* 34, 3. *Stoll, Cic.* i. 27, pl. 4, f. 16.

Cicada fasciata, *Oliv. Enc.* v. 747, 2, pl. 109, f. 1. *Germ. Thon's*

*Arch.* ii. 2, 11.; *Silberm. Rev. Ent.* ii. 75, 49. *Blanch. Hist.*

*Nat. Ins.* iii. 165, 2.

*a, b.* Java. Presented by J. G. Children, Esq.

## 2. TOSENA MELANOPTERA.

Tosena melanoptera, *White, Ann. Nat. Hist.* 1846, xvii. 331.

*a—d.* Silhet. From the Rev. J. Stainforth's collection.

*e.* East India. Presented by E. Doubleday, Esq.

*f.* North India. From Mr. L. James' collection.

## 3. TOSENA MEARESIANA.

Tosena Mearesiana, *Westw. Arc. Ent.* 1842, 98, pl. 25, f. 1, *Amyot et Serv. Hist. Nat. Hém.* 463.

*a, b.* N. India. From Mr. L. James' collection.

## 4. TOSENA DIVES.

Tosena dives, *Westw. Arc. Ent.* 1842, 98, pl. 25, f. 2. *Amyot et Serv. Hist. Nat. Hém.* 464.

## Genus 10. DUNDUBIA.

Dundubia, *Amyot et Serr. Hist. Nat. Hém.* 470, 371.

## 1. DUNDUBIA IMPERATORIA.

*Cicada imperatoria*, *Westw. Arc. Ent.* ii. 13, pl. 51.

*a.* Borneo. Presented by the Admiralty.

*b.* ——— ?

## 2. DUNDUBIA OBTECTA.

*Tettigonia obsecta*, *Fabr. Syst. Rhyn.* 35, 11.

*a—c.* Nepaul. Presented by Major-General Hardwicke.

*d.* North Bengal. From Miss Campbell's collection.

*e, f.* North India. From Mr. Warwick's collection.

*g.* Assam. From Mr. Warwick's collection.

*h, i.* ——— ?

## 3. DUNDUBIA SPINOSA.

*Tettigonia spinosa*, *Fabr. Mant. Ins.* ii. 266, 6. *Ent. Syst.* iv. 17

6. *Syst. Rhyn.* 348.

*Cicada spinosa*, *Oliv. Enc. Méth.* v. 748, 8.

*a, b.* Philippine Islands. From Mr. Cuming's collection.

## 4. DUNDUBIA VAGINATA.

*Dundubia vaginata*, *Amyot et Serr. Nat. Hém.* 471, 1.

*Tettigonia vaginata*, *Fabr. Mant. Ins.* ii. 266, 7. *Ent. Syst.* iv

18, 7. *Syst. Rhyn.* 35, 10.

*Cicada vaginata*, *Oliv. Enc. Méth.* v. 748, 10. *Gmel. Ed. Syst.*

*Nat.* i. 3, 2099, 71. *Stoll, Cic.* 38, pl. 7. f. 35.

*a, b.* ——— ? Presented by J. G. Children, Esq.

*c.* ——— ? Presented by the Entomological Club.

*d.* Assam. From Mr. Warwick's collection.

*e* ——— ?

## 5. DUNDUBIA CHLOROGASTER.

*Cicada chlorogaster*, *Boisd. Voy. Astrol.* ii, 614. *Hém.* pl. 10. f. 4.

*a, b.* ——— ?

## 6. DUNDUBIA DORYCA.

*Cicada doryca*, *Boisd. Voy. Astrol.* ii. 609. *Hém.* pl. 10, f. 3

## 7. DUNDUBIA VARIANS.

*Cicada varians*, *Germ. Silb. Rev. Ent.* ii. 59, 10.

a. New Holland. Presented by the Haslar Hospital.

## 8. DUNDUBIA LINEARIS, Mas.

*Nervus transversus* 1us valdè curvus, vix obliquus, angulum rectum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o vix brevior; 3us valdè curvus, obliquus, angulum acutum fingens: 4us curvus, subobliquus, angulum subacutum fingens, 3o brevior.

Second marginal areolet nearly seven-eighths of the length of the first: first cross-vein very much curved, hardly slanting, forming a right angle, parted from the second by much more than twice its length: second slightly curved, slanting, forming an obtuse angle, nearly as long as the first; third very much curved in its fore part, slanting, forming an acute angle; fourth curved, slightly slanting, forming a very slightly acute angle, shorter than the third; fifth nearly straight, forming a slightly obtuse angle. Body tawny beneath: head and chest pitchy; head and fore-chest adorned with indistinct tawny marks, which are mostly along the sutures: head narrower than the fore-chest; face convex, rather prominent, pitchy towards the mouth; the latter tawny with a black tip, reaching the hind borders of the drums: eyes prominent: feelers black: fore-chest broadest at the base of the fore-wings; scutcheon adorned with six pale tawny stripes which proceed from the fore border to the disk; hind-scutcheon much widened on each side, which is slightly concave in the middle part, slightly convex before and behind: hind border of the scutcheon of the middle-chest slightly excavated: breast green: abdomen ferruginous, nearly linear till towards the tip, where it is conical, about twice the length of the chest; sutures of the segments black: opercula dark ferruginous; drums green, rather large, hardly apart: legs tawny; fore-thighs armed with two sharp tawny teeth: tips of the feet and of the claws black: wings with an indistinct tawny tinge, slightly coloured with green, pale brown and marked with black at the base; fore border greenish; cross-veins clouded with brown; a row of small brown spots on the tips of the longitudinal veins of the marginal areolets; veins adorned with alternate black and pale yellow bands; veins of the hind-wings tawny; cross-veins darker; flaps pale brown at the base. Length of the body 22 lines; of the wings 56 lines.

a ——— ?



## 9. DUNDUBIA CINCTIMANUS, Mas.

*Nervus transversus* 1us *curvus subobliquus, angulum subobtusum* *figens, 2o plus duplò ejus longitudine divisus; 2us subcurvus,* *obliquus, angulum obtusum figens, 1o brevior; 3us undatus,* *valdè obliquus, angulum acutum figens; 4us curvus,* *ferè erectus, angulum rectum figens, 3o multo longior.*

Second marginal areolet full seven-eighths of the length of the first: first cross-vein curved, very slightly slanting, forming a slightly obtuse angle, parted from the second by much more than twice its length; second very slightly curved, slanting, forming an obtuse angle, shorter than the first; third waved, very slanting, forming an acute angle; fourth curved, nearly upright, forming a right angle, much longer than the third; fifth straight, very slightly slanting, forming a slightly obtuse angle. Body dark tawny, paler beneath: head narrower than the fore-chest: face very convex: mouth tawny with a black tip, reaching a little beyond the hind-hips: eyes prominent: feelers black, tawny at the base: hind-scutcheon of the fore-chest partly green, adorned with five pitchy spots, widened near the base of each fore-wing, and forming an obtuse angle whose hind side is very slightly concave; sides excavated: scutcheon of the middle-chest greenish on each side, adorned with four broad, pitchy, obconical stripes, the outer pair much longer than the inner pair, and enclosing tawny ramifications; hind border very slightly excavated: abdomen longer and rather narrower than the chest, obconical, slightly compressed towards the tip: opercula very small: drums green, small, apart: legs tawny; tips of the claws black; fore-feet and middle-feet black, tawny at the base; fore-thighs armed with three rather long, black teeth; of these two are of moderate size, and one very small; wings slightly tinged with tawny; cross-veins from the first to the fourth clouded with brown, especially the first and the second, where the adjoining parts of the longitudinal veins are also clouded; a row of indistinct brown spots on the tips of the longitudinal veins of the marginal areolets; veins black, adorned with whitish bands, tawny at the base and at the tips; flaps tawny at the base, with a brown streak along the fore border. Length of the body 18 lines; of the wings 48 lines.

*α.* Silhet. From Mr. Sowerby's collection.

## 10. DUNDUBIA IMMACULA, Mas.

*Nercus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus duplo ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1i dimidio non longior; 3us subundatus, subobliquus, angulum vix acutum fingens; 4us rectus, subobliquus, angulum rectum fingens, 3o multo longior.

Second marginal areolet more than two-thirds of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by much more than twice its length; second very slightly curved, slanting, forming an obtuse angle, about half the length of the first; third very slightly waved, slightly slanting, forming a hardly acute angle; fourth straight, very slightly slanting, forming a right angle, much longer than the third; fifth much curved, slightly slanting, forming a hardly acute angle. Body fawn-colour: head a little narrower than the fore-chest; face prominent, very convex: mouth fawn-colour with a black tip, reaching the middle-hips: eyes prominent: feelers tawny: fore-chest broadest near the base of each fore-wing; scutcheon slightly tuberculate; hind-scutcheon broad, finely furrowed, slightly excavated on the hind border, widened, and forming a very obtuse angle near the base of each fore-wing, armed with a very small tooth on each side: disk of the scutcheon of the middle-chest black; hind border slightly excavated: abdomen slightly obconical, much longer than the chest; opercula pale fawn-colour; drums pale fawn-colour, far apart, very large, extending to three-fourths of the length of the abdomen: legs tawny; fore-thighs armed with three tawny teeth; of these two are of moderate size, and one very small: wings whitish, tawny at the base; an almost imperceptible fawn-coloured tinge in the fore-wings; veins fawn-colour, with the exception of two which are black; the one is on the fore-border, the other on the hind border of the fore-wings; flaps tawny at the base. Length of the body 19 lines; of the wings 48 lines.

a. Tenasserim. Presented by — Packman, Esq.

## 11. DUNDUBIA STIPATA, Mas.

*Nervus transversus* 1us valdè curvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us valdè curvus, obliquus, angulum obtusum fingens, 1o paullò longior; 3us curvus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o paullò brevior.

Second marginal areolet more than two-thirds of the length of the first: first cross-vein much curved, slanting, forming an obtuse angle, parted from the second by more than twice its length; second much curved, slanting, forming an obtuse angle, a little longer than the first; third curved, slanting, forming an acute angle; fourth very slightly curved, slanting, forming a slightly acute angle a little shorter than the third; fifth very slightly curved, slightly slanting, forming an obtuse angle. Body tawny: head much narrower than the fore-chest, blackish about the eyelets; face very convex: mouth tawny with a black tip, reaching a little beyond the hind-hips: eyes very prominent: feelers tawny, pitchy at the base: fore-chest broadest near the base of the fore-wing; scutcheon adorned with four black stripes, the middle pair widened in front and behind, the side pair short; furrows black; hind-scutcheon narrow in the middle, much widened and slightly angular at the base of each fore-wing, hardly notched, but armed with a small tooth on each side: scutcheon of the middle-chest adorned with five black stripes, the inner pair shortened behind, but succeeded by two black spots: some slight streaks in front between the inner and the outer pair, the latter accompanied by some marks, which give a mottled appearance to the scutcheon; hind border very slightly excavated: abdomen nearly spindle-shaped, twice the length of the chest; a pitchy mark on each side of every segment; tip blackish: opercula extremely small: tymbals white with brown bands; drums small, pale green, hardly overlapping, not extending beyond the base of the abdomen: legs tawny; tips of the hind-shanks darker; claws black towards the tips; fore-thighs armed with two rather long teeth: wings colourless, tawny at the base; fore-wings very slightly tinged with brown; veins alternately black and tawny; the latter colour prevails most towards the base; first second and third cross-veins clouded with brown; a row of brown spots on the tips of the veins of the marginal areolets; flaps tawny at the base. Length of the body 17 lines; of the wings 37 lines.

a. Ceylon. From the Rev. J. Wenham's collection.

## 12. DUNDUBIA PHEOPHILA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum obtusum fingens, 2o plus duplo ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o vix brevior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us subcurvus, subobliquus, angulum subacutum fingens, 3o paulò brevior.

Second marginal areolet four-fifths of the length of the first: first cross-vein slightly curved, slightly slanting, forming an obtuse angle, parted from the second by much more than twice its length; second slightly curved, slanting, forming a very obtuse angle, nearly as long as the first; third very slightly curved, slanting, forming a slightly acute angle; fourth very slightly curved, slightly slanting, forming a slightly acute angle, a little shorter than the third; fifth slightly curved, slanting, forming a slightly obtuse angle. Body brownish tawny: head a little narrower than the fore-chest; black about the eyelets, adorned with two black spots on each side; face very convex, adorned with black bands on each side: mouth tawny with a black tip, reaching the hind-hips: feelers black: eyes prominent: fore-chest broadest near the base of the fore-wings: scutcheon adorned with two black stripes; hind-scutcheon tawny, slightly widened and rounded near the base of each fore-wing, not notched, but armed with a very small tooth on each side: scutcheon of the middle-chest armed with five black stripes and with two black dots, the latter near the hind border; the outer pair of stripes are in front, the inner pair behind; hind border very slightly excavated: abdomen obconical, a little longer than the chest: opercula tawny; drums tawny, with broad black bands, obconical, very large, slightly concave in the middle of the outer border, extending near to the tip of the abdomen: legs tawny; tips of the claws black; tips of the four hinder-shanks black; fore-thighs armed with three teeth, one very small; spines of the hind-shanks black; fore-feet pitchy: wings tinged with pale brown, which is most prevalent at the tips; first and second cross-veins clouded with dark brown; veins black, tawny towards the base; flaps brown towards the base. Length of the body 15 lines; of the wings 46 lines.

*a, b.* Corea. Presented by Sir E. Belcher.

## 13. DUNDUBIA RAMIFERA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum subacutum fingens, 2o fere triplò ejus longitudine divisus; 2us rectus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us subcurvus, obliquus, angulum acutum fingens; 4us subrectus, subobliquus, angulum subacutum fingens, 3o multò brevior.

This species and *D. cinetimanus* are very nearly allied, but the fourth cross-wing vein of the former is more upright than that of the latter.

Second marginal areolet full seven-eighths of the length of the first: first cross-vein slightly curved, slightly slanting, forming a slightly acute angle, parted from the second by nearly thrice its length; second straight, slightly slanting, forming an obtuse angle, much shorter than the first; third slightly curved, slanting, forming an acute angle; fourth nearly straight, slightly slanting, forming a very slightly acute angle, much shorter than the third; fifth straight, slanting, forming an obtuse angle. Head and fore-chest pitchy, adorned with some indistinct tawny marks: head a little narrower than the fore-chest; face convex, black and adorned with broad yellow bands in front: mouth tawny with a black tip, extending to the hind borders of the drums: eyes very prominent: feelers black: fore-chest broadest near the base of the fore-wings; hind-scutcheon green, excavated, adorned with two brown spots and much widened on each side: scutcheon of the middle-chest black, tawny on each side and behind, adorned on the disk with two tawny stripes, which are each divided in front into three branches; between these are two short stripes forming an angle in front and with two black spots behind them; hind border slightly excavated: breast tawny: abdomen ferruginous, shining, very much longer than the chest, tapering from the base to the tip: opercula tawny: drums dark tawny, of moderate size, not apart: legs tawny; feet and fore-shanks black; middle-feet and perhaps the other feet pale tawny at the base; fore-thighs armed with two sharp, black teeth: wings with an extremely slight brown tinge, brown at the base, tawny along the fore border and in the adjoining part of the base; cross-veins clouded with brown; a row of slight brown spots near the tips of the marginal areolets; veins adorned with alternate black and pale tawny bands; veins of the hind-wings ferruginous; cross-veins darker; flaps brown towards the base. Length of the body 18 lines; of the wings 47 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

## 14. DUNDUBIA VIBRANS, Mas.

*Nervus transversus* 1us subcurvus obliquus, angulum obtusum fingens, 2o ferè triplo ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o multò brevior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet three-fourths of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by nearly thrice its length; second very slightly curved, slanting, forming an obtuse angle, much shorter than the first; third slightly waved, slanting, forming a slightly acute angle; fourth slightly waved, slanting, forming a slightly acute angle, larger than the third; fifth curved, nearly upright, forming a slightly acute angle. Body pale tawny, rather long: head a little narrower than the fore-chest, adorned with an irregular and interrupted black band; face very convex, adorned with black bands on each side: mouth tawny with a black tip, reaching to the hind-hips: eyes prominent: feelers black: fore-chest broadest near the base of the fore-wing: scutcheon adorned with four crooked black streaks, the outer pair short; sutures also blackish; hind-scutcheon widened and adorned with two large black spots above the base of each fore-wing, slightly notched and armed with a moderate-sized tooth on each side: scutcheon of the middle-chest adorned with five black stripes; a slight black streak in front between the two side pairs, which are slightly oblique; the inner pair much shorter than the outer pair, which are almost interrupted; hind border very slightly excavated: abdomen rather long, nearly linear, much longer than the chest; a short black stripe at the base and on each side of the tip; disks of the segments pitchy: opercula tawny, close; drums bright tawny, bordered with black, about half the length of the abdomen, narrow towards the base; widened towards the tips: legs pale tawny, clothed with paler hairs: tips of the shanks and of the feet pitchy; tips of the claws black, fore-thighs armed with three teeth, two large and one small; hind-shanks beset with black spines: wings colourless, pale tawny at the base: tips of the fore-wings slightly clouded with brown; first and second cross-veins clouded with brown; an almost imperceptible brown streak on each marginal areolet; veins partly black, partly tawny, the latter colour prevailing most towards the base; flaps pale tawny at the base. Length of the body 17 lines; of the wings 44 lines.

a, b. Silhet. From the Rev. J. Stainforth's collection.

## 15. DUNDUBIA MICRODON, Mas.

*Nervus transversus*, 1us *curvus, obliquus, angulum obtusum fingens*, 2o *triplo ejus longitudine divisus*; 2us *subrectus valde obliquus, angulum valde obtusum fingens*, 1i *dimidio vix longior*; 3us *subundatus, obliquus, angulum vix acutum fingens*; 4us *subrectus, obliquus, angulum acutum fingens*, 3o *longior*.

Second marginal areolet three-fourths of the length of the first: first cross-vein curved, slanting, forming an obtuse angle, parted from the second by thrice its length; second nearly straight, very slanting, forming a very obtuse angle, hardly more than half the length of the first; third very slightly waved, slanting, forming a hardly acute angle; fourth nearly straight, slanting, forming an acute angle, longer than the third; fifth curved, forming a slightly acute angle. Body black: head a little narrower than the fore-chest, adorned with a tawny and green stripe in front, and with a green irregular circle on each side of the eyelets; face convex, adorned above with a short yellow stripe, and in front with yellow bands: mouth tawny with a black tip, reaching the hind-hips: eyes very prominent: feelers black: fore-chest green, broadest near the base of the fore-wings: scutcheon adorned with four slightly waved black stripes, the outer pair very short; furrows black; hind-scutcheon green, widened and slightly angular on each side, in front of which there is a very small tooth: scutcheon of the middle-chest adorned with four green stripes, the outer pair much longer than the inner pair; a green dot near each side, which like the hind border is also green; the latter is slightly excavated: breast tawny: abdomen black, shining, tapering from the base to the tip, brown beneath; hind borders of the segments green: opercula black; drums dull green, blackish towards the tips, tapering, very long, not far apart, more than half the length of the abdomen: legs tawny: thighs striped with black; fore-shanks, feet, and tips of the other shanks black; fore-thighs armed with three black teeth, of these two are long, and one very small; a tawny band on each middle-foot: wings colourless, green at the base; first and second cross-veins clouded with brown; a row of small pale brown spots on the tips of the longitudinal veins of the marginal areolets; veins black; flaps adorned with opaline lustre. Length of the body 16 lines; of the wings 42 lines.

a. North India. Presented by Dr. Wallich.

## 16. DUNDUBIA OPALIFERA, Mas.

*Nervus transversus* 1us curvus, obliquus, angulum valdè obtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subrectus, obliquus, angulum valdè obtusum fingens, 1o multò brevior; 3us subcurvus, subobliquus, angulum ferè rectum fingens; 4us subcurvus, obliquus, angulum ferè rectum fingens, 3o paullò brevior.

Second marginal areolet nearly three-fourths of the length of the first: first cross-vein curved, slanting, forming a very obtuse angle, parted from the second by nearly thrice its length; second nearly straight, slanting, forming a very obtuse angle, very much shorter than the first; third very slightly curved, slanting, forming a nearly right angle; fourth very slightly curved, slightly slanting, forming a nearly right angle, a little shorter than the third; fifth slightly curved, nearly upright, forming a nearly right angle. In the right wing of the insect described, the fourth cross-vein is shortened by means of a little additional areolet between the third and fourth discoidal areolets. Body black: head a little narrower than the fore-chest, adorned with an irregular tawny border: face convex; its front and the sides of the breast tawny: mouth tawny with a black tip, reaching nearly to the hind-hips: feelers black, tawny at the base: eyes prominent: scutcheon of the fore-chest adorned with a tawny disk, which has three black stripes on each side; hind-scutcheon tawny with two black spots at the base of each fore-wing, where the border is also black, edged with black, and armed with a small tooth on each side: scutcheon of the middle-chest tawny; its disk black, adorned with two tawny stripes which have between them a double U-shaped mark, and behind them are two short tawny streaks; the stripes send out two oblique branches, one linear, the other club-shaped; hind border slightly excavated: abdomen black, tapering from the base to the tip, brown beneath: opercula pitchy; drums pointed, black, rather large, not far apart, not more than half the length of the abdomen: legs tawny; thighs streaked with black; tips of the thighs and of the feet black; fore-thighs armed with three rather long black teeth; spines of the hind-shanks black: wings colourless, adorned with opaline lustre, tawny along the fore border, pale tawny with pitchy marks at the base; veins tawny; first and second cross-veins clouded with brown; fore-flaps brown; hind-flaps brown at the base. Length of the body 15 lines; of the wings 39 lines.

a. Corea. Presented by Sir E. Belcher.



## 17. DUNDUBIA NIGRISTIGMA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum rectum fingens, 2o plus duplò ejus longitudine divisus; 2us valdè curvus, obliquus, angulum subobtusum fingens, 1o longior; 3us subcurvus, subobliquus, angulum subacutum fingens; 4us subcurvus, subobliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein slightly curved, slightly slanting, forming a right angle, parted from the second by much more than twice its length: second much curved, slanting, forming a slightly obtuse angle, longer than the first; third very slightly curved, slightly slanting, forming a very slightly acute angle; fourth very slightly curved, slightly slanting, forming a very slightly acute angle, longer than the third; fifth nearly straight, slanting, forming an obtuse angle. Body dull tawny: head much narrower than the fore-chest; crown adorned with two black bands, which are arranged in an elliptical form; face convex: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: fore-chest broadest near the base of the fore-wings: scutcheon adorned with two black stripes which are widened in front and with two black reversed C-shaped marks; furrows black: hind-scutcheon narrow in the middle, much widened and slightly angular by the base of each fore-wing, armed with two teeth on each side: scutcheon of the middle-chest adorned with four black stripes and on the hind border with four black dots; middle stripes broad in front, united behind; hind border very slightly excavated: abdomen obconical, much longer than the chest; hind borders of the segments adorned with black bands whose outlines are very irregular; disk beneath and tip black: opercula dull tawny, large, nearly meeting on the back; drums tawny, small, not extending beyond the base of the abdomen: legs tawny; fore-shanks, fore-feet and tips of the shanks and of the feet black; claws black towards the tips; fore-thighs armed with two rather long black teeth: wings very slightly tinged with brown; veins black, tawny along the fore border with the exception of the brand, which is black; cross-veins clouded with brown; a row of very small brown spots on the tips of the longitudinal veins of the marginal areolets; flaps brown at the base. Length of the body 10 lines; of the wings 28 lines.

*a.* Philippine Islands. From Mr. Cuming's collection.

## 18. DUNDUBIA ABLBISTIGMA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum acutum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, erectus, angulum subobtusum fingens, 1i longitudine; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet between one-half and two-thirds of the length of the first: first cross-vein slightly curved, slightly slanting, forming an acute angle, parted from the second by much more than twice its length; second very slightly curved, upright, forming a slightly obtuse angle, as long as the first; third very slightly waved, slanting, forming a slightly acute angle; fourth very slightly waved, slanting, forming an acute angle, much larger than the third; fifth very slightly curved, nearly upright, forming a slightly obtuse angle. Body tawny, somewhat ferruginous, covered with white down: head a little narrower than the fore-chest; some black marks on each side of the crown; space about the eyelets also black; face very convex, adorned in front with a broad black stripe, on each side of which there are black bands: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned in front with two triangular black spots; hind-scutcheon angular and slightly notched and armed with a very short tooth on each side: scutcheon of the middle-chest adorned with five black stripes, the inner pair short but succeeded by two black dots, the outer pair broad; hind border very slightly excavated: abdomen slightly obconical, larger than the chest, adorned on the hind border of each segment with a pitchy band which is widened on each side into a triangular spot; four tubercles on the under side; opercula dull tawny; drums small, tinged with green, a little apart, not more than one-third of the length of the abdomen: legs tawny; claws black, tawny at the base; fore-thighs armed with three black teeth, one very short, two very long: wings colourless, grayish at the base; cross-veins from the first to the fourth clouded with brown; brands whitish; veins tawny: cross-veins and a few parts of the longitudinal veins black; flaps grayish at the base. Length of the body 13 lines; of the wings 41 lines.

a, b. China. Presented by G. T. Lay, Esq.

## 19. DUNDUBIA RUFIVENA, Mas.

*Nervus transversus* 1us *subcurvus*, *subobliquus*, *angulum subobtusum* *tingens*, 2o *duplo ejus longitudine divisus*; 2us *subcurvus*, *obliquus*, *angulum obtusum* *tingens*, 1o *multo brevior*; 3us *subcurvus*, *subobliquus*, *angulum rectum* *tingens*; 4us *subcurvus*, *ferè erectus*, *angulum rectum* *tingens*, 3o *brevior*.

Second marginal areolet nearly five sixths of the length of the first: first cross-vein very slightly curved, slightly slanting, forming a slightly obtuse angle, parted from the second by twice its length; second very slightly curved, slanting, forming an obtuse angle, much shorter than the first; third very slightly curved, very slightly slanting, forming a right angle; fourth slightly curved, nearly upright, forming a right angle, shorter than the third: fifth slightly curved, nearly upright, forming a nearly right angle. In the right wing of an insect of this species the fourth cross-vein is a little longer than the third; and joins the hind-vein of the third discoidal areolet before the fork of the latter. Body pale grass-green: head much narrower than the fore-chest; face very convex: mouth tawny, reaching the middle-hips: feelers tawny: eyes not prominent: fore-chest broadest near the base of the fore-wings; hind-scutcheon broad, finely furrowed, forming a very obtuse angle by the base of each fore-wing, brownish and slightly notched on each side, armed with a small tooth towards the fore border: scutcheon of the middle-chest indistinctly marked with four obconical, fawn-coloured stripes, outer pair obconical, about thrice the length of the inner pair, which are semicircular; hind border slightly excavated: abdomen obconical, much longer than the chest: opercula pale green: drums very large, pale green, narrow towards the base, much more than half the length of the abdomen: legs green; tips of shanks, feet, fore-shanks, and spines of the hind-shanks tawny; tips of the claws black; fore-thighs armed with three tawny teeth: wings whitish, grass-green at the base; veins pale fawn-colour with a reddish tinge towards the base; flaps pale green towards the base. Length of the body 13 lines; of the wings 33 lines

*a, b.* Java. From Mr. Argent's collection.

## 20. DUNDUBIA SERVA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o sexties ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o multo longior; 3us ferè rectus, subobliquus, angulum rectum fingens; 4us rectus, subobliquus, angulum rectum fingens, 3o longior.

Second marginal areolet full two-thirds of the length of the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by full six times its length; second nearly straight, very slanting, forming a very obtuse angle, very much longer than the first; third nearly straight, slightly slanting, forming a right angle; fourth straight, very slightly slanting, forming a right angle, longer than the third; fifth slightly curved, nearly upright, forming a right angle. Head wanting: body brownish-tawny: fore-chest broadest near the base of the fore-wings: scutcheon adorned with two black stripes; furrows blackish; hind-scutcheon tawny with a black hind border, widened, slightly angular and armed with a moderate sized tooth on each side: scutcheon of the middle-chest adorned with five black stripes; the side pairs oblique, the inner pair short, the outer pair much interrupted; hind border tawny, very slightly excavated: breast tawny: abdomen obconical, much longer than the chest, tawny beneath: opercula blackish; drums tawny, very large, more than half the length of the abdomen, narrow at the base, slightly overlapping towards their tips: legs tawny; fore-shanks, feet, and tips of the other shanks darker; tips of the claws black; fore-thighs armed with three black teeth, of these two are long, and one is very small: wings colourless; veins black, tawny towards the base and along the fore border. Length of the body 12 lines; of the wings 36 lines.

a. Corea. Presented by Sir E. Belcher.

## 21. DUNDUBIA FULIGINOSA, Mas.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum valdè obtusum fingens, 2o plus triplo ejus longitudine divisus; 2us subrectus, valdè obliquus, angulum valdè obtusum fingens, 1o paullo brevior; 3us rectus, subobliquus, angulum rix acutum fingens; 4us rectus, subobliquus, angulum rix acutum fingens, 3o paullo brevior.

Second cross-vein nearly three-fourths of the length of the first: first cross-vein nearly straight, very slanting, forming a very obtuse

angle, parted from the second by more than thrice its length; second nearly straight, very slanting, forming a very obtuse angle, a little shorter than the first; third straight, slightly slanting, forming a hardly acute angle; fourth straight, slightly slanting, forming a hardly acute angle, a little shorter than the third; fifth curved, slanting, forming a nearly right angle. Body brownish tawny: head a little narrower than the fore-chest, adorned with a very irregular and interrupted black band across the crown; face very convex, rather prominent, adorned with a black spot, and in front with two black stripes and on each side with five black bands: mouth tawny with a black tip, reaching to the hind-hips: eyes very prominent: feelers black: fore-chest broadest near the base of the fore-wings; scutcheon adorned with two black stripes which do not reach the hind border: sides of the hind-scutcheon widened, angular, and notched, and in front armed with a rather large tooth: scutcheon of the middle-chest adorned with five black stripes; the inner pair shortened behind, but succeeded by two black spots; the outer pair irregular and interrupted in front; hind border very slightly excavated: abdomen slightly obconical, much longer than the chest; drums very long, dull tawny with a broad black band near the tip, two-thirds of the length of the abdomen: legs dark tawny; feet and tips of the shanks black; fore-thighs armed with rather long tawny teeth, of these two are rather long, and one very small: wings tinged with pale brown; veins black, pitchy along the fore border. Length of the body 14 lines; of the wings 36 lines.

a. Philippine Islands. From Mr. Cuming's collection.

## 22. DUNDUBIA LATERALIS, Mas et Fem.

*Nervus transversus* 1us curvus, obliquus, angulum valdè obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subundatus obliquus, angulum valdè obtusum fingens, 1o multò brevior; 3us subcurvus, subobliquus, angulum ferè rectum fingens; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet three-fourths of the length of the first: first cross-vein curved, slanting, forming a very obtuse angle, parted from the second by four times its length; second very slightly waved, slanting, forming a very obtuse angle, much shorter than the first: third very slightly curved, slightly slanting, forming a nearly right angle; fourth waved, slanting, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly acute

angle. Body tawny: head narrower than the fore-chest; crown adorned with four large black marks, the middle pair triangular, connected at the base; face prominent, adorned above with a triangular black mark, and on each side in front with black bands: eyes prominent: mouth tawny with a black tip: feelers black: fore-chest adorned with six black stripes; the middle pair slightly converge and then diverge, and include an elliptic space; the other four are oblique; each side forming a very obtuse angle at the base of the fore-wing, armed with a stout tooth near the fore border; hind-scutcheon rather narrow in the middle, broader on each side: a black stripe on the scutcheon of the middle-chest extends from the fore border along two-thirds of the length; on each side of this a black slightly oblique stripe extends from the fore border to half the length of the middle stripe, and is succeeded by a black dot; more outward there is a very small black streak, and still nearer the border a long black much excavated and slightly slanting stripe appears; excavation on the hind border extremely slight: abdomen almost linear till near the tip, where it is obconical, very much longer than the chest, adorned with an interrupted black stripe in the middle, and with a row of black spots on each side; disks of the segments mostly pitchy: opercula tawny, rather small; tymbals pale green; drums pale tawny, very large, much more than half the length of the abdomen, green towards the tips which are pitchy, broadest in the middle part, slightly concave on the outer side, very convex on the inner side; legs tawny; tips of the claws black; middle and hind-thighs and shanks tinged with green; fore-thighs armed with two oblique teeth: wings colourless, pale brown at the base; veins and fore borders green: veins black towards the tips, and adorned with broad black bands on the fore-wings, whose cross-veins are also black; first and second cross-veins clouded with brown.

*Fem.*—Abdomen obconical, a little narrower than the chest, very tapering and slender towards the tip, adorned with some pitchy marks along the back and on each side, and with some black marks towards the tip: oviduct black.

Length of the body 13—14 lines; of the wings 40—42 lines.

*a, b.* Silhet. From the Rev. J. Stainforth's collection.

## 23. DUNDUBIA NIGRIMACULA, MAS.

*Nervus transversus* 1us *curvus, obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us rix undatus, valdè obliquus, angulum perobtusum fingens, 1o multò brevior; 3us rix undatus, valdè obliquus, angulum ferè rectum fingens; 4us ferè rectus, subobliquus, angulum rix acutum fingens, 3o paullò brevior.*

Second marginal areolet three-fourths of the length of the first: first cross-vein curved, slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second hardly waved, very slanting, forming an extremely obtuse angle, much shorter than the first; third hardly waved, slightly slanting, forming a nearly right angle; fourth almost straight, slightly slanting, forming a hardly acute angle, a little shorter than the third; fifth curved, nearly upright, forming a very slightly acute angle. Body tawny, linear: head narrower than the fore-chest; face very convex: eyes prominent: mouth tawny with a pitchy tip: feelers tawny: fore-chest a little broader than long, somewhat narrower in front than behind; sides rounded at the base of the fore-wings, thence very slightly concave, armed with a small tooth near the fore border; hind-scutcheon green, broad, slightly furrowed: excavation on the hind border of the scutcheon of the middle-chest extremely slight: abdomen slightly obconical, longer than the chest, ferruginous and adorned with a row of pitchy spots on each side, tinged with green on each side beneath: opercula close, rather small: drums very large, green, long and narrow, three-fourths of the length of the abdomen: legs tawny; tips of the claws black: fore-thighs armed with two tawny teeth: wings and flaps of the hind-wings colourless, tawny at the base and along the fore borders; an almost imperceptible tawny tinge on the tips of the fore-wings; veins tawny, black towards the tips. Length of the body 17 lines; of the wings 46 lines.

a, b. Java. From Mr. Argent's collection.

## 24. DUNDUBIA SOBRIA, FEM.

*Nervus transversus* 1us *subcurvus obliquus, angulum valdè obtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us subcurvus, obliquus, angulum acutum fingens; 4us rectus, subobliquus, angulum subacutum fingens, 3o rix longior.*

Second marginal areolet three-fourths of the length of the first: first cross-vein very slightly curved, slanting, forming a very obtuse

angle, parted from the second by nearly thrice its length; second slightly curved, slightly slanting, forming an obtuse angle, very much shorter than the first; third very slightly curved, slanting, forming an acute angle; fourth straight, slightly slanting, forming a slightly acute angle, very little longer than the third; fifth curved, upright, forming a nearly right angle. Body tawny: head narrower than the fore-chest; face prominent: mouth pitchy, its tip black: eyes prominent: feelers tawny: fore-chest a little narrower in front than behind; its sides rounded or almost obtusely angular at the base of the fore-wings, straight from thence as far as the fore border, where each is armed with a very small tooth; hind-scutcheon pale tawny: excavation on the hind border of the scutcheon of the middle-chest very shallow: abdomen obconical, very hairy towards the tip, a little longer than the chest: legs tawny; tips of the claws black; fore-thighs armed with two tawny teeth, one oblique, the other nearly upright: wings slightly tinged with tawny; veins green, black at the tips; fore borders brown: flaps pale brown with a black vein on the fore border; flaps of the hind-wings colourless, pale brown at the base. Length of the body 15 lines: of the wings 44 lines.

a. Hong Kong. Presented by J. C. Bowring, Esq.

#### 25. DUNDUBIA VIRESCENS.

*Cicada virescens*, *Oliv. Enc. Méth.* v. 747, 5. pl. 110, f. 2. *Stoll, Cic.* 38, pl. 7, f. 35.

#### 26. DUNDUBIA FUSCA.

*Cicada fusca*, *Oliv. Enc. Méth.* v. 749, pl. 111, f. 3. *Stoll, Cic.* 39, pl. 7, f. 36.

#### 27. DUNDUBIA URANIA, Mas.

*Nervus transversus* 1us *curvus, obliquus, angulum obtusum fingens*, 2o *ferè triplò ejus longitudine divisus*; 2us *subcurvus, obliquus, angulum valdè obtusum fingens*, 1i *longitudine*; 3us *subcurvus obliquus, angulum acutum fingens*; 4us *subcurvus, subobliquus, angulum rix acutum fingens*, 3o *paullò brevior*.

Second marginal areolet much more than three-fourths of the length of the first: first cross-vein curved, slanting, forming an obtuse angle, parted from the second by near thrice its length; second slightly curved, slanting, forming a very obtuse angle, as long as the first; third very slightly curved, slanting, forming an acute angle; fourth very slightly curved, slightly slanting, forming a hardly



acute angle, a little shorter than the third; fifth straight, nearly upright, forming an obtuse angle. Body rather long, somewhat spindle-shaped, ferruginous, partly covered with hoary bloom: head and scutcheon of the fore-chest tinged with green: head narrower than the fore-chest: face very convex, rather prominent: mouth tawny with a black tip, extending some distance beyond the hind borders of the drums: feelers tawny, very slender except at the base: fore-chest a little narrower in front than behind; hind-scutcheon bright green, partly ferruginous along the fore border, rounded and somewhat widened at the base of the fore-wing, slightly angular, but not toothed on each side: scutcheon of the middle-chest green on each side and at the tip: cross-ridge pale tawny; excavation on the hind border very slight: abdomen slightly obconical, very much longer than the chest, green and powdered with white beneath, adorned at the base with a short snow-white band, which forms two triangles: opercula pale tawny, close, of moderate size; drums green, of moderate size, slightly overlapping, full one-fourth of the length of the abdomen: legs tawny, tinged with green; fore-thighs armed with three tawny teeth, two large, one very small; claws black, tawny at the base: wings colourless; fore-wings slightly tinged with tawny towards the tips; a row of pale brown spots along the tips of the longitudinal veins of the submarginal areolets; first and second cross-veins clouded with brown, traces of which are visible on the other cross-veins; fore border green as far as the braud, dark tawny from thence towards the tip; veins green, adorned with black bands across the breadth beneath the braud, wholly black towards the tips: primitive areolet, fore-membrane, flaps at the base and for a space along the hind border tawny. Length of the body 16 lines; of the wings 41 lines.

a. East India. From Archdeacon Clerk's collection.

## 28. DUNDUBIA PSECCAS, Fem.

*Nervus transversus* 1us valdè curvus, subobliquus, angulum acutum fingens, 2o plus quam ejus longitudine divisus; 2us valdè curvus, obliquus, angulum subobtusum fingens, 1i longitudine; 3us curvus, obliquus, angulum acutum fingens, 4us subcurvus, obliquus, angulum acutum fingens, 3o puillò longior.

Second marginal areolet five-sixths of the length of the first: first cross-vein very much curved, slightly slanting, forming an acute angle, parted from the second by much more than its length: second much curved, slanting, forming a slightly obtuse angle, as long as the first; third curved, slanting, forming an acute angle: fourth slightly curved, slanting, forming an acute angle, very little

longer than the third ; fifth very slightly curved, slightly slanting, forming an obtuse angle. Body tawny : head much narrower than the fore-chest ; crown adorned with some black marks about the eyelets and with two tawny marks on each side ; face very convex : mouth tawny with a black tip, reaching a little beyond the hind-bips : eyes rather prominent : feelers tawny : scutcheon of the fore-chest adorned with two black stripes, which are widened into triangles in front and behind ; fore border partly blackish ; sides ferruginous with pitchy borders ; hind-scutcheon rather narrow in the middle, much widened at the base of each fore-wing, much excavated on each side : scutcheon of the middle-chest adorned with four ferruginous stripes ; a large tawny spot on each of the inner pair which are succeeded by two ferruginous spots ; outer pair much longer than the inner pair, much excavated, their tips widened to each side : hind border slightly excavated : abdomen obconical, as long as the chest, adorned near the base with interrupted pitchy bands on the hind borders of the segments : oviduct ferruginous : legs tawny ; a pitchy band near the tip of each shank ; fore-thighs adorned with some pitchy marks, armed with three tawny teeth, one oblique and of moderate size, the second and third small : wings colourless ; fore border and veins tawny, the latter with some pitchy bands, which are chiefly on the forks : cross-veins clouded with brown ; a row of oval brown spots on the tips of the longitudinal veins of the marginal areolets. Length of the body 11 lines ; of the wings 36 lines.

7. Java. From Mr. Argent's collection.

## 29. DUNDUBIA CLONIA, Mas.

*Verrus transversus* 1us *curvus, obliquus, angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus ; 2us valdè curvus, obliquus, angulum subobtusum fingens, 1o rix brevior ; 3us subundatus, obliquus, angulum acutum fingens ; 4us rix undatus, obliquus, angulum acutum fingens, 3o paullò brevior.*

Second marginal areolet four-fifths of the length of the first : first cross-vein curved, slanting, forming a slightly obtuse angle, parted from the second by more than twice its length ; second much curved, slanting, forming a very slightly obtuse angle, nearly as long as the first ; third very slightly waved, slanting, forming an acute angle : fourth hardly waved, slanting, forming an acute angle, a little shorter than the third ; fifth straight, slanting, forming an obtuse angle. Body tawny, tinged with green, spindle-shaped : head a little narrower than the fore-chest, adorned with a curved-shaped

pitchy spot which incloses the eyelets, and on each side with two larger ferruginous spots; face convex, not prominent, ferruginous above with the exception of a tawny triangular spot on the hind border; mouth tawny with a pitchy tip extending to the hind border of the drums: eyes very prominent: feelers black: fore-chest narrower before than behind; scutcheon adorned with four pitchy stripes; the middle pair widened on the fore border, slightly converging thence for two-thirds of the length, then diverging and curved and including a spindle-shaped tawny spot; furrows and sides mostly pitchy; hind-scutcheon mostly green, narrow in the middle, rounded much widened and adorned with two large pitchy spots above the base of each fore-wing, slightly excavated and armed with a very small tooth on each side: scutcheon of the middle-chest adorned with five pitchy stripes and with two pitchy spots; the middle stripe longer than the inner pair, which are slightly oblique: outer pair apparently obliterated with the exception of their hinder part: hind border very slightly excavated, with a pitchy streak on each side: abdomen slightly obconical, rather less than twice the length of the chest, adorned with a pitchy spot on each side of every segment from the base to the tip which is pitchy: opercula extremely small, not covering the tymbals which are white with brown bands and spots; drums very small, pale green, slightly overlapping: legs tawny; thighs tinged with green, claws black, tawny at the base; fore-thighs armed with three tawny teeth, two of moderate size, one very small: wings narrow, colourless, adorned with opaline lustre; fore border tawny with the exception of a brown band adjoining the brand which is tawny; veins tawny, adorned with black bands, partly ferruginous in the disk, black at the tips; first and second cross-veins clouded with brown; a row of brown spots on the tips of the longitudinal veins of the marginal areolets; primitive areolet pale tawny; fore-flaps dark tawny; hind-flaps dark tawny at the base, and for a short space along the hind border. Length of the body 18 lines; of the wings 42 lines.

a. Ceylon.

### 30. DUNDUBIA NICOMACHIE, Mas.

*Nervus transversus* 1us *curvus, subobliquus, angulum obtusum fingens*, 2o *quadruplò ejus longitudine divisus*; 2us *subcurvus, subobliquus, angulum obtusum fingens*, 1o *paullò brevior*; 3us *subundatus, obliquus, angulum vix acutum fingens*; 4us *undatus angulum acutum fingens*, 3o *longior et obliquior*.

Second marginal areolet two-thirds of the length of the first; first cross-vein curved, very slightly slanting, forming an obtuse an-

gle, parted from the second by four times its length; second very slightly curved, very slightly slanting, forming an obtuse angle, a little shorter than the first; third very slightly waved, slanting, forming a hardly acute angle; fourth waved, forming an acute angle, longer and more slanting than the third; fifth curved, upright, forming a very slightly acute angle. Body black, nearly linear, tawny beneath: head a little narrower than the fore-chest, adorned with two zigzag tawny marks behind the eyelets, and with a long angular tawny stripe on each side between the eyes; face very convex, rather prominent, adorned with a short tawny stripe, and on each side with tawny bands along the whole length: mouth tawny with a black tip, reaching beyond the hind-hips: eyes prominent: feelers black: fore-chest a little narrower in front than behind; scutcheon adorned with a tawny side-stripe, and elsewhere mostly occupied by four large, oblique, tawny spots; the inner pair are much larger than the outer pair, and each contains a sickle-shaped, pitchy spot; hind-scutcheon tawny, narrow in the middle, rounded, much widened and adorned with three large, pitchy spots near the base of each fore-wing, slightly excavated and armed with a tooth on each side: disk of the scutcheon of the middle-chest adorned on each side with three or four irregular tawny streaks, which vary in length and in breadth; sides, cross-ridge and hind border tawny, the latter rather deeply excavated: abdomen pitchy, slightly obconical, much longer than the chest; hind borders of the segments tawny; underside tawny, pitchy at the tip: opercula tawny, close; drums tawny, obconical, very large, a little apart, more than two-thirds of the length of the abdomen: legs tawny; feet ferruginous; claws black, ferruginous towards the base; fore-thighs armed with three tawny teeth, two of moderate size, the third very small: wings colourless, long, narrow; fore border tawny; veins tawny, adorned with black bands across the disk beneath the brand, black towards the tips, marked with black at the base; fore-flaps pale tawny with a brownish tinge, which colour also occurs on the hind-flaps, at the base, and for a short space along the hind border. Length of the body  $10\frac{1}{2}$  lines; of the wings 34 lines.

a. North India. From Mr. Warwick's collection.

## 31. DUNDUBIA TIGRINA, Mas.

*Nervus transversus 1us rectus, valdè obliquus, angulum subacutum fingens, 2o sexties ejus longitudine divisus; 2us subundatus, obliquus, angulum perobtusum fingens, 1o duplò longior; 3us undatus, valdè obliquus, angulum acutum fingens; 4us rix curvus, valdè obliquus, angulum acutum fingens, 3o multò brevior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein straight, very slanting, forming a slightly acute angle, parted from the second by full six times its length: second very slightly waved, slanting, forming an extremely obtuse angle, full twice the length of the first; third waved, very slanting, forming an acute angle: fourth hardly curved, very slanting, forming an acute angle, much shorter than the third; fifth nearly straight, almost upright, forming a slightly obtuse angle. Body tawny, nearly linear, clothed with pale silky down: head narrower than the fore-chest, with a slight ferruginous tinge above; crown adorned with four black stripes, middle pair close together, partly united between the eyelets; side pair nearly round on proceeding from the base of the feelers, thence narrower and slightly curved; face convex, not prominent, adorned with a black band on each side: mouth tawny with a black tip, extending a little beyond the hind-hips: eyes prominent: feelers black: fore-chest narrower before than behind; scutcheon adorned with four black stripes, the middle pair slightly converging from the fore border to the hind border, the outer pair more oblique: hind-scutcheon very narrow in the middle, adorned with a black spot and very much widened above the base of each fore-wing, slightly excavated and armed with a short tooth on each side: scutcheon of the middle-chest adorned with five slender black stripes; middle one entire, inner pair much interrupted, outer pair slightly interrupted; hind border very slightly excavated: abdomen slightly obconical, ferruginous above, much longer than the chest; hind borders of the segments pitchy; under side tawny, pitchy at the base and at the tip: opercula tawny, close; drums black, small, far apart, the outer border tawny: legs tawny; thighs striped with black; tips of the shanks pitchy; claws black, ferruginous at the base: fore-feet and middle-feet black; hind-feet ferruginous; fore-thighs armed with three black teeth, two long, one small: wings colourless, long, narrow: fore border bright ferruginous as far as the brand, pitchy from thence to the tip; veins black, ferruginous towards the base; first and second cross-veins clouded with brown: a row of brown spots along the tips of the veins of the marginal arcolets, the spots with the exception of the first and the

second are very indistinct; fore-flaps gray; hind-flaps gray at the base and for a space along the hind border. Length of the body 11 lines; of the wings 33 lines.

a. Malabar. From Mr. Walker's collection.

### 32. DUNDUBIA MACULIPES, Mas.

*Nervus transversus* 1us ferè rectus, subobliquus, angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, erectus, angulum subobtusum fingens, 1i longitudine; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum ferè rectum fingens, 3o brevior.

Second marginal areolet much more than two-thirds of the length of the first: first cross-vein very nearly straight, very slightly slanting, forming a slightly obtuse angle, parted from the second by much more than twice its length; second very nearly straight, upright, forming a slightly obtuse angle, as long as the first; third almost straight, slanting, forming a slightly acute angle; fourth very slightly curved, slanting, forming a slightly acute angle, shorter than the third; fifth curved, upright, forming a right angle. Body tawny, covered with whitish down: head much narrower than the fore-chest; two interrupted black bands across the crown; face very convex; its furrows in front black: mouth pale tawny with a black tip, reaching far beyond the hind-hips: eyes prominent: fore-chest widest near the hind border; scutcheon adorned with two black stripes, its sides and the furrows also blackish; hind-scutcheon having on each side a very obtuse angle near the base of the fore-wing, and thence forming a waved line which is first concave and then convex: scutcheon of the middle-chest adorned with two U-shaped black marks; a black dot behind each of these, and on each side a black oblique stripe; excavation on the hind border broad but shallow: abdomen nearly elliptical, much longer than the chest, adorned with four rows of black spots, two in the middle and one on each side; hind borders of the segments and tip partly black: opercula small, blackish; tymbals white; drums large, pale tawny, slightly overlapping, rather less than half the length of the abdomen: legs pale tawny, having a pitchy band near the tip of each thigh and shank, the latter has also a pitchy band near the base; feet tawny, pitchy at the base, black towards the tips; fore-thighs streaked with black, and armed with one black, and one tawny tooth: wings colourless, pale tawny, and marked with black at the base, green along the fore border; veins green, black towards the tips; cross-veins black, strongly marked, clouded with brown from the first to the fourth: a

row of small brown spots near the tips of the longitudinal veins of the submarginal areolets; flaps of the hind-wings pale brownish tawny towards the base and along the fore border. Length of the body 12 lines; of the wings 34 lines.

a. North Bengal. From Miss Campbell's collection.

### 33. DUNDUBIA CARMENTE, Mas.

*Nervus transversus* 1us ferè rectus, obliquus, angulum acutum fingens, 2o quadruplò ejus longitudine divisus; 2us rectus, ferè erectus, angulum obtusum fingens, 1o rix longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us rectus, obliquus, angulum rectum fingens, 3o multò brevior.

Second marginal areolet a little more than half the length of the first: first cross-vein nearly straight, slanting, forming an acute angle, parted from the second by full four times its length: second straight, nearly upright, forming an obtuse angle, hardly longer than the first; third nearly straight, slanting, forming a very slightly acute angle: fourth straight, slanting, forming a right angle, much shorter than the third; fifth straight, upright, forming a slightly obtuse angle. Body tawny, rather narrow, partly covered with pale shining down: head a little narrower than the fore-chest; crown adorned with a large black spot which sends forth branches on each side; face convex, adorned with two black stripes which are interrupted in front: mouth tawny with a black tip, reaching beyond the hind-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned with two black stripes which are slightly waved; on each side of these are two short curved pitchy stripes, and beyond the latter two black oblique stripes occupy the furrows: sides black; hind-scutcheon adorned with two pitchy spots, narrow in the middle, rounded and much widened at the base of the fore-wing, excavated on each side: scutcheon of the middle-chest adorned with five black stripes: middle one slender; the other four rather broader and slightly oblique, the inner pair shorter than the outer pair, near whose tips are four black dots; hind border very slightly excavated: abdomen obconical, longer than the chest, adorned with a double row of slender black marks on the hind borders of the segments; under side paler, adorned with four black spots, pitchy at the tip: opercula tawny, rather large; their disks mostly pitchy: drums pitchy, rather large, tawny along the outer side, very narrow towards the tips, nearly half the length of the abdomen: legs tawny, tips of the claws black; fore-hips and fore-thighs adorned with pitchy streaks; fore-thighs armed with four teeth, one tawny near the base,

the other three black, two large and one small; fore-shanks ferruginous: wings colourless; their tips slightly tinged with brown: fore border tawny as far as the brand, black from thence towards the tip; veins black, tawny at the base: hind-flaps at the base and fore-flaps brown. Length of the body 9 lines: of the wings 30 lines.

a. Java. From Mr. Argent's collection.

### 34. DUNDUBIA THALIA, Mas.

*Nervus transversus 1us curvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us vix curvus, obliquus, angulum obtusum fingens, 1o dimidio paullo longior; 3us subcurvus, obliquus, angulum vix acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o paullo brevior.*

Second marginal areolet less than half the length of the first: first cross-vein curved, oblique, forming an obtuse angle, parted from the second by very much more than twice its length; second hardly curved, oblique, forming an obtuse angle, very little more than half the length of the first; third very slightly curved, oblique, forming a hardly acute angle; fourth slightly curved, oblique, forming a slightly acute angle, a little shorter than the third; fifth nearly straight, almost upright, forming a very slightly obtuse angle.

*Var.?* First cross-vein slightly slanting; second slightly curved, upright, forming a slightly obtuse angle, a little longer than the first; third slightly waved, forming an acute angle; fourth very slightly curved, forming an acute angle; fifth slightly curved. Body tawny, narrow, linear: head a little narrower than the fore-chest, adorned above with three large black spots, one on the region of the eyelets; face prominent, very convex, adorned in front with a black stripe, which sends forth black bands on each side: mouth pale tawny with a black tip, reaching the middle-hips: eyes prominent: feelers tawny at the base: fore-chest narrower before than behind; scutcheon adorned with two black stripes which are widened before and behind, and with two pitchy marks nearer the sides which are mostly pitchy; hind-scutcheon narrow in the middle, pitchy, very broad, and forming an obtuse angle near the base of each fore-wing, pitchy along the fore border, armed with a tooth in the middle of each side: disk of the scutcheon of the middle-chest black, adorned with two tawny stripes, which are divided in front and the outer fork of each forms three branches; sides and hind border tawny, the latter hardly excavated: abdomen pale tawny, slightly obconical, a little narrower and much longer than the chest, adorned on each side



with a very broad pitchy band, which from the second segment to the tip occupies the whole surface; a pitchy spot on each side of the second and of the following segments: opercula pale tawny, partly pitchy, not near covering the tymbals, which are whitish with pale tawny bands; drums whitish, large, near together, narrower towards the tips, less than half the length of the abdomen: legs pale tawny; claws black towards the tips; fore-thighs not much thickened, armed with three tawny teeth, two of which are of moderate size, and one very small: wings with a very indistinct tawny tinge, whitish at the base and on the fore-flaps, and on the hinder base of the flaps; fore border pale tawny as far as the brand, darker from thence to the tip; veins tawny, very pale at the base, black at the tips; first and second cross-veins clouded with brown; a row of indistinct pale brown spots along the tips of the longitudinal veins of the marginal areolets. Length of the body 8 lines; of the wings 30 lines.

*a—c.* ——— ?

### 35. DUNDUBIA CLIO, Mas.

*Nervus transversus 1us subcurvus erectus angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum subobtusum fingens, 1o multò longior; 3us vix undatus, obliquus, angulum ferè rectum fingens; 4us vix undatus, obliquus, angulum vix obtusum fingens, 3o multò longior.*

Second marginal areolet half the length of the first: first cross-vein very slightly curved, upright, forming a slightly obtuse angle, parted from the second by much more than twice its length; second slightly curved, nearly upright, forming a slightly obtuse angle, much longer than the first; third hardly waved, slanting, forming a nearly right angle; fourth hardly waved, slanting, forming a hardly obtuse angle, much longer than the third; fifth hardly curved, upright, forming a nearly right angle. Body narrow, linear, partly covered with shining whitish down: head and chest green, tinged with tawny: head a little narrower than the fore-chest; a broad and very irregular black band across the crown; face very convex, rather prominent, adorned in front with two black stripes which send forth black bands on each side: mouth pale green with a black tip, reaching the middle-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned with two black stripes whose outer sides are very irregular; sides and furrows blackish; hind-scutcheon much widened on each side, convex at the base of the fore-wing, between which and the fore border it is very slightly excavated: scutcheon of the middle-chest adorned with five black stripes, the middle one

is widened towards the hind border into a diamond-shaped spot which has a black dot on each side; inner pair slender, short, slightly oblique; outer pair excavated on the inner side in front, forming a right angle on the outer side at the tips; hind border slightly excavated: abdomen ferruginous, almost linear from the base to the tip, much longer than the chest, adorned with a broad black interrupted band on each segment, and on each side with a broad pale tawny stripe which extends along half the length from the base; hind borders of the segments green; under side tawny with a pitchy tip: opercula very small, pale tawny with pitchy borders, partly covering the tymbals, which are whitish with tawny bands: legs green, tinged with tawny; a pitchy mark on each hip and on the tip of each middle-thigh and hind-thigh, and at the base of each hind-shank, and both at the base and at the tip of each fore-thigh and fore-shank and middle-shank; feet black: wings colourless; primitive areolet, fore-membrane and the base of the flap pale buff; veins black, mostly tawny towards the base; brands black, yellow towards the base; fore border green, ferruginous beyond the brand; cross-veins from the first to the fourth slightly clouded with brown; a row of little brown spots on the tips of the longitudinal veins of the submarginal areolets; flaps hardly tinged with brown along the fore border. Length of the body 9 lines; of the wings 26 lines.

*a, b.* ———?

### 36. DUNDUBIA DIMINUTA, Mas.

*Nervus transversus 1us subcurvus, ferè erectus, angulum vix obtusum fingens, 2o ferè quadruplò ejus longitudine divisus; 2us ferè rectus, obliquus, angulum valdè obtusum fingens, 1i longitudine; 3us subundatus, subobliquus, angulum rectum fingens; 4us subundatus, subobliquus, angulum subacutum fingens, 3i longitudine.*

Second marginal areolet much more than half the length of the first: first cross-vein slightly curved, nearly upright, forming a hardly obtuse angle, parted from the second by nearly four times its length; second nearly straight, slanting, forming a very obtuse angle, as long as the first: third slightly waved, slightly slanting, forming a right angle, joining the second discoidal areolet; fourth very slightly waved, slightly slanting, forming a slightly acute angle, joining the base of the sixth marginal areolet, as long as the third; fifth very slightly curved, upright, forming a right angle. Body tawny, narrow, nearly linear, partly covered with pale shining down: head a little narrower than the fore-chest; crown adorned with three black stripes, the middle one broad, and including the

eyelets; face very convex, adorned in front with a black stripe, which sends forth black bands on each side: eyes prominent: mouth tawny with a black tip, nearly reaching the hind-hips: feelers tawny at the base: fore-chest narrower in front; scutcheon adorned with a black stripe which is widened in front and behind, includes a tawny stripe, and has a curved pitchy mark on each side; hind-scutcheon narrow above, angular and much widened on each side: middle-chest adorned with four brown stripes; the outer pair are very large and occupy each side, the inner pair are very short, and between them there is a brown stripe which has a brown spot on each side: hind border very slightly excavated: abdomen adorned with a broad brown stripe, and on each side with a row of brown spots, much longer than the chest, tapering from the base to the tip which is pitchy: drums pale tawny, more than one-third of the length of the abdomen, not meeting beneath, narrower towards their tips: legs tawny; fore-thighs armed with two rather small teeth; wings colourless; fore border tawny as far as the brand, pitchy from thence towards the tip; veins black, tawny towards the base; first and second cross-veins clouded with brown; a brown spot on the tip of each longitudinal vein between the first and the fourth marginal areolets; hind-flaps at the base and fore-flaps gray. Length of the body 9 lines; of the wings 25 lines.

a. ———?

### 37. DUNDUBIA LABYRINTHICA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum subobtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o paullo longior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o multò brevior.

Second marginal areolet full two-thirds of the length of the first: first cross-vein very slightly curved, very slightly slanting, forming a slightly obtuse angle, parted from the second by full four times its length; second very slightly curved, slightly slanting, forming an obtuse angle, a little longer than the first; third slightly curved, slanting, forming a slightly acute angle; fourth almost straight, slanting, forming a slightly acute angle, much shorter than the third; fifth curved, upright, forming a nearly right angle. Body tawny: head of moderate size, a little narrower than the fore-chest, adorned with a broad, irregular, slightly curved black band which includes two tawny spots, and indicates two branches to the hind border; face pale green, prominent, very convex, adorned with

two broad black stripes; epistoma partly black; mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers black: fore-chest with a black dot near the middle of the hind border of the scutcheon; furrows blackish; hind-scutcheon slightly rounded and adorned with a black spot near the base of each fore-wing, armed with a stout tooth on the middle of each side: scutcheon of the middle-chest adorned with four obconical black stripes, the outer pair with tawny net-work, of which there are some traces in the middle pair; the latter are much shorter than the former, and are succeeded by two large black spots: abdomen obconical, much longer than the chest, adorned above with three rows of black marks, and on the last segment with two short black stripes; a short black stripe on the under side: oviduct black: legs tawny; hips spotted with black; thighs striped with black; tips of the claws and fore-feet black; fore-thighs armed with three long black teeth: wings colourless, green along the fore border; veins green, black at the tips and on the hind borders of the fore-wings; fore borders of the hind-flaps tinged with brown. Length of the body  $8\frac{1}{2}$  lines; of the wings 23 lines.

a. New Holland. Presented by the Haslar Hospital.

### 38. DUNDUBIA MELPOMENE, Fem.

*Nervus transversus* 1us subcurvus, subobliquus, angulum obtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1i longitudine; 3us subundatus, obliquus, angulum subacutum fingens; 4us vix undatus subobliquus, angulum vix acutum fingens, 3i longitudine.

Second marginal areolet more than two-thirds of the length of the first: first cross-vein very slightly curved, very slightly slanting, forming an obtuse angle, parted from the second by thrice its length; second slightly curved, slanting, forming a very obtuse angle, as long as the first; third very slightly waved, slanting, forming a very slightly acute angle; fourth hardly waved, slightly slanting, forming a hardly acute angle, as long as the third; fifth curved, nearly upright, forming an almost right angle. Body tawny: head narrower than the fore-chest; crown adorned with three united black spots, each of which surrounds one of the eyelets; face prominent, very convex, adorned in front with two slender black stripes; some of the furrows blackish: mouth tawny with a black tip, reaching the hind hips: eyes prominent: feelers black, tawny towards the base: fore-chest narrower before than behind: scutcheon adorned

with two black slender stripes which slightly converge, but cease at some distance from the hind border, where they are succeeded by two black dots; furrows and side borders pitchy; hind-scutcheon pale tawny, widened, rounded, and adorned with a black spot at the base of each fore-wing, armed with a tooth on each side: scutcheon of the middle-chest dark tawny, adorned with five slender black stripes; the inner pair proceeding from the fore border, slightly oblique, shorter and broader than the middle one; the outer pair at some distance from the fore border, slightly curved above; near each of them on the fore border are two black dots, and there are two black dots near the cross-ridge; hind border slightly excavated: abdomen obconical, longer than the chest, ferruginous above, tawny at the base, armed with a rather long horn which is pitchy towards the tip: legs pale tawny; claws black towards the tips; fore-thighs armed with three teeth, first and second rather large, first pale tawny, second black, third black and small; fore-feet and tips of the fore-shanks pitchy: wings slightly tinged with tawny: fore border bright tawny as far as the brand, dark tawny from thence to the tips; veins tawny, black towards the tips: fore-flaps tawny; hind-flaps tawny at the base and for a space along the hind border. Length of the body 15 lines; of the wings 42 lines.

a. Philippine Islands.

### 39. DUNDUBIA SAMIA, Mas.

*Nervus transversus* *Ius curvus, erectus, angulum ferè rectum fingens, 2o ferè duplò ejus longitudine divisus*; *2us curvus, erectus, angulum subobtusum fingens, 1o paullò longior*; *3us subcurvus, obliquus, angulum subacutum fingens*; *4us subcurvus, obliquus, angulum ferè rectum fingens, 3o brevior.*

Second marginal areolet full two-thirds of the length of the first: first cross-vein curved, upright, forming a nearly right angle, parted from the second by nearly twice its length; second curved, upright, forming a very slightly obtuse angle, a little longer than the first; third slightly curved, slanting, forming a very slightly acute angle; fourth very slightly curved, slanting, forming a nearly right angle, shorter than the third; fifth straight, upright, forming a right angle. Body green, tinged here and there with tawny: head much narrower than the fore-chest, pitchy about the eyelets, and with a pitchy streak on each side along the eye: mouth tawny with a black tip reaching beyond the hind-lips: eyes prominent: feelers tawny: scutcheon of the fore-chest adorned with a pale streak which is slightly widened in front and behind; a pitchy spot on each side; hind-scutcheon narrow in the middle, slightly

angular and much widened at the base of each fore-wing, slightly excavated on each side: scutcheon of the middle-chest ferruginous, adorned with some green marks, of these there is a large angular spot in the middle, on each side a forked mark, behind which there is a curved mark, and nearer each side a slight streak; hind border slightly excavated: abdomen obconical, tawny, darker at the tip, longer than the chest, paler beneath: opercula tawny, small; drums pale green, small, far apart: legs tawny; tips of the claws black; fore-thighs armed with three teeth, two of moderate size, one very small: wings colourless; fore border green, tawny beyond the brand: veins green, adorned with a few black bands, tawny towards the tips; cross-veins clouded with pale brown: a row of pale brown spots near the tips of the longitudinal veins of the marginal areolets; fore-flaps brown; hind-flaps brown between the middle-veins and the fore border. Length of the body 13 lines; of the wings 34 lines.

*a.* North India. From Mr. Warwick's collection.

#### 40. DUNDUBIA QUADRITUBERCULATA.

*Cicada quadrituberculata*, Signoret, *Ann. Soc. Ent. Fr. 2me Série*, v. 297.

#### 41. DUNDUBIA TUBEROSA.

*Cicada tuberosa*, Signoret, *Ann. Soc. Ent. Fr. 2me Série*, v. 299.

### Genus 11. FIDICINA.

*Fidicina*, Amyot et Serr. *Hist. Nat. Hém.* 472, 373.

#### 1. FIDICINA ANGULARIS.

*Cicada angularis*, Germ. *Silb. Rev. Ent.* ii. 68, 31.

*Nervus transversus* 1us ferè rectus, perobliquus, angulum perobtusum fingens, 2o ferè duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o brevior; 3us undatus, obliquus, angulum acutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o longior.

Second marginal areolet nearly as long as the first: first cross-vein nearly straight, extremely slanting, forming an extremely obtuse angle, parted from the second by a little less than twice its length; second very slightly curved, slanting, forming a very obtuse angle, shorter than the first; third waved, slanting, forming a slightly acute angle; fourth slightly waved, slanting, forming an acute angle, longer than the third; fifth curved, nearly upright.

forming a slightly acute angle. Body black, dark ferruginous beneath: head as broad as the fore-chest, adorned with a tawny stripe which is interrupted and forms three parts of a circle in the middle: just behind it and adjoining the eyes are two large tawny spots; face conical, prominent, deep ferruginous: mouth black, ferruginous at the base, reaching the hind-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned with three tawny spots, the middle one club-shaped, the side pair nearly oval: hind-scutcheon dark ferruginous, its sides hardly angular: scutcheon of the middle-chest adorned with six tawny marks, the middle pair very small, the next pair nearly conical, the outer pair longer; hind border dark ferruginous, slightly excavated: abdomen obconical, longer than the chest, clothed with ferruginous hairs: legs ferruginous; shanks darker than the thighs; feet black; fore-thighs armed with three tawny teeth: wings more iridescent than usual, adorned with blue and purple lustre, brown and tawny and marked with black at the base; veins bright tawny: longitudinal veins towards the tips and cross-veins clouded with brown: flaps tinged with brown, bright pale red towards the base. Length of the body 21 lines: of the wings 60 lines.

*a—f.* New Holland.

## 2. FIDICINA MANNIFERA.

*Tettigonia mannifera*, *Fabr. Syst. Rhyn.* 36, 13. *Stoll, Cic.* 88. pl. 23, f. 126.

*Cicada mannifera*, *Germ. Silb. Rev. Ent.* ii. 56, 1. *Burm. Haubl. Ent.* ii. 1, 183, 8. *Blanch. Hist. Ins.* iii. 167, 15.

*Cicada cantatrix?* *Germ. Thon, Arch.* ii. 2, 5, 36, 51.

*a.* Brazil. Presented by J. G. Children Esq.

*b, c.* Brazil. From Mr. Mornay's collection.

*d—g* Brazil.

## 3. FIDICINA RECTA, Fem.

*Nerrus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, li dimidia vix longior; 3us undatus, subobliquus, angulum vix acutum fingens; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet full seven-eighths of the length of the first: first cross-vein nearly straight, very oblique, forming an extremely obtuse angle, parted from the second by nearly thrice its

length: second very slightly curved, very oblique, forming an extremely obtuse angle, hardly more than half the length of the first; third waved, slightly oblique, forming a hardly acute angle; fourth waved, oblique, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming a slightly acute angle. Body black, short, broad, partly covered with tawny down: head as broad as the fore-chest; a tawny dot in front of the crown; face very slightly convex: mouth black, tawny at the base, reaching the hind-hips: eyes not prominent: feelers black: hind-scutcheon of the fore-chest adorned with two large tawny spots, almost straight on each side, which, however, is very slightly concave and has an obtuse angle near the base of each fore-wing: scutcheon of the middle-chest adorned with two small tawny spots near the middle of its hind border, which is hardly excavated: abdomen obconical, longer than the chest: drums tawny, extremely small, far apart: legs dark tawny; thighs, especially the fore pair and the middle pair, striped with black; tips of the shanks, feet and fore-shanks black; fore-thighs armed with three black teeth, of these two are long and one very small: wings colourless, green along the fore border for half the length, dark brown from thence to the tips, towards the base black, to which colour succeeds a small space adorned with opaline lustre: veins tawny, black towards the tips; first and second cross-veins and the adjoining parts of the longitudinal veins clouded with dark brown: flaps black towards the base. Length of the body 18 lines; of the wings 54 lines.

a. Silhet. From Mr. Sowerby's collection.

#### 4. FIDICINA NIVIFERA, Mas.

*Nervus transversus 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus obliquus, angulum valdè obtusum fingens, Vi dimidio longitudine; 3us undatus, obliquus, angulum subacutum fingens; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.*

Second marginal areolet as long as the first: first cross-vein slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by nearly thrice its length; second very slightly curved, slanting, forming a very obtuse angle, full half the length of the first; third waved, slanting, forming a slightly acute angle; fourth waved, slanting, forming an acute angle, much shorter than the third; fifth slightly curved, nearly upright, forming an acute angle. Body black, shining, short and broad, partly clothed with golden hairs which are most prevalent beneath: head very broad



and short, a little broader than the fore-chest; face slightly convex, not at all prominent: feelers and mouth black; the latter reaching to the middle-hips: sides of the fore-chest forming very obtuse angles near the fore-wings, thence straight for a space, afterwards abruptly widened, and lastly slightly convex to the fore border; furrows dark ferruginous; hind-scutcheon rather broad, ferruginous with the exception of the border: scutcheon of the middle-chest adorned with four ferruginous stripes; the side pair communicating with two small ferruginous spots, rather in advance of the middle pair, which are nearly straight; hind border ferruginous, its excavation rather broad but very shallow: abdomen obconical, hardly longer than the chest, adorned on each side with a very large white patch which occupies the sides of the segments from the second to the fifth; under side with a very broad ferruginous stripe on each side: opercula pitchy, close, rather large; drums tawny, very large, slightly overlapping, much more than half the length of the abdomen, nearly triangular, tapering much towards the tips: legs black; thighs with ferruginous stripes; shanks ferruginous with black tips; fore-thighs armed with two long teeth: wings colourless, dark brown at the base, tinged with green from thence to the middle of the fore-wings, clouded with brown at the tips of the veins of all the wings; first and second cross-veins clouded with dark brown; veins bright green, black towards the tips: veins of the hind-wings very pale green for a space before the black tips; flaps of the hind-wings colourless, brown at the base and along the borders. Length of the body 20 lines; of the wings 62 lines.

*a.* Java. From Mr. Argent's collection.

#### 5. FIDICINA ACUTA.

*Cicada acuta*, Signoret, *Rev. Zool.* 1849, 409, 4, pl. 10, f. 3, 3a.

*F. nivifera* may be a variety of this species.

#### 6. FIDICINA PICEA, Fem.

*Nervus transversus* 1us curvus, valdè obliquus, angulum perobtusum fingens, 2o triplò ejus longitudine divisus; 2us curvus, valdè obliquus, angulum perobtusum fingens, 1i longitudine; 3us undatus obliquus, angulum acutum fingens; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein curved, very slanting, forming an extremely obtuse angle, parted from the second by thrice its length; second curved, very slanting, forming an extremely obtuse angle, as long

as the first; third waved, slanting, forming an acute angle; fourth waved, slanting, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming an almost right angle. Body pitchy, short, broad, very hairy: head almost black about the eyelèts; face very slightly convex, not at all prominent: mouth pitchy, paler at the base, hardly reaching beyond the middle-shanks: eyes prominent: feelers black: fore-chest very little broader than the head; scutcheon slightly convex on each side with the exception of a very slight excavation: a black oblique stripe on each side of the scutcheon of the middle-chest, whose hind border has a moderately deep excavation: abdomen almost black, slightly obconical, rather compressed at the tip, not longer nor broader than the chest: legs dark tawny, hairy; tips of the claws black; fore-thighs armed with two stout tawny teeth: wings slightly tinged with brown, dark brown at the base; veins very dark green, pitchy at the base and along the fore border; flaps brown at the base. Length of the body 18 lines: of the wings 56 lines.

a. Mexico. From M. Hartweg's collection.

#### 7. FIDICINA BUBO, Mas et Fem.

*Nervus transversus 1us subundatus, subobliquus, angulum vix distinctum fingens, 2o plus triplò ejus longitudine divisus; 2us subundatus, vultè obliquus, angulum perobtusum fingens, 1i longitudine; 3us undatus, subobliquus, angulum vix acutum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o longior.*

Second marginal areolet nearly five-sixths of the length of the first: first cross-vein very slightly waved, very slanting, forming an extremely slight angle, parted from the second by more than thrice its length; second very slightly waved, very slanting, forming an extremely obtuse angle, as long as the first; third waved, slightly slanting, forming a hardly acute angle; fourth waved, slanting, forming a slightly acute angle, longer than the third; fifth curved, upright, forming a right angle.

*Male*.—Body black, short, broad, shining, partly clothed with tawny down which forms patches on the chest: head as broad as the fore-chest, adorned in front with five tawny spots, the largest on the crown: mouth and feelers black: eyes prominent: fore chest with two dark tawny spots near the hind border of the scutcheon: its sides forming very obtuse angles at the base of the fore-wings, and having a very slight excavation at half the length from thence to the fore border: hind-scutcheon rather broad, its hind border dark

tawny; scutcheon of the middle-chest with two curved converging furrows; two tawny spots on each side; excavation on the hind border very slight; abdomen obconical, a little longer than the chest; a dark tawny stripe along each side beneath: opercula black, rather large; drums large, black, nearly half the length of the abdomen, irregularly triangular, tawny on the outer sides and at the tips, which are narrow and pointed: legs black; thighs tawny beneath except at the base and at the tips: a slender tawny band near the base of each middle-shank; hind-shanks tawny, black at the base and at the tips; a broad tawny band on each hind-foot; fore-thighs armed with two long black teeth: wings dark brown for half the length from the base, slightly tinged with brown from thence to the tips, adorned at the base of each fore-wing with a tawny spot beyond which there is a tawny stripe extending nearly half the length of the fore border: veins tawny for half the length from the base, black from thence to the tips.

*Fem.*—Abdomen much longer than the chest.

Length of the body 17—19 lines; of the wings 56 lines.

*a, b.* Hong Kong. Presented by J. C. Bowring, Esq.

*Note.*—*C. Aquila* and *C. Accipiter* have two additional cross-veins dividing the third and fourth discoidal areolets. There are indications of this disposition in other large species, and nearly all the *Cicadæ*, with the exception of a few of the smallest, show the rudiments of these veins between the above-mentioned areolets where the longitudinal vein has a knot which is the point of intersection of the invisible cross-veins.

## 8. FIDICINA ACCIPITER, Mas.

*Nervus transversus* 1us subundatus, subobliquus, angulum perobtusum fingens, 2o plus duplè ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens; 1i dimidio longior; 3us subundatus, subobliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly waved, very slanting, forming an extremely obtuse angle, parted from the second by very much more than twice its length; second very slightly curved, slanting, forming a very obtuse angle, hardly more than half the length of the first; third very slightly waved, slightly slanting, forming a right angle; fourth slightly waved, slanting, forming a slightly acute angle, much lon-

ger than the third; fifth curved, upright, forming a hardly acute angle. Body black, short, broad, shining, partly clothed with tawny hairs: head as broad as the fore-chest; face slightly convex, not at all prominent; mouth black, reaching the middle-hips: eyes not prominent: feelers black; scutcheon of the fore-chest furrowed, having on each side a tawny spot which is different in size and shape from that of *C. Aquila*; sides very slightly convex in front and behind, slightly notched in the middle part: scutcheon of the middle-chest adorned with a dark tawny spot on each side of the excavation, which is very slight: abdomen obconical, a little longer than the chest, dark tawny on each side towards the base, and thence to the tip clothed with deep tawny down excepting a stripe along the middle: under side dark tawny: opercula large, black, close, tawny on each side: drums tawny, large, more than half the length of the abdomen, irregularly triangular, narrow, pointed and slightly curved towards the tips, adorned with innumerable pale ringlets: a short black horn at the tip of the abdomen: legs black; four hinder thighs dark tawny beneath; fore-thighs armed with two long black teeth: wings brown, adorned with purplish and copper lustre, blackish brown mottled with pale brown on more than one-third of the length from the base of the fore-wings, and on more than two-thirds of the hind-wings; brands dark brown; veins along the fore borders of the fore-wings clouded with dark brown to the tips; veins tawny, black towards the tips of the fore-wings; flaps pale brown, adorned with numerous parallel streaks, black at the base, dark brown along the fore border. Length of the body 21 lines; of the wings 57 lines.

a. Philippine Islands. From Mr. Cuming's collection.

### 9. FIDICINA AQUILA, Fem.

*Nervus transversus* 1us ferè rectus, perobliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, perobliquus, angulum perobtusum fingens, 1i longitudine; 3us subundatus, subobliquus, angulum rix acutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein nearly straight, extremely slanting, forming an extremely obtuse angle, parted from the second by a little more than thrice its length; second slightly curved, extremely slanting, forming an extremely obtuse angle, as long as the first; third slightly waved, slightly slanting, forming a hardly acute angle; fourth slightly waved, slanting, forming an acute angle, much longer than the third: fifth curved, upright, forming a hardly acute angle. Body black,

short, broad, shining, partly clothed with tawny hairs: head short and broad, a little narrower than the fore-chest; face slightly convex, not at all prominent: mouth black, reaching the hind-lips: eyes not prominent: feelers black: sides of the fore-chest slightly concave in the middle, slightly convex before and behind; hind-scutcheon rather broad, with a short dark tawny streak on each side along the fore border: hind border of the scutcheon of the middle-chest dark tawny, its excavation very slight: abdomen obconical, longer than the chest, tawny on each side and beneath: oviduct ferruginous: legs black; hind-thighs tawny beneath; hind-shanks tawny, black at the base and at the tips, beset with black spines: fore-thighs armed with two long black teeth: fore-wings rather narrow and pointed, slightly tinged with pale brown, black for more than one-third of the length from the base, and thence dark brown along one-fourth of the breadth along the fore border to the tips; hind-wings black for more than half the length from the base, almost colourless from thence to the tips; flaps dark brown; veins of the fore-wings tawny, black towards the tips; veins of the hind-wings black. Length of the body 19 lines; of the wings 55 lines.

*a.* Corea. Presented by Sir E. Belcher.

#### 10. FIDICINA TAURUS, Fem.

*Nervus transversus 1us subundatus, obliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us curvus, subobliquus, angulum subobtusum fingens, 1o paullò brevior; 3us ferè rectus, subobliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet nearly five-sixths of the length of the first: first cross-vein very slightly waved, slanting, forming an obtuse angle, parted from the second by four times its length; second curved, slightly slanting, forming a slightly obtuse angle, a little shorter than the first; third nearly straight, slightly slanting, forming a right angle; fourth slightly waved, slanting, forming a slightly acute angle, very much longer than the third; fifth curved, upright, forming a hardly acute angle. Body tawny, short, broad: head very broad; face very slightly convex in front, not at all prominent: mouth tawny with a pitchy tip, extending a little beyond the middle-lips: eyes prominent: feelers black: fore-chest as broad as the head, slightly tinged with green; hind-scutcheon broad, furrowed, tinged with ferruginous colour, forming at the base of each fore-wing an extremely obtuse angle whose sides are very slightly convex: scut-

cheon of the middle-chest adorned with four dark green obconical stripes, the middle pair shorter than the outer pair; cross-ridge dark green; excavation on the hind border shallow: abdomen pitchy above, shorter and a little broader than the chest, with the exception of its tip which is compressed its length does not exceed its breadth: legs tawny; fore-feet and tips of the shanks pitchy: fore-thighs armed with two teeth: wings very pale brown, much darker at the base and along the fore borders; veins dark green, black towards the tips; flaps brown at the base and along the veins. Length of the body 21 lines: of the wings 58 lines.

*a* ——— ?

### 11. FIDICINA CORVUS, Fem.

*Nervus transversus 1us subundatus valdè obliquus, angulum perobtusum fingens, 2o ferè triplè ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1i dimidio non longior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.*

Second marginal areolet more than five-sixths of the length of the first: first cross-vein very slightly waved, very slanting, forming an extremely obtuse angle, parted from the second by nearly thrice its length; second slightly curved, slanting, forming a very obtuse angle, not more than half the length of the first; third slightly waved, slanting, forming a very slightly acute angle; fourth slightly waved, slanting, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming an almost right angle. Body black, short, broad, adorned here and there with patches of bright tawny down: head nearly as broad as the fore-chest: face very convex, adorned with a tawny spot: mouth black, reaching the hind-hips: feelers black: eyes not prominent: scutcheon of the fore-chest broad, slightly widened and forming a very obtuse angle at the base of each fore-wing, nearly straight on each side: hind border of the middle-chest very slightly excavated: abdomen obconical, very little longer than the chest, adorned with a tawny spot on each side of the tip beneath; legs black; thighs striped with tawny; hind-shanks tawny, black at the base and at the tips; fore-thighs armed with two long black teeth: wings nearly colourless with a slight pale brown tinge at the tips, very dark brown towards the base; fore border dark brown, striped with green, veins black, greenish towards the base. Length of the body 17 lines; of the wings 54 lines.

*a.* Silhet. From Mr. Sowerby's collection.

## 12. FIDICINA APER, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o sexties ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us rectus, subobliquus, angulum subobtusum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o plus duplò longior.

Second marginal areolet less than three-fourths of the length of the first: first cross-vein slightly curved, slanting, forming a very obtuse angle, parted from the second by six times its length; second slightly curved, very slanting, forming an extremely obtuse angle, much longer than the first; third straight, very slightly slanting, forming a slightly obtuse angle; fourth slightly waved, slanting, forming an acute angle, more than twice the length of the third; fifth curved, almost upright, forming a hardly acute angle. Body tawny, short and broad: head full as broad as the fore-chest; crown adorned with two irregular and branched black bands which are united between the eyelets: face very slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned along the hind border with a black band, which in the middle is widened into a triangle; furrows black; hind-scutcheon with three extremely shallow excavations on the hind border, slightly convex and forming a very obtuse angle near the base of each fore-wing, blackish on each side: scutcheon of the middle-chest pitchy on the disk and having an oblique black stripe on each side; hind border rather deeply excavated: abdomen obconical, a little longer than the chest, pitchy above, ferruginous and clothed with pale down along the hind border and on each side of the segments: opercula pitchy, small; drums tawny, very small, rather far apart: legs tawny; claws and tips of the fore-thighs and of the hind-shafts black; fore-thighs armed with one stout tooth: wings colourless, but with an extremely slight tawny tinge, black towards the base, ferruginous along the fore border: veins ferruginous, black towards the tips; first and second cross-veins clouded with dark brown; flaps black towards the base and along the fore border. Length of the body 18 lines; of the wings 48 lines.

a. Cayenne. Presented by H. C. Rothery, Esq.

## 13. FIDICINA RANA, Mas.

*Nervus transversus* 1us subrectus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subundatus, perobliquus, angulum perobtusum fingens, 1o multò longior; 3us undatus, ferè erectus, angulum rix obtusum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet full three-fourths of the length of the first: first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by more than thrice its length; second slightly waved, extremely slanting, forming an extremely obtuse angle, much longer than the first; third waved, nearly upright, forming a hardly obtuse angle; fourth slightly waved, slanting, forming an acute angle, much longer than the third; fifth slightly curved, upright, forming a hardly acute angle. Body dark tawny, short and broad; head nearly as broad as the fore-chest: face slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers tawny at the base: hind-scutcheon of the fore-chest paler tawny, obtusely angular: scutcheon of the middle-chest pitchy; excavation on the hind border rather deep, forming half a circle: abdomen obconical, shorter and narrower than the fore-chest, pitchy above; tip and hind borders of the segments tawny: operculà small; drums tawny, far apart, about one-fourth of the length of the abdomen: legs dark tawny, clothed with paler hairs; claws tawny with black tips; fore-thighs armed with two stout tawny teeth: wings colourless, pitchy at the base, dark tawny along the fore border; cross-veins and tips of the longitudinal veins of the marginal areolets clouded with brown; primitive areolet tawny: flaps pitchy at the base. Length of the body 15 lines; of the wings 48 lines.

a ———?

## 14. FIDICINA CHLOROGENA, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us valdè curvus, obliquus, angulum subobtusum fingens, 1o multò brevior; 3us subundatus, obliquus, angulum rectum fingens, 4us curvus, obliquus, angulum rix acutum fingens, 3o multò longior.

Second marginal areolet more than three-fourths of the length of the first: first cross-vein very slightly curved, very slanting, form-



ing an extremely obtuse angle, parted from the second by more than twice its length; second much curved, slanting, forming a slightly obtuse angle, much shorter than the first: third very slightly waved, slanting, forming a right angle; fourth curved, slanting, forming a hardly acute angle, much longer than the third; fifth curved, nearly upright, forming an acute angle. Body tawny, short, broad, clothed with paler hairs: head hardly narrower than the fore-chest; crown adorned with an irregular black band which incloses the eyelets: face very slightly convex, adorned in front with a black stripe: mouth tawny with a black tip, reaching beyond the middle-hips: eyes prominent: feelers dark tawny: scutcheon of the fore-chest tinged with green: hind-scutcheon green, forming on each side a very obtuse angle, having three very shallow excavations on the hind border: scutcheon of the middle-chest adorned with two black curved marks which taper from the fore border; hind border tinged with green, rather slightly excavated: abdomen almost linear till near the tip, shorter than the chest; hind borders of the segments tinged with green: opercula none; drums tawny, not far apart, nearly half the length of the abdomen: legs tawny, clothed with paler hairs; tips of the claws black; fore-thighs armed with two stout tawny teeth: wings colourless, bright grass-green near the base, dark tawny along the fore border; veins dark tawny; a tawny tinge on the hind-wings near the base which is tawny. Length of the body 15 lines; of the wings 45 lines.

a ———?

#### 15. FIDICINA OPALINA.

*Fidicina opalina*, *Amyot et Serv. Hist. Nat. Hém.* 472, 2.  
*Cicada opalina*, *Germ. Thon, Arch.* ii. 2, 52. *Silb. Rev. Ent.* ii.  
 57, 3.

a. Brazil. Presented by J. G. Children, Esq.

b—d Brazil.

#### 16. FIDICINA ATRATA.

*Tettigonia atrata*, *Fabr. Syst. Ent.* 681, 15. *Sp. Ins.* ii. 321, 18.  
*Mant. Ins.* ii. 267, 22. *Ent. Syst.* iv. 24, 28. *Syst. Rhyn.* 42.  
 44. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 80.

*Cicada atrata*, *Germ. Thon, Arch.* ii. 2, 55. *Silb. Rev. Ent.* ii. 68.  
 30.

*Cicada nigra*, *Oliv. Enc. Méth.* v. 750, 17. pl. 111, f. 5. *Stoll,*  
*Cic.* 84, pl. 22, f. 118.

*Cicada atra*, *Signoret, Rev. Zool.* 1849, 406, 1, pl. 10, f. 1.

a—g China.

## 17. FIDICINA INTERMEDIA?

*Cicada intermedia?* *Signoret, Rev. Zool.* 1849, 406, pl. 10, f. 2.  
*a.* Tenasserim. Presented by — Packman, Esq.

## 18. FIDICINA VICINA?

*Cicada vicina?* *Signoret, Rev. et Mag. de Zool.* 1849. 410, 5, pl. 10, f. 4.  
*a.* Silhet. From Mr. Sowerby's collection.  
*b.* ———?

## 19. FIDICINA OPERCULATA.

*Cicada operculata, Carreno.*  
*a, b.* ———?

## 20. FIDICINA OPERCULARIS.

*Cicada opercularis, Oliv. Enc. Méth.* v. 749, 12, pl. 111, f. 1.  
*Stoll, Cic.* 25, pl. 3, f. 13. *Germ. Thon, Arch.* ii. 2, 45. *Signoret, Rev. Zool.* 1849. 408, 3.

## 21. FIDICINA IMMACULATA.

*Cicada immaculata, Oliv. Enc. Méth.* v. 752, 29, pl. 112, f. 7.  
*Stoll, Cic.* 40, pl. 8, f. 39. *Signoret, Rev. Zool.* 1849, 410, 6.  
*a, b.* North Bengal. From Miss Campbell's collection.

## 22. FIDICINA? REPANDA.

*Cicada repanda, Linn. Syst. Nat.* i. 2, 707, 17. *Mus. Lud. Utr.* 159, 6. *Gmel, Ed. Syst. Nat.* i. 3, 2097, 17. *Deg. Ins.* iii. 209, 15, pl. 33, f. 1. *Oliv. Enc. Méth.* v. 754, 36. *Germ. Thon, Arch.* ii. 220. *Silb. Rev. Ent.* ii. 78. c.  
*Tettigonia repanda, Fabr. Sp. Ins.* ii. 321, 16. *Mant. Ins.* ii. 267. 20. *Ent. Syst.* iv. 23, 24. *Syst. Rhyn.* 41, 39.

## 23 FIDICINA LITERATA, Mas.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us ferè rectus, valdè obliquus, angulum valdè obtusum fingens, 1o brevior; 3us undatus, subobliquus, angulum rix obtusum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3i longitudine.

Second marginal areolet full five-sixths of the length of the first: first cross-vein almost straight, very slanting, forming an extremely obtuse angle, parted from the second by almost thrice its length; second almost straight, very slanting, forming a very obtuse angle, shorter than the first; third waved, slightly slanting, forming a hardly obtuse angle; fourth slightly curved, slanting, forming a very slightly acute angle, as long as the third; fifth slightly curved, nearly upright, forming an almost right angle. Body black above, pale tawny beneath: head a little narrower than the fore-chest, adorned on each side of the face with a tawny band whose hind border is much excavated; on each side of the hind border there is a tawny band which is much notched, and ascends on each side of the eyelets; face black, slightly convex, adorned with two black spots, one in front, the other on the hind border: mouth tawny with a pitchy tip reaching beyond the middle-hips: eyes not prominent: feelers black: scutcheon of the middle-chest tawny with a black hind border; in the middle are two triangular black spots including tawny spaces and communicating by their hind angles with the border; hind-scutcheon tawny, having on each side a very shallow rim which forms a very obtuse angle whose fore side is very slightly excavated and about twice the length of its hind side, the latter is very slightly convex: scutcheon of the middle-chest adorned with two U-shaped tawny marks which communicate with two large tawny spots whose inner sides are much excavated; hind border tawny, very slightly excavated in the middle where it has a short broad tawny band which sends fourth two short oblique tawny branches towards the spots above mentioned; on each side of the latter are two tawny spots, one small, the other large and close to the base of the fore-wing: abdomen longer but not broader than the chest, somewhat ferruginous on each side, tinged with green towards the tip beneath: opercula rather large; drums rather large, pale tawny tinged with green, slightly overlapping, less than half the length of the abdomen: legs pale tawny: wings colourless, pale tawny with some pitchy marks at the base: veins pale tawny, ferruginous towards the

tips; flaps pale tawny towards the base, a tawny streak along the fore border. Length of the body 20 lines; of the wings 59 lines;  
*a.* ——— ?

#### 24. FIDICINA EXCAVATA, Mas.

*Nervus transversus* 1us ferè rectus, perobliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, perobliquus, angulum non fingens, 1o paullò brevior; 3us valdè curvus, ferè erectus, angulum rectum fingens; 4us obliquus, undatus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about four-fifths of the length of the first: first cross-vein nearly straight, extremely slanting, forming an extremely obtuse angle, parted from the second by more than twice its length; second nearly straight, extremely slanting, forming an almost straight line with the longitudinal vein, a little shorter than the first: third very much curved, nearly upright, forming a right angle; fourth oblique, waved, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body dark tawny, rather short and broad: head a little narrower than the fore-chest; face slightly convex, tinged with green: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers tawny at the base: hind-scutcheon of the fore-chest slightly tinged with green, excavated and forming a very obtuse angle in the middle of the hind border, slightly widened and forming a very obtuse angle above the base of each fore-wing: scutcheon of the middle-chest adorned with two black obconical marks which proceed from the fore border, and are each accompanied on the outer side by a small black spot; excavation on the hind border rather deep, forming half a circle: abdomen obconical, very little longer than the chest; fore borders of the segments black; drums tawny, not far apart, about one-fourth of the length of the abdomen: legs tawny; claws black towards the tips; fore-thighs streaked with black, armed with three black teeth, of these two are rather long, and one is short: wings pale tawny, brownish tawny at the base; cross-veins clouded with brown; tips of the longitudinal veins of the marginal areolets very slightly clouded with brown; flaps brownish tawny towards the base. Length of the body 18 lines: of the wings 50 lines.

*a.* South America.

## 25. FIDICINA NIGRORUFA, Mas et Fem.

*Nervus transversus* 1us subundatus, valdè obliquus, angulum perobtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o brevior; 3us ferè rectus, obliquus, angulum vix acutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet a little more than three-fourths of the length of the first: first cross-vein slightly waved, very slanting, forming an extremely obtuse angle, parted from the second by almost thrice its length; second slightly curved, very slanting, forming an extremely obtuse angle, shorter than the first; third almost straight, slanting, forming a hardly acute angle; fourth almost straight, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly acute angle.

*Male*.—Body black, shining, short and broad, thickly covered with white on each side beneath: head narrower than the fore-chest; face convex: eyes prominent: mouth black, ferruginous towards the base: feelers black: fore-chest narrower in front than behind, rounded or almost forming an obtuse angle near the base of each forewing, nearly straight from thence to the fore border where it has a small tawny spot; hind-scutcheon rather narrow in the middle, broader on each side: hind border of the scutcheon of the middle-chest dark red on each side, with a moderately deep excavation in the middle: abdomen dark red, obconical, a little longer than the chest, adorned above with black bands which do not extend to the sides; opercula none: tymbals white: drums very small: legs black; middle and hind-thighs striped with red; middle-shanks dark red; hind-shanks and hind-feet pale red; claws red with black tips: fore-thighs armed with three black teeth: wings colourless, blackish and adorned with red at the base, black along the fore border; veins black, pitchy at the base; flaps of the hind-wings colourless, blackish towards the base and along the fore border.

*Fem*.—Abdomen hardly larger than the chest, scarcely decreasing in breadth till near the tip where it is narrow, obconical, compressed and black; the black bands extend across the whole breadth.

Length of the body 11—13 lines: of the wings 36—40 lines.

*a, b*. Venezuela. From Mr. Dyson's collection.

## 26. FIDICINA TIBICEN.

- Cicada tibicen*, Linn. *Syst. Nat.* 2, 707, 19. *Mus. Lud. Ulr.* 160. *Seba, Mus.* iv. pl. 85, f. 9, 10. *Oliv. Enc. Méth.* v. 7, 48, 11, pl. 110, f. 4. *Houttuin, Nat. Hist.* 280, 20, pl. 31, f. 3. *Gmel. Ed. Syst. Nat.* i. 3, 2099, 19. *Stoll, Cic.* 88, 89, pl. 23, f. 126. *Thon, Arch.* ii. 2, 44. *Silb. Rec. Ent.* ii. 64, 25.
- Cicada lyricen*, *Deg. Ins.* iii. 212, 14, pl. 22, f. 23.
- Tettigonia tibicen*, *Fabr. Syst. Ent.* 679, 5. *Sp. Ins.* ii. 319. 5. *Mant. Ins.* ii. 266, 8. *Ent. Syst.* iv. 18, 8. *Syst. Rhyn.* 35, 12.
- Panorpa*, *Brown, Jam.* 436, pl. 43, f. 15.
- Guerauca Eremembi*, *Marcgr. Brasil*, 256.
- Tibicen*, *Merian, Ins. Surinam*, pl. 49.
- Cicada pruinosa?* *Say. Harris, Ins. New Engl. Lam. Hist. Anim. Invert.* iii. 485, 2. *Germ. Thon, Arch.* ii. 2, 44. *Silb. Rev. Ent.* ii. 64, 25.
- Cicada mannifera*, Linn. *Mus. Ad. fr.* i. 84.
- a—d* North America. Presented by E. Doubleday, Esq.  
*e.* North America. Presented by J. G. Children, Esq.  
*f.* Massachusetts. From Professor Sheppard's collection.  
*g—u.* North America.

An insect of this species has in the left wing an additional cross-vein adjoining the second cross-vein.

## 27. FIDICINA POLYHYMNIA, Mas.

*Nervus transversus 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o brevior; 3us subundatus, obliquus, angulum vix acutum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet about five-sixths of the length of the first: first cross-vein almost straight, slightly slanting, forming an obtuse angle, parted from the second by full four times its length; second nearly straight, slightly slanting, forming an obtuse angle, shorter than the first; third slightly waved, slanting, forming a hardly acute angle; fourth waved, slanting, forming a slightly acute angle, much longer than the third; fifth slightly curved, very slightly slanting, forming a hardly obtuse angle. Body ferruginous: head nearly as broad as the fore-chest, adorned with two irregular and interrupted black bands, one on the crown, the other on the face which is rather prominent and very convex; mouth tawny with a

black tip, reaching the hind-hips: eyes prominent: feelers black: fore-chest a little narrower before than behind; furrows, sides and hind border of the scutcheon blackish; hind-scutcheon pale ferruginous, nearly as broad in the middle as on each side, where it forms two obtuse angles: scutcheon of the middle-chest adorned with three very broad obconical pitchy stripes; hind border very slightly excavated: abdomen obconical, pitchy, longer than the chest; hind borders of the segments ferruginous: opercula close, pitchy; drums tawny, large, meeting beneath, less than half the length of the abdomen: legs tawny; feet and fore-shanks pitchy; claws black: fore-thighs armed with three pitchy teeth, two of which are large and one extremely small: wings tinged with tawny; fore border ferruginous as far as the brand, pitchy from thence to the tip; veins black, ferruginous at the base; primitive areolet, fore-membrane, flaps at the base and along part of the hind border tawny. Length of the body 14 lines; of the wings 42 lines.

a. Philippine Islands. From Mr. Cuming's collection.

#### 28. FIDICINA SUBGUTTATA, Fem.

*Nervus transversus 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us curvus, obliquus, angulum obtusum fingens, 1o multò longior; 3us curvus, obliquus, angulum subacutum fingens; 4us curvus, 1o longior et obliquior, angulumque acutiorem fingens.*

Second marginal areolet more than three-fourths of the length of the first: first cross-vein nearly straight, very slanting, forming an extremely obtuse angle, parted from the second by more than thrice its length; second curved, slanting, forming an obtuse angle, much longer than the first: third curved, slanting, forming a slightly acute angle; fourth curved, longer and more slanting than the third and forming a more acute angle: fifth curved, upright, forming a very slightly acute angle. Body black, short, broad, tawny beneath: head full as broad as the fore-chest, adorned with a red dot between the eyelets, with a red stripe on each side of the hind border, and with a large red spot on each side of the face; the latter very convex, adorned above with a large red spot: mouth black, extending to the hind-hips: eyes hardly prominent: feelers black: fore-chest narrower before than behind; scutcheon short, adorned with a pale red stripe in the middle, and with two indistinct dark red dots on each side; hind-scutcheon very broad, dark red, slightly excavated on the hind border, blackish along the borders, slightly convex and not indented on each side: scutcheon of the middle-chest adorned

on the disk with two short very slender middle stripes, and on each side of them with a large triangular red spot, between which and each side there is a slender oblique red streak : hind border pale red, hardly excavated : abdomen obconical, a little shorter than the chest, adorned with a large yellow spot on each side near the base ; under side adorned on the disk with a large pitchy spot, behind which are two pitchy dots : legs tawny ; thighs and fore-hips streaked with black : feet, fore-shanks, and the tips of the middle-shanks black ; claws black, tawny at the base ; fore-thighs armed with two tawny teeth of moderate size : wings colourless ; fore border ferruginous with a black stripe beneath as far as the brand, black from thence to the tip ; veins tawny, tinged with ferruginous in the fore-wings, black towards the tips, marked with black at the base ; primitive areolet tawny ; fore-flaps pale buff ; hind-flaps pale buff at the base and along some part of the veins. Length of the body 13 lines ; of the wings 40 lines.

*a.* New Holland. Presented by the Earl of Derby.

## 29. FIDICINA FULLO, Mas et Fem.

*Nervus transversus 1us subcurvus, perobliquus, angulum perobtusum fingens, 2o ferè triplò ejus longitudine divisus ; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1i longitudine ; 3us curvus, subobliquus, angulum subacutum fingens ; 4us subcurvus, subobliquus, angulum subacutum fingens, 3i longitudine.*

Second marginal areolet more than three-fourths of the length of the first : first cross-vein very slightly curved, extremely slanting, forming an extremely obtuse angle, parted from the second by nearly thrice its length ; second very slightly curved, very slanting, forming an extremely obtuse angle, as long as the first ; third curved, slightly slanting, forming a slightly acute angle : fourth slightly curved, slightly slanting, forming a slightly acute angle, as long as the third ; fifth curved, nearly upright, forming a very slightly acute angle.

*Male.*—Body black, short, broad, much powdered with white on the under side, clothed with pale hairs and down : head a little narrower than the fore-chest ; three small tawny marks about the region of the eyelets : a short tawny band in front on each side of the face which is very convex : mouth ferruginous with a black tip, reaching to the hind borders of the drums : eyes prominent : feelers black, fore-chest a little narrower in front than behind ; scutcheon adorned with a tawny middle stripe which tapers from the fore border



to the hind border, and with six large dark red spots which occupy the spaces between the furrows: hind-scutcheon tawny on each side and on the hind border, rounded and much widened at the base of each fore-wing, excavated on each side where the tawny border is interrupted, serrated towards the front; its hind border is very slightly concave towards each side, nearer which it is convex by reason of its unusual widening at the base of the fore-wing: scutcheon of the middle-chest adorned with four dark red obconical stripes, the inner pair much shorter than the outer pair, intermediate space black; sides, hind borders and cross-ridge tawny, a pitchy mark on each side of the latter just above the cross; hind border slightly excavated: abdomen obconical, hardly longer than the chest, adorned before the middle with a broad black band which is widest on each side: tip tawny: drums of moderate size, slightly overlapping, black with pale tawny borders, full one-third of the length of the abdomen: legs pitchy; hips with pale yellow streaks and tips; fore-thighs dark red, armed with two long teeth; middle-shanks adorned with a pale tawny spot near the base; hind-shanks pale pitchy, pale tawny beneath; hind-feet pale tawny with pitchy tips; claws black: wings colourless, ferruginous and marked with black at the base; veins pale tawny, darker towards the tips; primitive areolet tawny; brands brown; cross-veins clouded with brown; a row of large brown spots on the tips of the longitudinal veins of the submarginal areolets; fore border tawny; fore-membrane gray; flaps buff at the base.

*Fem.*—Oviduct dark red, black and serrated.

Length of the body 13 lines; of the wings 33 lines.

*Var. β. Mas.*—Under side of the abdomen dark ferruginous.

*a—c.* New Holland. Presented by the Haslar Hospital.

*d—f.* Swan River. Presented by Sir J. Richardson.

### 30. FIDICINA INTERSECTA, Mas.

*Nervus transversus* 1us ferè rectus, obliquus, angulum obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o paullò longior; 3us subundatus, obliquus, angulum rix acutum fingens; 4us subundatus, obliquus, angulum subacutum fingens.

Nearly allied to *F. internata*, but the third cross-vein joins the fore longitudinal vein after the fork in that species, and before the fork in *F. intersecta*. Second marginal areolet more than two-thirds of the length of the first: first cross-vein nearly straight, slanting, forming an obtuse angle, parted from the second by more than thrice its length; second slightly curved, very slanting, forming a very ob-

case angle, much longer than the first: third slightly curved, nearly upright, forming a right angle: fourth slightly waved, slanting, forming a slightly acute angle, longer than the third: fifth curved, nearly upright, forming a hardly acute angle. Length of the body 11 lines: of the wings 32 lines.

Port Essington. From Mr. Gould's collection.

### 31. FIDICINA INTERNATA, Mas.

*Notus transversus* 1us subcurvus, valdè obliquus, angulum valdè acutum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, angulum perobtusum fingens; 1o longior et obliquior: 3us subcurvus, subobliquus, angulum rectum fingens: 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by much more than thrice its length: second very slightly curved, forming an extremely obtuse angle, longer and more slanting than the first: third slightly curved, slightly slanting, forming a right angle, not joining the fourth marginal areolet as is usual, but the second discoidal areolet; fourth slightly waved, slanting, forming an acute angle, much longer than the third: fifth curved, nearly upright, forming a slightly acute angle. Body tawny, almost hairless: head a little broader than the fore-chest: a short black band across the crown, sending forth two short branches in front, and having behind it two short branches between which are two semicircles: a black stripe half encircling each eye: face prominent, very convex, adorned with two broad black stripes, between which above there is a slender black band: mouth tawny with a black tip, reaching the middle-hips: eyes very prominent: feet black, tawny at the base: scutcheon of the fore-chest adorned with two black dots in the middle of the hind border, and with pitchy dots in the spaces between the furrows which are black: hind-scutcheon broad, forming a very obtuse angle near the base of the fore-wing, slightly excavated on each side, widened again towards the fore border: scutcheon of the middle-chest adorned with four black stripes: the middle pair triangular, slightly excavated, much shorter than the outer pair which are slightly oblique, much excavated and somewhat interrupted: a horse-shoe shaped black mark beyond the middle: excavation of the hind border slight: abdomen obconical, very little longer than the chest: a black, more or less interrupted and excavated band on the fore border of each segment: a black shining

spot on the tip: under side adorned with a broad pitchy band: opercula large, close, pale tawny: drums large, pale tawny, less than half the length of the abdomen, blackish on the inner side where they slightly overlap, black also on the outer border: legs pale tawny: thighs ferruginous towards the base: claws black: fore and middle-shanks and feet ferruginous: fore-thighs armed with three black teeth, one of which is very small: wings colourless, pale tawny and marked with black at the base; veins tawny, black towards the tips and along the hind border: fore border pale tawny for more than half its length, pitchy from thence till near the tip; fore borders of the flaps pale tawny. Length of the body 13 lines; of the wings 38 lines.

a. Port Essington. From Mr. Gould's collection.

### 32. FIDICINA OCHRACEA, Mas.

*Nervus transversus lvs rectus, obliquus, angulum valdè obtusum fingens, 2o quinquies ejus longitudinæ divisus; 2us rectus, obliquus, angulum valdè obtusum fingens, 1o paulò longior; 3us ferè rectus, subobliquus, angulum rectum fingens; 4us vix indatus, obliquus, angulum acutum fingens, 3o multò longior.*

Second marginal areolet a little shorter than the first: first cross-vein straight, slanting, forming a very obtuse angle, parted from the second by full five times its length: second straight, slanting, forming a very obtuse angle, a little longer than the first: third nearly straight, slightly slanting, forming a right angle; fourth indistinctly waved, slanting, forming an acute angle, much longer than the third: fifth indistinctly curved, nearly upright, forming a very slightly obtuse angle. Body ochreous: head full as broad as the fore-chest; a black band across the front, wider on each side than on the face which is convex and almost angular, but hardly prominent: mouth tawny with a black tip, reaching beyond the middle-lips: eyes prominent: feelers tawny at the base: fore-chest rather short: hind-scutcheon slightly excavated on the hind border, rounded at the base of the fore wing, a little indented on each side: scutcheon of the middle-chest slightly mottled with paler colour, hardly excavated on the hind border: abdomen obconical, a little longer than the chest: opercula none: tymbals tawny, very small: drums very small, tawny, the distance between them equal to twice the breadth of each: legs tawny: tips of the claws black: fore-thighs armed with two long tawny teeth whose tips are pitchy: wings colourless; fore borders and veins ochreous; fore-membranes tawny: flaps

tawny at the base and along part of the hind border. Length of the body 12 lines; of the wings 33 lines.

a. ——— ?

### 33. FIDICINA PRASINA. Mas.

*Nervus transversus* 1us ferè rectus, perobliquus, via angulum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o brevior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet nearly as long as the first: first cross-vein nearly straight, extremely slanting, hardly forming an angle, parted from the second by more than twice its length; second very slightly curved, very slanting, forming an extremely obtuse angle, shorter than the first; third slightly waved, slanting, forming a slightly acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, very slightly slanting, forming a slightly acute angle. Body tawny: head green, hardly narrower than the fore-chest, tawny about the eyelets whose region is adorned with a nearly semicircular black band which is continued along each side of the hind border, and thence upward for a short space by the side of each side: face rather prominent, adorned with a semicircular black band: mouth tawny, darker towards the tip, reaching the hind-hips: feelers tawny at the base: scutcheon of the fore-chest adorned with black marks along the furrows and on the hind border, tinged with green in the middle; hind-scutcheon green, forming near the base of each fore-wing a very obtuse and slightly rounded angle whose sides are very slightly convex and whose fore side is twice the length of its hind side: scutcheon of the middle-chest adorned with four oblique pitchymarks: the inner pair obconical, rather short, succeeded by a semicircular pitchy spot, the outer pair longer, much widened towards the base, linear from thence to the tips: hind border slightly excavated: abdomen black above, a little longer than the chest: hind borders of the segments and tip tawny: opercula large; drums pale tawny, rather large, occupying more than one-third of the length of the abdomen: legs pale tawny; thighs tinged with green: tips of the claws black: fore-thighs armed with two rather long black teeth: wings whitish, pale tawny and green at the base, bright green along the fore border for half the length, tawny from thence to the tips; veins pale reddish tawny: flaps pale tawny at the base. Length of the body 13 lines; of the wings 36 lines.

a. ——— ?

## 34. FIDICINA OLYMPUSA, Fem.

*Nervus transversus* *Ins ferè rectus, subobliquus, angulum obtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior; 3us rectus, subobliquus, angulum rectum fingens; 4us subunulatus, obliquus, angulum subacutum fingens, 3o ferè dupli longior.*

Second marginal areolet about three-fourths of the length of the first: first cross-vein nearly straight, slightly slanting, forming an obtuse angle, parted from the second by five times its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third straight, slightly slanting, forming a right angle; fourth very slightly waved, slanting, forming a very slightly acute angle, nearly twice the length of the third; fifth slightly curved, upright, forming a nearly right angle. Body ferruginous, tawny beneath: head nearly as broad as the fore-chest; crown adorned with a broad irregular pitchy band, between which and the hind border there are some pitchy dots: face convex, adorned above with a broad pitchy band: mouth tawny with a black tip, reaching nearly to the hind-hips: eyes not prominent: feelers black, tawny at the base: scutcheon of the fore-chest adorned with four black stripes: the middle pair long, widened on the fore border and on the hind border; the outer pair short and slightly curved; furrows and sides blackish; hind-scutcheon green, widened, rounded and adorned with a large pitchy mark at the base of each fore-wing, nearly straight on each side: scutcheon of the middle-chest adorned with four obconical black stripes; inner pair short with tawny borders; outer pair much longer, excavated into eight separate parts; a large black spot with a black dot on each side between the inner pair and the cross-ridge: hind border hardly excavated: abdomen obconical, longer than the chest; fore borders of the segments adorned with pitchy interrupted bands; oviduct ferruginous: drums pale tawny, very small, far apart: inner sides pitchy: legs tawny; tips of the shanks, of the feet and of the fore-thighs pitchy; tips of the claws black: fore-thighs armed with four tawny teeth, of these two are of moderate size, and two very short: wings colourless; fore border and veins green, black towards the tips: fore border armed with short black spines: first and second cross-veins and the longitudinal veins between them and between the first and the tip clouded with dark brown; fore-flaps fawn-colour; hind-flaps fawn-colour along the fore border and between the middle vein and the hind border. Length of the body 10 lines: of the wings 28 lines.

a. ——— ?

## Genus 12. CICADA.

Cicada, *Linnaeus, Amyot et Serr. Hist. Nat. Hém.* 473, 374.

## 1. CICADA ADUSTA, Mas.

*Nervus transversus* 1us rectus subobliquus, angulum obtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o multò brevior; 3us ferè rectus, obliquus, angulum rix acutum fingens; 4us subcurvus, subobliquus, angulum rix obtusum fingens, 3o brevior.

Second marginal areolet much more than two-thirds of the length of the first: first cross-vein straight, slightly slanting, forming an obtuse angle, parted from the second by more than four times its length; second slightly curved, slanting, forming a very obtuse angle, much shorter than the first; third almost straight, slanting, forming a hardly acute angle; fourth slightly curved, slightly slanting, forming a hardly obtuse angle, shorter than the third; fifth slightly curved, nearly upright, forming a slightly obtuse angle. Body tawny, darker here and there: head narrower than the fore-chest, pitchy about the eyelets: face very convex, not very prominent, adorned in front with two broad ferruginous stripes: mouth ferruginous with a black tip, reaching the hind-shanks: eyes very prominent: feelers black: scutcheon of the fore-chest adorned with two pitchy forked stripes proceeding from the fore border and slightly converging, behind them there are two triangular pitchy marks; hind border of the hind-scutcheon pitchy, its sides convex, each armed with a tooth: scutcheon of the middle-chest adorned with two nearly triangular pitchy spots, and on each side of these with a longer interrupted pitchy mark; four pitchy spots in a cross-row near the hind border which is very slightly excavated: abdomen obconical, pale ferruginous, a little longer than the chest, slightly compressed at the tip: drums very small, dark tawny, far apart: legs dark tawny, rather hairy; tips of the shanks, fore-feet and middle-feet pitchy; tips of the claws black; fore-thighs armed with two sharp teeth of moderate size: wings colourless, tawny at the base and along the fore border; on the fore-wings an almost imperceptible tawny tinge which is most apparent on the disks of the areolets towards the tips; first cross-vein clouded with brown; a brown spot on each of the second, third and fourth cross-veins: a row of brown spots on the tips of the longitudinal veins of the marginal areolets:

flaps tawny at the base, slightly clouded with brown along the fore border. Length of the body 23 lines; of the wings 68 lines.

a. Java. From Mr. Argent's collection.

## 2. CICADA TRIUPSILON, Mas.

*Nervus transversus lvs subcurvus, valdè obliquus, angulum perobtusum fingens, 2o ferè quinquies ejus longitudine divisus; 2us subcurvus, angulum perobtusum fingens, 1o longior et obliquior; 3us subcurvus, subobliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet more than two-thirds of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by nearly five times its length; second very slightly curved, forming an extremely obtuse angle, longer and more slanting than the first; third very slightly curved, slightly slanting, forming a right angle; fourth slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming an acute angle. Body ferruginous: head a little narrower than the fore-chest; crown adorned with an irregular black band; hind border black; face convex, rather prominent, blackish above and on each side in front: mouth ferruginous with a black tip, extending to the hind-hips: eyes not prominent: feelers black: scutcheon of the fore-chest black along the border and on the furrows; hind-scutcheon finely furrowed, much widened on each side and forming a very obtuse black angle whose fore side is very slightly concave and its hind side equally convex: scutcheon of the middle-chest adorned with seven black stripes; the three on each side slightly curved, almost concentric; the middle pair widened in front and united behind; hind border rather deeply excavated: abdomen nearly oval, longer than the chest, clothed with silky yellow down, paler beneath; most of the segments adorned with a black band along the fore border: opercula none; tymbals whitish with pitchy marks; drums tawny, small, far apart: legs dark tawny; thighs streaked with black: fore-feet, middle-feet and tips of the shanks black; fore-thighs armed with three tawny teeth, whose tips are black, of these two are long and one is short: wings colourless, tawny and partly black at the base, ferruginous along the fore border, slightly tinged with brown at the tips; first and second cross-veins clouded with dark brown, of which there is a slight tinge at the fore end of the third; veins black; flaps

buff and bordered with brown towards the base. Length of the body 25 lines; of the wings 65 lines.

a. ———?

### 3. CICADA GIGAS.

*Cicada gigas*, *Oliv. Enc. Méth.* v. 750, 15, pl. 111, f. 4. *Stoll, Cic.* 84, pl. 22, f. 117.

a. St. Lucia. Presented by W. Muter, Esq.

b, c. West Indies.

### 4. CICADA SONANS, Mas.

*Nervus transversus 1us subundatus valdè obliquus, angulum perobtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subundatus valdè obliquus, angulum perobtusum fingens, 1o paullo longior; 3us subcurvus, erectus, angulum vix obtusum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet full three-fourths of the length of the first; first cross-vein very slightly waved, very slanting, forming an extremely obtuse angle, parted from the second by four times its length; second very slightly waved, very slanting, forming an extremely obtuse angle, a little longer than the first; third slightly curved, upright, forming a hardly obtuse angle; fourth waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body tawny: head a little narrower than the fore-chest: crown adorned with a broad irregular curved black band; a row of little black bands on each side of the face which is very convex: eyes prominent: mouth tawny with a black tip, reaching the hind-hips: feelers black: borders and sutures of the scutcheon of the fore-chest black; hind-scutcheon broad, waved and partly edged with black on each side: middle-chest adorned with seven black stripes, of which the second pair join the middle one and include the inner pair; hind part of the cross-ridge black; hind border rather deeply excavated: abdomen nearly oval, longer than the chest, covered with pale shining down, mostly black above towards the tip: drums small; tymbals yellow, marked with black: legs tawny, marked with black which is mostly on the fore-legs; fore-thighs armed with four teeth of various size: wings colourless, their tips very slightly clouded with brown; veins black; first and second cross-veins clouded with brown; pri-



mitive areolet partly tawny ; fore-flaps tawny ; hind-flaps pale yellow towards the base. Length of the body 24 lines ; of the wings 66 lines.

a. ——— ?

### 5. CICADA SONORA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o quadruplò ejus longitudine divisus ; 2us subundatus, valdè obliquus, angulum perobtusum fingens, 1o multò longior ; 3us subundatus, subobliquus, angulum subacutum fingens ; 4us undatus, obliquus, angulum acutum fingens, 1o multò longior.

Second marginal areolet a little more than two-thirds of the length of the first : first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by four times its length ; second very slightly waved, very slanting, forming an extremely obtuse angle, much longer than the first ; third very slightly waved, slightly slanting, forming a slightly acute angle ; fourth waved, slanting, forming an acute angle much longer than the first ; fifth curved, nearly upright, forming a slightly acute angle. Body tawny : head a little narrower than the fore-chest, black above ; fore border and hind border of the crown tawny ; face convex : eyes prominent : scutcheon of the fore-chest marked with black, which forms two partly united triangles in front, and on the hind border a triangle which includes two tawny spots, and has on each side a large spot : hind-scutcheon widened on each side which is slightly angular and partly bordered with black : middle-chest adorned with six black stripes ; the second pair broader than the outer pair, narrower than the inner pair which include a slender black stripe ; behind the latter there is a large black mark which rests on the cross-ridge ; hind border slightly excavated : abdomen obconical, a little longer than the chest, black above with some tawny marks near the base and on each side : legs tawny : wings colourless ; veins green, black towards the tips ; first and second cross-veins clouded with brown : primitive areolet and fore flaps pale brown ; hind-flaps pale brown towards the base. Length of the body 18 lines ; of the wings 60 lines.

a. ——— ? Presented by J. G. Children, Esq.

## 6. CICADA RESONANS, Fem.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior; 3us undatus, obliquus, angulum subacutum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet nearly five-sixths of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by thrice its length: second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first: third waved, slanting, forming a slightly acute angle: fourth waved, slanting, forming a slightly acute angle, longer than the third: fifth curved, nearly upright, forming a hardly acute angle. Body tawny with a ferruginous tinge: head very little narrower than the fore-chest: crown mostly occupied by a broad black band: face slightly convex, partly black: eyes rather prominent: mouth tawny with a black tip, reaching beyond the middle-hips: scutcheon of the fore-chest adorned with a very large obconical black stripe: borders mostly black: hind-scutcheon much widened and slightly waved on each side: middle-chest adorned with six black stripes: the second pair broader than the outer pair, narrower than the inner pair which are obconical: a large slightly cross-shaped black spot rests on the cross-ridge: hind border slightly excavated: abdomen obconical, black above, a little longer than the chest: legs tawny: fore-thighs armed with three teeth of various size: wings colourless: veins tawny: first and second cross-veins clouded with brown: primitive areolet fawn-colour: fore-flaps and the base of the hind-flaps gray with a buff tinge. Length of the body 18 lines: of the wings 56 lines.

a. ——— ?

## 7. CICADA CONSONANS, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus quinquies ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior; 3us subcurvus, subobliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet nearly three-fourths of the length of the first: first cross-vein very slightly curved, slanting, forming an

obtuse angle, parted from the second by more than five times its length : second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first : third very slightly curved, slightly slanting, forming a right angle : fourth slightly waved, slanting, forming a slightly acute angle, much longer than the third : fifth curved, upright, forming a nearly right angle. Body tawny : head a little narrower than the fore-chest ; crown adorned with an irregular and much curved black band ; face very convex, with a row of black bands on each side : eyes very prominent : mouth tawny with a black tip reaching the hind-hips ; feelers tawny, pitchy towards the base ; a short black band on the fore border of the fore-chest and another on the hind border, and between them two short slanting black stripes : hind-scutcheon pale tawny, tinged with green, widened, waved and partly edged with black on each side : middle-chest adorned with seven slender black stripes, the three pairs slanting, the middle one linear, widened at the tip ; hind border much excavated : abdomen nearly elliptical, longer and broader than the chest ; fore borders of the segments black ; a black spot on the first segment : legs tawny, slightly marked with black ; fore-thighs armed with three teeth, two large and one small : wings colourless, their tips slightly clouded with brown : veins tawny, darker towards the tips ; first and second cross-veins clouded with brown : flaps yellow towards the base. Length of the body 22 lines ; of the wings 62 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

### 8. CICADA VIBRANS, Mas et Fem.

*Nervus transversus* 1us *subcurvus, obliquus, angulum valdè obtusum ficiens*, 2o *quadruplò ejus longitudine divisus* ; 2us *subcurvus, obliquus, angulum valdè obtusum ficiens*, 1i *longitudine* ; 3us *subundatus, obliquus, angulum vix acutum ficiens* ; 4us *undatus, obliquus, angulum vix acutum ficiens*, 3o *longior*.

Second marginal areolet full three-fourths of the length of the first : first cross-vein slightly curved, slanting, forming a very obtuse angle, parted from the second by four times its length : second slightly curved, slanting, forming a very obtuse angle, as long as the first ; third slightly waved, slanting, forming a hardly acute angle ; fourth waved, slanting, forming a hardly acute angle, longer than the third ; fifth curved, nearly upright, forming a hardly acute angle. Body tawny : head a little narrower than the fore-chest :

crown adorned with an irregular and angular black band which includes two tawny spots; face very convex, adorned with two black stripes on each side of which there is a row of little black bands: eyes very prominent: mouth tawny with a black tip, reaching beyond the middle-hips: borders and furrows of the scutcheon of the fore-chest mostly black; hind-scutcheon broad, widened, slightly angular and partly edged with black on each side: middle-chest adorned with some slender black streaks and with a broader stripe whose tip is widened into a short band; hind border rather deeply excavated: abdomen obconical, longer than the chest; fore borders of the segments sometimes black; drums small: legs tawny; fore-feet and tips of the shanks black; a black spot near the tip of each thigh; fore-thighs armed with three teeth, of which two are large and one is small: wings colourless, their tips very slightly tinged with brown; veins black, tawny towards the base: first and second cross-veins clouded with brown. Length of the body 18—23 lines; of the wings 52—57 lines.

*a—d.* ———? Presented by Sir E. Belcher.

#### 9. CICADA SODALIS, Mas.

*Nervus transversus 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o ferè quadruplò ejus longitudine divisus; 2us curvus, valdè obliquus, angulum perobtusum fingens, 1o longior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us curvus obliquus, angulum subacutum fingens, 3o longior.*

Second marginal areolet full five-sixths of the length of the second: first cross-vein slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by almost four times its length; second curved, very slanting, forming an extremely obtuse angle, longer than the first; third slightly curved, slanting, forming a slightly acute angle; fourth curved, slanting, forming a slightly acute angle, longer than the third; fifth curved, nearly upright, forming a slightly acute angle. Body dark tawny: head a little narrower than the fore-chest, mostly pitchy above; face convex: eyes very prominent: mouth black, tawny towards the base, reaching nearly to the hind-hips: scutcheon of the fore-chest more or less pitchy; hind-scutcheon widened, angular and edged with black on each side: disk of the middle-chest black with irregular tawny marks or sometimes quite black; hind border rather deeply excavated: abdomen obconical, longer than the chest, pitchy above; hind borders of the segments more or less tawny: legs tawny; thighs, tips of the shanks, fore-shanks and fore-feet black; fore-thighs

armed with three tawny teeth: wings colourless; veins tawny, darker towards the tips; cross-veins from the first to the fourth clouded with brown; primitive areolet pitchy; flaps yellow towards the base. Length of the body 17—20 lines: of the wings 44—48 lines.

*a, b.* ——— ?

#### 10. CICADA PLAGA, Mas et Fem.

*Nervus transversus* 1us ferè rectus, valdè obliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior; 3us undatus, obliquus, angulum acutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o paullò longior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein almost straight, very slanting, forming an extremely obtuse angle, parted from the second by much more than twice its length; second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first; third waved, slanting, forming an acute angle; fourth slightly waved, slanting, forming an acute angle, a little longer than the third; fifth curved, upright, forming a hardly acute angle. Body ferruginous above, tawny beneath; head a little broader than the fore-chest; a broad black band on the crown which is sometimes quite black; face convex, adorned with black bands or quite black: eyes prominent: mouth tawny with a black tip, extending beyond the middle-hips: scutcheon of the fore-chest adorned with black marks which prevail most in the male; hind-scutcheon broad, furrowed across, rounded and slightly widened on each side, darker in the male than in the female, as is also the rest of the body: middle-chest of the male mostly black, of the female adorned with four broad obconical black stripes; hind border slightly excavated: abdomen of the male mostly black above, longer than that of the female; third segment adorned on each side with a large patch of whitish shining down: legs tawny; fore-feet, fore-shanks and middle-shanks mostly black; fore-thighs armed beneath with three teeth: wings colourless; fore border black; veins black, ferruginous towards the base; first and second cross-veins clouded with brown; primitive areolet ferruginous; fore-flaps gray; hind-flaps brown at the base. Length of the body 14—18 lines; of the wings 44—50 lines.

*a—c.* New Holland.

## 11. CICADA ARGENTATA?

*Cicada argentata?* Germ. Silb. Rev. Ent. ii. 66, 27.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us undatus, obliquus, angulum ferè rectum fingens; 4us subunlatus, valdè obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by full thrice its length; second very slightly curved, very slanting, forming an extremely obtuse angle, much longer than the first; third waved, slanting, forming a nearly right angle; fourth very slightly waved, very slanting, forming an acute angle, much longer than the third; fifth curved, upright, forming an acute angle. Body ferruginous: head almost broader than the fore-chest; crown adorned with a broad irregular black band which joins the hind border on each side and in the middle: face tawny, convex but not prominent, with a greenish stripe in the middle, blackish behind and adorned with blackish bands on each side in front: mouth tawny with a black tip, reaching some distance beyond the hind-hips: eyes prominent: feelers ferruginous, sometimes black at the base: scutcheon of the fore-chest adorned with a yellow stripe which has a black stripe on each side; furrows and sides black; hind-scutcheon tawny with a large black spot on each side which is very obtusely angular, the hind side of this angle is nearly straight and about half the length of the fore side, which is very slightly excavated; scutcheon of the middle-chest adorned with four obconical black stripes; middle pair shorter than the outer pair, whose inner sides are much excavated by ferruginous ramifications; between the middle pair there is a slender black streak widening hindward, where it spreads into a cup-shaped spot, and communicates on each side with a black band which runs parallel to the hind border; the latter is very slightly excavated: abdomen obconical, black above, a little longer than the chest; hind borders of the segments sometimes ferruginous; tip adorned with four conical ferruginous marks; under side adorned with three black stripes, one on each side and in the middle a broader one which has a pitchy dot on each side near the tip: legs tawny; hips streaked with black; feet and tips of the shanks pitchy; a broad tawny band on each

foot; tips of the claws black; fore-thighs armed with two rather long sharp tawny teeth whose tips are black: wings colourless, green at the base; veins and fore border green for half the length from the base, black thence to the tips; hind-flaps towards the base and fore-flaps brown with black veins. Length of the body 17—20 lines. of the wings 50—52 lines.

*a.* New South Wales. Presented by Dr. Sinclair.

*b.* New Holland. Presented by R. Hunter, Esq.

*c—e.* New Holland.

## 12. CICADA AULETES.

*Cicada auletes*, *Germ. Silb. Rev. Ent.* ii. 65, 26.

*a.* ——— ?

## 13. CICADA ROSA-CORDIS, Fcm.

*Nervus transversus* *lus subcurvus, valdè obliquus, angulum perobtusum fingens, 2o triplè ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o vix longior; 3us subcurvus, subobliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 1o longior.*

Second marginal areolet a little shorter than the first: first cross-vein slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by thrice its length; second slightly curved, very slanting, forming an extremely obtuse angle, hardly longer than the first; third very slightly curved, slightly slanting, forming a slightly acute angle; fourth very slightly curved, slanting, forming an acute angle, longer than the third; fifth slightly curved, nearly upright, forming a right angle. Body greenish-tawny, short and broad, clothed with white hairs which are very thick towards the tip of the abdomen: head clothed in front with short black hairs; an irregular black band across the crown; face slightly convex, not at all prominent, dark tawny in front: mouth tawny, with a black tip, reaching the middle-hips: eyes prominent: feelers black: sides of the fore-chest forming very obtuse angles near the base of the fore-wings, very slightly excavated at half the length, rounded on the fore border; hind-scutcheon furrowed, rather broad: scutcheon of the middle-chest adorned on each side with two black marks which proceed from the fore border; the inner pair shorter

and much narrower than the outward pair which are much excavated: hind border pitchy on each side; excavation in the middle rather deep, forming half an ellipse: abdomen pitchy, obconical, a little longer than the chest, greenish-tawny towards the base above: thighs dark ferruginous with black streaks; shanks greenish-tawny with pitchy tips; fore-feet black; middle-feet partly tawny beneath; hind-feet tawny with pitchy tips; claws black, tawny at the base; fore-thighs armed with two black teeth near the tips: wings colourless; fore-wings very bright red at the base and for a short space along the hind border; beyond the red there is a pale yellow band which is tinged with green towards the fore border, and towards the hind border is succeeded by a brown tinge which clouds the hind border for nearly half the length; hind-wings adorned with a broader yellow band, adjoining which there is a brown band; flaps very bright red with brown tips; veins green, tawny towards the tips where they are black; brands, first and second feet partly tawny beneath; claws black, tawny at the base; hind-feet tawny with pitchy tips; fore-thighs armed with two black teeth near the tips: wings colourless; fore-wings very bright, red at the base and for a short space along the hind border; beyond the red there is a pale yellow band which is tinged with green towards the fore border, and towards the hind border is succeeded by a brown tinge which clouds the hind border for nearly half the length; hind-wings adorned with a broader yellow band, adjoining which there is a brown band; flaps very bright red with brown tips; veins green, tawny towards the tips which are black; brands, cross-veins from the first to the fourth, fore border towards the tip, veins adjoining the base of the first cross-vein, and the veins between the second and third cross-veins clouded with brown; fore border greenish-tawny. Length of the body 16 lines: of the wings 48 lines.

a. Brazil? From Mr. Stevens's collection.

#### 14. CICADA BICOSTA, Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum obtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior; 3us subcurvus, obliquus, angulum rectum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by five times its length; second slightly curved, slanting, forming a very obtuse angle, longer than the



first; third slightly curved, slanting, forming a right angle; fourth waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming an almost right angle. Body ferruginous: head narrower than the fore-chest, adorned with an irregular black band which about the middle is widened in front and behind: face convex, adorned in front with a row of little black bands on each side: eyes rather prominent: mouth tawny with a black tip, nearly reaching the hind-hips: scutcheon of the fore-chest adorned with a broad irregular black band which is sometimes interrupted; furrows and side borders black; hind-scutcheon tawny, widened, slightly angular and more or less tawny on each side: middle-chest adorned with four black obconical stripes, the outer pair much excavated by ferruginous ramifications, much longer than the inner pair; the latter include a black stripe which is much widened near the cross-ridge: hind border slightly excavated: abdomen obconical, a little longer than the chest, black above; hind borders of the segments ferruginous: legs ferruginous; fore-thighs armed with two rather long teeth: wings colourless: fore border tawny as far as the brand, black from thence till near the tip; veins tawny, black towards the tips; hind-flaps at the base and fore-flaps brown. Length of the body 16 lines; of the wings 48 lines.

*a, b.* ——— ?

#### 15. CICALA HARRISII.

*Tettigonia Harrisii*, *Leach, Zool. Miscell.* i. 89, pl. 39, f. 1.

*a.* New Holland. Presented by the Entomological Club.

*b—h.* New Holland.

#### 16. CICALA FRAXINI.

*Cicada Fraxini*, *Germ. Silb. Rev. Ent.* ii. 61, 23. *Mouff. Ins.* 127. *Aldror. Ins.* 307. *Matthiol. Diosc.* 264. *Roes. Ins.* ii. pl. 25, f. 4, pl. 26, f. 4, 6. *Reaum. Ins. Mem.* 5, 151, pl. 16, f. 1, 6. *Geoff. Ins.* i. 429, 1. *Berm. Hamb. Ent.* ii. 1, 182, 5. *Tigr. Hist. Nat. Ins.* iv. 112. *Leon-Duf. Rech. Hém.* 92, 93, 2, 186. *Amyot et Serr. Hist. Nat. Hém.* 479, 1.

*Cicada plebeia*, *Oliv. Enc. Méth.* v. 754, 33, pl. 112, f. 7. *Scop. Ent. Carn.* 117, 345. *Gmel. Ed. Syst. Nat.* i. 3, 2097, 15. *Lam. Hist. Nat. An. sans vert.* iii. 484, 4. *Lut. Règn. Anim.* v. 214.

*Tettigonia Orni*, *Fabr. Ent. Syst.* iv. 23, 23.

*Tettigonia Fraximi*, *Fabr. Syst. Rhyn.* 40, 37.

*Cicada*, *Amyot, Ann. Soc. Ent. fr. 2me Série*, v. 150, 371, f. 56, 57.

*a, b.* South of France. Presented by M. Jaret.

*c.* Italy. Presented by M. A. Pierret.

*d.* Italy. Presented by Dr. Dowler.

*e.* Italy. Presented by M. Goureau.

*f.* South France. Presented by M. Goureau.

*g, h.* South France. Presented by F. Walker, Esq.

*i, j.* South France.

#### 17. *CICADA MÆRENS.*

*Cicada mærens*, *Germ. Silb. Rev. Ent.* ii. 67, 29.

*a, b.* New Holland. Presented by the Earl of Derby.

*c.* New Holland. Presented by Major Gen. Hardwicke.

*d, e.* New Holland. Presented by J. G. Children, Esq.

*f, g.* New Holland.

*h, i.* New South Wales. Presented by Dr. Sinclair.

#### 18. *CICADA CINGULATA.*

*Cicada cingulata*, *Fabr. Ent. Syst.* iv. 21, 17. *Syst. Rhyn.* 38, 25.

*a—g.* New Zealand. Presented by Dr. Sinclair.

*h.* ——— ?

#### 19. *CICADA CURVICOSTA.*

*Cicada curvicosta*, *Germ. Silb. Rev. Ent.* ii. 66, 28.

*Cicada tephrogaster?* *Boisduval, Voy. Astrol.* 611, pl. 10, f. 5.

*a.* New Holland. Presented by the Earl of Derby.

*b—g.* New Holland.

#### 20. *CICADA CONVERGENS, Fem.*

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o plus duplè ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior; 3us subindatus, obliquus, angulum subacutum fingens; 4us ferè rectus, angulum rectum fingens, 3o paullò brevior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein very slightly curved, very slanting, forming an

extremely obtuse angle, parted from the second by more than twice its length; second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first; third slightly waved, slanting, forming a slightly acute angle; fourth nearly straight, forming a right angle, a little shorter and less slanting than the third; fifth very slightly curved, nearly upright, forming a hardly obtuse angle. Body black: head a little narrower than the fore-chest; crown adorned with three red spots, one on the hind border, and one on each side; face slightly convex, red with the exception of two black stripes which send forth black bands on each side: mouth tawny with a black tip, reaching the middle-hips: eyes not prominent: feelers black: scutcheon of the fore-chest adorned with a tawny middle stripe, and on each side with three broad red stripes; middle one interrupted; hind-scutcheon tawny, narrow in the middle, widened, tinged with black and almost angular at the base of each fore-wing, excavated on each side: scutcheon of the middle-chest pale red, adorned with three very broad black obconical stripes, the middle one shorter and broader than the side pair, united at the tip to a black spot near the cross-ridge: hind border very slightly excavated: abdomen obconical, a little longer than the chest, adorned with a black stripe, a little black about the base beneath: oviduct pitchy; legs tawny; hips, thighs and fore-shanks striped with black; tips of the shanks, of the feet and of the claws black; fore-feet black: fore-thighs armed with three long tawny teeth: wings slightly tinged with tawny; fore border pale red, pitchy toward the tip; veins black: first and second cross-veins and the longitudinal vein between them clouded with very dark brown. Length of the body 10 lines; of the wings 32 lines.

a. New Holland. Presented by the Haslar Hospital.

## 21. CICADA FERRIFERA, Mas et Fcm.

*Nereus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum subobtusum fingens, 1o paullo brevior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum vix acutum fingens, 3o longior.

Second marginal areolet five-sixths of the length of the first: first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by full four times its length; second very slightly curved, nearly upright, forming a slightly obtuse angle, a little shorter than the first; third nearly straight, slanting, forming a slightly acute angle: fourth nearly straight, slanting, forming

a hardly acute angle, longer than the third; fifth very slightly curved, upright, forming a nearly right angle. Body pale ferruginous: head nearly as broad as the fore-chest, adorned in front with a black band; face very convex, narrow, prominent, almost angular: mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers tawny: hind-scutcheon widened and slightly angular on each side: hind border of the scutcheon of the middle-chest slightly excavated: abdomen obconical, longer than the chest: opercula large, close: drums large, half the length of the abdomen, slightly overlapping: legs tawny; tips of the claws black; fore-thighs armed with three sharp tawny teeth, two rather small, the third very small: wings whitish, pale tawny at the base: veins tawny, darker towards the tips. Length of the body 10—13 lines; of the wings 32—36 lines.

a—c. China. Presented by J. C. Bowring, Esq.

#### 22. CICADA BIMACULATA.

*Cicada bimaculata*, *Oliv. Enc. Méth.* v. 756, 46, pl. 113, f. 7.  
*Stoll, Cic.* 91, 37, pl. 24, f. 132. *Germ. Thon, Arch.* ii. 2,  
 84. *Silb. Rev. Ent.* ii. 61, 13.

#### 23. CICADA CANICULARIS.

*Cicada canicularis*, *Harris, Ins. New Engl.* 175.

#### 24. CICADA DOREI.

*Cicada Dorei*, *Boisd. Voy. Astrolabe*, pl. 10, f. 3.

#### 25. CICADA GERMARII.

*Cicada Germarii*, *Guèr. Voy. Favorite. Mag. Zool. Ins.* pl. 237,  
 f. 2.

#### 26. CICADA GROSSA.

*Cicada grossa*, *Oliv. Enc. Méth.* v. 747, 1. *Lam. Hist. Nat. Anim.*  
*Invert.* iii. 485, 1. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 85.  
*Tettigonia grossa*, *Fabr. Syst. Ent.* 678, 1. *Sp. Ins.* ii. 318, 1.  
*Mant. Ins.* ii. 265, 1. *Ent. Syst.* iv. 16, 1. *Syst. Rhyn.* 33,  
 2.

## 27. CICADA PULVEREA.

*Cicada pulvere*a, *Oliv. Enc. Méth.* v. 759, 61, pl. 118, f. 18. *Stoll. Cic.* 58, pl. 14, f. 72.

## 28. CICADA FERRUGINEA.

*Cicada ferruginea*, *Oliv. Enc. Méth.* v. 750, 19. pl. 112, f. 1. *Stoll, Cic.* 65. pl. 16, f. 86.

## 29. CICADA DIDYMA.

*Cicada didyma*, *Boisd. Voy. Astrolabe*, pl. 10, f. 8.

## 30. CICADA HIEROGLYPHICA.

*Cicada hieroglyphica*, *Say*.

## 31. CICADA XANTHOGRAMMA.

*Cicada xanthogramma*, *Germ. Silb. Rev. Ent.* ii. 71, 37.

## 32. CICADA DILATATA.

*Cicada dilatata*, *Oliv. Enc. Méth.* v. 747, 5. *Gmel. Ed. Syst. Nat.* i. 3, 2099, 89.

*Tettigonia dilatata*, *Fabr. Syst. Ent.* 678, 4. *Sp. Ins.* ii. 319, 4. *Mant. Ins.* ii. 266, 5. *Ent. Syst.* iv. 18, 5. *Syst. Rhyn.* 34, 6.

## 33. CICADA CONSPURCATA.

*Cicada conspurcata*, *Oliv. Enc. Méth.* v. 752, 30. *Gmel. Ed. Syst. Nat.* i. 3, 2097, 79.

*Tettigonia conspurcata*, *Fabr. Gen. Ins.* 298. *Sp. Ins.* ii. 320, 13. *Mant. Ins.* ii. 267, 17. *Ent. Syst.* iv. 22, 20. *Syst. Rhyn.* 39, 30.

## 34. CICADA KEMPFERI.

*Tettigonia Kæmpferi*, *Fabr. Ent. Syst.* iv. 23, 25. *Syst. Rhyn.* 41, 40.

## 35. CICADA GUTTATA.

*Cicada guttata*, *Oliv. Enc. Méth.* v. 751, 24.

## 36. CICADA HILARIS.

*Cicada hilaris*, *Germ. Silb. Rev. Ent.* ii. 69, 34.

## 37. CICADA HYALINA.

*Cicada hyalina*, *Germ. Thon, Arch.* ii. 2, 68. *Silb. Rev. Ent.* ii. 59, 8.

*Tettigonia hyalina*, *Fabr. Ent. Syst. Suppl.* 516, 32. *Syst. Rhyn.* 42, 48.

## 38. CICADA COSTALIS.

*Tettigonia costalis*, *Fabr. Ent. Syst. Suppl.* 516, 23. *Syst. Rhyn.* 39, 34. *Coq. Ill.* 1, pl. 9, f. 2.

## 39. CICADA PUSTULATA.

*Cicada pustulata*, *Oliv. Enc. Méth.* v. 750, 18. *Gmel. Ed. Syst. Nat.* i. 3, 2100, 93.

*Tettigonia pustulata*, *Fabr. Mant. Ins.* ii. 266, 16. *Ent. Syst.* iv. 20, 11. *Syst. Rhyn.* 37, 21.

## 40. CICADA FLAVIDA.

*Cicada flavida*, *Guérin Voy. Ind. Orient. Belanger, Ins.* pl. 3, f. 1.

## 41. CICADA GARRULA.

*Cicada garrula*, *Oliv. Enc. Méth.* v. 758, 55, pl. 113, f. 11. *Stoll, Cic.* 51, pl. 12, f. 59.

## 42. CICADA FASCICULATA.

*Cicada fasciculata*, *Germ. Thon, Arch.* ii. 2, 101. *Silb. Rev. Ent.* ii. 72, 39.

## 43. CICADA FESTIVA.

*Tettigonia festiva*, *Fabr. Syst. Rhyn.* 41, 42.

## 44. CICADA CERISYI.

*Cicada Cerisyi*, *Guér. Icon. Règn. Anim. Texte*, 356.

## 45. CICADA CATENA.

*Cicada catena*, *Oliv. Enc. Méth.* v. 750, 16. *Gmel. Ed. Syst. Nat.* i. 3, 2099, 92.

*Tettigonia catena*, *Fabr. Syst. Ent.* 679, 7. *Sp. Ins.* ii. 319, 7. *Mant. Ins.* ii. 266, 10. *Ent. Syst.* iv. 19, 11. *Syst. Rhyn.* 37, 17.

## 46. CICADA CAFRA.

*Cicada cafra*, *Oliv. Enc. Méth.* v. 758, 57, pl. 113, f. 13. *Stoll. Cic.* 94, pl. 25, f. 136.

## 47. CICADA DICHROMA.

*Cicada bicolor*, *Boisd. Voy. Astrolabe*, pl. 10, f. 7.

## 48. CICADA THALASSINA.

*Cicada thalassina*, *Perchéron, Gen. Ins. Hémipt.* pl. 2. *Guér. Voy. Coq.* 183.

## 49. CICADA RUFESCENS.

*Tettigonia rufescens*, *Fabr. Syst. Rhyn.* 41, 38.

## 50. CICADA MARGINATA.

*Cicada marginata*, *Oliv. Enc. Méth.* v. 755, 37, pl. 113, f. 2. *Stoll, Cic.* 72, pl. 18, f. 100.

*Tettigonia viridis*, *Fabr. Syst. Rhyn.* 39, 28.

*Cicada viridis*, *Germ. Thon, Arch.* ii. 2, 83. *Silb. Rev. Ent.* ii. 61, 12.

## 51. CICADA STRUMOSA.

*Tettigonia strumosa*, *Fabr. Syst. Rhyn.* 34, 7.

## 52. CICADA VARIEGATA.

*Cicada variegata*, *Oliv. Enc. Méth.* v. 757, 50. pl. 113. f. 9, 45.  
*Stoll, Cic.* 96. pl. 25, f. 140.

*Tettigonia variegata*. *Fabr. Ent. Syst. Rhyn.* 37, 16.

## 53. CICADA VIRIDICOLLIS.

*Cicada viridicollis*, *Germ. Thon, Arch.* ii. 2, 91. *Silb. Rev. Ent.*  
ii. 62, 17.

## 54. CICADA VIRIDIS.

*Cicada viridis*, *Oliv. Enc. Méth.* v. 754, 35, pl. 113, f. 1. *Deg. Ins.*  
iii. 220, 17, pl. 33, f. 4. *Stoll, Cic.* 89, pl. 23, f. 127.

## 55. CICADA SCUTELLATA.

*Tettigonia scutellata*, *Fabr. Syst. Rhyn.* 44, 58.

## 56. CICADA EXHAUSTA.

*Cicada exhausta*, *Guér. Voy. Coquille, Ins.* pl. 10, f. 6.

## 57. CICADA BICONICA, Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o longior; 3us subundatus, obliquus, angulum ferè rectum fingens; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet more than half the length of the first: first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by much more than four times its length; second slightly curved, very slanting, forming a very obtuse angle; third very slightly waved, slanting, forming an almost right angle:



fourth waved, slanting, forming an acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body ferruginous above, tawny and powdered with white beneath, partly covered with pale yellow shining down: head a little narrower than the fore-chest; crown adorned with an irregular and interrupted black band; face partly black, very convex: eyes rather prominent: mouth tawny with a black tip, reaching beyond the middle-hips: feelers black, tawny at the base: fore-chest narrower in front; scutcheon adorned with four black stripes; hind-scutcheon pale green, widened, angular and slightly excavated on each side: middle-chest adorned with two obconical pitchy stripes which are united on the fore border and extend about half the length; hind border slightly excavated: abdomen obconical, longer than the chest: legs green with tawny stripes; feet black at the base and at the tips; hind-shanks beset with ferruginous spines; fore-thighs armed with two rather long teeth: wings colourless; fore border green as far as the brand, brown from thence towards the tip; veins green, black towards the tips; first and second cross-veins and tips of first and second longitudinal veins clouded with brown. Length of the body  $13\frac{1}{2}$  lines; of the wings 45 lines.

a. Cuba.

#### 58. CICALA VIRIDIFASCIA, Mas et Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1i longitudine; 3us subcurvus, obliquus, angulum ferè rectum fingens; 4us undatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet full two-thirds of the length of the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by more than thrice its length; second very slightly curved, slanting, forming a very obtuse angle, as long as the first; third slightly curved, slanting, forming a nearly right angle; fourth waved, slanting, forming a very slightly acute angle, very much longer than the third; fifth slightly curved, erect, forming a right angle. Body tawny: head very little narrower than the fore-chest; crown mostly occupied by a very broad irregular black band; face slightly convex, partly black above: eyes not prominent: mouth tawny with a black tip, reaching the hind-hips: feelers black, tawny at the base: scutcheon of the fore-chest pale green along the fore border, adorned with two black stripes which

are widened in front and behind ; hind-scutcheon broad, pale green, widened at the base of each fore-wing, adorned with a black spot on each side which is excavated : fore part of the middle-chest mostly occupied by four very broad black stripes ; the outer pair much longer than the inner pair, behind the latter are three black spots which are sometimes united ; hind border very slightly excavated : abdomen obconical, a little longer than the chest, partly covered with white down, black above, tawny along the hind borders of the segments of the female : drums rather large, slightly crossing each other ; opercula black, tawny at the base : legs tawny ; fore-thighs armed with three teeth, one large, one of moderate size, and one very small : wings colourless ; fore border tawny for half the length, black from thence till near the tip ; veins tawny ; cross-veins and adjoining parts of the longitudinal veins tawny ; primitive areolet partly brown ; fore-flaps whitish, as are also the hind-flaps at the base. Length of the body 11—12 lines ; of the wings 33—34 lines.

In one case the first cross-vein of the left wing forms a connecting link between the first discoidal areolet and the second marginal areolet.

*a—c.* ——— ?

#### 59. CICADA SEMILATA, Mas.

*Nervus transversus* 1us *subcurvus*, *obliquus*, *angulum valdè obtusum* *figens*, 2o *quadruplò ejus longitudine divisus* ; 2us *subcurvus*, *valdè obliquus*, *angulum perobtusum* *figens*, 1o *longior* ; 3us *subundatus*, *obliquus*, *angulum acutum aut ferè rectum* *figens* : 4us *vix undatus*, *obliquus*, *angulum vix acutum* *figens*, 3i *longitudine*.

Second marginal areolet three-fourths of the length of the first : first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by about four times its length ; second very slightly curved, very slanting, forming an extremely obtuse angle, longer than the first ; third very slightly waved, slanting, forming a more or less acute angle ; fourth hardly waved, slanting, forming a hardly acute angle, as long as the third ; fifth curved, upright, forming a nearly right angle. In the left wing of an insect of this species the second cross-vein is shorter than the first. Body tawny, tinged with green : head nearly as broad as the fore-chest, adorned with two irregular and interrupted black bands ; face convex : eyes prominent : mouth tawny with a black tip, reaching beyond the hind-hips : fore border of the fore-chest partly black ; hind-

scutcheon of moderate breadth, slightly widened on each side where it is abruptly truncated : hind border of the middle-chest excavated : abdomen obconical, a little longer than the chest : legs tawny ; fore-thighs armed with three small teeth : wings colourless ; veins tawny, partly green, black towards the tips ; primitive areolet and flaps at the base pale tawny. Length of the body 11—12 lines ; of the wings 33—34 lines.

*a, b.* St. Lucia. Presented by W. Muter, Esq.

*c.* Cayenne.

#### 60. CICADA VIRIDIFEMUR, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus ; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o paullò brevior ; 3us ferè rectus, obliquus, angulum subacutum fingens ; 4us undatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet as long as three-fourths of the first : first cross-vein slightly curved, slanting, forming a very obtuse angle, parted from the second by much more than thrice its length ; second slightly curved, slanting, forming a very obtuse angle, a little shorter than the first ; third almost straight, slanting, forming a slightly acute angle ; fourth waved, slanting, forming an acute angle, much longer than the third ; fifth curved, upright, forming a slightly acute angle. Body green, more or less tinged with tawny, partly covered with pale down, powdered beneath with white : head narrower than the fore-chest ; crown adorned with a more or less interrupted black band ; face convex, with a row of little black bands on each side : eyes not prominent : mouth tawny with a black tip reaching a little beyond the hind-hips : feelers black : sutures of the fore-chest blackish ; hind-scutcheon slightly rounded and widened on each side : middle-chest adorned with four stripes, the outer pair ferruginous, black at the base, longer than the inner pair which are black ; hind border rather deeply excavated : abdomen obconical, a little longer than the chest ; fore border of the segments black : drums small : opercula partly white : legs bright green : thighs striped with black ; feet and tips of shanks pitchy ; fore-thighs armed with two teeth of moderate size : wings colourless ; fore border green at the base, tawny for near half the length, black with the exception of a white band from thence towards the tip ; veins black, tawny or green towards the base ; primitive areolet partly brown ; fore-flaps

brown ; hind-flaps brown at the base. Length of the body  $10\frac{1}{2}$  lines ; of the wings 32 lines.

a, b. ———?

#### 61. CICADA PASSER, Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus quadruplò ejus longitudine divisus ; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior ; 3us subcurvus, obliquus, angulum subacutum fingens ; 4us subundatus, obliquus, angulum subacutum fingens, 3o vix longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein slightly curved, slanting, forming a very obtuse angle, parted from the second by more than four times its length ; second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first ; third slightly curved, slanting, forming a slightly acute angle ; fourth slightly waved, slanting, forming a slightly acute angle, hardly longer than the third ; fifth curved, nearly upright, forming an almost right angle. Body green, slightly tinged with tawny, partly covered with pale shining down : head a little narrower than the fore-chest, blackish between the eyelets ; face convex, black along the hind border and with a black stripe in front : eyes slightly prominent : mouth green with a black tip, reaching beyond the hind-hips : feelers black : scutcheon of the fore-chest blackish along the fore border ; hind-scutcheon a little widened and slightly angular on each side : some indistinct pitchy spots on each side of the middle-chest towards the tip which is slightly excavated : abdomen obconical, hardly longer than the chest : legs green ; feet and tips of the shanks tawny ; fore-thighs armed with two small teeth : wings colourless ; fore border green along near half the length, black thence along one-fourth of the length ; veins green, black towards the tips ; primitive areolet partly yellow ; hind-flaps at the base and fore-flaps pale brown. Length of the body 11 lines ; of the wings 36 lines.

a. Venezuela. From Mr. Dyson's collection.

## 62. CICADA PASSERCULUS, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1i longitudine; 3us ferè rectus, obliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by more than thrice its length; second very slightly curved, very slanting, forming an extremely obtuse angle, as long as the first; third almost straight, slanting, forming a right angle; fourth very slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming a hardly obtuse angle. Body short, green, tinged with tawny: head a little narrower than the fore-chest, adorned with two black bands; face slightly convex: mouth green with a black tip, reaching the hind-hips: eyes not prominent: feelers tawny, black towards the tips: scutcheon of the fore-chest bright green; hind-scutcheon edged with black and very slightly widened on each side: hind border of the middle-chest slightly excavated: abdomen ferruginous, a little shorter than the chest: drums very small: legs green; tips of the shanks and of the feet darker: wings colourless; fore border tawny for half the length, darker from thence towards the tip; veins tawny, black towards the tips. Length of the body 9 lines; of the wings 36 lines.

a. Para. From Mr. Stevens's collection.

## 63. CICADA BRIZO, Fem.

*Nervus transversus* 1us subcurvus, subobliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o longior; 3us subundatus, obliquus, angulum acutum fingens; 4us subundatus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein slightly curved, slightly slanting, forming an obtuse angle, parted from the second by full four times its length; second very slightly curved, slightly slanting, forming an obtuse angle, longer than the first; third very slightly waved, slanting, forming an acute angle; fourth slightly waved, slanting, forming

an acute angle, much longer than the third; fifth curved, almost upright, forming a hardly acute angle. Body broad, dark tawny: head and fore-chest dull green: head broad, very little narrower than the fore-chest; face very slightly convex: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers tawny at the base: fore-chest broadest in the middle; two very small pitchy dots on the hind border of the scutcheon; hind scutcheon broad, very convex and beset with short pitchy bristles on each side where it quickly decreases in breadth towards the fore border: some pitchy but very indistinct traces of the usual obconical marks on the scutcheon of the middle-chest; hind border tinged with green, rather deeply excavated: abdomen obconical, a little longer than the chest; last segment long and narrow like a short tail, adorned with two pitchy slightly curved stripes extending half the length from the base; horn at the tip ferruginous: oviduct ferruginous: legs tawny, thighs tinged with green; feet ferruginous; claws black, ferruginous towards the base; fore-thighs near the tip armed with a tawny tooth of moderate size: wings colourless; fore border tawny, tinged with green as far as the brand, pitchy from thence towards the tip; veins tawny, tinged with green in the fore-wings, black towards the tips; primitive areolet partly tinged with green; fore-flaps gray; hind-wings pale brown at the base. Length of the body 16 lines; of the wings 45 lines.

*c.* ———? Presented by Sir E. Belcher.

#### 64. CICADA SPINICOSTA, Mas et Fem.

*Nervus transversus 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus angulum perobtusum fingens, li longitudine; 3us ferè rëctus, subobliquus, angulum vix acutum fingens; 4us ferè rëctus, obliquus, angulum subacutum fingens, 3o longior.*

Second marginal areolet a little more than three-fourths of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by thrice its length; second slightly curved, very slanting, forming an extremely obtuse angle, as long as the first; third almost straight, slightly slanting, forming a hardly acute angle; fourth almost straight, forming a slightly acute angle, longer and more slanting than the third; fifth curved, upright, forming a slightly acute angle. Allied to *C. Serricosta*, but has no black on the chest.

*Male.*—Body olive-green, short and broad, partly clothed with

pale shining hairs: head very short, a little narrower than the fore-chest, adorned above with two broad black bands; face hardly convex, not at all prominent: mouth tawny with a black tip, reaching the hind-hips: feelers black: eyes prominent: fore-chest bright grass-green, narrower in front than behind, black on each side where there is a very obtuse angle near the base of the fore-wing, straight and armed with black spines from thence to the fore border; hind-scutcheon a little broader on each side than in the middle: excavation on the hind border of the scutcheon of the middle-chest broad and very shallow: abdomen slightly obconical, a little narrower but not longer than the chest, ferruginous above with the exception of the base: opercula very small; tymbals whitish; drums very small, far apart: legs green, tinged with tawny; thighs streaked with black; tips of the claws black; fore-thighs armed with two black teeth: wings colourless, green at the base and along the fore border which is armed with black spines; a stout spine at the base of each fore-wing; veins green, black towards the tips.

*Fem.*—Abdomen hardly narrower till near the tip which is slender and obconical, and has a large green spot on each side beneath.

Length of the body 11 lines; of the wings 36—38 lines.

*a.* Para. Presented by Gordon Graham, Esq.

*b.* Para. Presented by Reginald Graham, Esq.

*c.* Brazil. Presented by J. P. G. Smith, Esq.

#### 65. CICADA MELISA, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o paullò brevior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o paullò longior.

Second marginal areolet nearly three-fourths of the length of the first: first cross-vein slightly curved, very slanting, forming a very obtuse angle, parted from the second by thrice its length: second slightly curved, slanting, forming a very obtuse angle, a little shorter than the first; third slightly waved, slanting, forming a slightly acute angle; fourth slightly waved, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body olive-green, partly clothed with pale down, tinged with white beneath: head short, as broad as the fore-chest; face very slightly convex: mouth tawny with a black tip, extending just beyond the hind-hips: eyes rather

prominent: feelers black: fore-chest narrower before than behind; hind-scutcheon tawny, moderately broad, rounded and a little widened at the base of each fore-wing, not excavated on each side: scutcheon of the middle-chest tinged with tawny which is most apparent on each side and on the hind border, the latter is very slightly excavated: abdomen obconical, longer than the chest: opercula none; tymbals hoary; drums pale tawny, slightly tinged with green, rather widely parted: legs green; shanks mostly tawny; feet tawny; tips of the claws black; fore-thighs armed with three teeth, first large, tawny and very oblique; second and third black, second small, third very small; fore-shanks beset beneath with tawny bristles: fore-feet dark tawny: wings colourless; tips of the fore-wings slightly tinged with brown; fore border beset with very short black spines, green, partly tawny, pitchy beyond the brand; veins tawny varied with green, black towards the tips, pale yellow towards the base of the hind-wings; primitive areolet mostly tawny; fore-flaps pale grayish brown; hind-flaps tinged at the base with pale grayish brown. Length of the body 12 lines; of the wings 38 lines.

a. Venezuela. From Mr. Dyson's collection.

#### 66. CICADA MELINA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum obtusum fingens, 2o plus sexties ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o multò longior; 3us subundatus, obliquus, angulum ferè rectum fingens; 4us subcurvus, obliquus, angulum ferè rectum fingens, 3i longitudine.

Second marginal areolet full two-thirds of the length of the first: first cross-vein slightly curved, slightly oblique, forming an obtuse angle, parted from the second by more than six times its length; second slightly curved, oblique, forming a very obtuse angle, much longer than the first; third very slightly waved, oblique, forming an almost right angle; fourth very slightly curved, oblique, forming an almost right angle, as long as the third; fifth curved, nearly upright, forming a hardly acute angle. Body pale tawny, rather broad, tinged with green: head short, broad, hardly narrower than the fore-chest, adorned with two black bands; one on the crown, interrupted, longer than the other which is on the face; this is very slightly convex: mouth tawny with a black tip reaching the hind-hips: feelers black: eyes prominent: fore-chest broadest in the middle, widened into a rounded rim on each side, and adorned with a pitchy spot which extends to the fore border; excavation on the



hind border of the middle-chest moderately deep: abdomen obconical, a little longer than the chest, ferruginous towards the tip: opercula none; tymbals white with a tawny ringlet; drums pale tawny, small, black at the base, but little apart: legs tawny, tinged with green; feet ferruginous; claws black, tawny at the base; fore-thighs armed with two tawny teeth of moderate size, one very oblique, the other more upright and near the tip: wings colourless, adorned with opaline lustre; fore border beset with very little black spines, green as far as the brand, pitchy thence towards the tip; veins tawny, tinged with green, black towards the tips of the fore-wings; primitive areolet bright tawny; fore-flaps pale brown; hind-flaps pale brown at the base and for a space along the hind border. Length of the body 13 lines; of the wings 42 lines.

a. ——— ?

#### 67. CICADA MESOCHLORA, Mas.

*Nervus transversus lvs curvus, subobliquus, angulum obtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us valdè curvus, subobliquus, angulum subobtusum fingens, 1o paullò longior; 3us ferè rectus, obliquus, angulum vix acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet much more than half the length of the first: first cross-vein curved, slightly slanting, forming an obtuse angle, parted from the second by more than four times its length; second much curved, slightly slanting, forming a slightly obtuse angle, a little longer than the first; third nearly straight, slanting, forming a hardly acute angle; fourth very slightly curved, slanting, forming a slightly acute angle, much longer than the third; fifth slightly curved, almost upright, forming a nearly right angle. Body tawny, clothed with whitish shining down: head a little narrower than the fore-chest; crown adorned with an irregular and interrupted black band; face convex, rather prominent, adorned in front with two black stripes which unite and inclose an oval space and then diverge: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: scutcheon of the fore-chest tinged with green, adorned in the middle with two slender black nearly parallel stripes; furrows blackish; hind-scutcheon green, widened near the base of each fore-wing into a very obtuse and slightly rounded angle whose fore side is twice the length of its hind-side and very slightly excavated: scutcheon of the middle-chest adorned with four brown stripes; the inner pair short, obconical, suc-

ceeded by a brown cross; the outer pair longer but irregular; hind border very slightly excavated: abdomen elliptical, a little broader and longer than the chest: opercula large, tawny, partly pitchy; drums tawny, large, not far apart, rather less than half the length of the abdomen: legs pale tawny; tips of the shanks and of the claws black; fore-feet and middle-feet blackish with tawny bands; fore-thighs armed with two tawny teeth whose tips are black, of these one is stout, the other oblique and more slender: wings colourless, adorned with delicate blue lustre, tawny along the fore border; veins pale tawny, tinged with green, darker towards the tips; first and second cross-veins tinged with pale brown; three indistinct brown dots near the tip, the indications of a row of spots along the hind border; fore-flaps pale brown; hind-flaps pale tawny at the base and for a short space along the hind border. Length of the body 11 lines; of the wings 34 lines.

a. Jamaica. From Mr. Gosse's collection.

#### 68. CICADA SERRICOSTA?

*Cicada serricosta?* *Germ. Silb. Rev. Ent.* ii. 62, 18. Mas et Fem.

*Nervus transversus* 1us *subcurvus, obliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us curvus, obliquus, angulum obtusum fingens, 1i longitudine; 3us subcurvus, obliquus, angulum subrectum fingens; 4us subundatus, angulum acutum fingens, 3o longior et obliquior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by full four times its length; second curved, slanting, forming an obtuse angle, as long as the first; third very slightly curved, slanting, forming a nearly right angle; fourth very slightly waved, forming an acute angle, longer and more slanting than the third; fifth curved, nearly upright, forming a slightly acute angle.

*Male*.—Body tawny, tinged with green: head nearly as broad as the fore-chest; a black interrupted band across the crown and between the eyelets; face convex, adorned in front with two black stripes which send forth black bands on each side: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers black: furrows of the scutcheon of the fore-chest blackish; hind-scutcheon slightly widened and forming an obtuse angle at the base of each fore-wing, nearly straight and beset with short black bristles on each side: scutcheon of the middle-chest adorned with four marks;

inner pair black, obconical; a large black spot between them on the cross-ridge: outer pair longer, ferruginous, black at the base; hind border slightly excavated: abdomen obconical, mostly ferruginous, covered here and there with whitish down; fore borders of the segments mostly black: opercula none; tymbals whitish with brown bands; drums tawny, very small, pitchy at the base: legs yellow; hips and thighs adorned with pitchy stripes; tips of the shanks pitchy; feet pitchy, a yellow band on each fore middle-foot and hind-foot; fore-thighs armed with three tawny teeth, one very short, the other of moderate size: wings colourless; a pitchy spot on the fore border of the primitive areolet; fore border tawny, beset with short black spines, yellow at the base; a yellow band beyond the brand, beyond which band the border is pitchy; veins black, tawny towards the base: fore-flaps brown; hind-wings pale brown at the base; flaps pale brown at the base and along the fore border.

*Fem.*—A black dot on each side of the black spots near the cross-ridge of the scutcheon of the middle-chest which has two black spots on the hind border: abdomen a little longer than the chest, compressed at the tip, black on each side of the base: a green spot at the base of each fore-wing.

Length of the body 8—11 lines; of the wings 27—36 lines.

*Var. β.* Abdomen pitchy.

*Var. γ.* Fore border of the wings green at the base.

*a.* Para. Presented by Gordon Graham, Esq.

*b.* British Guiana. From Sir R. Schomburghk's collection.

*c.* Demerara.

*d—g.* Brazil?

#### 69. CICADA BRISA, Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine dirisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by four times its length; second very slightly curved, very slanting, forming an extremely obtuse angle, much longer than the first; third slightly waved, slanting, forming a hardly acute angle; fourth slightly waved, slanting, forming a slightly acute angle, very much longer than the third; fifth

curved, upright, forming a slightly acute angle. Body dark tawny, tinged with green, short, broad, partly clothed with shining tawny down: head short, broad, a little narrower than the fore-chest, adorned with a black band across the eyelets; face slightly convex, adorned on the disk with three black spots: mouth tawny with a black tip, reaching near to the hind-hips: eyes not prominent: feelers black: fore-chest much narrower in front than behind; scutcheon adorned with two rather large black spots on the fore border, and with three small united black spots on the hind border; hind-scutcheon dark green, rather broad, very slightly waved along the hind border, forming a very obtuse angle above the base of the fore-wing near which it is beset with some short black bristles, hardly indented on each side: scutcheon of the middle-chest adorned in front with four black stripes; outer pair obconical; inner pair much shorter, nearly forming two semicircles; two black dots near the cross-ridge; hind border rather deeply excavated: abdomen obconical, a little shorter than the chest, adorned with black which is chiefly on the fore borders of the segments, and forms two very irregular curved stripes, these are united at the tip; on the under side the black rather assumes the appearance of three bands, one at the base, one in the middle, and one at the tip: legs tawny, tinged with green, partly ferruginous; feet black; fore-shanks tawny; claws black, tawny at the base; hind-feet tawny, pitchy at the tips and at the base; fore-thighs armed with two ferruginous teeth of moderate size: wings colourless, brown at the base and on the primitive areolet; fore border ferruginous in front and black behind as far as the brand, black in front and ferruginous behind from thence towards the tip; veins black, green towards the base in the fore-wings, tawny towards the base in the hind-wings. Length of the body 12 lines; of the wings 43 lines.

a. British Guiana. Presented by Sir R. Schomburghk.

#### 70. CICADA LACRINES, Fem.

*Nervus transversus 1us subcurvus, valdè obliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o brevior; 3us subundatus, obliquus, angulum acutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o paullò longior.*

Second marginal areolet more than two-thirds of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by more than

twice its length; second slightly curved, slanting, forming a very obtuse angle, shorter than the first; third very slightly waved, slanting, forming an acute angle; fourth nearly straight, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body tawny, short, broad, tinged with green: head broad, very short, a little narrower than the fore-chest; crown adorned with a black band; face very short above, adorned with a black band which extends as far as the base of each eye: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers black: fore-chest not shining, narrower in front than behind; scutcheon mostly green, with a narrow black band along the fore border; hind-scutcheon rather broad, very slightly excavated on the hind border, forming a very obtuse angle above the base of each fore-wing, adorned with a black border from each angle to each fore side: middle-chest and abdomen shining: middle-chest dark tawny; hind border very slightly excavated: abdomen ferruginous, obconical, hardly longer than the chest, adorned with a patch of white shining down on each side; last segment somewhat pitchy beneath, adorned with a very large tawny spot on each side: legs tawny; thighs striped with black; feet ferruginous; claws black, ferruginous at the base; fore-thighs armed with three long ferruginous oblique teeth: wings colourless; wing-ribs and veins ferruginous, the latter black towards the tips; primitive areolet tawny; fore-flaps brownish tawny; hind-wings pale brown at the base. Length of the body 12 lines; of the wings 38 lines.

a. ——— ?

#### 71. CICADA PANYASES, Mas.

*Nervus transversus* 1us *curvus*, *valdè obliquus*, *angulum perobtusum* *figens*, 2o *quadruplò ejus longitudine divisus*; 2us *subcurvus*, *obliquus*, *angulum valdè obtusum* *figens*, 1o *rix brevior*; 3us *subundatus*, *obliquus*, *angulum subacutum* *figens*; 4us *subundatus*, *obliquus*, *angulum subacutum* *figens*.  
3o *longior*.

Second marginal arcelet more than two-thirds of the length of the first: first cross-vein curved, very slanting, forming an extremely obtuse angle, parted from the second by four times its length; second slightly curved, slanting, forming a very obtuse angle, nearly as long as the first; third very slightly waved, slanting, forming a very slightly acute angle; fourth very slightly waved, slanting, forming a very slightly acute angle, longer than the third; fifth curved, upright, forming a slightly acute angle. Body tawny, tinged with

green, clothed above with whitish shining down, powdered with white beneath: head a little narrower than the fore-chest; crown adorned with a black interrupted band which by the eyelets sends forth two branches nearly to the hind border; face slightly convex adorned with a broad black band along its hind border: mouth tawny with a black tip, reaching a little beyond the hind-hips: eyes rather prominent: feelers black: fore-chest rather short; scutcheon blackish along the fore border, adorned with a short black stripe on the hind border; hind-scutcheon green, rather narrow, rounded but hardly widened above the base of each fore-wing, not excavated but beset with a few short black bristles on each side: scutcheon of the middle-chest adorned with four obconical dark ferruginous stripes; middle pair not more than half the length of the outer pair; hind border slightly excavated: abdomen obconical, ferruginous, a little longer, and very little broader than the chest: opercula none; tymbals whitish; drums pale yellow, very small, far apart, black on each side towards the base: legs tawny; feet ferruginous with pitchy tips; claws black, tawny at the base; fore-thighs marked with black, armed with one tawny tooth near the tip; wings colourless: fore border greenish tawny as far as the brand, pitchy thence towards the tip: veins black, green towards the base in the fore-wings, tawny towards the base in the hind-wings; primitive areolet tawny; fore-flaps brown; hind-wings brown at the base. Length of the body 11 lines; of the wings 36 lines.

a. British Guiana. Presented by Sir R. Schomburghk.

## 72. CICADA PIDYTES, Mas.

*Nervus transversus* *lus curvus, obliquus, angulum valdè obtusum* *figens, 2o plus quadruplò ejus longitudine divisus; 2us curvus, obliquus, angulum valdè obtusum figens, 1o rix longior; 3us subundatus, obliquus, angulum subacutum figens; 4us subundatus, obliquus, angulum subacutum figens, 3o paullò brevior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein curved, slanting, forming a very obtuse angle, parted from the second by more than four times its length; second curved, slanting, forming a very obtuse angle, hardly longer than the first; third slightly waved, slanting, forming a slightly acute angle: fourth slightly waved, slanting, forming a slightly acute angle, a little shorter than the third; fifth curved, upright, forming a slightly acute angle. Body green, slightly tinged with tawny: head nearly as broad as the fore-chest, adorned with an irregular

black band which is much interrupted on each side of the eyelets: face very slightly convex, adorned above with a short broad black band which is interrupted by a triangular tawny spot and is accompanied by a black spot on each side at the base of the feelers: furrows partly blackish on each side: mouth tawny with a black tip, extending to the hind border of the drums: feelers tawny, black towards the tips: eyes hardly prominent: fore-chest a little narrower in front than behind: scutcheon adorned with four little brown spots, two in front and two behind; spaces between the furrows partly tawny; hind-scutcheon of moderate breadth, very slightly excavated in the middle, rounded but hardly widened above the base of each fore-wing, not excavated on each side: scutcheon of the middle-chest adorned with four large obconical tawny stripes, the outer pair about twice the length of the inner pair; excavation of the hind border moderately deep: abdomen obconical, a little longer than the chest: opercula none; tymbals white, tawny on the inner side: drums small, pale tawny, hardly apart: legs tawny; thighs and hind-shanks mostly green; tips of the claws black; fore-thighs armed with two tawny teeth of moderate size, the first very oblique: wings colourless; fore border green, ferruginous beyond the band, beset with very short ferruginous spines; veins of the fore-wings green, of the hind-wings tawny, black towards the tips; primitive areolet partly tawny; fore-flaps tawny; hind-flaps tawny at the base and for a short space along the middle-vein. Length of the body 10 lines; of the wings 34 lines.

a. ——— ?

### 73. CICADA PHYSCOA, Mas.

*Nervus transversus* 1us *curvus, obliquus, angulum valdè obtusum fingens*, 2o *plus quadruplò ejus longitudine divisus*; 2us *subcurvus, obliquus, angulum valdè obtusum fingens*, 1i *longitudine*; 3us *subundatus, obliquus, angulum vix acutum fingens*; 4us *subundatus, obliquus, angulum subacutum fingens*, 3o *paullò longior*.

Second marginal arcelet more than two-thirds of the length of the first: first cross-vein curved, slanting, forming a very obtuse angle, parted from the second by more than four times its length; second slightly curved, slanting, forming a very obtuse angle, as long as the first; third very slightly waved, slanting, forming a hardly acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body tawny, tinged with green: head nearly as broad as the fore-chest, adorned with a slen-

der and much interrupted band; face slightly convex, adorned on the hind border with a broad black indented band: mouth tawny with a black tip, reaching a little beyond the hind-hips: feelers black: eyes hardly prominent: fore-chest narrower in front than behind; scutcheon adorned with an interrupted black band along the fore border; hind-scutcheon green, slightly concave on the hind border, rounded and a little widened above the base of each forewing, beset with short spines but not excavated on each side: scutcheon of the middle-chest adorned with four large obconical ferruginous stripes, the outer pair twice the length of the inner pair whose borders are partly pitchy; excavation of the hind border moderately deep: abdomen obconical, a little longer than the chest, somewhat ferruginous, especially towards the tip; opercula very small, narrow, angular; tymbals tawny; drums small, tawny, their disks green: legs tawny, tinged with green; claws black, tawny at the base; fore-thighs striped beneath with black, armed with two ferruginous teeth, the first very oblique: wings colourless; fore border tawny as far as the brand which is pitchy; veins tawny, black towards the tips. Length of the body 12 lines; of the wings 35 lines.

a. ——— ?

#### 74. CICADA BRAURE, Mas.

*Nervus transversus* 1us subcurvus, ferè erectus, angulum obtusum fingens, 2o plus quinquies ejus longitudine dirisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò longior; 3us subundatus, obliquus, angulum subacutum fingens; 3o paullò longior.

Second marginal areolet more than two-thirds of the length of the first: first cross-vein very slightly curved, nearly upright, forming an obtuse angle, parted from the second by more than five times its length; second slightly curved, very slanting, forming an extremely obtuse angle, a little longer than the first; third very slightly waved, slanting, forming a slightly acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body green, tinged with tawny, partly clothed with shining pale yellow down: head as broad as the fore-chest, adorned with a pitchy stripe which passes between the eyelets: face slightly convex, adorned with a pitchy band: mouth tawny with a black tip, extending just beyond the hind-hips: feelers black, tawny at the base: eyes prominent: hind-scutcheon of the fore-chest rather narrow in the middle, slightly concave on the hind border, widened and almost



angular above the base of each fore-wing, not indented on each side; scutcheon of the middle-chest adorned with indistinct traces of ferruginous stripes; hind border moderately excavated: abdomen obconical, hardly longer than the chest: opercula none; tymbals whitish; drums pale green, of moderate size, nearly meeting, less than one-third of the length of the abdomen: legs green, tinged with tawny; feet dark tawny with pitchy tips; claws dark tawny with black tips; fore-thighs armed with three tawny teeth, first large, oblique, second small, third very small; fore-shanks beset beneath with tawny bristles: wings colourless; tips of the fore-wings tinged with brown; fore border green, varied with tawny, pitchy beyond the brand, beset with very short spines; veins black, green towards the base of the fore-wings, tawny towards the base of the hind-wings; primitive areolet tawny; fore-flaps ferruginous; hind-flaps ferruginous at the base and for a short space along the hind border and along the borders of the veins. Length of the body 10 lines; of the wings 35 lines.

a. Para. Presented by Reginald Graham, Esq.

#### 75. CICADA ORNEA, MRS.

*Nervus transversus* Ius *subcurvus*, *subobliquus*, *angulum subobtusum* *finiens*, 20 *quinq̄ies* *ejus* *longitudine* *dirisus*; 2us *subcurvus*, *obliquus*, *angulum* *valdè* *obtusum* *finiens*, 10 *longior*; 3us *subcurvus*, *subobliquus*, *angulum* *rectum* *finiens*; 4us *undatus*, *valdè* *obliquus*, *angulum* *acutum* *finiens*, 30 *plus* *duplò* *longior*.

Second marginal areolet much less than two-thirds of the length of the first: first cross-vein slightly curved, slightly slanting, forming a slightly obtuse angle, parted from the second by five times its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third very slightly curved, slightly slanting, forming a right angle; fourth waved, very slanting, forming an acute angle, more than twice the length of the third; fifth curved, nearly upright, forming a hardly acute angle. Body black: head a little narrower than the fore-chest, adorned on the hind border with a middle tawny triangular mark and with a forked mark on each side; on each side in front are two tawny marks and between at the base of the feelers a green mark; face convex, adorned with tawny bands on each side: mouth tawny with a black tip, reaching the hind-hips: eyes rather prominent: feelers black, partly ferruginous: scutcheon of the fore-chest adorned on each side with two broad tawny stripes which are irregular in outline and partly exca-

vated, and contain several small black spots; hind-scutcheon adorned along the hind border with a greenish tawny band which is interrupted at the base of each fore-wing, rather narrow in the middle, slightly waved along the hind border, much widened and almost angular near the base of each fore-wing, slightly indented on each side: scutcheon of the middle-chest adorned with several tawny marks; a middle pair curved and widened at one end; a net-work mark on each side, and an oblique stripe near each side of the chest; two tawny spots above the cross-ridge which is tawny and has a pitchy spot in the middle; hind border tawny, very slightly excavated: breast tawny: abdomen pitchy, obconical, a little longer than the chest: opercula large, close, reddish-pitchy; drums pale yellow, large, triangular, more than half the length of the abdomen: legs tawny; thighs striped beneath with pale yellow; claws black, tawny at the base; fore-thighs armed with two tawny teeth of moderate size; fore-shanks and fore-feet pitchy; hind-shanks and hind-feet pale yellow: wings colourless; fore border green, tinged with tawny as far as the brand, pitchy from thence towards the tip; brands pitchy; veins black, tawny and green towards the base; first and second cross-veins slightly clouded with brown; fore-flaps grayish brown; hind-flaps grayish brown at the base and along the veins. Length of the body 10 lines; of the wings 32 lines.

a. Mexico. Presented by J. Taylor, Esq.

#### 76. CICADA DIUPSILON, Fem.

*Nervus transversus 1us subcurvus, subobliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o brevior; 3us ferè rectus, obliquus, angulum ferè rectum fingens; 4us subcurvus, obliquus, angulum ferè rectum fingens, 3o longior.*

Second marginal areolet more than two-thirds of the length of the first: first cross-vein very slightly curved, very slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second very slightly curved, slanting, forming an obtuse angle, shorter than the first; third nearly straight, slanting, forming a nearly right angle; fourth slightly curved, slanting, forming an almost right angle, longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body tawny: head narrower than the fore-chest; crown black with the exception of two slender irregular tawny bands, one on the fore border, the other on the hind border; these bands are here and there widened into small spots: face convex, not prominent, with a yellow spot and partly

black above, adorned in front with two black stripes which send forth black bands on each side: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers tawny, pitchy at the base: fore-chest rather short, narrower before than behind; scutcheon adorned in the middle with two pitchy stripes which are widened before and behind; furrows dark tawny; hind-scutcheon rather narrow, much widened at the base of each fore-wing, very slightly excavated on each side: scutcheon of the middle-chest adorned with four large obconical pitchy stripes; outer pair much longer than the inner pair, mostly ferruginous towards the tips; inner pair excepting the base bordered with pale tawny which forms a double U figure; sides and hind border tawny, the latter slightly excavated: abdomen pitchy, obconical, shorter than the chest; hind borders of the segments tawny; last segment adorned with a tawny middle stripe and with two forked tawny side stripes: oviduct pitchy: legs tawny; thighs streaked with brown; feet pitchy; claws black, tawny at the base; fore-thighs armed with two long pitchy teeth; fore-shanks dark tawny, rather hairy: wings colourless; veins tawny, marked with black at the base, black towards the tips; fore border tawny as far as the brand, pitchy from thence till near the tip; primitive areolet buff; fore-membrane grayish; flaps buff towards the base. Length of the body 9 lines; of the wings 28 lines.

a. British Guiana. Presented by Sir R. Schomburghk.

#### 77. CICADA CUTA, Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o brevior; 3us ferè rectus, obliquus, angulum rix acutum fingens; 4us subundatus, obliquus angulum subacutum fingens, 3o multò longior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein slightly curved, slanting, forming a very obtuse angle, parted from the second by full four times its length; second slightly curved, slanting, forming an obtuse angle, shorter than the first; third nearly straight, slanting, forming a hardly acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth curved, upright, forming a right angle. Body tawny, rather short and broad: head a little narrower than the fore-chest; face convex, not prominent, adorned with a short black stripe; an irregular black stripe across the crown: mouth tawny with a black tip, reaching a short distance beyond the

hind-hips: eyes prominent: feelers black: fore-chest rather short: scutcheon adorned with two parallel black stripes which are united on the fore border and on the hind border; inner furrows blackish; hind-scutcheon widened and forming an obtuse angle at the base of each fore-wing, not excavated but nearly straight on each side: scutcheon of the middle-chest adorned with four black obconical stripes, the inner pair much shorter than the outer pair, united at the base, succeeded by two black spots which are close to the cross-ridge; hind border rather deeply excavated: abdomen pale ferruginous, obconical, very little longer than the chest; a broad black band adjoining the fore border of each segment from the first to the fifth; under side of the last segment adorned with a black middle stripe and with a large tawny spot on each side; oviduct pitchy; legs tawny; claws above partly black; fore-thighs armed with one long tawny tooth: wings colourless; veins black, tawny towards the base; fore border tawny as far as the brand, pitchy from thence towards the tip; a yellow spot a little beyond the brand which is pitchy; primitive areolet pale tawny: fore-membrane pale brown: flaps brown at the base, along the fore border, and along the black middle-vein. Length of the body 8 lines; of the wings 26 lines.

a. ——— ?

#### 78. CICADA LUCASTIA, Mas.

*Nervus transversus* 1us *subcurvus, obliquus, angulum obtusum fingens*, 2o plus quadruplò ejus longitudine divisus; 2us *curvus, valdè obliquus, angulum valdè obtusum fingens*, 1o longior; 3us *ferè rectus, obliquus, angulum subacutum fingens*; 4us *subundatus, obliquus, angulum acutum fingens*, 3o multò longior.

Second marginal areolet about two-thirds of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by much more than four times its length; second curved, very slanting, forming a very obtuse angle, longer than the first; third nearly straight, slanting, forming a slightly acute angle; fourth very slightly waved, slanting, forming an acute angle, very much longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body ferruginous, tawny and powdered with white beneath; head nearly as broad as the fore-chest, adorned with a very broad irregular black band which sends forth branches round the eyes and to the hind border; face slightly convex, not at all prominent, adorned with a broad black band; furrows in front black: mouth tawny with a black tip, reach-

ing a little beyond the hind-hips: eyes rather prominent: feelers black: fore-chest rather short, narrower in front than behind; scutcheon mostly black along the fore border and the hind border and in the furrows; hind-scutcheon tawny, mostly pitchy along the fore border, widened and forming a very obtuse angle near the base of each fore-wing, very slightly excavated on each side: scutcheon of the middle-chest rather long, adorned with four broad black stripes, the outer pair are obconical till near their tips and then much widened; the side pair are much shorter, almost united, and are succeeded by a large slightly cross-shaped black spot which rests on the fore-side of the cross-ridge; excavation on the hind border rather deep: abdomen obconical, very little longer than the chest: segments mostly black above with the exception of the sides and of the hind borders: opercula none; tymbals tawny; drums small, tawny, blackish at the base and on the inner side, parted by a narrow interval: legs tawny; claws black, tawny at the base; fore-thighs armed with two teeth; one small, yellow, near the base; the other long, tawny towards the tip; wings colourless, with a pitchy spot beneath the fore border at the base adjoining the primitive areolet; veins black, tawny towards the base; fore border beset with very short spines, tawny as far as the pitchy brand, pitchy towards the tip with the exception of a tawny spot which is a little beyond the brand; fore-membranes brownish tawny; flaps brownish tawny at the base, on the fore borders and along the black middle-vein. Length of the body  $7\frac{1}{2}$  lines; of the wings 25 lines.

a. ——— ?

### 79. CICADA ASIUS, Mas.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum figens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum figens, 1o paullò longior; 3us ferè rectus, subobliquus, angulum subacutum figens; 4us subcurvus, obliquus, angulum subacutum figens, 3o multo longior.

Second marginal areolet about two-thirds of the length of the first: first cross-vein slightly curved, very slanting, forming a very obtuse angle, parted from the second by much more than thrice its length; second very slightly curved, very slanting, forming a very obtuse angle, a little longer than the first; third nearly straight, slightly slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, much longer than the third; fifth very slightly curved, upright, forming a right

angle. Body black, short and broad, tawny beneath : head a little narrower than the fore-chest, adorned with a red spot on each side of the hind border, and with another on each side of the face ; the latter slightly convex, not at all prominent, adorned in front with red ridges : feelers black : mouth tawny with a black tip, reaching the hind-hips : eyes rather prominent : fore-chest a little narrower in front than behind ; scutcheon adorned with a dark red spot on the fore side of each inner furrow ; hind-scutcheon tawny, very slightly rounded and forming an obtuse angle and adorned with a black spot near the base of each fore-wing : scutcheon of the middle-chest adorned with two slender slightly oblique tawny stripes ; sides and hind border tawny, the latter very slightly excavated : cross-ridge tawny with the exception of a black spot on its disk : abdomen obconical, very little longer than the chest ; tip and hind borders of the segments dark red : opercula none ; tymbals hoary ; drums small, dark tawny, very little apart : legs tawny ; thighs adorned with pitchy streaks ; feet ferruginous ; claws black, ferruginous at the base ; fore-thighs adorned with two ferruginous teeth, one of moderate size, the other very small ; hind-shanks beset with ferruginous spines ; wings colourless ; an indistinct tawny tinge at the tip of each fore-wing ; veins tawny, black towards the tips ; fore border tawny, pitchy from the brand towards the tip ; fore-membrane pale tawny ; flaps pale brown at the base and along part of the hind border. Length of the body 7 lines ; of the wings 21 lines.

a. ——— ?

#### 80. CICADA SEMICINCTA, Mas.

*Nervus transversus* 1us *subcurvus*, *subobliquus*, *angulum obtusum* *fungens*, 2o *plus quadruplò ejus longitudine divisus* ; 2us *ferè rectus*, *obliquus*, *angulum valdè obtusum* *fungens*, 1o *multò longior* ; 3us *vix undatus*, *subobliquus*, *angulum subacutum* *fungens* ; 4us *vix undatus*, *subobliquus*, *angulum vix acutum* *fungens*, 3o *longior*.

Second marginal areolet nearly three-fourths of the length of the first : first cross-vein very slightly curved, very slightly slanting, forming an obtuse angle, parted from the second by much more than four times its length ; second nearly straight, slanting, forming a very obtuse angle, very much longer than the first ; third hardly waved, slightly slanting, forming a very slightly acute angle ; fourth hardly waved, slightly slanting, forming a hardly acute angle, longer than the third ; fifth slightly curved, upright, forming a hardly obtuse angle. Head wanting : fore-chest dark red, not narrower in

front than behind; scutcheon adorned with a large black spot in front of each side, and with a black middle stripe which is widened before and behind; hind-scutcheon rather narrow above, a little broader and slightly rounded at the base of each fore-wing, extending beyond the scutcheon, very slightly excavated on each side: scutcheon of the middle-chest black, red on each side and behind, and adorned with two slender, slightly oblique red stripes; hind border not excavated: abdomen dark red, a little longer than the chest, nearly linear till the tip where it is rounded, pitchy towards the base and at the tip, adorned with a large white spot on each side near the base and with a slender interrupted white stripe near the tip; under side pitchy with a broad pale red stripe on each side: opercula none; tymbals dark red, rather small; drums pitchy, of moderate size, more than one-third of the length of the abdomen, parted by a narrow interval: legs tawny; tips of the claws black; fore-thighs pitchy above, armed with three tawny teeth, two large, one of moderate size: wings colourless; a small brown spot at the tip of each fore-wing; veins black, tawny towards the base; fore borders tawny, darker towards the tips; primitive areolet, fore-membranes, and flaps at the base and along part of the fore border pale tawny. Length of the body 8 lines; of the wings 23 lines.

a. ——— ?

#### Sl. CICADA SOLENNIS, Mus.

*Nervus transversus 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us vix curvus, valdè obliquus, angulum perobtusum fingens, 1o vix brevior; 3us subundatus, subobliquus, angulum rectum fingens; 4us subundatus, obliquus, angulum vix acutum fingens, 3o paultò longior.*

Second marginal areolet a little more than three-fourths of the length of the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by more than four times its length; second hardly curved, very slanting, forming an extremely obtuse angle, nearly as long as the first; third very slightly waved, very slightly slanting, forming a right angle; fourth very slightly waved, slanting, forming a hardly acute angle, very little longer than the third; fifth slightly curved, upright, forming a hardly acute angle. Body tawny, tinged with green: head as broad as the fore-chest, adorned with two black bands, one behind, the other across the crown, but interrupted on each side of the eyelets; under side adorned with two broad black interrupted oblique

stripes; face very slightly convex, not at all prominent, adorned above with a broad black band; furrows in front blackish: mouth tawny with a black tip, reaching the hind-hips: eyes rather prominent: feelers black: fore-chest narrower before than behind; furrows of the scutcheon blackish; hind-scutcheon green, adorned with four black spots, two of these are on the fore border, and one nearer each side and close to the hind border; sides yellow, slightly angular, excavated towards the fore border: scutcheon of the middle-chest adorned with three very indistinct slightly ferruginous obconical stripes, a pitchy stripe runs along part of the outer side of each of the inner pair which are much shorter than the outer pair, the latter contain some indistinct pitchy marks; hind border slightly excavated: abdomen obconical, a little longer than the chest: opercula small, partly covering the tymbals which are whitish; drums pale tawny, tinged with green, black at the base, small, widely apart: legs tawny, tinged with green; fore-thighs armed with a long black tooth: wings colourless; fore border green as far as the brand, pitchy from thence till near the tip; veins green, black towards the tips. Length of the body  $10\frac{1}{2}$  lines; of the wings 30 lines.

a. St. Lucia. Presented by W. Muter, Esq.

## 82. CICADA PRONOE, MAS.

*Nervus transversus* 1us subundatus, obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subundatus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus obliquus, angulum rectum fingens; 4us valdè undatus, angulum vix acutum fingens, 3o longior et obliquior.

Second marginal areolet full five-sixths of the length of the first: first cross-vein slightly waved, slanting, forming a very obtuse angle, parted from the second by much more than thrice its length; second slightly waved, very slanting, forming an extremely obtuse angle, much longer than the first; third very slightly waved, slanting, forming a right angle; fourth much waved, forming a hardly acute angle, more slanting and much longer than the third; fifth curved, almost upright, forming a hardly acute angle. Body tawny, short, broad: head and fore-chest ferruginous: head nearly as broad as the fore-chest, pitchy about the eyelets; face very convex, not prominent: mouth tawny with a black tip, reaching nearly to the hind-hips: eyes prominent: feelers black, tawny at the base: hind-scutcheon of the fore-chest tawny, very broad, forming a very obtuse angle above the base of the fore-wing, slightly indented on



each side; its hind border slightly waved: scutcheon of the middle-chest pitchy, in which hue the four obconical stripes of a dark ferruginous colour may be indistinctly traced; a broad tawny band along each side; cross-ridge ferruginous; hind border rather deeply excavated: abdomen pitchy, obconical, a little longer than the chest; hind borders of the segments ferruginous; sides and tip mostly tawny: opercula none; tymbals and drums extremely small: legs tawny; claws black, tawny at the base; fore-thighs armed with three tawny teeth, two of moderate size, one very small: wings colourless; fore border green in front, black behind until a short distance beyond the brand where it is wholly black; veins tawny, black towards the tips and along most of the fore border; primitive areolet tawny; fore-flaps gray; hind-wings tawny at the base. Length of the body 14 lines; of the wings 43 lines.

a. ——— ?

### 83. CICADA SEPTEMDECIM.

*Cicada septemdecim*, Linn. *Syst. Nat.* ii. 708, 20. Kalm, *Reize*, 173. *Act. Holm.* 1756, 101. Gmel. *Ed. Syst. Nat.* i. 3, 2099, 20. Stoll, *Cic.* 26, pl. 3, f. 14. Oliv. *Enc. Méth.* v. 749, 13, pl. 111, f. 2. Collinson, *Obs. Cic. North Amer. Phil. Trans. Lond.* liv. 65. Hildreth, *Amer. Journ. Sci.* x. 327. Potter, *Notes on the Locusta.* Harris, *Ins. New Engl.* 167.

*Tettigonia Septemdecim*, Fabr. *Syst. Ent.* 679, 6. *Sp. Ins.* ii. 319, 6. *Mant. Ins.* ii. 266, 9. *Ent. Syst.* iv. 199. *Syst. Rhyn.* 36, 15.

a, b. North America. Presented by E. Doubleday, Esq.

c, d. North America.

### CICADA (pupa).

a. New Holland. Presented by the Haslar Hospital.

### CICADA (pupa).

a. South Africa. Presented by Dr. A. Smith.

### CICADA (pupa).

a, b. Hong Kong. Presented by J. C. Bowring, Esq.

## CICADA (pupa).

*a—f.* New Zealand. Presented by Dr. A. Sinclair.

## 84. CICADA CHARICLO, Mas.

*Nervus transversus* 1us subcurvus, ferè erectus, angulum subobtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o longior; 3us ferè rectus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum acutum fingens; 3o multò longior.

Second marginal areolet much less than two-thirds of the length of the first: first cross-vein slightly curved, nearly upright, forming a very slightly obtuse angle, parted from the second by full five times its length; second slightly curved, slanting, forming an obtuse angle, longer than the first; third nearly straight, slanting, forming an acute angle; fourth very slightly curved, slanting, forming an acute angle, very much longer than the third: fifth slightly curved, nearly upright, forming a right angle. Body pale green, tinged with white: head a little narrower than the fore-chest, adorned with a slender pitchy band and on each side near the base of the feeler with a pitchy spot; face slightly convex, adorned with a pitchy band; mouth tawny with a pitchy tip, reaching the hind-hips: eyes not prominent: feelers black, tawny towards the base: scutcheon of the fore-chest rather long, adorned with four pitchy spots, one on the fore border, one on the hind border, and one on each side; hind-scutcheon narrow above, widened and almost angular above the base of the fore-wing, slightly indented on each side: scutcheon of the middle-chest adorned with four broad obconical stripes, the outer pair oblique, much longer than the inner pair, inclosing two pitchy marks, one of which is near the base, the other larger and near the tip; two very small pitchy marks between the outer pair and the inner pair; disks of the latter pitchy, and there is a pitchy stripe between them and the cross-ridge; hind border hardly excavated: abdomen obconical, tawny towards the tip, very much longer than the chest: opercula none; tymbals tawny, adorned with a white ringlet; drums pale tawny, very small, not far apart: legs green, covered with white; thighs and shanks adorned with brown marks; shanks tinged with tawny; feet tawny with pitchy tips; claws tawny with black tips; fore-thighs armed with three teeth, the first rather long, very oblique, second of moderate size, third rather small: wings colourless; fore border bright pale green as far as the brand which is pitchy, tawny from thence towards the tip, beset with very

short spines; veins pale red, black towards the tips; first and second cross-veins clouded with brown; a row of small brown spots on the tips of the longitudinal veins or the marginal areolets; primitive areolet tinged with pale tawny; fore-flaps pale green: veins of the hind-wings pale green, black towards the tips: flaps whitish at the base, clouded with pale brown along the fore border. Length of the body 9 lines: of the wings 28 lines.

a. Cuba.

### 85. CICADA SUBTINCTA, Fem.

*Nervus transversus* 1us subcurvus, subobliquus, angulum subobtusum fingens, 2o triplè ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1i longitudine; 3us undatus, valdè obliquus, angulum acutum fingens; 4us subcurvus, subobliquus, angulum rectum fingens, 3o multò brevior.

Second marginal areolet nearly seven-eighths of the length of the first: first cross-vein slightly curved, very slightly slanting, forming a very slightly obtuse angle, parted from the second by thrice its length; second very slightly curved, slanting, forming an obtuse angle, as long as the first; third waved, very slanting, forming an acute angle; fourth very slightly curved, slightly slanting, forming a right angle, very much shorter than the third; fifth straight, slightly slanting, forming an obtuse angle. Body rather short and broad: head pitchy above, narrower than the fore-chest, with two green reversed C-shaped marks approaching each other on the region of the eyelets; face convex, green, with a large black spot near the base of the mouth which is tawny with a black tip, and reaches beyond the hind-hips: eyes prominent: fore-chest green; disk of the scutcheon mostly tawny; fore border and hind border black: hind-scutcheon green, tawny along the fore border, adorned with two brown spots, slightly notched and armed with an extremely small tooth on each side: scutcheon of the middle-chest green, tinged with tawny, adorned with irregular black stripes, part of which communicate with a large transverse black spot on the hind part; hind border slightly excavated: breast green mingled with tawny: abdomen ferruginous, hardly longer than the chest; hind borders of the segments black: legs greenish-black; tips of the shanks, of the feet and of the fore-thighs black; claws black, tawny towards the base; fore-thighs armed with two acute teeth; spines of the hind-shanks black: wings colourless, brown at the base; a very slight brown tinge at the tips of the fore-wings; veins tawny with broad

black bands; cross-veins chiefly black; clouded with brown; a row of brown spots on the tips of the longitudinal veins of the marginal areolets; fore-flaps brown; hind-flaps brown at the base. Length of the body 15 lines; of the wings 50 lines.

*a.* Silhet. From the Rev. J. Stainforth's collection.

#### 86. CICADA ALBIFLOS, Mas.

*Nervus transversus 1us subcurvus, subobliquus, angulum subacutum fingens, 2o plus quadruplò ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o paullò brevior; 3us subrectus, rectus, angulum obtusum fingens 4us vix undatus, obliquus, angulum vix acutum fingens, 3o multò longior.*

Second marginal areolet half the length of the first: first cross-vein slightly curved, slightly slanting, forming a slightly acute angle, parted from the second by more than four times its length; second nearly straight, slightly slanting, forming an obtuse angle, a little shorter than the first, joining the fourth marginal areolet very near the base of the latter; third nearly straight, upright, forming an obtuse angle; fourth hardly waved, slanting, forming a hardly acute angle, very much longer than the third; fifth slightly curved, nearly upright, forming a hardly obtuse angle. Body very pale ferruginous, covered with white down: head very little narrower than the fore-chest; a black dot on each side of the eyelets; face convex, not prominent: mouth tawny with a black tip, reaching the hind-hips: eyes a little prominent: feelers black, tawny at the base; fore-chest a little narrower in front than behind; furrows of the scutcheon tawny; hind-scutcheon broad, a little widened and rather angular on each side, convex in front where it embraces the sides of the scutcheon; hind border of the middle-chest excavated: abdomen obconical, a little longer but narrower than the chest: opercula none; tymbals pale ferruginous; drums pale tawny, rather small, less than one-third of the length of the abdomen, parted by a moderate interval: legs pale tawny; thighs adorned with pitchy stripes; claws pitchy above except at the base; tips of the fore-shanks and the fore-feet pitchy; fore-thighs armed with three tawny teeth, two of which are very small, and the third, which is between them, is very large, a structure peculiar to this species: wings whitish; veins of the fore-wings pale buff or pale red, of the hind-wings almost white; fore border pale red or whitish green, tinged with brown about the brand, as are also some parts of the veins in the disks; tips of the longitudinal vein of the first marginal areolet, and of the

first, second and third cross-veins clouded with brown. Length of the body 12 lines; of the wings 24 lines.

*a, b.* Jamaica. From Mr. Gosse's collection.

*c—e.* Jamaica.

### 87. CICADA JOHANNIS, Mas et Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o paulò brevior; 3us subundatus, obliquus, angulum subacutum fingens; 4us curvus, ferè erectus, angulum vix acutum fingens, 3i longitudine.*

Second marginal areolet more than half the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by a little more than twice its length; second slightly curved, slightly slanting, forming an obtuse angle, a little shorter than the first: third slightly waved, slanting, forming a slightly acute angle; fourth curved, nearly upright, forming a hardly acute angle, as long as the third: fifth almost straight, upright, forming a right angle. Much resembles *C. Orni* but is smaller. Body grass-green with a tawny tinge: head narrower than the fore-chest, adorned with two black bands, one in front interrupted, irregular and slightly arched, the other behind sending back five short stripes, the middle one forked between the eyelets; face slightly convex, not prominent: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: fore-chest narrower in front; scutcheon adorned with two oblique brown stripes on each side, and in the middle with two straight black stripes, widened in front and sending out two branches on each side; hind-scutcheon widened and slightly angular on each side, adorned with two brown marks above the base of each fore-wing: scutcheon of the middle-chest adorned with five brown stripes, the side pairs interrupted, especially the outer pair; hind border very slightly excavated: abdomen tawny, very much longer than the chest: a brown mark on each side of the base of the last segment; tip black: opercula large; drums pale tawny, small, far apart: legs grass-green, clothed with short pale yellow and black hairs; claws black, pale green at the base; fore-thighs armed with three black teeth with tawny tips; a few tawny spines on the hind-shanks: wings colourless; fore border green; veins pale green, darker towards the tips, striped with black at the base, tinged with black across the breadth beneath the brand which is green towards the base and black

towards the tip of the wing; cross-veins more or less clouded with brown; a row of small brown spots on the tips of the longitudinal veins of the marginal areolets; flaps colourless. Length of the body 9—10 lines; of the wings 26—28 lines.

a—c. St. John's Bluff, Florida. Presented by E. Doubleday, Esq.  
d, e. ———?

#### 88. CICADA SCUTELLARIS, Mas.

*Nervus transversus* 1us curvus, ferè erectus, angulum ferè rectum fingens, 2o plus triplè ejus longitudine divisus; 2us curvus, subobliquus, angulum obtusum fingens, 1o longior; 3us subrectus, obliquus, angulum subacutum fingens; 4us subcurvus, valdè obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet four-fifths of the length of the first: first cross-vein curved, nearly upright, forming an almost right angle, parted from the second by more than thrice its length; second curved, slightly slanting, forming an obtuse angle, longer than the first; third nearly straight, slanting, forming a slightly acute angle; fourth very slightly curved, very slanting, forming an acute angle, very much longer than the third; fifth nearly straight, slanting, forming an obtuse angle. Body green: head and fore-chest tinged with tawny: head as broad as the fore-chest; three black marks on the crown; face slightly convex, not prominent, adorned above with an elliptical black mark: mouth tawny with a black tip reaching the middle-hips: eyes rather prominent: feelers black: fore-chest adorned with a greenish white stripe, on each side of which are two black marks, the indications of oblique black stripes; side border of the scutcheon black; hind-scutcheon rather narrow, its sides nearly straight: disk of the scutcheon of the middle-chest ferruginous, adorned on each side with three slight black streaks; excavation on the hind border broad but very shallow: abdomen obconical, ferruginous, not longer than the chest; hind borders of the segments grass-green; under side tawny with a broad black stripe: opercula none: tymbals whitish: drums small, tawny, parted by a narrow interval: legs green; shanks and feet mostly tawny: tips of the claws black; fore-thighs adorned with three stout black teeth: wings colourless, green at the base; fore border tawny, green at the base, brown towards the tip; veins black, green towards the base; fore borders of the flaps clouded with brown. Length of the body 8 lines; of the wings 21 lines.

a. New Zealand. From Mr. Earl's collection.

## 89. CICADA TORRIDA, Mas.

*Nervus transversus* 1us *subundatus, obliquus, angulum valdè obtusum* fingens, 2o *ferè triplò ejus longitudine divisus*; 2us *curvus, obliquus, angulum valdè obtusum* fingens, 1o *brerior*; 3us *subundatus, obliquus, angulum vix acutum* fingens; 4us *subcurvus, obliquus, angulum vix acutum* fingens, 3o *longior*.

First cross-vein slightly waved, slanting, forming a very obtuse angle, parted from the second by near thrice its length; second curved, slanting, forming a very obtuse angle, shorter than the first; third very slightly waved, slanting, forming a hardly acute angle; fourth slightly curved, slanting, forming a hardly acute angle, longer than the third; fifth curved, nearly upright, forming a slightly acute angle. Body tawny, partly clothed with pale down: head nearly as broad as the fore-chest; an interrupted black band on the crown; face convex, pitchy on each side, adorned with a yellow stripe: mouth tawny with a black tip, reaching the hind-hips: eyes rather prominent: feelers black: scutcheon of the fore-chest adorned with two black stripes which are widened on the fore border and on the hind border and converge towards the latter; hind-scutcheon narrow in the middle, widened and forming an obtuse angle at the base of each fore-wing, not excavated on each side: scutcheon of the middle-chest adorned with four pitchy stripes which do not extend beyond half the length; inner pair straight; outer pair slanting; hind border slightly excavated: abdomen slightly obconical, longer than the chest: opercula none; tymbals tawny; drums small, pale tawny; legs tawny; tips of the claws black; fore-thighs armed with two small tawny teeth: wings colourless; primitive areolet tawny; fore border and veins tawny, black towards the tips; fore-flaps pale brown; hind-flaps pale brown at the base and along the middle-vein. Length of the body 9 lines; of the wings 30 lines.

a. British Guiana. From Sir R. Schomburghk's collection.

b. Demerara.

## 90. CICADA INVARIA, Fem.

*Nervus transversus* 1us *valdè curvus, subundatus, obliquus, angulum acutum* fingens, 2o *quadruplò ejus longitudine divisus*; 2us *subundatus, obliquus, angulum obtusum* fingens, 1o *multò longior*; 3us *ferè rectus, subobliquus, angulum rectum* fingens; 4us *subundatus, obliquus, angulum subacutum* fingens, 3o *multò longior*.

Second marginal areolet a little more than half the length of the first: first cross-vein much curved, slightly waved, slanting,

forming an acute angle, parted from the second by four times its length; second very slightly waved, slanting, forming an obtuse angle, much longer than the first; third nearly straight, slightly slanting, forming a right angle; fourth slightly waved, slanting, forming a slightly acute angle, much longer than the third; fifth almost straight, nearly upright, forming a hardly obtuse angle. Body ferruginous, tinged with green: head much narrower than the fore-chest; face small, very convex, rather prominent: mouth tawny with a black tip, reaching the hind-hips: eyes not prominent: feelers tawny, ferruginous at the base: fore-chest narrower in front than behind; scutcheon adorned with some oblique dark ferruginous marks between the furrows which also have that colour; hind-scutcheon rounded and much widened at the base of each fore-wing, slightly convex and not excavated on each side: hind border of the scutcheon of the middle-chest hardly excavated: abdomen longer than the chest, hairy towards the tip; oviduct pitchy: legs tawny; thighs and shanks adorned with ferruginous stripes; feet ferruginous towards the tips; claws black, tawny at the base; fore-thighs armed with one large ferruginous tooth which is near the tip: wings colourless; fore borders and veins tawny. Length of the body 10 lines; of the wings 28 lines.

a. South America.

#### 91. CICADA HIRUNDO, Mas.

*Nervus transversus* 1us *curvus, subobliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o paullò brevior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o multò brevior.*

Second marginal areolet a little more than half the length of the first: first cross-vein curved, slightly slanting, forming an obtuse angle, parted from the second by much more than twice its length; second slightly curved, slanting, forming a very obtuse angle, very little shorter than the first; third very slightly curved, slanting, forming a slightly acute angle; fourth almost straight, slanting, forming a very slightly acute angle, much shorter than the third; fifth thick, straight, very slightly slanting, forming an obtuse angle. Body short, ferruginous: head a little narrower than the fore-chest; crown adorned with a square-shaped dark ferruginous spot, on each side of which there is a little pitchy cross, and beyond the latter a dark ferruginous stripe which communicates in front with



a band of the same colour ; face dark ferruginous with a pale stripe, very convex, rather prominent : mouth yellow with a black tip, reaching the hind-hips : eyes prominent : feelers tawny, somewhat pitchy towards the tips : fore-chest rather narrower in front than behind : scutcheon adorned with a broad dark ferruginous stripe which is narrower in the middle and includes a slender pale ferruginous stripe ; hind-scutcheon narrow, slightly notched on each side : scutcheon of the middle-chest adorned with four indistinct dark ferruginous stripes ; hind border slightly excavated : abdomen obconical, a little shorter than the chest : oviduct pitchy : legs pale ferruginous ; claws pitchy towards the tips ; fore-thighs armed with three pitchy teeth, two of moderate size, one very small ; one pitchy band on each hind-shank, and two on each middle-shank : wings colourless, long, narrow ; a slight tawny tinge on the disks of the areolets towards the tips of the fore-wings ; first and second cross-veins clouded with brown ; a row of indistinct small tawny spots on the longitudinal veins of the marginal areolets ; fore border pale ferruginous ; brand part yellow, part pitchy ; veins pale ferruginous, darker towards the tips ; fore-flaps tawny ; hind-flaps colourless, tawny for a space along the hind border from the base. Length of the body 8 lines ; of the wings 29 lines.

a. ———?

## 92. CICADA PSOPHIS, Mas.

*Nervus transversus* 1us *subcurvus*, *subobliquus*, *angulum subobtusum* *figens*, 2o *quadruplò ejus longitudine divisus* ; 2us *curvus*, *erectus*, *angulum rectum figens*, 1o *vix longior* ; 3us *ferè rectus*, *subobliquus*, *angulum vix acutum figens* ; 4us *subcurvus*, *subobliquus*, *angulum vix acutum figens*, 3o *ferè duplò longior*.

Second marginal areolet nearly two-thirds of the length of the first : first cross-vein slightly curved, very slightly slanting, forming a very slightly obtuse angle, parted from the second by full four times its length ; second curved, upright, forming a right angle, hardly longer than the first ; third nearly straight, slightly slanting, forming a hardly acute angle ; fourth very slightly curved, slightly slanting, forming a hardly acute angle, nearly twice the length of the third ; fifth slightly curved, nearly upright, forming a hardly acute angle. Body green with a tawny tinge, clothed with whitish down : head very little narrower than the fore-chest ; crown black with the exception of a few small pale marks ; face convex, not prominent, black above with a slender yellow streak : mouth tawny with a black tip,

reaching a little beyond the middle-hips: eyes prominent: feelers black: scutcheon of the fore-chest adorned with two black spots on each side and with a broad black stripe which is much widened on the fore border and on the hind border, and encloses a green streak; hind-scutcheon rather broad, widened at the base of each fore-wing, pitchy and slightly excavated on each side: scutcheon of the middle-chest adorned with four very broad black stripes which are united at the base, the inner pair are much shorter than the outer pair, and have a black ring round the hind part, and are succeeded by two black dots; tips of the outer pair united with a black streak along each side: a pitchy spot on the cross-ridge; hind border very slightly excavated: abdomen obconical, a little longer than the chest, adorned with pitchy bands on the fore borders of the segments; a broad pitchy band on each side beneath: opercula tawny, rather large; drums pale green, of moderate size, meeting beneath: legs green, clothed with short white hairs; hips and thighs adorned with pitchy streaks; feet and fore-shanks pitchy; tips of the claws black; fore-thighs armed with two long pitchy teeth: wings colourless; fore border and veins green along half the length, black from thence to the tips; first, second and third cross-veins clouded with brown; a brown spot at the tip of each of the flaps. Length of the body 10 lines; of the wings 30 lines.

a. Mexico. From Mr. Hartweg's collection.

### 93. CICADA SEX-GUTTATA, Mas.

*Nervus transversus 1us curvus, obliquus, angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, valdè obliquus, angulum perobtusum fingens, 1o vix longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us valdè curvus, subobliquus, angulum acutum fingens, 3o multò longior.*

Second marginal areolet full half the length of the first: first cross-vein curved, slanting, forming a slightly obtuse angle, parted from the second by much more than twice its length; second nearly straight, very slanting, forming an extremely obtuse angle, hardly longer than the first; third slightly curved, slanting, forming an acute angle; fourth very much curved, slightly slanting, forming an acute angle, much longer than the third; fifth slightly curved, upright, forming a hardly acute angle. Body greenish-tawny: head narrower than the fore-chest, adorned with two black stripes which traverse the region of the eyelets, and are partly united, slightly widened on the hind border, somewhat branched in front; on each

side of these are two black oblique stripes and one black spot, the latter behind the eye; a black stripe in front across the face which is very slightly convex and not at all prominent; mouth pale tawny with a black tip?: eyes prominent: feelers black: fore-chest narrower in front than behind; scutcheon adorned with two black parallel stripes which are united on the hind border, and are widened into two angles on the outer side; a short curved pitchy mark on each side between the furrows which are also pitchy; side borders black; hind-scutcheon much broader on each side than in the middle, adorned with three pitchy spots and forming an obtuse angle near the base of each fore-wing, slightly excavated towards the fore border: disk of the scutcheon of the middle-chest green, adorned with three indistinct obconical broad tawny stripes, the middle one is divided by a slender black stripe which extends beyond it towards the hind border, and each of its sides is bordered with black for two-thirds of the length from the base; four irregular black spots on each of the side stripes: hind border hardly excavated: abdomen tawny, obconical, longer than the chest, pitchy at the base: opercula tawny: small; drums very small, pale yellow, wide apart: legs yellowish-green; a pitchy spot near the tip of each thigh; fore-thighs armed with two long pitchy teeth; claws black, yellow at the base; fore-feet pitchy at the base and at the tips: wings colourless; veins green, banded with black across the middle beneath the brands, quite black towards the tips; brands pitchy; fore border green, tawny towards the tip; cross-veins from the first to the fourth clouded with brown; a row of brown spots on the tips of the longitudinal veins of the marginal areolets; a sharp black spine at the base of each fore-wing. Length of the body 12 lines; of the wings 30 lines.

a. ——— ?

#### 94. CICAADA STIPATA, Fem.

*Nervus transversus* 1us *vix undatus, obliquus, angulum rectum fingens, 2o plus triplò ejus longitudine divisus; 2us vix undatus, subobliquus angulum valdè obtusum fingens, 1o longior; 3us undatus, obliquus, angulum subacutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o brevior.*

First cross-vein hardly waved, slanting, forming a right angle, parted from the second by much more than thrice its length; second indistinctly waved, slightly slanting, forming a very obtuse angle, longer than the first; third waved, slanting, forming a slightly acute angle; fourth slightly waved, slanting, forming a slightly acute an-

gle, shorter than the third; fifth very slightly curved, nearly upright, forming a slightly obtuse angle. Body tawny with a ferruginous tinge, short: head narrower than the fore-chest, adorned with a short broad black band which extends from the eyelets to the hind border and includes a tawny streak, on each side of it there is a black curve nearly including a tawny ellipse; a black spot on each side of the face at the base of the feeler; face convex, not prominent, adorned in front with a black stripe which is forked and widened above; mouth tawny with a black tip, reaching a little beyond the hind-hips: eyes prominent: feelers black, tawny at the base: fore-chest a little narrower before than behind; scutcheon adorned with six black stripes, the middle pair slightly converge from the fore border till near the hind border where they are angular and include a diamond-shaped tawny spot, the next pair curved, outer pair oblique; sides blackish: hind-scutcheon narrow in the middle, rounded, much widened and adorned with a pitchy spot above the base of each fore-wing, convex with the exception of a very slight excavation on each side: scutcheon of the middle-chest adorned with three black stripes which are united towards the hind border; on each side of these are two black stripes, and in front of the latter two black spots; hind border slightly excavated: abdomen ferruginous, hardly longer than the chest, not decreasing in breadth till near the tip where it tapers abruptly, slightly varied with tawny, of which there are two broad indistinct stripes diverging from the base and extending to each side at two-thirds of the length; last segment tawny with a broad irregular black stripe on each side: oviduct ferruginous, black and serrated at the tip: legs tawny; hips and thighs adorned with pitchy marks; tips of the shanks and of the feet pitchy; claws black, ferruginous at the base; fore-thighs armed with three black teeth, two of moderate size, one very small: wings colourless, long and narrow; fore-wings with an indistinct tawny tinge; fore borders and veins bright tawny, black towards the tips; brands tawny towards the base, black towards the tip of the wing; cross-veins from the first to the fourth clouded with brown; a row of small brown spots near the tips of the longitudinal veins of the marginal areolets; fore-flaps gray; hind-flaps gray at the base and for a short space along the hind border. Length of the body 11 lines; of the wings 28 lines.

a. ——— ?

## 95. CICADA EUTERPE, Mas.

*Nervus transversus* 1us subcurvus, ferè erectus, angulum subobtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o vix longior; 3us ferè rectus, subobliquus, angulum ferè rectum fingens; nonnunquam subundatus, valdè obliquus, angulum acutum fingens; 4us subundatus, obliquus, angulum subacutum fingens.

Second marginal areolet much less than half the length of the first: first cross-vein very slightly curved, nearly upright, forming a slightly obtuse angle, parted from the second by much more than four times its length; second very slightly curved, slanting, forming a very obtuse angle, hardly longer than the first; third almost straight, slightly slanting, forming a nearly right angle, or slightly waved, very slanting and forming an acute angle; fourth slightly waved, slanting, forming a very slightly acute angle, longer than the third; fifth curved, upright, forming a slightly acute angle. Body tawny: head nearly as broad as the fore-chest, black above; a tawny spot on each side by the hind border and a tawny band in front; face convex, not prominent, adorned with a small tawny spot, tawny with a black middle stripe in front: mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers black: fore-chest narrower before than behind; scutcheon adorned with a black stripe which is much widened on the hind border and has a small black spot on each side of it; hind-scutcheon broad, especially at the base of each fore-wing where it forms an obtuse angle, and its border along each side is black and slightly excavated: scutcheon of the middle-chest adorned with three very broad obconical black stripes which are united at their base, the middle one is much excavated on each side towards the tip; hind border slightly excavated: abdomen obconical, hardly longer than the chest, black above; hind borders of the segments and tip tawny: opercula large, close, tawny, nearly triangular; drums whitish, rather small, nearly triangular, parted by a moderate interval, the outer angle black: legs tawny; thighs adorned with pitchy stripes; fore-thighs armed with two rather long pitchy teeth; claws partly pitchy: wings colourless, tawny at the base; fore border pale tawny and serrated as far as the brand which is brown; veins black, more or less tawny towards the base; cross-veins from the first to the third, and the base of the first marginal areolet, slightly clouded with brown; fore-membrane grayish; flaps tinged with pale brown along the fore border, buff for a short

space along the hind border. Length of the body 8 lines; of the wings 28 lines.

*a, b.* ———?

#### 96. CICADA DEXITHEA, Mas.

*Nervus transversus 1us curvus, subobliquus, angulum subacutum fingens, 2o sexties ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o brevior; 3us subcurvus subobliquus, angulum rectum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o ferè duplò longior.*

Second marginal areolet less than half the length of the first: first cross-vein curved, very slightly slanting, forming a slightly acute angle, parted from the second by full six times its length; second slightly curved, slightly slanting, forming an obtuse angle, shorter than the first; third very slightly curved, slightly slanting, forming a right angle; fourth slightly curved, slanting, forming an acute angle, nearly twice the length of the third; fifth curved, nearly upright, forming a slightly acute angle. Body tawny: head and chest tinged with green, especially on each side: head a little narrower than the fore-chest, somewhat pitchy about the eyelets; face rather convex, adorned with two pitchy stripes: mouth with a black tip, reaching a little beyond the hind-hips: eyes not prominent: feelers tawny: hind-scutcheon of the fore-chest narrow in the middle, angular and much widened at the base of each fore-wing, excavated on each side: scutcheon of the middle-chest adorned with four ferruginous stripes; inner pair short and very indistinct; hind border hardly excavated: abdomen obconical, much longer than the chest, ferruginous towards the tip: opercula none; tymbals tawny; each adorned with a white half-circle; drums pale green, of moderate size, meeting, about one-third of the length of the abdomen: legs tawny; tips of the shanks and of the feet pitchy; tips of the claws black; fore-thighs armed with two tawny teeth: wings colourless; fore borders and veins pale green, tawny towards the tips; first and second cross-veins slightly clouded with pale brown; a row of pale brown spots on the marginal areolets; fore-flaps pale buff; hind-flaps pale buff between the middle-vein and the hind border. Length of the body 10 lines; of the wings 28 lines.

*a.* ———?

97. *CICADA ZEALANDICA.*

*Cicada Zealandica*, *Boisduval, Voy. Astrol.* 611, pl. 10, f. 6.  
a. New Zealand. Presented by Dr. Dieffenbach.

98. *CICADA RUFIVENTRIS*, Mas.

*Nervus transversus* 1us *subcurvus, valdè obliquus, angulum perobtusum* *tingens, 2o ferè quadruplò ejus longitudine divisus; 2us ferè rectus, obliquus, angulum valdè obtusum* *tingens, 1o brevior; 3us ferè rectus, obliquus, angulum vix acutum* *tingens; 4us ferè rectus, obliquus, angulum subacutum* *tingens, 3o longior.*

Second marginal areolet much more than three-fourths of the length of the first: first cross-vein very slightly curved, very slanting, forming an extremely obtuse angle, parted from the second by almost four times its length; second almost straight, slanting, forming a very obtuse angle, shorter than the first; third almost straight, slanting, forming a hardly acute angle; fourth almost straight, slanting, forming a very slightly acute angle, longer than the third; fifth slightly curved, nearly upright, forming a hardly obtuse angle. Body black: head rather small, narrower than the fore-chest, adorned with a large green spot on each side; face very convex, rather prominent, adorned in front with two black stripes which send forth a row of black bands on each side: mouth black, extending a little beyond the middle-hips: eyes prominent: feelers black: fore-chest narrower in front than behind; scutcheon adorned with seven green stripes; the middle one linear; the three side pairs oblique and more or less irregular and excavated; hind-scutcheon green, rounded and widened at the base of each fore-wing, slightly excavated on each side: scutcheon of the middle-chest adorned with five green stripes, the middle one linear, the inner pair curved and very irregular, the outer pair short and oblique; hind border green, its excavation extremely slight; abdomen dark red with a tawny spot near the base, nearly linear till near the tip, a little longer than the chest, black at the base above; a black band on the hind border of each segment; under side paler: opercula none; tymbals hoary with brown furrows, between which are brown spots; drums small, greenish with black disks towards the base, wide apart: legs green; thighs striped with black; claws tawny with black tips; fore-thighs armed with three black teeth, one of them very small; fore-shanks and fore-feet black; middle-shanks black towards the tips; four hinder feet pitchy: wings slightly tinged with tawny; a small tawny spot

at the base of each fore-wing; veins tawny, black towards the tips, marked with black at the base; fore border green with a black edge which is beset with black bristles, black with a red streak beneath towards the tip; fore-membranes white: hind-wings adorned with blue opaline lustre; flaps brown towards the base which is white. Length of the body  $11\frac{1}{2}$  lines; of the wings 26 lines.

a. Cape.

b. ——— ?

#### 99. CICADA ALBIDA.

*Cicada albida*, *Oliv. Enc. Méth.* v. 755, 39, pl. 113, f. 3. *Stoll, Cic.* 88. pl. 23, f. 125.

a. Para. From Mr. Stevens's collection.

b. ——— ? From Mr. Walker's collection.

c. Demerara.

#### 100. CICADA GRISEA.

*Cicada grisea*, *Oliv. Enc. Méth.* v. 747, 3. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 87. *Germ. Thon, Arch.* ii. 2, 38. *Silb. Rev. Ent.* ii. 70, 35.

*Tettigonia grisea*, *Fabr. Syst. Ent.* 678, 2. *Sp. Ins.* ii. 318, 2. *Mant. Ins.* ii. 265, 3. *Ent. Syst.* iv. 17, 3. *Syst. Rhyn.* 34, 4.

a. Egypt.

b. ——— ? From Mr. Shuckard's collection.

c—e. ——— ?

#### 101. CICADA ORNI.

*Cicada Orni*, *Linn. Syst. Nat.* i. 2, 707, 18. *Réaun. Ins.* v. 151, pl. 16, f. 7. *Seba, Mus.* 4. pl. 85, f. 4, 5. *Roes. Ins.* ii. *Gryll.* pl. 25, f. 1, 2, pl. 26, f. 3—5. *Sulz. Hist. Ins.* pl. 10, f. 65. *Schæff. Icon.* pl. 4, f. 14. *Brahm. Handb. Ins.* i. 636, 192. *Geoff. Ins.* i. 429, 2. *Oliv. Enc. Méth.* v. 753, 32. *Vill. Ent.* i. 457, 7. *Gmel. Ed. Syst. Nat.* i. 3, 2097, 16. *Scop. Ent. Carn.* 346. *Brandt und Ratz. Med. Zool.* ii. 211, pl. 26, f. 1, 3. *Solier, Ann. Soc. Ent. Fr.* vi. 213. *Stoll, Cic.* 92, pl. 24, f. 11. *Burm. Handb. Ent.* ii. 1, 181, 4. *Germ. Thon, Arch.* ii. 2, 39. *Silb. Rev. Ent.* ii. 70, 36. *Léon Duf. Rech. Hém.* 91, 1. *Brull. Hist. Nat. Ins. Hém.* pl. 5, f. 4. *Blanch.*



*Hist. Nat. Ins.* iii. 166, 10. *Ramb. Faun. And.* ii. 197. *Amyot et Serv. Hist. Nat. Hém.* 481, 2. *Costa, Notes. Ent.*

*Tettigonia Orni*, *Fabr. Syst. Ent.* 680, 12. *Sp. Ins.* ii. 320, 15. *Mant. Ins.* ii. 267, 19. *Syst. Rhyn.* 40, 35. *Panz. Faun. Germ.* 50, 22.

*Tettigonia punctata*, *Fabr. Ent. Syst. Suppl.* 516, 24.

*Tettigonia*, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 152, 372.

*a—g.* South Europe.

*h.* South Europe. Presented by J. G. Children, Esq.

*i.* Italy. Presented by Dr. Dowler.

*j.* Albania. Presented by W. W. Saunders, Esq.

*k, l.* South France. Presented by M. Jaret.

*m, n.* South France. Presented by F. Walker, Esq.

#### 102. CICADA STIGMATICA.

*Cicada stigmatica*, *Germ. Thon, Arch.* ii. 2, 99. *Silb. Rev. Ent.* ii. 63, 20.

*a—d.* Brazil.?

#### 103. CICADA APICALIS.

*Cicada apicalis*, *Germ. Thon, Arch.* ii. 2, 96. *Silb. Rev. Ent.* ii. 63, 21.

*a—c.* North India. From Mr. Stevens's collection.

*d.* North India. From Mr. Argent's collection.

#### 104. CICADA APICIFERA, Fem.

*Nervus transversus* 1us rectus, erectus, angulum subobtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, erectus, angulum subobtusum fingens, 1o longior; 3us rectus, obliquus, angulum subacutum fingens; 4us rectus, obliquus, angulum rectum fingens, 3o paullo longior.

Second marginal areolet more than three-fourths of the length of the first: first cross-vein straight, upright, forming a very slightly obtuse angle, parted from the second by five times its length; second very slightly curved, upright, forming a very slightly obtuse angle, longer than the first; third straight, slanting, forming a slightly acute angle; fourth straight, slanting, forming a right angle, a little longer than the third; fifth slightly curved, nearly upright, forming

an obtuse angle. Body ferruginous, tawny beneath: head tawny, region of the eyelets pitchy; a pitchy mark on each side of the front; a black stripe on the face which is very convex and somewhat prominent: eyes prominent: mouth tawny with a black tip, reaching the middle-hips: feelers black: fore-chest not broader than the head, adorned with a tawny stripe; furrows somewhat tawny; sides widened by the base of the fore-wings, straight elsewhere; hind-scutcheon narrow above, broader and tawny on each side: scutcheon of the middle-chest adorned with six imperfect stripes, the middle pair straight, the other four slightly oblique; hind border hardly excavated: abdomen obconical, much longer than the chest, very tapering towards the tip, adorned with a tawny spot on each side near the base, pitchy beneath towards the tip: oviduct pitchy: legs tawny; claws black; fore-thighs armed with three black teeth, two large and one small; wings and flaps brownish tawny, brown at the base and along the fore border of the fore-wings; veins black, brown at the base; flaps brown along the fore border. Length of the body 10 lines; of the wings 26 lines.

a. ——— ?

#### 105. CICADA TRISTIGMA.

*Cicada tristigma*, *Germ. Silb. Rev. Ent.* ii. 69, 33.

a—c. New Holland.

#### 106. CICADA NODOSA, Fem.

*Nervus transversus* 1us rectus, valdè obliquus, angulum perobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us fere rectus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus, obliquus, angulum acutum fingens; 4us curvus, obliquus, angulum subacutum fingens, 3o brevior.

First cross-vein straight, very slanting, forming an obtuse angle, parted from the second by more than thrice its length; second nearly straight, very slanting, forming an extremely obtuse angle, much longer than the first; third slightly waved, slanting, forming an acute angle; fourth curved, slanting, forming a slightly acute angle, shorter than the third; fifth slightly curved, nearly upright, forming a nearly right angle. In the insect described, an additional cross-vein divides in the right wing the first marginal areolet, and in the left wing the second marginal areolet. Body tawny, almost hairless: head a little narrower than the fore-chest, adorned with a

broad black stripe which embraces the region of the eyelets, and has two black spots on each side, and a short black stripe in front of the two spots; face convex, not prominent, adorned with two black spots above, and with one near the mouth; the latter is tawny with a black tip and extends to the hind-hips: eyes prominent: feelers black, adorned with a tawny band: fore-chest a little narrower in front than behind; disk of the scutcheon adorned with two black parallel stripes which are widened into triangles before and behind; a short curved black mark on each side between the furrows which are blackish; hind-scutcheon rather narrow in the middle, paler, widened, extending much beyond the scutcheon and adorned with two large pitchy spots by the base of each fore-wing, a little excavated on each side: scutcheon of the middle-chest adorned with five black stripes; middle one ob lanceolate, inner pair very narrow in the middle; outer pair much excavated; hind border hardly excavated: abdomen obconical, much longer than the chest, adorned on each side above and beneath with a row of pitchy spots; last segment slender, compressed, adorned with pitchy stripes: oviduct black: legs tawny; tips of the feet pitchy; claws tawny with black tips; fore-thighs with pitchy teeth, armed with three black teeth, two large, and one small: wings slightly tinged with tawny; veins yellow with some black bands in the middle part, tawny thence towards the tips which are black; longitudinal veins from the middle to the tips beset with numerous little knobs, these are much like the knob on the lower vein of the fourth discoidal areolet, but many of them are rather larger; fore-flaps pale buff; veins of the hind-wings black with a very few slight indications of knobs; first and second veins tawny; flaps pale buff at the base and for a space along the hind border, tinged with pale brown along the fore border. Length of the body 17 lines; of the wings 29 lines.

a. ——— ?

#### 107. CICADA TERMINUS, Fem.

*Nervus transversus* 1us *ferè* *rectus*, *ferè* *erectus*, *angulum subobtusum* *fringens*, 2o *plus quadruplò ejus longitudine divisus*; 2us *ferè* *rectus*, *subobliquus*, *angulum ferè* *rectum* *fringens*, 1i *longitudine*; 3us *ferè* *rectus*, *obliquus*, *angulum acutum* *fringens*; 4us *vix undatus*, *obliquus*, *angulum acutum* *fringens*, 3o *multò longior*.

Second marginal areolet full two-thirds of the length of the first: first cross-vein almost straight, nearly upright, forming a

slightly obtuse angle, parted from the second by more than four times its length; second nearly straight, slightly slanting, forming an almost right angle, as long as the first; third almost straight, slanting, forming an acute angle; fourth indistinctly waved, slanting, forming an acute angle, very much longer than the third; fifth slightly curved, nearly upright, forming a very slightly obtuse angle. Body ferruginous, clothed with a few white hairs: head pale tawny, rather broader than the fore-chest; region of the eyelets occupied by a pitchy mark whence two ferruginous stripes proceed to the hind border; a black band across the front; face very convex, rather prominent, adorned with a black stripe which extends to the mouth; mouth tawny with a black tip, extending to the middle-lips: eyes not prominent: feelers black: breast pale tawny: fore-chest not narrower in front than behind; scutcheon adorned with a slender yellow middle stripe, pitchy on each side; hind-scutcheon narrow, dark tawny, broader and forming a distinct angle at the base of each fore-wing, extending some distance beyond the scutcheon, nearly straight on each side: scutcheon of the middle-chest adorned with three yellow stripes which are united in front, the side pair slightly oblique; cross-ridge very small; hind border not excavated: abdomen obconical, pitchy towards the tip, very little longer than the chest: oviduct pitchy: legs tawny; thighs somewhat ferruginous; tips of the claws black; fore-thighs armed with three black teeth, two of these are large, and one small: wings colourless; their tips brown, which colour extends much more on the fore-wings than on the hind-wings, and in the former includes two nearly colourless spots; the tawny stripe along the fore border is much broader between the base and the brand than beyond the latter which is pitchy; veins tawny, black towards the tips; fore-flaps pale tawny; hind-flaps pale tawny along the hind border towards the base. Length of the body  $7\frac{1}{2}$  lines; of the wings 23 lines.

a. ——— ?

#### 108. CICADA SPHINX, Fem.

*Nervus transversus 1us subcurvus, subobliquus, angulum rectum fingens, 2o plus triplò ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us subundatus, obliquus, angulum subacutum fingens; 4us ferè rectus obliquus, angulum vix acutum fingens, 3o paullò brevior.*

Second marginal areolet less than half the length of the first: first cross-vein slightly curved, very slightly slanting, forming a

right angle, parted from the second by much more than thrice its length; second nearly straight, slightly slanting, forming an obtuse angle, much shorter than the first; third indistinctly waved, slanting, forming a very slightly acute angle; fourth nearly straight, slanting, forming a hardly acute angle, very little shorter than the third; fifth straight, very slightly slanting, forming a slightly obtuse angle. Body greenish tawny: head very little narrower than the fore-chest, adorned with a forked black mark on the region of the eyelets, on each side of which there is a black dot; an interrupted black band in front; face slightly convex, not at all prominent, adorned with two black stripes which inclosing an elliptical space are united in front and proceed to the mouth, which is tawny, with a black tip, and reaches the hind-hips: eyes prominent: feelers black: fore-chest rather narrower in front than behind; scutcheon adorned with four slender black stripes; middle pair slightly oblique, somewhat curved, united on the hind border; side pair very oblique; beyond each of the latter there is a shorter black mark which is curved inward and reaches the side; hind-scutcheon narrow in the middle, much broader, slightly angular and extending beyond the scutcheon at the base of each fore-wing, slightly excavated on each side; scutcheon of the middle-chest adorned with five slender black stripes, the two side pair slightly oblique and much interrupted; hind border not excavated: abdomen tawny, longer and a little narrower than the chest; last segment adorned with two black obconical stripes: oviduct black: legs tawny; thighs marked with black at the base; fore-thighs adorned with two or three black marks, armed with three black teeth, of which two are large and one is small; feet black; hind-feet adorned with a broad greenish tawny band; claws dark tawny, with black tips: wings colourless, very long and narrow; tips of the fore-wings very slightly tinged with tawny; fore border greenish tawny as far as the black band, tawny beyond to the tip: veins black, pale tawny towards the base; fore-flaps brown; hind-flaps brown at the base, along the fore border and along part of the hind border. Length of the body 7 lines; of the wings 21 lines.

a. ———?

## 109. CICADA CUNA, Mas.

*Nervus transversus* 1us subundatus, valdè obliquus, angulum acutum fingens, 2o plusquam ejus longitudine divisus; 2us rectus, subobliquus, angulum rectum fingens, li vix dimidii longitudine; 3us vix curvus, obliquus, angulum subacutum fingens; 4us subcurvus, subobliquus, angulum vix acutum fingens, 3i longitudine.

Second marginal areolet very much longer than the first: first cross-vein very slightly curved, very slanting, forming an acute angle, parted from the second by much more than its length; second straight, slightly slanting, forming a right angle, hardly half the length of the first; third very indistinctly curved, slanting, forming a slightly acute angle; fourth very slightly curved, forming a hardly acute angle, less slanting than the third, which it equals in length; fifth straight, upright, forming a right angle. Body tawny, very slender: head nearly as broad as the chest, adorned with three black spots which encircle the eyelets, and beneath with two black spots on each side of the face; the latter is broad, very convex, not prominent, adorned on each side with a black spot at the base of the feeler: mouth tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: fore-chest a little narrower in front than behind; scutcheon adorned with a yellow stripe, on each side of which are three black stripes, the inner pair are curved and interrupted, the other four are oblique and much excavated; hind-scutcheon narrow in the middle, rounded, much widened and adorned with a pitchy spot above the base of each fore-wing, slightly excavated on each side: scutcheon of the middle chest mostly yellow, on which colour the usual four obconical stripes are indistinctly traced in a ferruginous hue, the inner pair much shorter than the outer pair, and succeeded by a ferruginous spot which rests on the cross-ridge; hind border slightly excavated: abdomen obconical, a little longer than the chest; horn large, with a pitchy tip: opercula none; tymbals pale tawny; drums very small, pale yellow: legs tawny; thighs mostly yellow; tips of the feet ferruginous; claws ferruginous, with black tips; fore-thighs armed with four black teeth, three of these are rather large and one small: wings colourless, long, narrow; a slight tawny tinge towards the tips of the fore-wings, where there is a small brown spot; fore border yellow as far as the brand, tawny from thence towards the tip; veins tawny, black towards the tips; fore-flaps gray, with a black vein along the fore border; hind-flaps gray

for a short distance from the base along the hind border. Length of the body 6 lines; of the wings 18 lines.

a. Brazil. From Mr. Mornay's collection.

#### 110. CICADA STIGMA, Fem.

*Nervus transversus* 1us rectus, subobliquus, angulum rectum fingens, 2o plus sexties ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum subobtusum fingens, 1o multò longior; 3us rectus, obliquus, angulum subacutum fingens; 4us rectus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet nearly as long as the first: first cross-vein straight, slightly slanting, forming a right angle, parted from the second by more than six times its length; second nearly straight, slightly slanting, forming a slightly obtuse angle, much longer than the first: third straight, slanting, forming a slightly acute angle; fourth straight, slanting, forming a slightly acute angle, longer than the third; fifth straight, nearly upright, forming a hardly acute angle. Body ferruginous, clothed with pale hairs: head as broad as the fore-chest; a black spot on each side of the crown; face very convex and prominent, adorned on each side with a large black spot: mouth black, reaching the middle-hips: feelers black, stout, ferruginous at the base: eyes prominent: fore-chest a little narrower in front than behind; scutcheon adorned with two curved black stripes in the disk, blackish on each side; hind-scutcheon narrow in the middle, a little broader and extending beyond the scutcheon near the base of each fore-wing, straight on each side: scutcheon of the middle-chest adorned with five pitchy stripes; the middle one long and slender; the inner pair very short and slender; the outer pair long and broad; hind border not excavated: abdomen obconical, rather slender and tapering towards the tip, narrower and much longer than the chest: oviduct ferruginous: legs tawny; tips of the feet pitchy; tips of the claws black; fore-thighs and fore-shanks ferruginous; fore-thighs armed with three long stout teeth: wings colourless; a small brown spot near the tip of each fore-wing; fore border very convex near the base, bright tawny as far as the brand which is darker; veins tawny, black towards the tips. Length of the body  $5\frac{1}{2}$  lines; of the wings 15 lines.

a. Brazil. Presented by J. P. G. Smith, Esq.

111. *CICADA VIRIDULA*, Mas.

*Nervus transversus* 2us *rectus, subobliquus, angulum rectum fingens*; 3us *subcurvus, obliquus, angulum rectum fingens, 2o longior*; 4us *rectus, valdè obliquus, angulum rectum fingens, 3o multò longior.*

Second cross-vein straight, slightly slanting, forming a right angle; third very slightly curved; slanting, forming a right angle, longer than the second; fourth straight, very slanting, forming a right angle, much longer than the third; fifth straight, slightly slanting, forming a hardly acute angle. Body slender, bright velvety green, thinly clothed with golden hairs, as broad as the fore-chest: face very convex and prominent: mouth tawny with a black tip, reaching the middle lips: eyes prominent: feelers pitchy at the base: fore-chest hardly narrower in front than behind: scutcheon adorned on each side with a very large tawny spot; hind-scutcheon narrow in the middle, widened and extending a little beyond the scutcheon near the base of each fore-wing, nearly straight on each side: scutcheon of the middle chest adorned with a large tawny spot on each side, its hind border not excavated: abdomen tawny, slightly obconical, not longer than the chest, pale tawny near the base which is pitchy, mostly green on the disk and having a pitchy band near the tip which is hairy: opercula none: tymbals pale tawny; drums black, small, not far apart: legs pale tawny; fore-legs darker; fore-thighs armed with four stout teeth; middle and hind-shanks pale green; tips of the claws black: wings colourless, tinged with brown at the tips; fore border pale tawny: brands darker, large; veins dark tawny, black towards the tips; fore-flaps pale tawny; hind-flaps pale tawny at the base and along some part of the hind border; the disk of this part is pale brown, and it has a dark brown spot at the base. Length of the body  $4\frac{1}{2}$  lines; of the wings 12 lines.

a. ———?

112. *CICADA CINGULATA*.

*Cicada cingulata*, *Oliv. Enc. Méth.* v. 752, 26. *Gmel. Ed. Syst. Nat.* i. 3, 2096, 76.

*Tettigonia cingulata*, *Fabr. Syst. Ent.* 680, 9. *Sp. Ins.* ii. 320, 10. *Mant. Ins.* ii. 266, 11.

a—f. New Zealand. Presented by Dr. Sinclair.

g. New Zealand. From M. Pelerin's collection.



## 113. CICADA SERICEA, Mas et Fem.

*Nervus transversus* 1us *subcurvus*, *ferè erectus*, *angulum subobtusum* *tingens*, 2o *plus quadruplò ejus longitudine divisus*; 2us *subcurvus*, *ferè erectus*, *angulum subobtusum* *tingens*, 1o *multò longior*; 3us *ferè erectus*, *obliquus*, *angulum acutum* *tingens*; 4us *subcurvus*, *obliquus*, *angulum acutum* *tingens*, 3o *multò longior*.

Second marginal areolet about three-fourths of the length of the first: first cross-vein slightly curved, nearly upright, forming a slightly obtuse angle, parted from the second by more than four times its length; second slightly curved, nearly upright, forming a slightly obtuse angle, a little longer than the first; third nearly straight, slanting, forming an acute angle; fourth very slightly curved, slanting, forming an acute angle, much longer than the third; fifth very slightly curved, slanting, forming an obtuse angle.

*Male*.—Body green, adorned with silky down: head rather small, narrower than the fore-chest, greenish tawny along the sides of the eyes, adorned with two black spots by the eyelets; face convex, not very prominent, having above two black spots and in front a black forked stripe, on each side of which there is a tawny stripe: mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers black: fore-chest adorned with a black spot on the hind border, and on each side with four black marks, two of these on the disk, four occupy the furrows, two are on the borders, and the spaces between them have a tawny tinge; sides of the fore-chest widest by the base of the wings, thence linear as far as the fore-border where they are rounded: scutcheon of the middle chest with four oblique large black marks whose disks have sometimes a tawny tinge, and are more or less adorned with tawny net-work: the middle pair are much shorter than the hind pair, and behind them are three black spots forming a triangle; hind border hardly excavated: abdomen black, as long as the chest, adorned above with ferruginous and green bands which vary in size and number; a broad greenish tawny stripe on each side beneath; opercula very small; tymbals whitish with tawny bands; drums pale green, rather small, parted by a moderate interval: legs green; fore-shanks towards the tips and feet pitchy; claws black, tawny at the base; fore-thighs armed with three stout black teeth: wings colourless; veins and fore border green, black towards the tips; flaps of the fore-wings brown with a black vein in front: flaps of the hind wings colourless, their fore borders clouded with brown.

*Fem.*—Abdomen rather longer than the chest, adorned with a large green spot on each side near the tip: oviduct ferruginous.

Length of the body 7—10 lines; of the wings 23—30 lines.

*a—e.* New Zealand. Presented by Dr. Sinclair.

#### 114. CICADA BASIFLAMMA, Mas et Fem.

*Nervus transversus 1us subcurvus aut ferè rectus, vix obliquus, angulum obtusum fingens, 2o plus duplò vel plus triplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o nonnunquam longior.*

Second marginal areolet more than three-fourths of the length of the first: first cross-vein nearly straight or slightly curved, slightly slanting or nearly upright, forming an obtuse or slightly obtuse angle, parted from the second by more than twice, or by more than thrice its length; second slightly curved, slightly slanting, forming an obtuse, or slightly obtuse angle, longer or much longer than the first; third nearly straight, slanting, forming a slightly acute angle; fourth very slightly curved, slanting, forming an acute angle, as long or longer than the third; fifth slightly curved, upright, forming a hardly acute angle.

*Male.*—Body black, dull, thickly clothed with black hairs: head a little narrower than the fore-chest; face very convex, rather prominent: mouth black, reaching the middle lips: eyes prominent: feelers black, stout: furrows of the scutcheon of the fore-chest dark red; hind-scutcheon narrow, slightly widened near the base of each fore-wing, deeply excavated and forming a tooth on each side: hind border of the scutcheon of the middle-chest dark red, very slightly excavated: abdomen obconical, a little longer than the chest: an interrupted red stripe on each side; horn at the tip small: opercula none; tymbals dark gray; drums very small, pitchy, with tawny borders, wide apart: legs pitchy; thighs tawny beneath; claws black, tawny at the base; fore-thighs black with bright tawny stripes, armed with four black teeth, three of these large, tawny towards the tips, the fourth very small; hind-shanks tawny towards the tips: wings colourless, bright pale tawny and marked with black at the base; fore border pitchy, dark red at the base; veins tawny, paler towards the tips, black towards the base; cross-veins black; first and second cross-veins and the intermediate longitudinal veins clouded with dark brown; veins of the hind-wings tawny, black towards the tips; cross-veins and three of the

longitudinal veins also black; flaps whitish at the base and along the hind border.

*Var. β.* Fore-chest and middle-chest each adorned with two oblique red stripes; hind-scutcheon mostly red: vein between the first and second cross-veins not clouded with brown; fore border red: one black longitudinal vein on the hind-wing.

*Var. γ.* Like *Var. β*: a red interrupted stripe in the middle of the fore-chest.

*Var. δ.* First and second cross-vein very slightly clouded with brown, the veins between them quite unclouded.

*Fem.*—Head adorned with three red marks in front and with three more behind: scutcheon of the fore-chest red with the exception of six black stripes; middle pair uniting and forming a large spot, the other four oblique: abdomen much longer than the chest, very pointed towards the tip: hind border of the segments red; last segment adorned with four red stripes, the inner pair slender, the outer pair very broad and irregular; under side red with a broad black stripe: legs red; thighs striped with black; fore-shanks and fore-feet black; tips of the hind-feet pitchy; middle-feet pitchy: wings bright red along the fore border for two-thirds of the length, pitchy thence towards the tips.

*Var. β.* The red marks on the body wanting excepting one tawny dot on the head, two in a line on the fore-chest, and one on each side of the scutcheon whose hind border is red: abdomen nearly all black excepting a pale red stripe on each side beneath.

Length of the body 9—12 lines; of the wings 24—27 lines.

*a, b.* Van Dieman's Land. Presented by R. Butler, Esq.

*c, d.* Van Dieman's Land. From Dr. Hooker's collection.

*e.* New Holland. From Mr. Shuckard's collection

*f.* New Holland.

#### 115. CICADA MUTA.

*Cicada muta*, *Oliv. Enc. Méth.*, v. 757, 48. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 84.

*Tettigonia muta*, *Fabr. Syst. Ent.* 681, 17. *Sp. Ins.* ii. 322, 21. *Mant. Ins.* ii. 267, 26. *Ent. Syst.* iv. 26, 35. *Syst. Rhyn.* 43, 53.

*a—g.* New Zealand. Presented by Dr. Sinclair.

## 116. CICADA CUTORA, Fem.

*Nervus transversus 1us curvus, erectus, angulum rectum fingens, 2o plus quadruplò ejus longitudine divisus; 2us curvus, subobliquus, angulum obtusum fingens, 1o multò longior; 3us subcurvus, obliquus, angulum rectum fingens; 4us rectus, angulum subacutum fingens, 3o obliquior et multò longior.*

Second marginal areolet nearly as long as the first: first cross-vein curved, upright, forming a right angle, parted from the second by much more than four times its length; second curved, slightly slanting, forming an obtuse angle, much longer than the first; third very slightly curved, slanting, forming a right angle; fourth straight, forming a slightly acute angle, more slanting and much longer than the third; fifth nearly straight, slightly slanting, forming a slightly obtuse angle. Body green, tinged with tawny: head much narrower than the chest, adorned with a short black band between the face and the eyelets; face slightly convex, not at all prominent: mouth tawny: eyes not prominent: feelers black: fore-chest narrower in front than behind; scutcheon adorned with two pale green slender parallel stripes which are close together; hind-scutcheon narrow in the middle, rounded and much widened above the base of the fore-wing, slightly convex and not excavated on each side: scutcheon of the middle-chest adorned with three broad tawny oblique stripes, the side pair longer than the middle one; hind border hardly excavated; abdomen obconical, longer than the chest: oviduct ferruginous, its tip black and serrated; legs tawny; thighs green, fore-thighs armed with three tawny black-tipped teeth, two long, one small: wings colourless; fore border red, pitchy towards the tip; veins tawny, black towards the tips; fore-flaps pale tawny; hind-flaps tinged with green at the base and along the middle-vein, tinged with brown along the fore border. Length of the body 10 lines; of the wings 27 lines.

a. ——— ?

## 117. CICADA MELANOPYGIA.

*Cicada melanopygia, Germ. Silb. Rev. Ent. ii. 59, 9.*

a. New Holland. Presented by the Earl of Derby.

b—f. New Holland.

## 118. CICADA CONNEXA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us curvus, obliquus, angulum ferè rectum fingens, 3i longitudine.

Second marginal areolet about five-sixths of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by thrice its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third almost straight, slanting, forming a slightly acute angle; fourth curved, slanting, forming an almost right angle, as long as the third; fifth curved, very slightly slanting, forming a hardly acute angle. Body black, narrow, nearly linear: head and chest more or less adorned with ferruginous marks: head a little narrower than the fore-chest: eyes prominent: mouth black, reaching the hind-hips: feelers black: hind border of the middle-chest very slightly excavated: abdomen obconical, longer than the chest, adorned with a ferruginous stripe on each side beneath: drums small, tawny, black towards the base; opercula partly ferruginous: legs black; hips and thighs adorned with ferruginous stripes: fore-thighs armed with four teeth, of which three are large and one is small: wings colourless, red at the base; fore border dark ferruginous; veins ferruginous, black towards the tips; first and second cross-veins and the vein between them clouded with dark brown: flaps pale buff towards the base. Length of the body 10 lines: of the wings 27 lines.

a, b. New Holland.

## 119. CICADA MARGINATA.

*Tettigonia marginata*, Leach, *Zool. Misc.* i. 89, Pl. 39, f. 1.

a. New Holland. Presented by the Entomological Club.

b. Van Dieman's Land. Presented by R. Butler, Esq.

c, d. New Holland. From Mr. Shuckard's collection.

e. New Holland.

## 120. CICADA ENCAUSTICA.

*Cicada encaustica*, *Germ. Silb. Rev. Ent.* ii. 62, 15.

*a—c.* New Holland. Presented by the Earl of Derby.

*d.* New Holland. Presented by the Haslar Hospital.

*e—m.* New Holland.

## 121 CICADA ANGUSTA.

*Nervus transversus 1us subcurvus ferè erectus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior; 3us subundatus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o vix brevior.*

Second marginal areolet about five-sixths of the length of the first: first cross-vein very slightly curved, nearly upright, forming an obtuse angle, parted from the second by about four times its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third very slightly waved, slanting, forming an acute angle; fourth very slightly curved, slanting, forming an acute angle, nearly as long as the third; fifth very slightly curved, nearly upright, forming a right angle. Much like *C. Rosea*, but narrower: body tawny, very hairy: head small, a little narrower than the fore-chest; disks of the crown and of the face mostly black: eyes rather prominent: mouth tawny with a black tip, reaching the middle-hips: feelers black, stout: fore-chest adorned with three yellow stripes; the side pairs irregular and oblique; sides very slightly excavated in the middle part, slightly convex in front and behind; hind-scutcheon rather narrow in the middle: scutcheon of the middle-chest adorned with two very large black obconical marks, and between each of these and the side there is an oblique black stripe; hind border hardly excavated: abdomen obconical, much longer than the chest, black above excepting the tip and the hind borders of the segments; a stripe of pale hairs extends along the back; under side with a broad short pitchy stripe in the disk: opercula none; tymbals white; drums whitish, of moderate size, almost meeting beneath, nearly one-third of the length of the abdomen: legs pale tawny; thighs streaked with black; tips of the claws black; fore-thighs armed with three black teeth; wings colourless; veins pale tawny, darker along the fore border, marked with black at the base, black at the tips; flaps colourless. Length of the body 8 lines; of the wings 22 lines.

*a.* ———? From Mr. Earl's collection.

## 122. CICADA INTERRUPTA.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paullò brevior; 3us ferè rectus, obliquus, angulum subobtusum fingens; 4us ferè rectus, obliquus, angulum obtusum fingens, 3o longior.

Second marginal areolet full three-fourths of the length of the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second very slightly curved, very slanting, forming an extremely obtuse angle, a little shorter than the first; third nearly straight, slanting, forming a slightly obtuse angle; fourth almost straight, slanting, forming an obtuse angle, longer than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle. Body pitchy, almost hairless: head a little broader than the fore-chest, adorned with two tawny spots on the hind border near the eyelets; face very slightly convex, not at all prominent, adorned above with a tawny spot and in front with a tawny stripe: mouth tawny with a pitchy tip, reaching the hind-hips: eyes prominent: feelers black: fore-chest rather short, tawny, with pitchy spots on each side of the furrows; hind-scutcheon tawny along the hind border, extending at the base of each fore-wing beyond the sides of the scutcheon, slightly serrated and hardly convex on each side: scutcheon of the middle-chest ferruginous along each side, adorned with one ferruginous and two tawny stripes, the latter are straight and longer than the former; cross-ridge tawny; hind border slightly excavated: abdomen obconical, longer than the chest, ferruginous beneath; hind borders of the segments ferruginous: opercula very small, partly covering the tymbals which are tawny; drums rather small, pitchy, hardly apart: legs pitchy; knees and tips of the hips tawny; shanks and feet ferruginous; claws ferruginous with black tips; fore-thighs striped with tawny, armed with three teeth, one large and oblique, one of moderate size, and one very small: wings colourless, long and narrow, yellow at the base and along the fore border; veins yellow, tawny towards the base and towards the tips, black at the tip of the primitive areolet, and at the base of the first, second and third discoidal areolets; a slender zigzag brown band extends from near the tip where it embraces the first marginal areolet, and clouds the cross-veins from the first to the fourth, it is there interrupted but appears again on the fifth; fore-flaps pale tawny; veins of the hind-wings yellow: flaps pale tawny at the base, for a

space along the hind border and more slightly at the tip of the fore border. Length of the body 8 lines; of the wings 22 lines.

a. New Holland. From Mr. Dring's collection.

### 123. CICADA CRUENTATA.

*Cicada cruentata*, *Oliv. Enc. Méth.* v. 752, 28. *Gmel. Ed. Syst. Nat.* i. 3, 2096, 78.

*Tettigonia cruentata*, *Fabr. Syst. Ent.* 680, 10. *Sp. Ins.* ii. 320, 12. *Mant. Ins.* ii. 267, 16. *Ent. Syst.* iv. 22, 19. *Syst. Rhyn.* 39, 29.

### 124. CICADA JUNCTA, Fem.

*Nervus transversus* 1us *subcurvus, subobliquus, angulum obtusum fingens*, 2o *plus duplò ejus longitudine divisus*; 2us *ferè rectus, subobliquus, angulum obtusum fingens*, 1o *multò longior*; 3us *vix undatus, obliquus, angulum subacutum fingens*; 4us *subcurvus, obliquus, angulum subacutum fingens*, 3o *longior*.

Second marginal areolet about three-fourths of the length of the first: first cross-vein slightly curved, slightly slanting, forming an obtuse angle, parted from the second by much more than twice its length; second nearly straight, slightly slanting, forming an obtuse angle, much longer than the first; third hardly waved, slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a very slightly acute angle, longer than the third; fifth slightly curved, nearly upright, forming a right angle. Body slender, green with a slight tawny tinge: head nearly as broad as the fore-chest; face convex: mouth green with a pitchy tip, reaching the middle-shanks: eyes not prominent: feelers tawny: hind scutcheon of the fore-chest narrow in the middle, rounded and much widened at the base of each fore-wing, excavated on each side: scutcheon of the middle-chest adorned with two indistinct, tawny, obconical stripes; hind border very slightly excavated: abdomen oblanceolate, very much longer than the chest: oviduct ferruginous: legs green; tips of the claws black; fore-thighs armed with three large teeth whose tips are black: wings colourless; fore border green; veins green, tawny towards the tips; fore-flaps pale tawny. Length of the body 7 lines; of the wings 18 lines.

a. ———?



## 125. CICADA CONNEXA, Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1i dimidio paullò brevior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens; 3o longior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly curved, slanting, forming a very obtuse angle, parted from the second by a little more than twice its length; second very slightly curved, slightly slanting, forming an obtuse angle, a little less than half the length of the first; third nearly straight, slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, longer than the third; fifth slightly curved, upright, forming a nearly right angle. Body pale green with a slight tawny tinge: head nearly as broad as the fore-chest; face slightly convex: mouth tawny with a black tip, reaching the middle hips: eyes rather prominent: feelers tawny: hind-scutcheon of the fore-chest narrow above, rounded and slightly widened at the base of each fore-wing: scutcheon of the middle-chest adorned with four indistinct obconical tawny stripes; hind border hardly excavated: abdomen oblanceolate, full twice the length of the chest: oviduct tawny: legs green; hips and thighs adorned with tawny stripes; tips of the claws black; fore-feet tawny with pitchy tips; fore-thighs armed with three long teeth whose tips are black: wings colourless; veins green, dark tawny towards the tips; fore border green; fore-flaps pale tawny. Length of the body 6 lines; of the wings 16 lines.

a. ———?

## 126. CICADA THEMISCURA, Mas.

*Nervus transversus* 1us ferè erectus, subobliquus, angulum obtusum fingens, 2o quinquies ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o duplò longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet more than three-fourths of the length of the first: first cross-vein almost straight, slightly slanting, forming an obtuse angle, parted from the second by five times its length; second slightly curved, slightly slanting, forming an obtuse angle,

full twice the length of the first; third nearly straight, slanting, forming a very slightly acute angle; fourth very slightly curved, slanting, forming an acute angle, very much longer than the third; fifth almost straight, upright, forming a slightly obtuse angle. Body black, narrow, partly clothed with whitish shining down: head hardly as broad as the fore-chest, adorned with a yellow triangular spot which rests on the hind border and is partly between the eyelets; face slightly convex, not at all prominent, adorned with a red stripe on each side and in front: mouth black, red towards the base, reaching the middle hips: eyes very prominent: feelers black, stout: fore-chest rather short, a little narrower in front than behind: scutcheon adorned with a red fore-border; hind-scutcheon red, narrow, black along the fore border, rounded and widened at the base of each fore-wing, not excavated on each side: scutcheon of the middle chest red, rather long, adorned with four very broad obconical black stripes, the outer pair much longer than the inner pair which are succeeded by a large conical black spot resting on the cross ridge; hind border very slightly excavated: abdomen obconical, very much longer than the chest; hind borders of the segments red; tip tawny: under side red, adorned with a black stripe which is widened towards the tip: opercula none; tymbals hoary; drums very small, tawny, black towards the base, very wide apart: legs red; fore-thighs armed with three red teeth, two of which are very long, the third very small: wings colourless: veins pale red, black towards the tips, tawny at the base; fore border tawny as far as the brand, ferruginous from thence towards the tip; fore-membranes tawny; flaps tawny along the middle-vein and having a very small brown spot at the tip of the fore border. Length of the body 8 lines; of the wings 23 lines.

a. ———?

#### 127. CICADA DAMATER, Mas.

*Nervus transversus* 1us *rectus*, *ferè erectus*, *angulum subobtusum fingens*, 2o *triplò ejus longitudine divisus*; 2us *subcurvus*, *subobliquus*, *angulum obtusum fingens*, 1o *longior*; 3us *subrectus*, *obliquus*, *angulum vix acutum fingens*; 4us *subcurvus*, *obliquus*, *angulum acutum fingens*, 3o *longior*.

Second marginal areolet nearly as long as the first: first cross-vein straight, nearly upright, forming a slightly obtuse angle, parted from the second by thrice its length; second very slightly curved, slightly slanting, forming an obtuse angle, longer than the first; third nearly straight, slanting, forming a hardly acute angle; fourth

very slightly curved, slanting, forming an acute angle, longer than the third; fifth slightly curved, upright, forming a right angle. Body black, narrow: head nearly as broad as the fore-chest; a very small tawny spot between the eyelets; face convex, not prominent, adorned in front with a tawny border: mouth tawny with a black tip, reaching the hind-hips: feelers black: eyes rather prominent: fore-chest very little narrower before than behind; scutcheon adorned with six red stripes, the middle pair slightly curved, narrower than the other four, of which the outer pair are nearly triangular; hind-scutcheon wrinkled, narrow, rounded, slightly widened and reddish on the hind border above the base of each fore-wing, much indented and armed with a stout tooth on each side: scutcheon of the middle-chest dark red on each side and on the hind border which is slightly excavated: abdomen obconical, longer than the chest; under side dark red at the tip, across the base, and on each side of the hind borders of the segments: drums small, tawny, black at the base, some distance apart: legs black, clothed with short white hairs; thighs adorned with pale red stripes; claws dark red, black towards the tips; middle-shanks pitchy with pale red stripes, adorned with a tawny band near the base: hind-shanks dull red, tawny at the tips, adorned with a tawny band near the base which is pitchy: fore-thighs armed with three ferruginous teeth, which are black towards the base, two very large, the third small: hind-feet red, darker at the base and at the tips: wings colourless; fore border dark red as far as the brand, pitchy with dark red streaks from thence towards the tip; veins dark red, black towards the tips; first and second cross-veins clouded with brown; veins of the hind-wings tawny, black towards the tips; flaps mostly white. Length of the body  $7\frac{1}{2}$  lines; of the wings 21 lines.

a. New Holland.

#### 128. CICADA MELETE, Mas et Fem.

*Nervus transversus* 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1i longitudine; 3us rix undatus, obliquus, angulum acutum fingens; 4us rix undatus, obliquus, angulum acutum fingens, 1o paulò longior.

Second marginal areolet much more than three-fourths of the length of the first: first cross-vein almost straight, slightly slanting, forming an obtuse angle, parted from the second by four times its length; second slightly curved, slightly slanting, forming an obtuse

angle, as long as the first; third very indistinctly waved, slanting, forming an acute angle; fourth very indistinctly waved, slanting, forming an acute angle, a little longer than the third; fifth slightly curved, nearly upright, forming a right angle.

*Male*.—Body black, rather narrow: head nearly as broad as the fore-chest, adorned with three red spots along the hind border and in front with a red band which sends forth a red stripe to the middle eyelet, and has three red stripes in front, of these the middle one is short and adorns the face, the side pair are long, and extend by each side of the face to the mouth; face convex, not prominent: mouth pitchy, extending to the middle-hips: eyes prominent: feelers black: fore-chest a little narrower in front than behind: scutcheon bordered with red, its furrows dark red, with which the intervening spaces are also partly adorned; hind-scutcheon narrow in the middle, convex and much widened at the base of each fore-wing, much excavated on each side: scutcheon of the middle-chest red on each side and behind, adorned with two slender red stripes which join the cross-ridge, the latter is also mostly red; hind border slightly excavated: abdomen obconical, a little longer than the chest, adorned with a red band which is much narrower above than beneath where it has a row of black dots on each side, and a more slight row in the middle; tip red: drums small, pitchy or black, parted by a broad interval: legs red; hips and thighs black with red tips; fore-hips and fore-thighs streaked with red; fore-shanks, fore-feet and middle-feet black; fore-thighs armed with two long black teeth which have each a red band near the tip; middle-shanks black, red for one-third of the length from the base; a black spot at the base of each hind-shank: wings colourless; veins black, ferruginous towards the base, whitish beneath the fore border which is black as far as the brand, and brown from thence towards the tip; brands whitish.

*Female*.—Abdomen red beneath with a row of black spots on each side; last segment black, with a large red spot on each side: oviduct ferruginous.

Length of the body 9 lines; of the wings 24 lines.

*a*. New Holland. Presented by the Haslar Hospital.

*b—d*. Swan River. Presented by Sir J. Richardson.

## 129. CICADA AÆDE, Fem.

*Nervus transversus* 1us *ferè rectus, ferè erectus, angulum rectum fingens, 2o plus duplò ejus longitudine divisus*; 2us *curvus, erectus, angulum subobtusum fingens, 1o paullò longior*; 3us *subcurvus, obliquus, angulum acutum fingens*; 4us *ferè rectus, subobliquus, angulum subacutum fingens, 3o brevior.*

Second marginal areolet much more than three-fourths of the length of the first: first cross-vein almost straight, nearly upright, forming a right angle, parted from the second by more than twice its length; second curved, upright, forming a very slightly obtuse angle, a little longer than the first; third very slightly curved, slanting, forming an acute angle; fourth almost straight, slightly slanting, forming a very slightly acute angle, shorter than the third: fifth slightly curved, upright, forming a hardly acute angle. Very nearly allied to *C. Melete*, but a little narrower: body black: head a little narrower than the fore-chest; face very convex, adorned with a dark red spot on each side; an interrupted tawny stripe on the crown corresponding to a short tawny stripe on the fore-chest: mouth and feelers black: eyes prominent: structure of the fore-chest like that in *C. Melete*; hind-scutcheon much wrinkled: a large tawny spot on each side of the cross-ridge on the scutcheon of the middle-chest, whose hind border is slightly excavated: abdomen obconical, much longer than the chest, adorned with a narrow red band; under side and tip red, the latter with two black stripes: oviduct dark red: legs black; knees and tips of the shanks tawny; fore-thighs striped with tawny, armed with two long black teeth; hind-shanks tawny with black tips; hind-feet tawny: wings colourless; fore border black, brown beyond the band which is whitish; veins black, tawny at the base, whitish beneath the fore border. Length of the body 9 lines; of the wings 24 lines.

a. Adelaide. Presented by the Entomological Club.

## 130. CICADA MNEME, Mas et Fem.

*Nervus transversus* 1us *subcurvus, subobliquus, angulum obtusum fingens, 2o ferè quadruplò ejus longitudine divisus*; 2us *subcurvus, obliquus, angulum valdè obtusum fingens, 1o multò longior*; 3us *curvus, obliquus, angulum ferè rectum fingens*; 4us *curvus, obliquus, angulum rix acutum fingens, 3o longior.*

Second marginal areolet full three-fourths of the length of the first: first cross-vein very slightly curved, slightly slanting, forming

an obtuse angle, parted from the second by nearly four times its length; second slightly curved, slanting, forming a very obtuse angle, very much longer than the first; third curved, slanting, forming an almost right angle; fourth curved, slanting, forming a hardly acute angle, longer than the third; fifth very slightly curved, upright, forming a hardly obtuse angle.

*Male*.—Body black: head and chest clothed with short black hairs: head hardly narrower than the fore-chest, adorned with a slender interrupted tawny stripe; face slightly convex, not at all prominent, red on each side in front: eyes rather prominent: feelers black, stout: fore-chest a little narrower before than behind; scutcheon adorned with a red slender stripe which does not reach the hind border; hind-scutcheon narrow above, broader and rounded at the base of each fore-wing, somewhat excavated along each side: sides, cross-ridge and hind border of the scutcheon of the middle-chest tinged with red; hind border very slightly excavated: abdomen obconical, a little longer than the chest, adorned with whitish shining down; hind borders of the segments, tip and under side bright red: opercula none; tymbals green; drums very small, dark red, blackish towards the base, wide apart: legs black, rather hairy; fore-thighs streaked with red, armed with three long black teeth whose tips are dark red; knees red; a tawny band near the base of each of the four hinder shanks; hind-shanks tawny beneath towards the tips: hind-feet pale tawny with black tips: wing colourless; fore border dark red, rather convex; veins black, tawny and marked with black at the base; fore-flaps grayish; hind-flaps brown at the base and along some part of the hind-border and at the tips.

*Fem*.—Abdomen a little longer than that of the male; last segment red with the exception of two black stripes which diverge towards the tip: oviduct red.

Length of the body 8—9 lines; of the wings 25—26 lines.

*a, b.* ——— ?

### 131. CICADA ANTICA, Mas.

*Nerrus transversus* 1us *rectus, erectus, angulum obtusum fingens, 2o sexties ejus longitudine divisus*; 2us *subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior*; 3us *ferè rectus, obliquus, angulum ferè rectum fingens*; 4us *subcurvus, obliquus, angulum rectum fingens, 3o multò longior.*

Second marginal areolet much more than three-fourths of the length of the first: first cross-vein straight, upright, forming an ob-

tuse angle, parted from the second by six times its length; second very slightly curved, slanting, forming a very obtuse angle, longer than the first; third nearly straight, slanting, forming an almost right angle; fourth very slightly curved, slanting, forming a right angle, much longer than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle. The description of *C. Mneme* will apply also to this species, but there is a difference in the structure of the wing-veins. Length of the body 10 lines: of the wings 22 lines.

a. ———?

### 132. CICADA LATOREA, Mas.

*Nerrus transversus* 2us *subcurvus*, *subobliquus*, *angulum obtusum fingens*, 1o *paullò longior*; 3us *subcurvus*, *obliquus*, *angulum subacutum fingens*; 4us *ferè rectus*, *obliquus*, *angulum acutum fingens*, 3o *brevior*.

Second marginal areolet as long as three-fourths of the first: first cross-vein in both wings of the insect described forming of itself a right angle, whence proceeds an additional longitudinal vein which divides the second marginal areolet; second slightly curved, very slightly slanting, forming an obtuse angle, a little longer than the first, and parted from it by full thrice its length; third hardly curved, slanting, forming a slightly acute angle: fourth nearly straight, slanting, forming an acute angle, shorter than the third; fifth curved, upright, forming a nearly right angle. In both wings of the insect described an additional slanting cross-vein divides the front areolet, and in the left wing there is an additional cross-vein near the base of the sixth marginal areolet. Body black: head a little narrower than the fore-chest: crown adorned with an interrupted tawny stripe, and on each side with a tawny spot: face slightly convex, adorned with an irregular tawny band, before which there is a small tawny spot, and the sides in front are also tawny: mouth dark red with a black tip reaching the middle hips: eyes prominent: feelers black: fore-chest a little narrower in front than behind; scutcheon tawny along the fore border, adorned with six oblique tawny stripes; hind-scutcheon partly tawny, narrow, rounded and slightly widened above the base of each fore-wing, excavated on each side: scutcheon of the middle chest tawny, adorned with four broad black obconical stripes; the inner pair much shorter than the outer pair, united towards the base; furrows mostly black along the hind border which is not excavated: abdomen obconical, a little longer and narrower than the chest; hind borders of the segments

mostly red; under side adorned with two yellow stripes which taper from the base and do not extend much beyond half the length: opercula none; tymbals hoary; drums yellow, of moderate size, not far apart, more than one-third of the length of the abdomen: legs black; thighs and fore-hips adorned with tawny stripes; a tawny band on the base of each shank; four hinder-shanks pitchy, tawny beneath at the tips; claws dark red, partly pitchy; hind-feet adorned with a tawny band; fore-thighs armed with three black teeth whose tips are ferruginous, one is large, the other two small: wings colourless; fore border dark tawny, pitchy beyond the band; veins ferruginous, black towards the tips; fore-flaps tawny; hind-flaps white at the base and on the hind border and along the middle-vein. In the insect described the first marginal areolet is divided longitudinally in both wings, and in the left wing the fifth marginal areolet has near its base a little cross-vein which forms a pentagonal areolet. Length of the body  $7\frac{1}{2}$  lines; of the wings  $19\frac{1}{2}$  lines.

a. New Holland. Presented by the Haslar Hospital.

### 133. CICADA ARCLUS, MAS.

*Nervus transversus 1us curvus, subobliquus, angulum subobtusum ficiens, 2o plus triplo ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum ficiens, 1o longior; 3us fere rectus, subobliquus, angulum rectum ficiens; 4us subcurvus, obliquus, angulum acutum ficiens, 3o multo longior.*

Second marginal areolet as long as three-fourths of the first: first cross-vein curved, slightly slanting, forming a very slightly obtuse angle, parted from the second by much more than thrice its length; second slightly curved, slanting, forming an obtuse angle, longer than the first; third almost straight, slightly slanting, forming a right angle; fourth slightly curved, slanting, forming an acute angle, very much longer than the third: fifth very slightly curved, upright, forming a nearly right angle. Body black, very slender: head near as broad as the fore-chest, adorned with a dark red spot on each side at the base of the feelers; a small triangular tawny spot between the eyelets; face slightly convex, not at all prominent: mouth black, adorned with a tawny band near the base, reaching the middle hips: eyes very prominent: feelers black: fore-chest a little narrower in front than behind; hind-scutcheon narrow in the middle, tawny along the hind border, rounded and much widened at the base of each fore-wing, excavated on each side, adorned with a red spot towards the fore border: scutcheon of the middle-chest adorned with two slender, slightly angular tawny stripes, which have



the fore angle inward and the hind angle outward : sides, cross-ridge and hind border also tawny, the latter slightly excavated : abdomen obconical, a little narrower and very much longer than the chest, tawny at the tip : hind borders of the segments mostly tawny : drums black with tawny borders, extremely small, far apart : legs black ; thighs and fore-hips adorned with tawny stripes : four hinder knees tawny ; fore-thighs armed with three black teeth, two large and one small : middle-shanks pitchy with a tawny band near the base : four hinder feet pitchy with a tawny band in the middle ; hind-shanks pale tawny, pitchy at the base and at the tips, beset with pitchy spines whose tips are ferruginous : wings colourless : fore borders pitchy, inclosing a yellow stripe which extends as far as the yellow brand : veins black, tawny towards the base. Length of the body 7 lines ; of the wings 18 lines.

a. New Holland. Presented by the Entomological Club.

#### 134. CICADA MULTIFASCIA, Mas.

*Nervus transversus* 1us *ferè* *rectus, subrectus, angulum obtusum fingens, 2o ferè* *triplo ejus longitudine divisus ; 2us subcurvus, ferè* *erectus, angulum obtusum fingens, 1o paullo longior ; 3us rix unclatus, obliquus, angulum acutum fingens ; 4us ferè* *rectus, obliquus, angulum acutum fingens, 3o paullo brevior.*

Second marginal areolet three-fourths of the length of the first : first cross-vein nearly straight, almost upright, forming an obtuse angle, parted from the second by nearly three its length : second slightly curved, nearly upright, forming an obtuse angle, a little longer than the first ; third very indistinctly waved, slanting, forming an acute angle ; fourth nearly straight, a little shorter, rather less slanting and forming a less acute angle than the third ; fifth slightly curved, upright, forming a right angle. Body black, slender : head as broad as the fore-chest : face slightly convex, not at all prominent : mouth black, reaching near to the hind-hips : eyes prominent : feelers black : structure of the chest like that of *C. rufifascia* : sides and hind border of the scutcheon of the middle-chest red : abdomen oblanceolate, near twice the length of the chest, longer than that of *C. rufifascia* ; hind borders of the segments adorned with narrow bright red bands which are mostly entire : a broad red partly interrupted band on the penultimate segment : last segment black above, with a forked red mark on each side : under side red : legs pale red : thighs striped with black ; feet and fore-shanks dark red ; fore-thighs armed with three long black teeth : wings colourless ; fore border pale red as far as the brand, dark

tawny with a red streak from thence till near the tip; veins black, tawny at the base; fore-membranes red; flaps pale red at the base and along the veins. Length of the body 5—6 lines; of the wings 15—16 lines.

a. Adelaide. Presented by the Entomological Club.

b. New Holland.

### 135. CICADA SINGULA, Fem.

*Nervus transversus* 1us ferè rectus, erectus, angulum subobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o paullò longior; 3us vix undatus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o longior.

Second marginal areolet three-fourths of the length of the first: first cross-vein almost straight, upright, forming a slightly obtuse angle, parted from the second by more than thrice its length; second almost straight, slightly slanting, forming an obtuse angle, a little longer than the first; third hardly waved, slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming an acute angle, longer than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle. Body black, like that of *C. multifascia* in shape: head dark red, a little broader than the fore-chest; face black, slightly convex, not all prominent: mouth dark red, reaching near the hind-hips: eyes prominent: feelers pitchy with whitish tips: fore-chest linear, adorned with a dark red stripe which is widened in front and behind; hind-scutcheon dark red, narrow above, broader on each side where it extends beyond the scutcheon: scutcheon of the middle-chest adorned with two dark red parallel stripes; sides dark red; hind border pale tawny, hardly excavated: abdomen oblongate, nearly twice the length of the chest, pale red beneath; hind borders of the segments adorned with narrow entire tawny bands which are wider on each side than in the middle; band of the penultimate segment broad but partly interrupted; last segment tawny, adorned with two black stripes which in front are continued across to the sides of the abdomen, and are united behind to a slender black stripe which runs between and extends to the tip: legs tawny; thighs dark tawny; tips of the claws black; fore-legs ferruginous; fore-thighs armed with three long pitchy teeth: wings colourless; fore border pale red; veins pitchy, tawny towards the base; fore membranes tawny; flaps tawny at the base and along the middle vein. The specimen described may be immature. Length of the body 6 lines; of the wings 16 lines.

a. ———?

## 136. CICADA OBSCURIOR, Mas.

*Nervus transversus* 1us subcurvus, erectus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us rix curvus, ferè erectus, angulum obtusum fingens, 1o longior; 3us rix curvus, obliquus, angulum subacutum fingens, 3o brevior.

Second marginal areolet almost as long as the first: first cross-vein hardly curved, upright, forming an obtuse angle, parted from the second by much more than twice its length; second hardly curved, nearly upright, longer than the first, and forming a more obtuse angle; third hardly curved, slanting, forming an acute angle; fourth nearly straight, slanting, forming a slightly acute angle, shorter than the third; fifth slightly curved, upright, forming a right angle. Body black: head and chest a little broader than those of *C. rufifascia* and of *C. multifascia*: head as broad as the fore-chest, adorned with an indistinct reddish mark between the eyelets and another on the face, which is convex but not prominent, and has a tawny mark in front and a tawny stripe along each of its sides: mouth black, reaching the hind-lips: eyes prominent: feelers black: sides and hind border of the scutcheon of the middle-chest dark red: hind border not excavated: abdomen very little longer than the chest, rather broader than that of *C. rufifascia*; hind borders of the second and following segments red; under side tawny with three pitchy stripes: opercula none; tymbals dark gray; drums pale yellow, very small, parted by a broad interval: legs black; fore-thighs streaked with dark red, armed with three long black teeth; knees reddish; a tawny band near the base of each middle-shank; hind-shanks pitchy, tawny towards the tips, adorned with a tawny band near the base; hind-feet pitchy with a tawny band: wings colourless; fore border dark red along the whole length; veins black; fore-membranes dull pale tawny; flaps colourless, dull pale tawny at the base and along the middle vein. Length of the body 6 lines; of the wings 15 lines.

a. ——— ?

## 137. CICADA INCEPTA, Mas et Fem.

*Nervus transversus* 1us ferè erectus, suberectus, angulum obtusum fingens, 2o ferè quadruplò ejus longitudine divisus; 2us subcurvus ferè erectus, angulum obtusum fingens, 1i longitudinæ; 3us rix undatus, obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o rix longior.

Second marginal areolet full three-fourths of the length of the first: first cross-vein almost straight, nearly upright, forming an

obtuse angle, parted from the second by nearly four times its length; second very slightly curved, nearly upright, forming an obtuse angle, as long as the first; third hardly waved, slanting, forming an acute angle; fourth very slightly curved, slanting, forming an acute angle, hardly longer than the third; fifth very slightly curved, upright, forming a hardly obtuse angle. Body slender, black: head very little broader than the fore-chest, adorned with some pale red marks; face rather prominent, mostly red: eyes prominent: feelers black, stout: mouth pale red with a black tip, reaching beyond the middle-hips: fore-chest more or less adorned with pale red marks; hind-scutcheon rather narrow above, slightly widened and angular on each side: middle-chest adorned with some pale red marks; cross-ridge pale red; hind border slightly excavated: abdomen oblongate, longer than the chest, red beneath except the tip, more or less adorned above with red bands which are partly interrupted on the back; tymbals very small: legs red, striped with black; fore-thighs armed with two large and with two small teeth: wings colourless, long and narrow; fore border pale red as far as the brand which is pale brown. Length of the body  $6\frac{1}{2}$ — $7\frac{1}{2}$  lines: of the wings 20—22 lines.

*a, b.* Adelaide. Presented by the Entomological Club.

### 138. CICADA JUVENIS, Mas.

*Nervus transversus 1us ferè rectus, suberectus, angulum subobtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o multò longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o multò longior.*

Second marginal areolet nearly as long as the first: first cross-vein almost straight, nearly upright, forming a slightly obtuse angle, parted from the second by much more than four times its length; second very slightly curved, slightly slanting, forming an obtuse angle, very much longer than the first; third nearly straight, slanting, forming a very slightly acute angle; fourth very slightly curved, slanting, forming a very slightly acute angle, much longer than the third; fifth very slightly curved, nearly upright, forming a slightly obtuse angle. Body black, clothed with hoary hairs: head as broad as the fore-chest, adorned with a red mark in front; face convex, red on each side in front: mouth red with a black tip, reaching the middle-hips: eyes prominent: feelers black: fore-chest not narrower in front; scutcheon adorned with a red stripe which does not reach

the red hind border; hind-scutcheon narrow and adorned with a red band above, slightly widened on each side: scutcheon of the middle-chest adorned with a narrow red border and with two red stripes; hind border slightly excavated; abdomen tapering from the base to the tip, much longer than the chest, brown on each side towards the base beneath; hind borders of the segments red; drums very small, far apart, pale yellow, their disks black: legs black, clothed with short hoary and black hairs, adorned with red stripes; claws red; fore-thighs armed with rather long black teeth; hind-shanks beset with red spines: wings colourless, yellow at the base and along the fore border; veins red, black towards the tips; tips of the flaps clouded with black. Length of the body  $7\frac{1}{2}$  lines; of the wings 24 lines.

a. Port Stephen, New Holland. Presented by the Earl of Derby.

### 139. CICADA INCIPIENS, Fem.

*Nervus transversus 1us rectus, erectus, angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum obtusum fingens, 1o paullo longior; 3us subcurvus, valdè obliquus, angulum acutum fingens; 4us ferè rectus, obliquus, angulum rectum fingens, 3i dimidio brevior.*

Second marginal areolet full three-fourths of the length of the first: first cross-vein straight, upright, forming a slightly obtuse angle, parted from the second by much more than twice its length; second very slightly curved, nearly upright, forming an obtuse angle, a little longer than the first; third very slightly curved, very slanting, forming an acute angle; fourth almost straight, slanting, forming a right angle, not half the length of the third; fifth very slightly curved, upright, forming a slightly obtuse angle. Body black, rather short: head fully as broad as the fore-chest: face rather prominent, forming a very obtuse angle, adorned with a tawny mark on each side in front: eyes prominent: fore-chest not narrower in front, adorned with a slight tawny stripe; hind-scutcheon narrow above, slightly widened on each side: scutcheon of the middle-chest adorned with two slightly waved tawny stripes; hind border tawny, slightly excavated: hind-chest mostly tawny: abdomen tapering, bright tawny, much longer than the chest, mostly black above at the base, whence three black stripes composed of spots dwindle along the back and disappear at some distance from the tip: legs tawny, striped with black, clothed with short tawny hairs; claws black, tawny at the base; fore-thighs armed with three rather long teeth: feelers dark tawny: wings colourless, tawny at

the base; fore border ferruginous as far as the brand which is darker; veins black; flaps colourless. Length of the body 5 lines; of the wings 14 lines.

a. Adelaide. Presented by the Entomological Club.

#### 140. CICADA DOLENS, Mas et Fem.

*Nervus transversus 1us rectus, subobliquus, angulum rectum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum obtusum fingens, 1o longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us subcurvus, angulum acutum fingens, 3o longior et obliquior.*

Second marginal areolet a little longer than the first: first cross-vein straight, very slightly slanting, forming a right angle, parted from the second by more than twice its length; second slightly curved, nearly upright, forming an obtuse angle, longer than the first; third very slightly curved, slanting, forming an acute angle; fourth very slightly curved, forming an acute angle, longer and more slanting than the third; fifth slightly curved, upright, forming a nearly right angle.

*Male.*—Body black, clothed with white hairs: head clothed with golden hairs, and with longer black hairs, adorned with a tawny spot on each side at the base of the feelers; face slightly convex: mouth black, tawny at the base, as long as the middle hips: eyes rather prominent; feelers black: fore-chest not narrower in front; hind-scutcheon red along the hind border, narrow above, slightly widened and angular on each side; hind border of the middle-chest red, slightly excavated: abdomen tapering from the base to the tip, much longer than the chest; hind borders of the segments yellow towards the base, red towards the tip; a row of dull yellowish marks on each side beneath: drums small; opercula none: legs black; knees and shanks mostly tawny: wings colourless, tawny at the base; fore border tawny, black beyond the brand; veins tawny, striped with black at the base, black towards the tips; vein along the hind border thick, black: cross-vein beneath the brand pale tawny, yellow where it joins the brand; tips of the flaps clouded with brown.

Length of the body 7 lines; of the wings  $17\frac{1}{2}$  lines.

a, b. New Holland. Presented by Captain Grey.

## 141. CICADA QUADRICINCTA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, angulum valdè obtusum fingens, 1o obliquior et paullò longior; 3us subundatus, obliquus, angulum rix acutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o paullò longior.

Second marginal areolet two-thirds of the length of the first: first cross-vein very slightly curved, slightly slanting, forming a slightly obtuse angle, parted from the second by much more than thrice its length; second slightly curved, slightly slanting, forming an obtuse angle, a little longer than the first: third very slightly waved, slanting, forming an acute angle; fourth almost straight, slightly slanting, forming a right angle, shorter than the third: fifth slightly curved, nearly upright, forming a slightly obtuse angle. Body black: head nearly as broad as the fore-chest, adorned with a tawny spot on each side of the face which has a tawny dot on its hind border, and is slightly convex and not at all prominent: mouth black, reaching the middle-hips: feelers black; eyes hardly prominent: fore-chest much broader than long; scutcheon adorned with two tawny spots in front and with one near each side which is pale tawny: hind-scutcheon narrow above, broader and rounded near the base of each fore-wing, straight on each side, ferruginous along the hind border: scutcheon of the middle-chest adorned with two oblique ferruginous stripes on each side; hind border slightly excavated: abdomen pitchy, obconical, not longer than the chest; hind borders of the segments adorned with ferruginous and green bands; a tawny stripe on each side beneath: opercula none; tymbals dingy white with black bands; drums rather large, almost white, more than one-third of the length of the abdomen, parted by a narrow space: legs tawny; thighs and shanks striped with black: feet and fore-shanks black: wings colourless; fore border ferruginous for near two-thirds of its length, and thence black for a short space: veins ferruginous, black towards the tips; fore-flaps whitish; hind-flaps colourless, white with blackish disks for a space along the hind border from the base. Length of the body 7 lines; of the wings 18 lines.

a. New Holland. Presented by Capt. Grey.

## 142. CICADA RUFIFASCIA. Mas.

*Nervus transversus* 1us *subcurvus, erectus, angulum sobobtusum fingens. 2o plus triplo ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens. 1o ferè duplo longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us vic curvus, obliquus, angulum acutum fingens, 3o multo brevior.*

Second marginal areolet longer than the first: first cross-vein slightly curved, upright, forming a slightly obtuse angle, parted from the second by more than thrice its length: second slightly curved, slightly slanting, forming an obtuse angle, nearly twice the length of the first; third very slightly curved, slanting, forming an acute angle: fourth hardly curved, slanting, forming an acute angle, much shorter than the third: fifth slightly curved, slightly slanting, forming a right angle. Body black, slender: head as broad as the fore-chest: a tawny dot between the eyelets, and another on the face which is slightly convex and not at all prominent, and has a red stripe in front on each side: mouth black, reaching the hind-lips: eyes prominent: feelers black: fore-chest not narrower in front than behind, adorned with a short tawny stripe which corresponds with the two tawny marks on the head: hind-scutcheon narrow above, wider by the base of the fore-wing where it forms a very slight angle, has a reddish tinge and extends beyond the sides of the scutcheon: scutcheon of the middle-chest pale red on each side and on the hind border which is not excavated: abdomen obconical, narrower and a little longer than the chest: hind borders of the segments adorned with narrow bright red bands which are interrupted in the middle: last segment red, its disk mostly black: under side bright red: opercula none: tymbals small, reddish gray: drums tawny, black towards the base, very small, parted by a broad interval: legs black; knees tawny: fore-thighs streaked with red, armed with three long black teeth; hind-shanks pitchy with tawny tips: fore-feet and middle-feet pitchy at the base; hind-feet tawny with black tips: wings colourless; fore border pale red as far as the braud, dark tawny with a red streak from thence till near the tip; veins black, tawny at the base; fore membranes red; flaps pale red at the base and along the veins. Length of the body 7 lines; of the wings 19 lines.

a. ——— ?



## 143. CICADA DIVERSA, Mas.

*Nervus transversus* 1us subcurvus, ferè erectus, angulum subobtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o multò longior; 3us subcurvus, obliquus, angulum rectum fingens; 4us ferè rectus, obliquus, angulum rix acutum fingens, 3i longitudine.

Second marginal areolet a little longer than the first: first cross-vein slightly curved, nearly upright, forming a very slightly obtuse angle, parted from the second by nearly thrice its length: second very slightly curved, very slanting, forming an extremely obtuse angle, very much longer than the first: third very slightly curved, slanting, forming a right angle: fourth nearly straight, slanting, forming a hardly acute angle, as long as the third; fifth slightly curved, upright, forming a slightly acute angle. Body black above, tawny beneath: head small, much narrower than the fore-chest; crown adorned with three tawny spots on the hind border, and at the base of each feeler with a large tawny spot which nearly incloses a black dot: face very convex, not prominent, black in front, beneath tawny with a black stripe: mouth pale tawny with a black tip, reaching the hind hips: eyes not prominent: feelers black: fore-chest narrower before than behind: scutcheon adorned with a tawny stripe which joins the middle spot on the hind border, and with two slightly oblique tawny streaks on each side: hind-scutcheon very narrow above, much widened on each side: its hind border tawny: scutcheon of the middle-chest adorned with two indistinct tawny streaks, by which it is imperfectly divided into the usual obconical stripes: sides, cross-ridge and hind border tawny, the latter slightly excavated: abdomen obconical, a little broader and much longer than the chest: hind borders of the segments and the whole surface on one-third of the breadth of each side tawny: opercula none: tymbals grayish-tawny: drums pale tawny, rather small, pitchy at the base, meeting in the middle: legs tawny: hips and thighs adorned with pitchy streaks: tips of the shanks and of the feet pitchy: claws black: fore-thighs armed with two long black teeth whose tips are ferruginous: wings colourless: fore border tawny: veins black, ferruginous towards the base: fore-flaps yellow; hind-flaps yellow at the base and along the veins, and for a short space along the hind border: an indistinct cross-vein in the first discoidal areolet of the left hind-wing. Length of the body 7 lines; of the wings 14 lines.

a. ——— ?

## 144. CICADA TELXIOPE, Fem.

*Nervus transversus* 1us *rectus, subobliquus, angulum obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us ferè rectus, obliquus, angulum valdè obtusum fingens, 1o paullò longior; 3us subcurvus, erectus, angulum ferè rectum fingens; 4us subundatus, subobliquus, angulum vix acutum fingens, 3o multò longior.*

Second marginal areolet nearly three-fourths of the length of the first: first cross-vein straight, slightly slanting, forming an obtuse angle, parted from the second by much more than thrice its length: second almost straight, slanting, forming a very obtuse angle, a little longer than the first; third very slightly curved, upright, forming a nearly right angle; fourth very slightly waved, slightly slanting, forming a hardly acute angle, much longer than the third; fifth slightly curved, slightly slanting, forming a hardly obtuse angle. Body pale red: head as broad as the fore-chest; crown adorned with a black band which crosses the region of the eyelets, and has a branch on each side towards the hind border; face very convex, rather prominent, adorned in front with two black stripes: mouth tawny with a black tip, reaching the middle-hips: eyes rather prominent: feelers tawny, pitchy at the base: fore-chest not narrower in front than behind: hind-scutcheon narrow above, broader on each side where it is slightly excavated and armed with a blunt tooth: scutcheon of the middle-chest with a black dot on each side near the tip, its hind border hardly excavated: abdomen obconical, much longer than the chest: oviduct yellow: legs pale tawny; thighs streaked with black; tips of the claws black; fore-thighs armed with three tawny teeth, two large and one small: wings colourless; fore border and veins ferruginous; stripe on the fore border narrow beyond the brand. Length of the body 8 lines; of the wings 18 lines.

*a.* New Holland. Presented by the Haslar Hospital.

## 145. CICADA DUPLEX, Fem.

*Nervus transversus* 1us *subcurvus, obliquus, angulum obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum subobtusum fingens, 1o paullò longior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o multò brevior.*

Second marginal areolet nearly three-fourths of the length of the first: first cross-vein very slightly curved, slanting, forming an

obtuse angle, parted from the second by much more than thrice its length; second very slightly curved, slightly slanting, forming a slightly obtuse angle, very little longer than the first; third very slightly curved, slanting, forming a slightly acute angle; fourth nearly straight, slanting, forming a slightly acute angle, much shorter than the third; fifth slightly curved, nearly upright, forming a hardly acute angle. Body pale tawny, tinged with green: two pitchy marks in front, and two black dots towards the hind border of the scutcheon of the middle-chest, which is also adorned with two broad pale ferruginous slightly mottled stripes; the side pair a little oblique: oviduct ferruginous with a black tip: legs yellow: fore border and veins of the wings tawny. Length of the body 8 lines: of the wings 18 lines.

a. New Holland. Presented by the Haslar Hospital.

#### 146. CICADA ARCHE, Mas.

*Nervus transversus 1us rectus, subobliquus, angulum obtusum fingens, 2o quinques ejus longitudine divisus; 2us subrectus, obliquus, angulum valdè obtusum fingens, 1o ferè duplò longior; 3us ferè rectus, subobliquus, angulum subacutum fingens; 4us vix curvus, subobliquus, angulum vix acutum fingens, 3i longitudine.*

Second marginal areolet nearly as long as the first: first cross-vein straight, slightly slanting, forming an obtuse angle, parted from the second by full five times its length; second nearly straight, slanting, forming a very obtuse angle, nearly twice the length of the first: third almost straight, slightly slanting, forming a slightly acute angle; fourth hardly curved, slightly slanting, forming a hardly acute angle, as long as the third: fifth very slightly curved, nearly upright, forming a slightly obtuse angle. Body tawny: head a little narrower than the fore-chest; face convex, not prominent; mouth pale tawny, reaching the hind-hips: feelers tawny: eyes not prominent, black with tawny net-work: hind-scutcheon of the middle-chest of moderate breadth above, a little broader on each side where it forms a slight angle and is excavated: scutcheon of the middle-chest adorned with three broad darker stripes which are indistinctly marked with paler net-work; hind border hardly excavated: abdomen tapering, much longer than the chest: drums small, not one-fourth of the length of the abdomen, parted by a broader interval: legs pale tawny; tips of the claws black; fore-thighs armed with two large tawny teeth whose tips are pitchy:

wings colourless; fore border and veins tawny. Length of the body 7 lines; of the wings 18 lines.

a. New Zealand. Presented by Dr. Hooker.

#### 147. CICADA CRUCIFERA, Mas.

*Nervus transversus* 1us subcurvus valdè obliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us vix undatus, subobliquus, angulum subacutum fingens; 4us vix undatus, 3o multò longior et obliquior et angulum acutiorem fingens.

Second marginal areolet very much longer than the first: first cross-vein very slightly curved, slanting, forming an extremely obtuse angle, parted from the second by much more than twice its length; second slightly curved, slightly slanting, forming an obtuse angle, much shorter than the first; third indistinctly waved, slightly slanting, forming a slightly acute angle; fourth indistinctly waved, much longer, more slanting and forming a more acute angle than the third; fifth slightly curved, nearly upright, forming a slightly acute angle. Body tawny, paler beneath: head narrower than the chest; region of the eyelets black, sending forth on each side to the eyes two black bands which, being united at the base, include tawny spaces between them; face prominent, very convex, adorned above with a semicircular black mark which is broader on each side than in front: mouth tawny with a black tip, reaching a little beyond the middle-hips: eyes rather prominent: feelers black: fore-chest hardly narrower in front than behind; sides, hind border and furrows of the scutcheon black, its disk adorned with two black spots near the fore border, behind these are four black spots, and the latter are succeeded by a forked black spot which joins the hind border; hind-scutcheon narrow, adorned with a pitchy mark on the fore border near the base of each fore-wing, where it is rounded and much widened, its sides are much excavated: scutcheon of the middle-chest adorned with three very large black marks; side pairs obconical, very broad at the base, extending near to the hind border, each enclosing a little tawny stripe; middle one semicircular, joining a black cross which adorns the cross-ridge; hind border not prominent: abdomen obconical, longer than the chest; disk above black with the exception of the hind borders of the segments, which are more or less tawny; horn tawny: opercula rather large, close, pale tawny, pitchy on the inner side; drums large, pale tawny, slightly overlapping, somewhat less than half the length of the ab-

domen: legs tawny; claws black, tawny at the base; fore-thighs armed with two rather large tawny teeth, one near the base, the other near the tip; spines of the hind-shanks pitchy: wings colourless, bright tawny at the base; primitive areolet and fore-membrane tawny; flaps bright tawny at the base and for a space along the hind border. Length of the body 11 lines; of the wings 30 lines.

a. Mexico. Presented by E. P. Coffin, Esq.

#### 148. CICADA ELANA, Mas.

*Nervus transversus* 1us ferè *rectus, obliquus, angulum subacutum fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, erectus, angulum subobtusum fingens, 1o multò brevior; 3us subcurvus, ferè erectus, angulum vix obtusum fingens; 4us ferè rectus, subobliquus, angulum rectum fingens, 3o multò longior.*

Second marginal areolet longer? than the first: first cross-vein nearly straight, slanting, forming a slightly acute angle, parted from the second by a little more than twice its length; second nearly straight, upright, forming a slightly obtuse angle, much shorter than the first; third very slightly curved, nearly upright, forming a hardly obtuse angle; fourth almost straight, slightly slanting, forming a right angle, much longer than the third; fifth slightly curved, upright, forming a slightly acute angle. In the right fore-wing of the insect described the first marginal areolet is closed at some distance from the tip of the wing. Body black, slender, tawny beneath: head a little narrower than the fore-chest, pale tawny in front: face tawny, very convex, slightly prominent; furrows in front brown: mouth tawny with a black tip, reaching the middle-hips: feelers black: eyes prominent: fore-chest much narrower in front than behind; scutcheon adorned with four tawny spots, two on the fore border and two on the hind border; hind-scutcheon very narrow, adorned with a black triangular middle spot, very much widened and slightly angular at the base of each fore-wing, hardly excavated on each side: scutcheon of the middle-chest adorned with two slightly oblique tawny stripes which widen from the fore border to the cross-ridge, which is also tawny; sides and hind border tawny, the latter hardly excavated: abdomen obconical, very much longer than the chest; hind borders of the segments tawny; horn pitchy: drums tawny, extremely small, parted by a very narrow interval: legs tawny; thighs and shanks adorned with pitchy streaks; fore-thighs armed with three long pitchy teeth: wings colourless; fore border pale tawny, darker beyond the brand; veins tawny, black

towards the tips. Length of the body 8 lines; of the wings 18 lines.

a. South Africa. Presented by Dr. A. Smith.

#### 149. CICADA XANTES, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, angulum valdè obtusum fingens, 1o obliquior et paullò longior; 3us subundatus, obliquus, angulum vix acutum fingens; 4us subundatus, obliquus, angulum subacutum fingens; 3o paullò longior.

Second marginal areolet a little longer than the first: first cross-vein very slightly curved, slanting, forming an obtuse angle, parted from the second by a little more than twice its length; second very slightly curved, forming a very obtuse angle, more slanting and a little longer than the first; third slightly waved, slanting, forming a hardly acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body tawny: head small, narrower than the fore-chest; crown mostly occupied by two very large black spots; face small, very convex, slightly prominent, red above, adorned with a pitchy stripe in front: mouth tawny with a black tip, reaching the middle-hips: eyes not prominent: feelers tawny, pitchy at the base and at the tips: fore-chest a little narrower in front than behind; scutcheon adorned with a yellow stripe, on each side of which there is a short slightly curved pitchy stripe; a small pitchy spot on the hind border; hind-scutcheon very narrow above, rounded and much widened above the base of each forewing, very slightly convex and not excavated on each side: scutcheon of the middle-chest adorned with four black obconical stripes, the middle pair rather less than half the length of the outer pair, and so close together that they seem almost united; behind them are two pitchy spots which join the cross-ridge, the latter is ferruginous and small; hind border not excavated: abdomen obconical, ferruginous, hardly longer than the chest, adorned with a pitchy stripe which tapers from the base to a little beyond the middle and then disappears: opercula pale tawny, very small, not half covering the tymbals which are ferruginous; drums bright tawny, rather narrow, of moderate size, about one-third of the length of the abdomen: legs tawny; thighs adorned with ferruginous streaks; tips of the claws black; fore-shanks and fore-feet ferruginous; fore-thighs armed with two rather long ferruginous teeth: wings colourless;

veins yellow ; on the fore border a black vein is enclosed between two yellow veins and extends to the pale yellow brand ; flaps with a tawny tinge at the base and along part of the middle vein. Length of the body 8 lines ; of the wings 23 lines.

*a.* North India. From Mr. Warwick's collection.

#### 150. CICADA CADISIA, Mas.

*Nervus transversus 1us ferè rectus, subobliquus, angulum obtusum fingens, 2o quinquies ejus longitudine divisus ; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o paulò longior ; 3us rectus, obliquus, angulum rectum fingens ; 4us ferè rectus, angulum subacutum fingens, 3o obliquior et multò longior.*

Second marginal areolet full three-fourths of the length of the first : first cross-vein almost straight, slightly slanting, forming an obtuse angle, parted from the second by full five times its length ; second almost straight, slightly slanting, forming an obtuse angle, a little longer than the first : third straight, slanting, forming a right angle ; fourth nearly straight, forming a slightly acute angle, more slanting and much longer than the third ; fifth curved, upright, forming a hardly acute angle. Body black, slender, tawny beneath : head a little narrower than the fore-chest ; face convex, not prominent, adorned with a tawny spot above and with a tawny stripe on each side in front : mouth ferruginous with a black tip, reaching the hind-hips : eyes prominent : feelers black : fore-chest a little narrower in front than behind ; scutcheon adorned in front with two pale tawny spots, with a dark red spot on each side, and with two tawny spots near the hind border ; hind-scutcheon tawny, very narrow, black along the fore border, much widened and forming an obtuse angle at the base of each fore-wing, its sides not excavated : scutcheon of the middle-chest adorned with two pale red, nearly parallel stripes ; cross-ridge tawny ; hind border hardly excavated : abdomen obconical, much longer than the chest ; hind borders of the segments tawny : drums pale tawny, small, parted by a narrow interval : legs pale red ; feet ferruginous ; claws black, ferruginous towards the base ; thighs streaked with brown ; knees pitchy ; fore-feet black ; fore-thighs armed with three long ferruginous teeth which are black at the base : wings colourless ; fore border tawny ; veins tawny, black towards the tips. Length of the body  $7\frac{1}{2}$  lines ; of the wings  $16\frac{1}{2}$  lines.

*a, b.* South Africa. Presented by Dr. A. Smith.

## 151. CICADA PUER, Mas.

*Nervus transversus* 1us rectus, erectus, angulum subobtusum fingens, 2o paullo plus duplo ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o paullo longior; 3us subcurvus, obliquus, angulum obtusum fingens; 4us subcurvus, subobliquus, angulum obtusum fingens, 3o paullo brevior.

Second marginal areolet as long as the first: first cross-vein straight, upright, forming a slightly obtuse angle, parted from the second by a little more than twice its length; second almost straight, slightly slanting, forming an obtuse angle, a little longer than the first; third very slightly curved, slanting, forming an obtuse angle; fourth very slightly curved, slightly slanting, forming an obtuse angle, a little shorter than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle. Has the shape of *C. incipiens* and of *C. inceptus*. Body tawny: head a little broader than the fore-chest; disk black; a black mark on each side beneath; face convex, adorned in front with black bands which are blended together in the middle: mouth tawny with a black tip, reaching the middle-hips: a black spot above near the base: feelers black, tawny towards the tips: eyes prominent: fore-chest not narrower in front; sutures of the scutcheon black; hind-scutcheon narrow above, slightly widened and rounded on each side: disk of the scutcheon of the middle-chest black, adorned with four tawny stripes which communicate with the hind border; the latter is slightly excavated: abdomen much longer than the chest, black above at the base whence a row of black spots proceeds nearly to the tip: drums pale tawny: legs pale brown, clothed with pale yellow hairs; hips and knees yellow; a yellow ring near the base of each shank; feet black towards the tips; claws tawny with black tips; thighs adorned with yellow and pitchy stripes; fore-thighs armed with three rather long black teeth: wings colourless, tinged with brown along the veins near the tip of the fore border, tawny at the base and along the fore border; veins pitchy, tawny at the base; flaps partly clouded with brown. Length of the body 5 lines; of the wings 13 lines.

a. Adelaide. Presented by the Entomological Club.



## 152 CICADA INFANS, FEM.

*Nervus transversus* 1us *rectus, erectus, angulum subobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum subobtusum fingens, 1o paullò longior; 3us ferè rectus, subobliquus, angulum subacutum fingens; 4us ferè rectus, subobliquus, angulum ferè rectum fingens, 3o paullò longior.*

Second marginal areolet as long as the first: first cross-vein straight, upright, forming a slightly obtuse angle, parted from the second by much more than three times its length; second slightly curved, almost upright, forming a slightly obtuse angle, a little longer than the first; third almost straight, slightly slanting, forming a slightly acute angle; fourth almost straight, very slightly slanting, forming a nearly right angle, a little longer than the third; fifth curved, upright, forming a hardly acute angle. Body black above, tawny beneath, clothed with pale yellow hairs: head as broad as the fore-chest; crown adorned with a tawny middle stripe, and on each side with some tawny marks; face convex, rather prominent, adorned in front with black bands which blend together in the middle: mouth tawny with a black tip, as long as the middle-chest: feelers black: eyes rather prominent: fore-chest not narrower in front; scutcheon adorned with a tawny border and a tawny middle stripe; hind-scutcheon narrow above, slightly widened and rounded on each side: scutcheon of the middle-chest adorned with a dark tawny spot on each side and with two tawny stripes which widen towards their tips where they communicate with the tawny hind border; the latter is hardly excavated: abdomen much longer than the chest: hind borders of the segments adorned with tawny bands which widen towards the tip where the sides are wholly tawny: legs tawny, clothed with pale yellow hairs; knees and stripes of the thighs black: claws tawny; fore-shanks and fore-feet mostly pitchy; fore-thighs armed with three rather long black teeth: wings colourless, tawny at the base and along the fore border; veins tawny, darker towards the tips, marked with black at the base. Length of the body 5 lines; of the wings 13 lines.

a. Adelaide. Presented by the Entomological Club.

## 153. CICADA TRICOLOR, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum subacutum fingens, 2o duplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum obtusum fingens, 1o paullò brevior; 3us subcurvus, obliquus, angulum subacutum fingens; 4us ferè rectus, angulum acutum fingens, 3o obliquior et multò longior.

Second marginal areolet a little longer than the first: first cross-vein very slightly curved, slanting, forming a slightly acute angle, parted from the second by twice its length; second very slightly curved, nearly upright, forming an obtuse angle, very little shorter than the first; third very slightly curved, slanting, forming a slightly acute angle; fourth nearly straight, forming an acute angle, more slanting and much longer than the third; fifth very slightly curved, slightly slanting, forming a slightly acute angle. In the insect described the first marginal areolet is interrupted by one additional cross-vein in the left wing, and by two in the right. Body ferruginous: head hardly narrower than the fore-chest; crown mostly black; face very slightly convex, hardly prominent, its disk black: eyes not prominent: mouth tawny with a black tip: feelers black: fore-chest linear, adorned with six broad black stripes; middle pair linear: the other four oblique: sides straight; a tooth at the base of each fore-wing; hind-scutcheon narrow: disk of the scutcheon of the middle-chest mostly black, with a broad oblique ferruginous stripe on each side; excavation on the hind border: abdomen obconical, hardly longer than the chest; fore borders of the segments black; hind borders bright pale green: opercula small; tymbals pitchy: drums small: legs ferruginous; feet pitchy; claws black: fore-thighs armed with three long black teeth: wings and flaps colourless; veins and fore borders ferruginous; an additional cross-vein dividing the first marginal areolet. Length of the body 5 lines: of the wings 13 lines.

a. Venezuela. From Mr. Stevens's collection.

## 154. CICADA NANA, Mas.

*Nervus transversus* 1us rectus, erectus, angulum obtusum fingens, 2o triplò ejus longitudine divisus; 2us rectus, obliquus, angulum valdè obtusum fingens, 1o paullò longior; 3us rectus, sub-obliquus, angulum rectum fingens; 4us ferè rectus, angulum acutum fingens, 3o multò obliquior et longior.

First cross-vein straight, upright, forming an obtuse angle, parted from the second by thrice its length; second straight, slant-

ing, forming a very obtuse angle, a little longer than the first; third straight, slightly slanting, forming a right angle; fourth almost straight, forming an acute angle, much more slanting and very much longer than the third; fifth slightly curved, nearly upright, forming an almost right angle. Body tawny: head hardly narrower than the fore-chest; crown ferruginous, pitchy on each side; face convex, not prominent, adorned in front with two pitchy stripes: mouth dark tawny with a black tip, reaching the middle-hips: feelers tawny, very stout: eyes prominent: fore-chest ferruginous, very little narrower in front than behind: its sides slightly convex; hind-scutcheon very narrow; a very large triangular black mark on each side of the scutcheon whose hind border is hardly excavated: abdomen obconical, tapering quickly along the whole length, much longer than the chest: opercula small; drums of moderate size, rather less than one-third of the length of the abdomen: legs tawny: claws black; fore-thighs armed with three tawny teeth: wings and flaps colourless; veins tawny, black along the hind borders of the fore-wings. Length of the body 6 lines; of the wings 14 lines.

a. China. Presented by G. T. Lay, Esq.

155. *CICADA TRISTIS?* Mas et Fem.

*Cicada tristis?* *Germ. Silb. Rev. Ent.* ii. 60, 11.

*Nervus transversus* 1us *ferè* *rectus, obliquus, angulum valdè obtusum* *figens, 2o plus duplò ejus longitudine divisus; 2us curvus, obliquus, angulum valdè obtusum* *figens, 1o longior; 3us ferè* *rectus, obliquus, angulum acutum* *figens; 4us subcurvus, subobliquus, angulum rectum* *figens, 3o paullò longior.*

Second marginal areolet much longer than the first: first cross-vein nearly straight, slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second curved, slanting, forming a very obtuse angle, longer than the first; third nearly straight, slanting, forming an acute angle; fourth very slightly curved, slightly slanting, forming a right angle, a little longer than the third; fifth nearly straight or slightly curved, very slightly slanting, forming a hardly acute angle. In an insect of this species the third discoidal areolet of the right wing is divided by an additional long waved nearly diagonal cross-vein. Length of the body  $7\frac{1}{2}$  lines; of the wings 20 lines.

a, b. ——— ?

## 156. CICADA CINCTA, Mas.

*Nervus transversus* 1us subcurvus, erectus, angulum subobtusum fingens; 2o plus quadruplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum obtusum fingens, 1o longior; 3us subcurvus, obliquus, angulum acutum fingens; 4us ferè rectus, angulum acutum fingens, 3o paullò longior et obliquior.

Second marginal areolet a little shorter than the first: first cross-vein very slightly curved, upright, forming a slightly obtuse angle, parted from the second by more than four times its length; second very slightly curved, nearly upright, forming an obtuse angle, longer than the first; third slightly curved, slanting, forming an acute angle; fourth almost straight, forming an acute angle, a little longer and more slanting than the third; fifth very slightly curved, almost upright, forming a right angle. Body tawny: head a little narrower than the fore-chest; crown black with the exception of a tawny stripe extending from the eyelets to the hind border; face very convex, rather prominent, black above with a tawny stripe in the middle: mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers black, stout: fore-chest somewhat narrower in front than behind, rounded at the base of each fore-wing, nearly linear from thence to the fore border; scutcheon adorned with a yellow, middle stripe and with two black stripes on each side; hind-scutcheon narrow in the middle, widened on each side: scutcheon of the middle-chest adorned with four obconical black stripes; the middle pair about half the length of the outer pair, succeeded by two black dots; a slight oblique tawny stripe on each side; excavation of the hind border extremely slight: abdomen obconical, a little longer and much narrower than the chest, black for one-third of the length from the base; short black bands on the fore borders of some of the following segments; under side black at the base; disks of some of the segments pitchy: opercula none; tymbals white; drums pale tawny, small, parted by some space: legs tawny; thighs striped with darker colour; tips of the claws black; fore-thighs armed with three tawny teeth: wings colourless; veins tawny, black at the tips and along the hind borders of the fore-wings; hind-wings and flaps red at the base. Length of the body 7 lines: of the wings 18 lines.

a. New Zealand. Presented by Dr. Sinclair.

## 157. CICADA ANNULIVENA, Mas.

*Nervus transversus* 1us subundatus, obliquus, angulum valdè obtusum fingens, 2o plus triplò ejus longitudine divisus; 2us subrectus, valdè obliquus angulum perobtusum fingens, 1o paullò brevior; 3us subcurvus, obliquus, angulum acutum fingens; 4us ferè rectus, angulum acutum fingens, 1o paullò brevior et obliquior.

Second marginal areolet longer than the first: first cross-vein very slightly waved, slanting, forming a very obtuse angle, parted from the second by much more than thrice its length; second nearly straight, very slanting, forming an extremely obtuse angle, a little shorter than the first; third very slightly curved, slanting, forming an acute angle; fourth nearly straight, forming an acute angle, a little shorter and more slanting than the third; fifth very slightly curved, nearly upright, forming a hardly acute angle. Body black: head rather small, narrower than the fore-chest, adorned with a pale yellow spot on each side of the face, and with two other yellow spots nearer the eyelets; face slightly convex, not at all prominent: mouth black, tawny towards the base: eyes prominent: feelers black, stout: fore-chest narrower in front than behind, adorned with five tawny stripes; the middle one linear, the inner pair nearly straight, the outer pair very oblique; hind-scutcheon narrow in the middle, widened on each side, rounded near the base of each fore-wing: scutcheon of the middle-chest adorned on the disk with the indication of a tawny, double V-shaped mark, and on each side with an oblique tawny stripe; cross-ridge tawny; excavation on the hind border very slight: abdomen slightly obconical, very much longer than the chest; hind borders of the segments and under side tawny: opercula none; tymbals white; drums small, pale tawny, parted by a narrow interval: legs black: thighs and shanks adorned with tawny stripes; fore-thighs armed with two stout teeth: wings colourless; veins tawny, marked with black at the base, darker at the tips; veins and fore border of the fore-wings adorned with numerous brown bands, indications of which may be observed on the veins of the hind-wings; cross-veins of the fore-wings clouded with brown; a row of brown dots at the tips of the longitudinal veins of the marginal areolets; flaps of the hind-wings tinged with pale brown at the base. Length of the body  $7\frac{1}{2}$  lines; of the wings 18 lines.

a. South Africa. Presented by Dr. A. Smith.

158. *CICADA STRIATA*, MSS. Fem.

*Nervus transversus* 1us *subcurvus, erectus, angulum subobtusum fingens, 2o plus ejus longitudine divisus*; 2us *subcurvus, ferè erectus, angulum subobtusum fingens, 1o paullò longior*; 3us *subundatus, obliquus, angulum acutum fingens*; 4us *ferè rectus, obliquus, angulum acutum fingens, 3o brevior.*

Second marginal areolet longer than the first: first cross-vein slightly curved, upright, forming a very slightly obtuse angle, parted from the second by much less than twice its length; second very slightly curved, almost upright, forming a slightly obtuse angle, a little longer than the first; third slightly waved, slanting, forming an acute angle; fourth nearly straight, slanting, forming an acute angle, shorter than the third; fifth indistinctly curved, nearly upright, forming an almost right angle. In the left wing of the insect described the third and fourth marginal areolets are united, the vein between them being wanting. Body tawny: head a little narrower than the fore-chest, adorned above with a broad, slightly interrupted black band; face convex, with a row of black bands on each side: eyes not prominent; mouth tawny, pitchy towards the tip, reaching the hind-hips: fore-chest narrower in front, partly black above, adorned in the middle with a short broad yellow stripe; hind-scutcheon narrow above, much broader and slightly angular on each side: middle-chest mostly occupied by four very broad black stripes, the side pair much longer than the middle pair and adorned with tawny streaks; hind border hardly excavated: abdomen obconical, very little longer than the chest, mostly pitchy above: legs tawny; fore-thighs armed with three rather long teeth: wings colourless; veins tawny, black towards the tips; first and second cross-veins clouded with brown; fore-flaps tawny; tips of hind-flaps brown. Length of the body 8 lines; of the wings 22 lines.

γ. ——— ?

159. *CICADA TRUNCATELLA*, Mas.

*Nervus transversus* 1us *rectus, subobliquus, angulum subobtusum fingens, 2o plus quadruplò ejus longitudine divisus*; 2us *subcurvus, erectus, angulum subobtusum fingens, 1o paullò longior*; 3us *ferè rectus, subobliquus, angulum subacutum fingens*; 4us *ferè rectus, subobliquus, angulum ferè rectum fingens, 3o paullò longior.*

Second marginal areolet full three-fourths of the length of the first: first cross-vein straight, slightly slanting, forming a very

slightly obtuse angle, parted from the second by more than four times its length; second very slightly curved, upright, forming a slightly obtuse angle, a very little longer than the first; third nearly straight, slightly slanting, forming a very slightly acute angle; fourth almost straight, slightly slanting, forming a nearly right angle, a little longer than the third; fifth nearly straight, almost upright, forming a very slightly obtuse angle. The first discoidal areolet is very short and the third is very large. Body pale tawny: head as broad as the fore-chest; two black stripes united in front on the crown across the eyelets; a black band in front; face very slightly convex, not at all prominent, adorned with a black stripe in front: mouth tawny with a black tip, reaching the hind-hips: feelers tawny at the base: eyes rather prominent: fore-chest rather short, not narrower in front than behind; scutcheon ferruginous above with the exception of a pale tawny middle stripe; hind-scutcheon tawny, very narrow, rather broader and forming an obtuse angle at the base of each fore-wing, nearly straight on each side: scutcheon of the middle-chest adorned with four ferruginous stripes; middle pair shorter and narrower than the outer pair: hind border not excavated: abdomen obconical, pitchy, a little shorter than the chest, tawny towards the base: opercula none; tymbals pale tawny; drums pale tawny, of moderate size, not apart, less than half the length of the abdomen: legs pale tawny; tips of the claws black; fore-thighs armed with three tawny teeth, two of moderate size, the third very small: wings with a very indistinct tawny tinge; tips of the forewings tawny; fore border tawny as far as the brand, very convex near the base; veins tawny, black towards the tips: fore-flaps dingy buff; hind-flaps colourless, pale brown for a space along the hind border from the base. Length of the body  $6\frac{1}{2}$  lines; of the wings 19 lines.

a. ——— ?

#### 160. CICADA ANGEA, Mas.

*Nervus transversus* 1us ferè rectus, erectus, angulum subobtusum fingens, 2o duplò ejus longitudine divisus; 2us rectus, obliquus, angulum obtusum fingens, 1i longitudine; 3us subundatus, obliquus, angulum acutum fingens; 4us subundatus, obliquus, angulum subacutum fingens, 3o multò longior.

Second marginal areolet as long as the first: first cross-vein almost straight, upright, forming a slightly obtuse angle, parted from the second by twice its length; second straight, slanting, forming an obtuse angle, as long as the first; third slightly waved,

slanting, forming an acute angle; fourth very slightly waved, slanting, forming a slightly acute angle, much shorter than the third; fifth very slightly curved, slightly slanting, forming a very slightly acute angle. The specimen described may be immature. Body tawny, clothed with pale hairs: head nearly as broad as the fore-chest, adorned with a tawny spot between the eyelets and with a yellow spot on each side of the face; the latter ferruginous, slightly convex, not at all prominent: mouth tawny with a black tip, reaching the middle-hips: eyes not prominent: feelers tawny, pitchy at the base: fore-chest ferruginous, very little narrower in front than behind; scutcheon adorned with a slender tawny stripe, which tapers from the fore border to the hind border; two tawny spots on the hind border; hind-scutcheon pitchy, very narrow in the middle but much widened above the base of each fore-wing, slightly excavated on each side: scutcheon of the middle-chest adorned with four obconical pitchy stripes, the outer pair veined with tawny, the inner pair much shorter, yellow at the base, succeeded by a large pitchy spot which sends forth a fork on each side towards the cross-ridge: abdomen obconical, a little longer than the chest, ferruginous, with a pitchy stripe on the back: opercula extremely small; tymbals pale tawny; drums pale yellow, of moderate size, slightly overlapping: legs pale tawny; feet and fore-legs darker; claws pitchy towards the tips; fore-thighs armed with three tawny teeth with black tips: wings colourless; fore border and veins very pale tawny, darker towards the tips: fore-flaps pale tawny; hind-flaps pale tawny along part of the hind border. Length of the body 7 lines; of the wings  $19\frac{1}{2}$  lines.

a. North Bengal. From Miss Campbell's collection.

#### 161. CICADA COMPLEX, Mas.

*Nervus transversus* 1us *rectus*, *ferè erectus*, *angulum subobtusum* *figens*, 2o *ferè duplò ejus longitudine divisus*; 2us *subcurvus*, *ferè erectus*, *angulum ferè rectum* *figens*, 1o *longior*; 3us *vix curvus*, *obliquus*, *angulum acutum* *figens*; 4us *rectus*, *perobliquus*, *angulum ferè rectum* *figens*, 3i *longitudine*.

Second marginal areolet much longer than the first: first cross-vein straight, nearly upright, forming a slightly obtuse angle, parted from the second by nearly twice its length; second very slightly curved, nearly upright, forming an almost right angle, longer than the first: third hardly curved, slanting, forming an acute angle; fourth straight, extremely slanting, almost level, forming a nearly right angle, as long as the third; fifth curved, upright, forming a very slightly acute angle. In some of the smaller *Cicadae* the front



areolet is very long, which character may be used for sections and is most developed in this species, the fore borders of whose wings are very convex; the first and second marginal areolets are very short, and in the left wing of the insect described the latter is divided by a cross-vein. Body tawny, paler beneath: head a little narrower than the fore-chest, black above; a tawny spot on the region of the eyelets, and another on each side of the face which is convex but not prominent, and has a slender tawny stripe above and a broad black stripe in front: mouth tawny with a black tip, reaching the middle-hips: feelers black, stout: eyes rather prominent: fore-chest rather narrower before than behind; scutcheon adorned with two black stripes which are widened towards the borders, and with two short pitchy stripes which are more outward; furrows pitchy: hind-scutcheon narrow, rather narrower on each side where the fore border is black, extending very little beyond the scutcheon: disk of the scutcheon of the middle-chest black, adorned with two hardly oblique tawny stripes which widen towards the hind border, the latter is not excavated: abdomen obconical, longer but not narrower than the chest, adorned above with a black stripe which tapers from the base to the tip and is interrupted near the latter: a row of black spots on each side: opercula very small; tymbals white; drums pale yellow, of moderate size, less than one-fourth of the length of the body, parted by a narrow interval: legs yellow: tips of the feet and of the claws pitchy; fore-thighs adorned with three long tawny teeth; fore-shanks dark tawny: wings colourless; veins tawny, black towards the tips; fore border yellow, somewhat convex, widened near the brand; it is there slightly notched and very narrow, but again widens towards the tip: fore-membranes pale yellow: flaps colourless; the first areolet is very short, and in the specimen described is divided longitudinally into two areolets, the upper of which in the left wing is again divided across by a little vein. Length of the body 5 lines; of the wings 13 lines.

a. ——— ?

#### 162. CICADA ACRIDA, Fem.

*Nervus transversus* 1us ferè rectus, erectus, angulum subobtusum fingens, 2o plus triplò ejus longitudine divisus; 2us ferè rectus, erectus, angulum subobtusum fingens, 1 multò longior; 3us ferè rectus, obliquus, angulum acutum fingens; 4us rix curvus, subobliquus, angulum ferè rectum fingens, 3o paullò longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein almost straight, upright, forming a slightly

obtuse angle, parted from the second by more than thrice its length ; second almost straight, upright, forming a slightly obtuse angle, much longer than the first ; third almost straight, slanting, forming an acute angle ; fourth hardly curved, forming a nearly right angle, less slanting and a little longer than the third ; fifth very slightly curved, nearly upright, forming a hardly obtuse angle. In the right wing of an insect of this species the third marginal areolet is divided by an additional cross-vein. Body green : head narrower than the fore-chest ; face convex : mouth tawny : eyes not prominent : feelers black, tawny at the base : hind border of the scutcheon of the middle-chest hardly excavated : abdomen obconical, much longer than the fore-chest : oviduct ferruginous : legs green ; feet and fore-shanks tawny ; shanks tinged with tawny ; claws tawny with black tips ; fore-thighs armed with four tawny teeth whose tips are black, three of moderate size, the second combined with two very little teeth, the fourth small : wings colourless ; wing-ribs and veins tawny. Length of the body 6 lines ; of the wings 18 lines.

*a.* Cape. From M. Dregé's collection.

### 163. CICADA AETHLIUS, Mas.

*Nervus transversus 1us ferè rectus, obliquus, angulum valdè obtusum fingens, 2o ferè duplò ejus longitudine divisus ; 2us rectus, subobliquus, angulum obtusum fingens, 1i dimidio vix longior ; 3us rectus, subobliquus, angulum vix obtusum fingens ; 4us subcurvus, subobliquus, angulum ferè rectum fingens, 3o multò brevior.*

First cross-vein almost straight, slanting, forming a very obtuse angle, parted from the second by a little less than twice its length ; second straight, slightly slanting, forming an obtuse angle, not much more than half the length of the first ; third straight, slightly slanting, forming a hardly obtuse angle ; fourth very slightly curved, slightly slanting, forming a nearly right angle, much longer than the third ; fifth curved, slightly slanting, forming a nearly right angle. In the right wing of the insect described the second marginal areolet is divided by an additional longitudinal vein, and in the left wing the first marginal areolet is divided by an additional cross-vein. Body and legs tawny : wings colourless ; veins pale tawny. Length of the body 5 lines ; of the wings 12 lines.

*a.* Cape. From M. Dregé's collection.

## 164. CICADA FUSIFORMIS, Mas.

*Nervus transversus* 1us ferè rectus, subobliquus, angulum rectum fingens, 2o ferè duplò ejus longitudine divisus; 2us vix curvus, erectus, angulum obtusum fingens, 1o multò brevior; 3us vix undatus, subobliquus, angulum vix acutum fingens; 4us vix undatus, obliquus, angulum acutum fingens, 3o paullò brevior.

Second marginal areolet much longer than the first: first cross-vein almost straight, slightly slanting, forming a right angle, parted from the second vein by a little less than twice its length; second hardly curved, upright, forming an obtuse angle, much shorter than the first; third hardly waved, slightly slanting, forming a hardly acute angle; fourth hardly waved, slanting, forming an acute angle, a little shorter than the third; fifth curved, slightly slanting, forming an acute angle. Body tawny, clothed with tawny hairs, slightly tinged with ferruginous on the back: head very small, little more than half the breadth of the fore-chest; crown black with the exception of a pale tawny spot at the base of each feeler; face very convex, rather prominent, adorned with a black band on each side in front: mouth tawny with a pitchy tip, reaching the middle-hips: eyes rather prominent: feelers pitchy, tawny at the base and at the tips: fore-chest much narrower before than behind; scutcheon adorned with a black middle stripe, and on each side with a large black spot; hind-scutcheon very much widened at the base of each fore-wing, slightly excavated on each side: scutcheon of the middle-chest adorned with four obconical black stripes, the inner pair about half the length of the outer pair, forming a semicircle; hind border hardly excavated: abdomen oval, longer and broader than the chest, black above at the base, adorned with a row of pitchy dots, tapering towards the tip: opercula none: tymbals tawny: drums pale tawny, very small, rather far apart: legs pale tawny: feet and fore-shanks darker tawny; tips of the claws pitchy; fore-thighs armed with two long teeth: wings colourless; fore border and veins tawny; a yellow band on the brand which is pitchy; fore-flaps pale tawny; hind-flaps pale tawny at the base and along part of the fore border. Length of the body 7 lines; of the wings 17 lines.

a. ——— ?

## 165. CICADA CALLIOPE, Mas.

*Nervus transversus 1us rectus, subobliquus, angulum obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us rectus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us vix curvus, obliquus, angulum vix acutum fingens; 4us subcurvus, angulum subacutum fingens, 3o obliquior et paullo brevior.*

Second marginal areolet nearly as long as the first: first cross-vein straight, slightly slanting, forming an obtuse angle, parted from the second by full four times its length; second straight, slightly slanting, forming an obtuse angle, very much shorter than the first; third hardly curved, slanting, forming a hardly acute angle; fourth very slightly curved, forming a slightly acute angle, more slanting and a little shorter than the third; fifth curved, upright, forming a nearly right angle. Body pale ferruginous: head as broad as the fore-chest; face slightly convex, not at all prominent, adorned with a tawny stripe; crown pitchy: mouth ferruginous with a black tip, reaching the middle-hips: eyes not prominent: feelers tawny, pitchy towards the base: fore-chest not narrower before than behind; scutcheon adorned with two parallel pitchy stripes, its sides and the furrows also pitchy; hind-scutcheon rather narrow above, much broader and rounded at the base of each fore-wing, convex on the middle of each side: scutcheon of the middle-chest adorned with three broad black stripes; the side pair slightly obconical and oblique; hind border hardly excavated: abdomen obconical, very little longer than the chest, paler beneath, adorned with three rows of pitchy spots, which are much larger and more distinct on each side than in the middle; hind borders of the segments pale tawny; opercula none; tymbals small, grayish; drums tawny, small, parted by a broad interval: legs ferruginous; hips and thighs adorned with pitchy stripes; feet tawny with pitchy tips; tips of the claws black; fore-thighs armed with three long black teeth: wings colourless; fore border ferruginous; veins ferruginous, black towards the tips; fore membranes tawny; flaps tinged with brown at the tips, buff at the base and along the middle vein. Length of the body 6 lines; of the wings 17 lines.

*a.* Warm Springs, N. Carolina. Presented by E. Doubleday, Esq.

166. *CICADA NERVOSA*, Mas.

*Nervus transversus* 1us rectus, subobliquus, angulum subobtusum fingens, 2o triplo ejus longitudine divisus; 2us subcurvus, erectus, angulum obtusum fingens, 1o paullo longior; 3us subcurvus, obliquus, angulum rectum fingens; 4us ferè rectus, obliquus, angulum rectum fingens, 3o paullo brevior.

Second marginal areolet much longer than the first: first cross-vein straight, slightly slanting, forming a slightly obtuse angle, parted from the second by full thrice its length; second very slightly curved, upright, forming an obtuse angle, a little longer than the first; third very slightly curved, slanting, forming a right angle; fourth nearly straight, slanting, forming a right angle, a little shorter than the third; fifth very slightly curved, upright, forming a very slightly obtuse angle. Body black, partly clothed with white down: breast and under side of the head pale tawny: head nearly as broad as the fore-chest, adorned with a yellow interrupted middle stripe, and on each side above the base of the feelers with two connected greenish spots; face convex, not prominent, adorned above with a pale tawny stripe, and with a broader and paler stripe in front: mouth pitchy with a black tip, reaching the middle-hips: eyes not prominent: feelers black: scutcheon of the fore-chest adorned with a slender pale tawny middle stripe, and on each side with three irregular interrupted oblique ferruginous stripes; hind-scutcheon narrow, greenish yellow, broader, partly pitchy, forming a slightly obtuse angle and extending beyond the scutcheon at the base of each fore-wing: scutcheon of the middle-chest adorned with two tawny stripes which are widened in the middle and curved behind, where they are united on the tawny cross-ridge; sides and hind border mostly tawny, the latter slightly excavated: abdomen obconical, a little longer and narrower than the chest; hind borders of the segments green; a tawny stripe beneath on each side towards the base: horn of the tip conspicuous; opercula none; tymbals whitish; drums very small, pale tawny, parted by a moderate interval; legs yellow; thighs and shanks streaked with black; feet black with yellow bands; fore-thighs armed with three black teeth, whose hind parts are ferruginous, two very large, one of moderate size: wings colourless; fore border dark tawny; veins black, pale tawny towards the base; fore-flaps tawny; hind-flaps whitish at the base and along the veins.

Length of the body 7 lines; of the wings 17 lines.

*Var. β.* Stripes of the middle-chest interrupted: fore-feet and middle-feet black; fore border of the wings pitchy.

*a, b.* New Zealand. Presented by Dr. Sinclair.

167. *CICADA OBLIQUA*, Mas.

*Nervus transversus* 1us ferè rectus, perobliquus, angulum non fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, perobliquus, angulum non fingens, 1o paullò longior; 3us subundatus, subobliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum acutum fingens, 3o paullò brevior.

Second marginal areolet much longer than the first: first cross-vein nearly straight, extremely slanting, not forming an angle, parted from the second by much more than twice its length; second nearly straight, extremely slanting, not forming an angle, a little longer than the first; third slightly waved, slightly slanting, forming a very slightly acute angle; fourth slightly curved, slanting, forming an acute angle, a little shorter than the third; fifth slightly curved, upright, forming a nearly right angle. Body black above, ferruginous and covered with white powder beneath: head narrower than the fore-chest, adorned with a ferruginous spot in front on each side of the face; the latter is slightly convex and not at all prominent; its sides and the fore border in front are ferruginous: mouth ferruginous, black at the base and at the tip, reaching the middle-hips: feelers black: eyes not prominent: fore-chest narrower in front than behind; scutcheon red along the fore border, adorned with seven red stripes, the middle one slender, the inmost pair curved, the next pair oblique, the outer pair very oblique; hind-scutcheon red, narrow in the middle, rounded, partly black and much widened above the base of each fore-wing, slightly excavated on each side: scutcheon of the middle-chest adorned with four slender slightly oblique red stripes; sides, cross-ridge, and hind border mostly red, the latter not excavated: abdomen obconical, longer than the chest; hind borders of the segments, horn and the tip red: drums small, pale red, rather far apart: legs red; thighs, shanks and fore-hips streaked with black; claws black, red at the base; fore-thighs armed with two long black teeth; fore-feet and middle-feet black, the latter red at the base; tips of hind-feet pitchy: wings colourless; fore border tawny as far as the brand, pitchy from thence towards the tip; veins tawny, black towards the tips; cross-veins from the first to the fourth and the adjoining parts of the longitudinal veins between the second cross-vein and the fore border clouded with dark brown; a brown spot on the tip of the lower vein of the sixth marginal areolet. Length of the body 9 lines; of the wings 22 lines.

a. South Africa. Presented by Dr. A. Smith.

## 168. CICADA AURATA, Mas et Fem.

*Nervus transversus* 1us subcurvus, obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus obliquus, angulum valdè obtusum fingens, 1o longior; 3us subcurvus, subobliquus, angulum rix obtusum fingens; 4us subcurvus, obliquus, angulum ferè rectum fingens, 3o longior.

Second marginal areolet a little longer than the first: first cross-vein very slightly curved, oblique, forming a very obtuse angle, parted from the second by much more than twice its length; second slightly curved, oblique, forming a very obtuse angle, longer than the first; third very slightly curved, slightly oblique, forming a hardly obtuse angle; fourth very slightly curved, oblique, forming a nearly right angle, longer than the third; fifth very slightly curved, nearly upright, forming a nearly right angle.

*Male*.—Body black, thickly clothed with tawny hairs, pale tawny beneath: head a little narrower than the fore-chest, adorned with a tawny band in front; three tawny spots about the region of the eyelets; face tawny, very convex, its disk black; mouth pale tawny with a black tip, reaching the middle-hips: eyes very prominent: feelers black: scutcheon of the fore-chest adorned with tawny borders and with a short tawny stripe, behind which are two triangular tawny spots resting on the hind border; hind-scutcheon tawny, very narrow in the middle, much widened near the base of each fore-wing, armed with a tooth on each side: scutcheon of the middle-chest adorned with two tawny stripes whose middle parts are much widened; hind border tawny, very slightly excavated: abdomen velvety black, obconical, longer than the chest, adorned with patches of golden hairs; opercula none; tymbals tawny, rather large; drums pale tawny, small, wide apart; tip tawny, armed with a tawny horn: legs yellow; thighs striped with black; tips of the shanks and of the feet black; claws black, tawny at the base; fore-thighs armed with three stout black teeth; fore-shanks mostly black: wings quite colourless, pale buff and marked with buff at the base; fore border bright rose red, darker towards the tips, black on the brand; veins of the fore-wings tawny, black towards the tips; first and second cross-veins and the longitudinal vein between them clouded with black; veins of the hind-wings pale tawny with black tips; tips of the flaps clouded with brown. In the left wings of the two insects there is a little additional vein which divides the sixth marginal areolet between the third and fourth cross-veins.

*Fem.*—Abdomen a little longer and more pointed than that of the male.

Length of the body 7—8 lines; of the wings 18—20 lines.

*a—c.* From Dr. Hooker's collection.

### 169. CICADA HOTTENTOTTA?

*Cicada Hottentotta?* *Oliv. Enc. Mèth.* v. 758, 58, pl. 113, f. 14.  
*Stoll, Cic.* 94, pl. 25, f. 137.

*Nervus transversus 1us rectus, subobliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior; 3us rectus, obliquus, angulum rectum fingens; 4us ferè rectus, valdè obliquus, angulum acutum fingens, 3o multò longior.*

Second marginal areolet about three-fourths of the length of the first: first cross-vein straight, very slightly slanting, forming an obtuse angle, parted from the second by more than twice its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third straight, slanting, forming a right angle; fourth nearly straight, very slanting, forming an acute angle, much longer than the third; fifth curved, upright, forming a hardly acute angle. Body black above, tawny beneath: head rather short, hardly narrower than the fore-chest; a tawny dot behind the eyelets and another on the face which is slightly convex and has two tawny spots on each side, and two tawny stripes in front: mouth ferruginous with a black tip, reaching the middle-hips: eyes not prominent: a short slender tawny streak on the disk of the fore-chest which has two small tawny spots on each side, and is hardly narrower in front than behind; hind-scutcheon short, slightly streaked with tawny near each side where it is rounded on approaching the base of the fore-wings, and extends beyond the scutcheon whose sides are slightly convex: sides and hind border of the scutcheon of the middle-chest mostly tawny; excavation on the hind border almost obsolete: abdomen obconical, much longer than the chest; sutures of the segments tawny; along each side an irregular row of tawny spots which are largest at the tip; disk of the base black beneath: opercula none; tymbals whitish; drums yellow, very small, parted beneath by a broad interval: legs tawny; thighs streaked with brown; feet and tips of the shanks brown; a tawny band on each of the four hinder feet; claws tawny with pitchy tips; fore-thighs armed with three very large teeth: wings slightly tinged with tawny, clouded more or less with brown



which is disposed in four very large patches; one at the tip of each wing, but not extending beyond the veins; the third extending along the fore border on half the breadth of the wing from the base; the fourth at the base of each hind-wing is smaller, paler, or sometimes obsolete; veins tawny, darker towards the tips; fore-flaps pale buff; hind-flaps pale buff towards the base. Length of the body  $8\frac{1}{2}$  lines; of the wings 20 lines.

*Var. β.* A broad tawny stripe along each side of the abdomen from the second segment to the tip.

*a. Natal.* From Dr. Krauss' collection.

*b. ——— ?*

#### 170. CICADA AURORA, Mas.

*Nervus transversus 1us perobliquus, subcurvus, angulum perobtusum fingens, 2o plus duplo ejus longitudine divisus; 2us ferè rectus, perobliquus, angulum rix fingens, li longitudine; 3us undatus, obliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3i longitudine.*

Second marginal areolet a little longer than the first: first cross-vein extremely slanting, very slightly curved, forming an extremely obtuse angle, parted from the second by much more than twice its length; second nearly straight, extremely slanting, forming a hardly perceptible angle, as long as the first; third waved, slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, as long as the third; fifth slightly curved, nearly upright, forming a slightly acute angle. Body black, rather short: head much narrower than the fore-chest, adorned with a large pale tawny spot on each side of the face which is slightly convex and not prominent: mouth black, tawny at the base, reaching the middle-hips: feelers black: eyes not prominent: fore-chest narrower in front than behind; scutcheon adorned with a pale tawny fore border, and on the disk with a pale tawny stripe; hind-scutcheon pale tawny, with an angular black mark in the middle of its fore border, narrow above, broader at the base of each fore-wing and much exceeding the breadth of the scutcheon: sides and hind border of the scutcheon of the middle-chest mostly tawny; excavation of the hind border almost obsolete; two irregularly triangular tawny spots on the disk: breast tawny; disks of the segments black: abdomen obconical, a little longer than the chest; tip tawny; hind borders of the segments adorned with reddish tawny bands, which are narrow and interrupted towards the base where they quite cease; under side pale tawny with a narrow black stripe: opercula none;

tymbals gray; drums pale tawny, rather small, wide apart: legs black; hips and thighs adorned with tawny stripes; knees and hind-shanks tawny; shanks red at the base; fore-thighs armed with two stout teeth; hind-feet tawny with black tips: fore-wings dark reddish tawny from the base to the cross-veins, nearly colourless from thence to the tips; cross-veins clouded with brown; a row of brown spots along the tips of the longitudinal veins of the marginal areolets; veins black, adorned as far as the cross-veins with numerous little tawny bands; hind-wings bright red as far as the cross-veins which are clouded with black, colourless from thence to the borders which are adorned with opaline lustre; veins black, adorned here and there with tawny bands; flaps bright red.

*Fem.*—Abdomen more obconical and a little shorter than that of the male; bands tawny, less interrupted: legs tawny; hips and thighs slightly striped with black; fore-shanks and middle-shanks very slightly striped with black; feet black: fore-wings colourless, brownish-tawny towards the base; cross-veins clouded with pale brown; a row of pale brown spots at the tips of the longitudinal veins of the marginal areolets; hind-wings red nearly as far as the cross-veins which are clouded with brown, colourless thence to the tips; flaps bright red.

Length of the body 11 lines; of the wings 27 lines.

*a, b.* South Africa. Presented by Dr. A. Smith.

#### 171. CICADA PRIMITIVA, Mas.

*Nerrus transversus* 1us *subcurvus*, *perobliquus*, *angulum perobtusum* *figens*, 2o *triplò ejus longitudine divisus*; 2us *subcurvus*, *perobliquus*, *angulum non figens*, 1o *paullò brevior*; 3us *subundatus*, *obliquus*, *angulum acutum figens*; 4us *valdè curvus*, *ferè erectus*, *angulum rectum figens*, 3o *paullò brevior*.

Second marginal areolet a little longer than the first: first cross-vein slightly curved, extremely slanting, forming an extremely obtuse angle, parted from the second by full thrice its length; second very slightly curved, so extremely slanting that it does not form the usual angle, a little shorter than the first; third slightly waved, slanting, forming an acute angle; fourth much curved, nearly upright, forming a right angle, a little shorter than the third; fifth curved, nearly upright, forming a hardly acute angle. Body black, pale red beneath: head red, narrower than the fore-chest; a broad black band across the crown; three red spots along the hind border; face very slightly convex: mouth red with a black tip reaching the mid-

dle-hips : eyes prominent : feelers black : scutcheon of the fore-chest not narrower before than behind, adorned with a red border and with five red stripes on the disk, the middle one diamond-shaped, the inner pair interrupted, not so oblique as the outer pair which occupy the furrows ; hind-scutcheon red, narrow above, wider and extending much beyond the scutcheon at the base of each fore-wing, abruptly narrower on each side : scutcheon of the middle-chest adorned with four red oblique stripes, of these the outer pair are much shorter than the inner pair which are nearer the fore border : sides, cross-ridge and hind border red ; excavation of the hind border almost obsolete : abdomen obconical, longer than the chest ; sutures of the segments and tip red : opercula none ; tymbals whitish with red borders ; drums small, pale red, wide apart : legs red ; thighs very slightly striped with black ; claws black, red at the base ; fore-hips striped with black ; fore-thighs armed with two stout teeth whose tips are black ; fore-feet pitchy : wings colourless, pale red at the base ; primitive areolet adorned with a pale tawny tinge, its sides clouded with brown ; cross-veins, the space between the second and the fore border, and the longitudinal vein between the fourth and the hind border clouded with brown ; a brown spot on the tips of the longitudinal veins of the fourth and fifth marginal areolets : veins pale tawny, darker towards the tips, red at the base : fore-flaps bright red ; hind-flaps pale red at the base, pale brown along the fore border. Length of the body 10 lines ; of the wings 25 lines.

a. South Africa. Presented by Dr. A. Smith.

#### 172. CICADA MONILIFERA, Mas.

*Nervus transversus* 1us subcurvus, perobliquus, angulum perobtusum fingens, 2o plus duplò ejus longitudine divisus ; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1i longitudine ; 3us subcurvus, obliquus, angulum rectum fingens ; 4us subcurvus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet a little longer than the first : first cross-vein very slightly curved, extremely slanting, forming an extremely obtuse angle, parted from the second by very much more than twice its length ; second slightly curved, very slanting, forming an extremely obtuse angle, as long as the first ; third slightly curved, slanting, forming a right angle ; fourth very slightly curved, slanting, forming an acute angle, much longer than the third ; fifth slightly curved, very slightly slanting, forming a nearly right angle. Body black, rather narrow, tawny beneath ; head a little narrower

than the fore-chest, adorned with three tawny spots along the hind border of the crown and with a tawny spot on each side of the face which is very slightly convex and not prominent: mouth tawny with a black tip reaching the middle-hips: feelers black: eyes not prominent: fore-chest narrower in front than behind; scutcheon bordered with tawny and adorned with three tawny stripes of which the side pair are oblique and have two tawny marks between each of them and the middle one, and one tawny mark between each and the side border; hind-scutcheon tawny, narrow in the middle, widened, mostly black and extending beyond the scutcheon at the base of each fore-wing, straight on each side: sides and hind border of the scutcheon of the middle-chest mostly tawny; three irregular tawny stripes on the disk; hind border not excavated: abdomen obconical, longer than the chest, adorned with a square-shaped white spot on each side of the second segment: opercula none; tymbals dark ferruginous with hoary furrows; drums pale tawny, very small, the breadth of each one equal to the space between them: legs tawny, clothed with pale tawny hairs; hips, thighs and fore-shanks striped with black; fore-feet and tips of the other feet black; claws tawny with black tips; fore-thighs armed with two stout tawny teeth which are black at the base and at the tips: wings colourless; brands rather large; first and second cross-veins and the spaces between them and between the first and the fore border clouded with brown; veins tawny, adorned with very numerous black bands; fore-flaps pale buff; hind-flaps pale buff towards the hind border. Length of the body 13 lines; of the wings 24 lines.

a. South Africa. Presented by Dr. A. Smith.

### 173. CICADA ROSEA, Mas.

*Nervus transversus* 1us rectus, ferè erectus, angulum obtusum fingens, 2o sexties ejus longitudine divisus; 2us subcurvus, sub-obliquus, angulum obtusum fingens, 1o multò longior; 3us ferè rectus, obliquus, angulum rectum fingens; 4us subcurvus, valdè obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein straight, nearly upright, forming an obtuse angle, parted from the second by six times its length; second slightly curved, slightly slanting, forming an obtuse angle, very much longer than the first; third almost straight, slanting, forming a right angle; fourth slightly curved, very slanting, forming an acute angle, very much longer than the third; fifth very slightly curved, upright, forming a right angle. Body tawny with a reddish tinge: head

small, narrower than the fore-chest, black on the crown; face convex, not prominent, with a slender black band above and a large black mark in front: eyes prominent: mouth tawny with a black tip, reaching the middle-hips: feelers black, stout: fore-chest adorned with a bright yellow middle stripe, and having on each side two black oblique stripes; the inner pair forked; a black border on each side: hind-scutcheon rather narrow, its sides slightly convex before and behind but somewhat notched on the middle part: scutcheon of the middle-chest adorned with three very large obconical black marks, the middle one much shorter and broader than the side pair; behind these are four black spots, and on each side an oblique black stripe; excavation of the hind border very slight: abdomen obconical, a little longer than the chest, black above; tip tawny, armed above with a stout spine; hind borders of the segments red: a row of tawny spots along each side: opercula none; tymbals white; drums pale tawny, rather small: legs tawny; thighs and fore-shanks streaked with black; tips of the four hinder shanks pitchy; tips of the claws black; fore-thighs armed with three black teeth: wings colourless, fawn-colour at the base, rosy red along half the length of the fore border, which from thence till near the disk is pale brown with a dark red disk; veins tawny, black towards the tips; flaps colourless, fawn-colour towards the base, pale brown along the fore borders. Length of the body 8—9 lines; of the wings 22—24 lines.

*a, b.* New Zealand. From Mr. Earl's collection.

#### 174. *CICADA NEBULOSA.*

*Cicada nebulosa*, *Oliv. Enc. Méth.* v. 752, 25, pl. 112, f. 6. *Stoll, Cic.* 28, pl. 4, f. 17.

#### 175. *CICADA MACULIPENNIS.*

*Cicada maculipennis*, *De Lap. Ann. Soc. Ent. Fr.* i. 412, 47. *Germ. Silb. Rev. Ent.* ii. 72, 38.

*Cicada versicolor*, *Brullé, Hist. Nat. Hémi* ii. pl. 5, f. 1.

*Cicada sumptuosa*, *Blanch. Hist. Nat. Ins.* iii. 165, 4.

*Var. Cicada semicosta*, *Germ.*

*Var. Cicada diaphana*, *Germ.*

*Hemisciera maculipennis*, *Amyot et Serr. Hist. Nat. Hémi.* 467, 1.

*a.* South Africa. Presented by Dr. A. Smith.

*b—f.* Cape. From Mr. Dregé's collection.

*g.—i.* Cape.

## 176. CICADA SUBVITTA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum subacutum fingens, 2o plus ejus longitudine divisus; 2us subcurvus, subobliquus, angulum subobtusum fingens, 1o paullo longior; 3us subcurvus, subobliquus, angulum subacutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet a little longer than the first: first cross-vein very slightly curved, very slightly slanting, forming a slightly acute angle, parted from the second by much less than twice its length; second very slightly curved, slightly slanting, forming a slightly obtuse angle, a little longer than the first; third slightly curved, slightly slanting, forming a slightly acute angle; fourth slightly curved, slanting, forming a slightly acute angle, longer than the third; fifth nearly straight, very slightly slanting, forming a right angle. Body black, almost hairless: head narrower than the fore-chest; a small tawny spot on the crown between the eyelets and the hind border; face very convex, rather prominent: mouth black, reaching the middle-hips: eyes rather prominent: feelers black, stout: fore-chest rather narrower in front than behind; scutcheon adorned with a slender tawny stripe which extends from the fore border to the hind border; hind-scutcheon very narrow in the middle, slightly angular and much widened by the base of each fore-wing, nearly straight on each side: hind border of the scutcheon of the middle-chest not excavated: abdomen pitchy, obconical, a little longer than the chest, ferruginous at the tip; under side ferruginous, tawny towards the tip: opercula none; tymbals large, pale brown; drums tawny, very small, widely apart: legs black; thighs striped with red; claws and hind-feet tawny; fore-thighs armed with three tawny teeth, of these one is very long and two are of moderate size; hind-shanks tawny towards the tips: wings colourless, whitish and tinged with red at the base; veins pale tawny, black towards the tips; primitive areolet and adjoining veins clouded with brown; fore-wings adorned with two oblique dark brown bands, the first interrupted, the second occupying the cross-veins but not reaching the hind border; a small dark brown spot on the tip of the fore border; a row of pale brown spots occupy the tips of the veins of the submarginal areolets; fore membranes whitish: hind-wings adorned with a broad interrupted oblique brown band which here and there communicates with the base along the borders of the veins; flaps colourless, brown along the fore border and towards the base where they are whitish; veins tawny, black towards the tips. Length of the body  $7\frac{1}{2}$  lines; of the wings 18 lines.

a. North India. From Mr. Warwick's collection.

## 177. CICADA COLEOPTRATA, Mas.

*Nervus transversus* 1us rectus, obliquus, angulum obtusum fingens, 2o paullo plus duplo ejus longitudine divisus; 2us subcurvus, valde obliquus, angulum perobtusum fingens, 1o multo longior; 3us curvus, obliquus, angulum rectum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet a little longer than the first; first cross-vein straight, slanting, forming an obtuse angle, parted from the second by a little more than twice its length; second slightly curved, very slanting, forming an extremely obtuse angle, much longer than the first; third curved, slanting, forming a right angle; fourth slightly curved, slanting, forming a slightly acute angle, longer than the third; fifth nearly straight, upright, forming a hardly obtuse angle. Body black, dull, almost hairless: head nearly as broad as the fore-chest: a very slight tawny mark on the crown, extending from the hind border to the eyelets: face prominent, very convex: mouth tawny with a black tip, reaching the middle-hips: eyes prominent: feelers black: fore-chest hardly narrower in front than behind; scutcheon adorned with a slender tawny stripe which disappears before the hind border, and with a narrow tawny border; hind-scutcheon tawny, narrow above, a little widened and forming a slightly obtuse angle near the base of the fore-wing where it is black and extends beyond the scutcheon: sides, cross-ridge and hind border tawny, the latter hardly excavated: abdomen nearly elliptical, slightly ridged on the back, somewhat longer than the chest; under side pale tawny with the exception of a broad black stripe which does not reach the hind border: opercula none; tymbals tawny with a hoary tinge; drums pale tawny, black towards the base, rather small, some distance apart: legs tawny; thighs mostly black with tawny stripes: shanks black at the base and towards the tips; claws and tips of the feet pitchy: fore-hips black with tawny stripes; the other hips black with tawny tips; fore-thighs armed with four black teeth, two of which are large, and two small and close together: fore-wings clouded with very pale brown, almost colourless here and there along the fore border; a very slender brown band across the middle; first and second cross-veins and the space between them clouded with very dark brown; veins and fore membranes pale tawny, the former darker towards the tips; hind-wings colourless, very slightly tinged with brown towards the base; veins yellow; flaps colourless, whitish at the base and along part of the fore border. Length of the body 8 lines; of the wings 17 lines.

*a* ——— ? From Mr. Shuckard's collection.

## 178. CICADA GRACILIS, Fem.

*Nervus transversus* 1us *subcurvus*, *subobliquus*, *angulum rectum* *tingens*, 2o *quadruplò ejus longitudine divisus*; 2us *rectus*, *subobliquus*, *angulum obtusum* *tingens*, 1o *multò brevior*; 3us *subcurvus*, *subobliquus*, *angulum rectum* *tingens*; 4us *subcurvus*, *subobliquus*, *angulum subacutum* *tingens*, 3o *multò longior*.

Second marginal areolet longer than the first: first cross-vein very slightly curved, slightly slanting, forming a right angle, parted from the second by four times its length; second straight, slightly slanting, forming an obtuse angle, much shorter than the first; third very slightly curved, slightly slanting, forming a right angle; fourth slightly curved, slightly slanting, forming a slightly acute angle, much longer than the third; fifth curved, nearly upright, forming an almost right angle. Body black, slender, tawny beneath: head much narrower than the fore-chest, clothed with short yellow hairs, adorned with a tawny spot on each side in front by the base of the feelers; face prominent, very convex, clothed with pale hairs, adorned with a tawny stripe in the middle and with a tawny band on each side: mouth tawny with a black tip: eyes rather large and prominent: feelers black, stout, tawny towards the tips: fore-chest narrower before than behind, adorned with four tawny spots, two on the fore border and two on the hind border, the latter are more remote from each other than the former pair; hind-scutcheon tawny, rather narrow in the middle, widened, extending beyond the scutcheon and adorned with a short black stripe by the base of each fore-wing, nearly straight on each side: scutcheon of the middle-chest tawny on each side, its disk adorned with two tawny streaks which are much widened towards the hind border, the latter is hardly excavated: abdomen obconical, longer and a little narrower than the chest, clothed with whitish hairs, ferruginous on each side; under side adorned with a row of ferruginous spots: oviduct ferruginous: legs tawny, adorned with pitchy stripes; feet pitchy; claws ferruginous with pitchy tips; fore-thighs armed with three stout ferruginous teeth; spines on the hind-shanks ferruginous, very long: wings colourless; fore border yellow; veins tawny; a broad oblique stripe proceeds from the fore border and clouds the cross-veins from the first to the fourth, and the intermediate parts of the longitudinal veins, and is broadest beneath the fore border; fore-flaps pale buff; veins of the hind-wings pale tawny; flaps pale buff at the base and along part of the hind border. Length of the body  $7\frac{1}{2}$  lines; of the wings 18 lines.

a. South Africa. Presented by Dr. A. Smith.



## 179. CICADA OCCIDENTIS. Mas.

*Nervus transversus* 1us rectus, obliquus, angulum valdè obtusum fingens, 2o ferè duplò ejus longitudinè divisus; 2us subcurvus, ferè erectus, angulum obtusum fingens, 1o vix longior; 3us rectus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum acutum fingens, 3o multò longior.

Second marginal areolet longer than the first: first cross-vein straight, slanting, forming a very obtuse angle, parted from the second by nearly twice its length; second slightly curved, almost upright, forming an obtuse angle, hardly longer than the first: third straight, slanting, forming a slightly acute angle; fourth almost straight, forming an acute angle, much longer and more slanting than the third; fifth straight, upright, forming a hardly obtuse angle. Body ferruginous, partly covered with pale yellow shining down: head a little narrower than the fore-chest; crown black; face convex, adorned with a black stripe and on each side with black bands: eyes not prominent: mouth tawny with a black tip, reaching the middle-hips: feelers black: fore-chest not narrower in front: scutcheon adorned with three black bands, the side pair short; sutures black; hind-scutcheon very narrow, slightly widened at the base of each fore-wing, excavated on each side: middle-chest adorned with four obconical black stripes, the outer pair longer than the inner pair: hind border very slightly excavated: abdomen obconical, not longer than the chest, black above; hind borders of the segments ferruginous: legs pale ferruginous, streaked with black: fore-thighs armed with three teeth, two long and one short: wings colourless, short: fore border pale green; veins pale green, black towards the tips; hind-flaps at the base and fore-flaps pale red. Length of the body  $6\frac{1}{2}$  lines; of the wings 16 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

## 180. CICADA HYALINA.

*Cicada hyalina*, Oliv. Enc. Méth. v. 756, 42, pl. 113, f. 4. Stoll, Cic. 76, pl. 19, f. 101.

a, b. Italy. Presented by Dr. Dowler.

## 181. CICADA PICTA.

- Cicada picta*, *Germ. Thon, Arch.* ii. 2, 66. *Silb. Rev. Ent.* ii. 58, 7. *Reaum. Ins.* v. 152, pl. 16, f. 8, 9?
- Tettigonia picta*, *Fabr. Ent. Syst.* iv. 24, 27. *Syst. Rhyn.* 42, 43. *Coq. Ill.* i. 31, pl. 8, f. 2.
- Cicada tomentosa*, *Oliv. Enc. Méth.* v. 759, 62.
- Cicado*, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 154, 375.
- a. South of France. Presented by M. Jaret.
- b. Albania. Presented by S. Saunders, Esq.
- c. South of France. Presented by F. Walker, Esq.
- d, e. Europe.

## 182. CICADA HÆMATODES.

- Cicada hæmatodes*, *Linn. Syst. Nat.* i. 2, 707, 14. *Petiv. Gaz.* pl. 15, f. 7. *Scop. Ent. Carn.* 347. *Schrank, Ins. Austr.* 477. *Gron. Zooph.* 675. *Fuessl. Ins. Helv.* 24, 452. *Stoll, Cic.* 24, pl. 2, f. 11. *Gmel. Ed. Syst. Nat.* i. 3, 2097, 24. *Vill. Ent.* i. 456, 5. *Oliv. Enc. Méth.* v. 753, 31, pl. 112, f. 8? *Germ. Thon, Arch.* ii. 2, 41. *Silb. Rev. Ent.* ii. 58, 6.
- Tettigonia hæmatodes*, *Fabr. Syst. Ent.* 680, 11. *Sp. Ins.* ii. 320, 14. *Mant. Ins.* ii. 267, 18. *Ent. Syst.* iv. 22, 21. *Syst. Rhyn.* 42, 50. *Panz, Faun. Germ.* 50, pl. 21?
- T. sanguinea*, *Fabr. Syst. Rhyn.* 39, 31.
- Tibicen hæmatodes*, *Latr. Règn. Anim.* 1829, 215.
- Cicada Anglica*, *Leach, Samouelle, Comp.* pl. 5, f. 2. *Curt. Brit. Ent.* 392.
- Tibicina*, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 154, 374.
- Cicada sanguinea*, *Germ. Thon. Arch.* ii. 2, 47, *Silb. Rev. Ent.* ii. 58, 5.
- a—c. England.
- d. Europe. Presented by M. Goureau.
- e, f. Europe.
- g, h. South of France.
- i, j. ——— ?
- k. Ukraine. Presented by Dr. Dowler.

## 183. CICADA TIBIALIS.

*Tettigonia tibialis*, *Panz. Faun. Ins. Germ.* v. 1. *Stoll, Cic.* 92,  
pl. 24, f. 133.  
*Cicadetta*, *Amyot, Ann. Soc. Ent. 2me Série*, v. 156, 377.

## 184. CICADA MONTANA.

*Cicada montana*, *Passerini*.

*a, b.* Tuscany.

*c, d.* Italy. From Mr. Birch's collection.

## 185. CICADA ANNULATA.

*Tibicen annulatus*, *Brullé, Expéd. Scient. de Morée, Atlas*, pl. 31,  
f. 14.

## 186. CICADA FLAVEOLA.

*Tibicen flavcolus*, *Brullé, Expéd. Scient. de Morée, Atlas*, pl. 31, f.  
13.

## 187. CICADA HYALINATA.

*Tibicen hyalinatus*, *Brullé, Expéd. Scient. de Morée, Atlas*, pl. 31,  
f. 12.

## 188. CICADA VITREA.

*Tibicen vitreus*, *Brullé, Expéd. Scient. de Morée, Atlas*, pl. 31, f. 11.

## 189. CICADA MONETA.

*Cicada moneta*, *Germ. Silb. Rev. Ent.* ii. 61, 14.

*a—d.* ———? Presented by J. G. Children, Esq.

*e, f.* ———?

## 190. CICADA SEMIPUNCTATA.

*Cicada semipunctata*, *Germ. Thon, Archiv.*

*a.* Cape. From M. Dregé's collection.

## 191. CICADA SIGNIFERA.

*Cicada signifera*, *Germ. Thon, Arch.* ii. 2, 80. *Silb. Rev. Ent.* ii. 73, 41.

a. Cape. From M. Dregé's collection.

## 192. CICADA SCRIPTA.

*Cicada scripta*, *Germ. Silb. Rev. Ent.* ii. 73, 43.

a. Cape. From M. Dregé's collection.

## 193. CICADA SIMPLEX.

*Cicada simplex*, *Germ. Silb. Rev. Ent.* ii. 72, 40.

a. South Africa. Presented by Dr. A. Smith.

b. Cape. From M. Dregé's collection.

## 194. CICADA BICOLOR.

*Cicada bicolor*, *Oliv. Enc. Méth.* v. 748, 9.

a. Brazil. Presented by the Entomological Club.

## 195. CICADA LUTESCENS.

*Cicada lutescens*, *Oliv. Enc. Méth.* v. 758, 56, pl. 113, f. 12.

## 196. CICADA PRASINA.

*Cicada prasina*, *Pall. It.* ii. *App.* 84. *Gmel. Ed. Syst. Nat.* i. 3, 2100, 96.

*Cicada lutescens*, *Var. ?*

## 197. CICADA VIOLACEA.

*Cicada violacea*, *Linn. Syst. Nat.* i. 2, 708, 21. *Mus. Lud. Utr.* 162. *Fuesl. Ins. Helv.* 24, 456. *Gmel. Ed. Syst. Nat.* i. 3, 2100, 21. *Vill. Ent.* i. 458, 8. *Oliv. Enc. Méth.* v. 757, 51.

*Tettigonia violacea*, *Fabr. Syst. Ent.* 682, 18. *Sp. Ins.* ii. 322, 22. *Mant. Ins.* ii. 267, 27. *Ent. Syst.* iv. 26, 36. *Syst. Rhyn.* 43, 56.

## 198. CICADA MEZAMMIRA.

Mezammira, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 157, 379

## 199. CICADA MELAMPSALTA.

Melampsalta, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, 165, 376.

## 200. CICADA PUSILLA.

Tettigonia pusilla, *Fabr. Syst. Rhyn.* 44, 59.

## 201. CICADA PARVULA.

Cicada pygmæa, *Oliv. Enc. Méth.* v. 762, 66.

## 202. CICADA VITELLINA.

Cicada vitellina, *Germ.*

## 203. CICADA TRANSVERSA.

Cicada transversa, *Germ. Thon, Arch.* ii. 2, 85. *Silb. Rev. Ent.* ii. 63, 19.

## 204. CICADA ÆSTUANS.

Tettigonia æstuans, *Fabr. Ent. Syst.* iv. 20, 14. *Syst. Rhyn.* 37. 20.

Tettigetia, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 156, 378.

## 205. CICADA PYGMÆA.

Tettigonia pygmæa, *Fabr. Syst. Rhyn.* 44, 57.

## 206. CICADA ATRA.

Cicada atra, *Oliv. Enc. Méth.* v. 759, 63.

Cicadatra, *Amyot, Ann. Soc. Ent. Fr. 2me Série*, v. 153, 373.

a. South of France.

## 207. CICADA CONCINNA.

*Cicada concinna*, *Germ. Thon, Arch.* ii. 2, 42. *Silb. Rev. Ent.* ii. 63, 22.

*Cicada atra*? *Oliv.*

## 208. CICADA QUÆRULA.

*Cicada quærula*, *Pallas, Reizen*, ii. *Append.* 83. *Goeze, Ent. Beytr.* ii. 151, 17. *Stoll, Cic.* 20, pl. 1, f. 6.

*Cicada atra*? *Oliv.*

## 209. CICADA ALGIRA.

*Tettigonia Algira*, *Fabr. Syst. Rhyn.* 43, 51.

## 210. CICADA VACUA.

*Cicada vacua*, *Oliv. Enc. Méth.* v. 757, pl. 113, f. 10. *Stoll, Cic.* 51, pl. 12, f. 58.

## 211. CICADA MARGINELLA.

*Cicada marginella*, *Oliv. Enc. Méth.* v. 757, 49, pl. 113, f. 8. *Stoll, Cic.* 87, pl. 23, f. 124.

## 212. CICADA CINCTA.

*Tettigonia cincta*, *Fabr. Syst. Rhyn.* 38, 26.

## 213. CICADA BRUNNEA.

*Tettigonia brunnea*, *Fabr. Ent. Syst. Suppl.* 517, 35. *Syst. Rhyn.* 43, 55.

## 214. CICADA DIMIDIATA.

*Cicada dimidiata*, *Oliv. Enc. Méth.* v. 755, 41. *Stoll, Cic.* 85, pl. 22, f. 119.

## 215. CICADA 8-GUTTATA.

*Tettigonia 8-guttata*, *Fabr. Ent. Syst. Suppl.* 515, 23. *Syst. Rhyn.* 39, 33. *Coqueb. Ill.* 1, pl. 9, f. 1.

## 216. CICADA OCHRACEA.

*Cicada ochracea*, *Germ.*

## 217. CICADA OBSCURA.

*Tettigonia obscura*, *Fabr. Syst. Rhyn.* 36, 14.

## 218. CICADA MUSIVA.

*Cicada musiva*, *Germ. Thon, Arch.* ii. 2, 81. *Silb. Rev. Ent.* ii. 62, 16.

## 219. CICADA MUSCARIA.

*Tettigonia muscaria*, *Fabr. Syst. Rhyn.* 44, 60.

## 220. CICADA LEUCOPTERA.

*Cicada leucoptera*, *Germ. Thon, Arch.* ii. 2, 23. *Silb. Rev. Ent.* ii. 74, 44.

## 221. CICADA EPHEMERA.

*Tettigonia Ephemera*, *Fabr. Ent. Syst.* iv. 25, 34. *Syst. Rhyn.* 43, 52.

## 222. CICADA FENESTRATA.

*Tettigonia fenestrata*, *Fabr. Syst. Rhyn.* 43, 54.

## 223. CICADA CANTANS.

*Tettigonia cantans*, *Fabr. Ent. Syst.* iv. 20, 13. *Syst. Rhyn.* 37, 19.

## 224. CICADA ? FORNICATA.

*Cicada ? fornicata*, *Linn. Syst. Nat.* 706, 11. *Mus. Lud. Utr.* 156.  
*Oliv. Enc. Méth.* v. 758, 54.

## Genus 13. TETTIGADES.

*Tettigades*, *Amyot et Serville, Hist. Nat. Hém.* 469, 369.

## 1. TETTIGADES CHILENSIS.

*Tettigades chilensis*, *Amyot et Serv. Hist. Nat. Hém.* 470, 1, pl. 12,  
f. 14.

*a—c.* Chili. From Mr. Cuming's collection.

*d.* Coquimbo.

## Genus 14. CEPHALOXYS.

*Cephaloxys*, *Signoret, Ann. Soc. Ent. Fr. 2me Série*, v. 294.

## 1. CEPHALOXYS VIRIDIS.

*Cephaloxys viridis*, *Signoret, Ann. Soc. Ent. Fr. 2me Série*, v. 294,  
1.

## 2. CEPHALOXYS HEMELYTRA.

*Cephaloxys hemelytra*, *Signoret, Ann. Soc. Ent. Fr. 2me Série*, v.  
295, 2.

## 3. CEPHALOXYS MICROCEPHALA, Mas.

*Nervus transversus* 1us *subcurvus*, *erectus*, *angulum vix obtusum*  
*figens*, 2o *plus duplò ejus longitudine divisus*; 2us *sub-*  
*curvus erectus*, *angulum vix obtusum figens*, 1o *paullò lon-*  
*gior*; 3us *ferè rectus*, *obliquus*, *angulum acutum figens*;  
4us *ferè rectus*, *subobliquus*, *angulum subacutum figens*, 3o  
*paullò brevior*.

Second marginal areolet two-thirds of the length of the first :  
first cross-vein very slightly curved, upright, forming a hardly obtuse



angle, parted from the second by very much more than twice its length; second very slightly curved, upright, forming a hardly obtuse angle, a little longer than the first; third nearly straight, slanting, forming an acute angle; fourth nearly straight, forming a slightly acute angle, much less slanting and a little shorter than the third; fifth straight, slightly slanting, forming an obtuse angle. Body grass-green: disks of the head, of the chest and of the abdomen towards the base more or less tinged with tawny: head very small, much narrower than the fore-chest; face very convex, rather prominent: mouth pale tawny, reaching the middle-hips: eyes rather prominent: feelers black, pale tawny at the base: fore-chest decreasing much in breadth from the hind border to the fore border; sides straight, rounded at the base of the wing; hind-scutcheon narrow above, much broader on each side: no excavation on the hind border of the scutcheon of the middle-chest: abdomen obconical, tawny beneath, much longer than the chest; drums green, very small, parted by a broad interval: legs green, tinged with tawny; feet pitchy: claws black; fore-thighs armed with three stout tawny teeth whose tips are black: wings colourless, tinged with green at the base; a green stripe with a tawny tinge along two-thirds of the fore border; veins tawny; green towards the base, black towards the tips. Length of the body 8 lines: of the wings 22 lines.

*a, b.* Port Natal. From M. Gueiazius' collection.

#### 4. CEPHALOXYS ROSTRATA, Mas.

*Nervus transversus 1us rectus, subobliquus, angulum vix obtusum fingens, 2o quadruplò ejus longitudine divisus; 2us erectus, ferè rectus, angulum obtusum fingens, 1o longior; 3as ferè rectus, valdè obliquus, angulum acutum fingens; 4us rectus, obliquus, angulum rectum fingens, 3o multò brevior.*

Second marginal areolet about five-sixths of the length of the first: first cross-vein straight, slightly slanting, forming a hardly obtuse angle, parted from the second by full four times its length; second upright, nearly straight, forming an obtuse angle, longer than the first; third nearly straight, very slanting, forming an acute angle, joining the base of the fourth marginal areolet; fourth straight, slanting, forming a right angle, very much shorter than the third; fifth very slightly curved, slightly slanting, forming a right angle. Body vivid grass-green, tawny beneath, partly clothed with whitish shining down: head small, narrower than the fore-chest; face conical, remarkably prominent, forming a short horn; mouth tawny with a black tip, reaching the middle-hips: feelers tawny: eyes rather

prominent: fore-chest narrower in front than behind; sides of the scutcheon straight; hind-scutcheon narrow above, much widened on each side: scutcheon of the middle-chest adorned with three broad obconical tawny stripes whose disks are mottled with brown; excavation on the hind border very indistinct: abdomen ferruginous, slightly obconical, not longer than the chest, green for half the length from the base with the exception of a stripe in the middle: opercula none; tymbals adorned with pitchy and whitish stripes; drums rather small, pale tawny, parted by a moderate interval: legs tawny; tips of the claws black; fore-thighs adorned with pitchy streaks, armed with two tawny teeth whose tips are black; wings colourless, narrow, tinged with green at the base of the fore-wings: fore borders brown; veins black, green towards the base: flaps colourless. Length of the body 7 lines; of the wings 20 lines.

a. Java. From Mr. Argent's collection.

##### 5. CEPHALOXYS NUTANS, Mas.

*Nervus transversus* 1us ferè rectus, erectus, angulum subobtusum fingens, 2o plus quadruplò ejus longitudine divisus; 2us sub-rectus, erectus, angulum obtusum fingens, 1o longior; 3us ferè rectus, obliquus, angulum acutum fingens; 4us ferè rectus, angulum ferè rectum fingens, subobliquus, 3o rix brevior.

Second marginal areolet about five-sixths of the length of the first: first cross-vein almost straight, upright, forming a very slightly obtuse angle, parted from the second by much more than four times its length; second nearly straight, upright, forming an obtuse angle, longer than the first; third nearly straight although very indistinctly waved, slanting, forming an acute angle; fourth nearly straight, forming an almost right angle, nearly as long as the third and much less slanting; fifth very slightly curved, upright, forming a right angle. Body pale tawny: head a little narrower than the fore-chest, somewhat pitchy about the eyelets and having on each side a pitchy stripe which proceeds from the base of the feelers along the sides of the eyes; face conical, very long and prominent like a beak, adorned above with a dark tawny stripe: mouth pale tawny with a black tip, extending a little beyond the base of the fore-hips: eyes prominent: feelers black, tawny at the base: scutcheon of the fore-chest rather long, adorned with six black spots in front, with a black obconical stripe occupying a furrow on each side, and with two pitchy spots on the hind border; hind-scutcheon narrow above, much broader at the base of the fore-wing where it forms a distinct angle, and extends beyond the scutcheon: middle-chest adorned on each side with

two slightly oblique stripes which are composed of little brown marks various in size and in shape; hind border hardly excavated: abdomen obconical, longer and a little broader than the chest: opercula none; tymbals large, pale ferruginous; drums tawny, extremely small: legs tawny; feet darker; tips of the claws black; fore-thighs armed with two stout tawny teeth: wings colourless, rather long, very narrow, with a very slight tawny tinge at the tips and along the hind border of the fore-wings; fore border tawny with a short brown stripe beneath at the base; veins tawny, black towards the tips; a slight brown stripe along the hind border; fore-flaps red; hind-flaps colourless, tawny at the base and along the fore border and hind border. Length of the body 8 lines; of the wings 22 lines.

a. ——— ?

#### 6. CEPHALOXYS CONCOLOR, Fcm.

*Nervus transversus 1us ferè rectus, suberectus, angulum subobtusum fingens, 2o ferè sexties ejus longitudine divisus; 2us ferè rectus, subobliquus, angulum obtusum fingens, 1o longior; 3us ferè rectus, obliquus, angulum subacutum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o paullo longior.*

Second marginal areolet nearly two-thirds of the length of the first: first cross-vein nearly straight, almost upright, forming a slightly obtuse angle, parted from the second by near six times its length; second nearly straight, slightly slanting, forming an obtuse angle, longer than the first; third very nearly straight, slanting, forming a slightly acute angle; fourth nearly straight, slanting, forming a slightly acute angle, a little longer than the third; fifth curved, nearly upright, forming a right angle. Body rather pale red: head small, narrower than the chest; face convex, compressed, very prominent: mouth tawny with a black tip: feelers black: fore-chest narrower in front; hind-scutcheon narrow above, broader on each side: scutcheon of the middle-chest nearly smooth with the exception of the furrow on the hind border which is very slightly excavated: a broad whitish stripe on each side of the breast: abdomen very slightly obconical, about twice the length of the chest, adorned beneath with two rows of black spots: oviduct dark ferruginous with a black tip: legs tawny; tips of the claws black; fore-thighs armed with three teeth whose tips are black: wings and their flaps colourless; veins and fore border very pale red. Length of the body 13 lines; of the wings 24 lines.

a. ——— ?

## 7. CEPHALOXYS LOCUSTA, Fem.

*Nervus transversus* 1us subcurvus, subobliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, subobliquus, angulum obtusum fingens, 1o multò brevior; 3us curvus, subobliquus, angulum rectum fingens; 4us subcurvus, obliquus, angulum subacutum fingens, 3o longior.

Second marginal areolet full three-fourths of the length of the first: first cross-vein slightly curved, slightly slanting, forming a very obtuse angle, parted from the second by much more than twice its length; second slightly curved, slightly slanting, forming an obtuse angle, much shorter than the first; third curved, slightly slanting, forming a right angle; fourth slightly curved, slanting, forming a slightly acute angle, longer than the third; fifth slightly curved, upright, forming a nearly right angle. Body ferruginous, pale tawny beneath: head small, much narrower than the fore-chest, adorned with two small black spots between the eyelets; face narrow, very convex and prominent: mouth pale tawny with a pitchy tip, reaching the middle-hips: eyes prominent: feelers tawny: fore-chest much narrower in front than behind; scutcheon adorned with two slender black stripes, which slightly converge from the fore border, and then slightly diverging include a nearly circular space and are united on the hind border; a small black spot on each side in front; hind-scutcheon tawny, broad especially on each side, rounded at the base of each fore-wing, slightly excavated towards the fore border: scutcheon of the middle-chest adorned with three slender black stripes, the side pair slightly converging towards the tip of the middle one; two punctures above the cross-ridge which is very distinct; sides and hind border tawny, covered with pale yellow silky down: excavation on the hind border very slight: abdomen pale tawny, obconical, much longer than the chest, lengthened and tapering towards the tip, adorned above with a very broad ferruginous stripe which extends from the base to the narrow part; a row of small pitchy spots along each side; last segment much lengthened, olconical, pitchy above at the base; horn at the tip tawny, rather long; sheaths of the oviduct pale tawny, pitchy and hairy towards the tip, extending some distance beyond the tip of the abdomen; oviduct ferruginous, black and serrated at the tip: legs pale tawny; fore-thighs armed with three tawny teeth, first and second of moderate size, the third very small: wings colourless; primitive areolet, fore border and veins pale tawny; fore membranes pale

buff; flaps pale buff at the base and for a space along the hind border. Length of the body 24 lines; of the wings 42 lines.

a. East Indies. From Mr. Wooler's collection.

#### 8. CEPHALOXYLS LACTEIPENNIS, Mas.

*Nervus transversus* Ius *rectus, obliquus, angulum valdè obtusum fingens, 2o plus duplò ejus longitudine divisus*; 2us *subcurvus, obliquus, angulum valdè obtusum fingens, 1o longior*; 3us *curvus, obliquus, angulum ferè rectum fingens*; 4us *subcurvus, valdè obliquus, angulum ferè rectum fingens, 3i longitudine.*

Second marginal areolet longer than the first: first cross-vein straight, slanting, forming a very obtuse angle, parted from the second by more than twice its length; second slightly curved, slanting, forming a very obtuse angle, longer than the first; third curved, slanting, forming a nearly right angle; fourth very slightly curved, very slanting, forming a nearly right angle, as long as the third; fifth curved, upright, forming a slightly acute angle. Body luteous, clothed with pale hairs: head black, small, much narrower than the thorax; a small tawny spot at the base of each feeler; face very prominent, adorned on each side with a large tawny spot: mouth black, tawny at the base: eyes not prominent: feelers black: fore-chest much narrower in front than behind; sides rounded at the base of the fore-wings, then slightly concave, and again slightly convex and minutely notched towards the fore border; furrows of the scutcheon black; hind-scutcheon broad, a black band along its fore border: scutcheon of the middle-chest adorned with four black obconical slightly excavated marks; middle pair not more than half the length of the side pair, between the former there is a black stripe increasing in breadth from the fore border to the middle where it ceases; hind border very slightly excavated: abdomen black, obconical, a little broader and longer than the chest; hind borders of the segments tawny; a tawny spot on each side near the tip which is also tawny: opercula tawny, small, open; their furrows hoary; drums extremely small: legs luteous; a pitchy spot at the tip of each shank; tips of the claws black; fore-thighs armed with two stout teeth which are partly black at the base: wings and flaps white, opaque, luteous at the base; veins black, tawny towards the base and near the brand, an additional cross-vein near the tip of the sixth discoidal areolet of the left wing of the specimen described. Length of the body 17 lines; of the wings 46 lines.

a. North India. From Mr. Stevens's collection.

## 9. CEPHALOXYS QUADRIMACULA, Mas.

*Nervus transversus* 1us subcurvus, subobliquus, angulum obtusum fingens, 2o duplò ejus longitudine divisus; 2us ferè rectus, obliquus, angulum perobtusum fingens, 1o multò longior; 3us subundatus, valdè obliquus, angulum acutum fingens; 4us subcurvus, obliquus, angulum subacutum fingens.

Second marginal areolet as long as the first: first cross-vein slightly curved, slightly slanting, forming an obtuse angle, parted from the second by full twice its length; second nearly straight, slanting, forming an extremely obtuse angle, much longer than the first; third very slightly waved, very slanting, forming an acute angle; fourth slightly curved, slanting, forming a slightly acute angle, shorter than the third; fifth curved, upright, forming a slightly acute angle. Body bright tawny, almost hairless: head black, narrower than the fore-chest, adorned with a large tawny spot on each side at the base of the feelers, with a small tawny spot in front, and with three along the hind border; face prominent, very convex: mouth black, reaching the hind-hips, tawny at the base: feelers black: eyes rather prominent: fore-chest much narrower in front than behind; scutcheon adorned with a slightly curved black stripe on each side, with two triangular black spots on the fore border, and with three small black spots along the hind border, and it has also a few very indistinct pitchy marks in the disk; hind-scutcheon much widened near the base of each fore-wing where it greatly exceeds the breadth of the scutcheon, slightly notched on each side: scutcheon of the middle-chest adorned with four very large black spots; outer pair obconical, slightly oblique, widened to each other at the base, on the inner side they are slightly excavated by a short very slender oblique tawny stripe; third spot much shorter, and exhibits a tendency to be divided into two U-shaped spots, the fourth is behind the third, and of a quadrate form, and bears a slender cone on its fore border; hind border not excavated: abdomen obconical, longer and narrower than the chest, black above; hind borders of the segments adorned with slender interrupted reddish bands; a broad pale tawny band near the tip; horn pale tawny; under side pitchy; hind borders of the segments ferruginous; tip pale tawny: opercula very small, pale tawny with blackish disks, partly covering the tymbals which are grayish; drums bright tawny, rather small, not far apart: legs tawny; hips, middle and hind-thighs and hind-shanks striped with black; claws ferruginous: fore-thighs black with a tawny spot near the tip, armed with three stout black teeth; fore-shanks black with a slender tawny band near the

base; middle-shanks black; fore and middle-feet pitchy, ferruginous at the base; hind-feet tawny with pitchy tips: wings whitish, pale tawny and marked with black at the base; fore border bright tawny; brands pale brown; veins pale tawny, black towards the tip of the fore-wings; first and second cross-veins and the space between them and the fore border clouded with very dark brown; fore-flaps pale tawny; first and second cross-veins of the hind-wings and the space between them clouded with very dark brown; flaps white at the base and along some part of the hind border. Length of the body 14 lines; of the wings 27 lines.

a. North India. From Mr. Stevens's collection.

#### 10. CEPHALOXYs TERPSICHORE, Fem.

*Nervus transversus 1us subcurvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us ferè rectus, obliquus, angulum valdè obtusum fingens, 1i dividio vix longior; 3us subundatus, subobliquus, angulum rectum fingens; 4us ferè rectus, obliquus, angulum subacutum fingens, 3o paulò longior.*

Second marginal areolet about two-thirds of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by much more than twice its length; second nearly straight, slanting, forming a very obtuse angle, hardly more than half the length of the first; third very slightly waved, slightly slanting, forming a right angle; fourth nearly straight, slanting, forming a very slightly acute angle, a little longer than the third; fifth curved, upright, forming a slightly acute angle. Body pale green, slightly tinged with tawny, slightly clothed with white shining down: head narrower than the fore-chest; a black dot on the crown on each side of the eyelets; face narrow, very convex and prominent: mouth pale tawny with a pitchy tip, reaching a little beyond the middle-hips: eyes prominent: feelers tawny: hind-scutcheon of the fore-chest broad, especially at the base of the fore-wings where it is rounded; its sides slightly excavated: scutcheon of the middle-chest adorned with a pitchy dot on each side above the cross-ridge: hind border not excavated: abdomen obconical, a little shorter than the chest, narrow at the tip; two last segments pitchy above: oviduct pitchy: legs pale tawny, tinged with green; claws black towards the tips; fore-thighs armed with two tawny teeth, one of moderate size, the other small: wings colourless; fore-wings tinged with brown towards the tips; fore border green, slightly beset with spines, the middle part black; veins

black, green towards the base, black along the hind border of the fore-wing; fore membrane buff; flaps buff and tinged with red at the base and for a space along the hind border. Length of the body 12 lines; of the wings 35 lines.

a. East Indies. From Archdeacon Clerk's collection.

### Genus 15. CARINETA.

Carineta, *Amyot et Serr. Hist. Nat. Hém.* 482, 376, 19.

#### 1. CARINETA FORMOSA.

Carineta formosa, *Amyot et Serr. Hist. Nat. Hém.* 483, 1.

Cicada formosa, *Germ. Thon, Arch.* ii. 2, 105. *Silb. Rev. Ent.* ii. 74, 47. *Burm. Handb. Ent.* ii. 1, 181, 3. *Blanch. Hist.*

*Nat. Ins.* iii. 166, 8. *Guér. Icon. Reg. Anim. Texte*, 355.

Cicada Diardi, *Guér. Icon. Reg. Anim. Ins.* pl. 58, f. 1.

Cicada Polychroa, *Perty, Del. An. Art.* 176, pl. 35, f. 2.

a, b. Brazil. From Mr. Mornay's collection.

c---e Brazil.

#### 2. CARINETA VILLOSA.

Carineta villosa, *Amyot et Serr. Hist. Nat. Hém.* 483, 2.

Cicada villosa, *Oliv. Enc. Méth.* v. 752, 27. *Gmel. Ed. Syst. Nat.* ii. 3, 2096, 77. *Germ. Thon, Arch.* ii. 2, 104. *Silb. Rev. Ent.* ii. 74, 46, f. 21.

Tettigonia villosa, *Fabr. Sp. Ins.* ii. 320, 11. *Mant. Ins.* ii. 267, 16. *Ent. Syst.* iv. 21, 18. *Syst. Rhyn.* 38, 27.

a. South Africa. Presented by Dr. A. Smith.

b, c. South Africa. From Mr. Shuckard's collection.

d, e. South Africa.

#### 3. CARINETA PILOSA, Fem.

*Nervus transversus 1us valdè curvus, valdè obliquus angulum obtusum fingens, 2o ejus longitudine propior; 2us undatus, obliquus, angulum acutum fingens, 1o brevior; 3us subundatus, subobliquus, angulum rectum fingens; 4us subcurvus, subobliquus, angulum rectum fingens, 3o longior.*

Second marginal areolet full three-fourths of the length of the first: first cross-vein much curved, very slanting, forming an obtuse



angle, parted from the second by much less than its length; second waved, slanting, forming an acute angle, shorter than the first; third very slightly waved, slightly slanting, forming a right angle, closing the third discoidal areolet more or less before the fork of the fore-vein; fourth slightly curved, slightly slanting, forming a right angle, longer than the third; fifth curved, nearly upright, forming a hardly acute angle. Body bright tawny, partly green, hairy, especially in front of the head which is formed like that of a *Dum-dubia*: head much narrower than the fore-chest: face very convex: mouth dark tawny with a black tip, reaching the hind-hips: eyes prominent: feelers black: hind-scutcheon of the fore-chest broad, green, rounded but hardly widened near the base of each fore-wing: scutcheon of the middle-chest adorned with some indistinct darker marks; hind border very slightly excavated: abdomen pitchy, slightly obconical, longer than the chest: drums tawny, very small, far apart: legs dark tawny; claws black; fore-thighs armed with two stout tawny teeth: wings slightly tinged with tawny; veins green, tawny towards the tips. Length of the body 15 lines; of the wings 43 lines.

a. Venezuela. From Mr. Dyson's collection.

#### 4. CARINETA SCIRAS, Fem.

*Nervus transversus* 1us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 2o triplò ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum valdè obtusum fingens, 1o paullò longior; 3us subundatus, obliquus, angulum vix acutum fingens; 4us subundatus, obliquus, angulum vix acutum fingens, 3o paullò longior.

Second marginal areolet about three-fourths of the length of the first: first cross-vein slightly curved, very slanting, forming a very obtuse angle, parted from the second by thrice its length; second slightly curved, very slanting, forming a very obtuse angle, a little longer than the first; third slightly waved, slanting, forming a hardly acute angle; fourth very slightly waved, slanting, forming a hardly acute angle, a little longer than the third; fifth curved, slightly slanting, forming a slightly acute angle. In the insect described the fore vein of the second marginal areolet is divided and then reunited, and thus forms a little spindle-shaped areolet. Body green, hairy, short, broad: head nearly as broad as the fore-chest, clothed with long black hairs and with short tawny hairs; crown adorned with a broad irregular black band which incloses a tawny spot; face very slightly convex: mouth black, tawny at the base, reaching a little beyond the hind-hips: eyes not pro-

minent: feelers black: fore-chest clothed with short tawny hairs; scutcheon adorned with a black spot and with four black streaks which occupy the furrows on each side; hind-scutcheon broad, slightly widened, rounded and convex on each side, not excavated: scutcheon of the middle-chest clothed with whitish hairs, adorned with four obconical tawny stripes which inclose pitchy streaks, the inner pair not half the length of the outer pair; hind border slightly excavated: abdomen obconical, a little longer than the chest, slightly compressed towards the tip, tawny and clothed with tawny hairs, adorned with large black marks which are clothed with black hairs: legs green, clothed with rather long whitish hairs; hips, thighs and fore-shanks adorned with pitchy marks; shanks and hind-feet tawny; fore-feet and middle-feet black: wings colourless; fore border ferruginous; veins green, black towards the tips; cross-veins from the first to the fourth clouded with brown; a row of pale brown spots on the tips of the longitudinal veins of the marginal areolets. In the left wing of the insect described the lower vein of the first marginal areolet is divided for a short space and incloses a little narrow areolet. Length of the body 11 lines; of the wings 42 lines.

a. Venezuela. From Mr. Dyson's collection.

##### 5. CARINETA TRICHIOSOMA, Mas.

*Nervus transversus* 1us subcurvus, obliquus, angulum obtusum fingens, 2o ferè triplò ejus longitudine divisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1i longitudine; 3us subundatus, obliquus, angulum acutum fingens; 4us subundatus, valdè obliquus, angulum valdè obtusum fingens, 3o ferè duplò longior.

Second marginal areolet from two-thirds to three-fourths of the length of the first: first cross-vein slightly curved, slanting, forming an obtuse angle, parted from the second by nearly thrice its length; second slightly curved, slanting, forming an obtuse angle, as long as the first; third very slightly waved, slanting, forming an acute angle; fourth very slightly waved, very slanting, forming a very acute angle, nearly twice the length of the third; fifth slightly curved, upright, forming a slightly obtuse angle. Body tawny, very hairy, especially on the head which is very small, much narrower than the fore-chest, and has several black marks on the crown, the two largest of these are on the region of the eyelets; face prominent, very convex, its disk pitchy in front: mouth tawny, black towards the tip, reaching the middle-hips: eyes not prominent: feelers pitchy with tawny tips: scutcheon of the fore-chest narrower in front, with six black stripes which are adorned with tawny net-

work; the middle pair parallel; the other four oblique; the spaces between them adorned with black net-work: sides slightly convex; hind-scutcheon dark tawny, broad, extending beyond the scutcheon and having a black spot on each side: disk of the scutcheon of the middle-chest black, adorned with five green stripes; the middle one indistinct till near the hind border which is hardly excavated: the inner pair much curved outward, the outer pair oblique: abdomen ferruginous, obconical, not longer than the chest, adorned with three rows of black spots, greenish tawny on each side towards the base and beneath: opercula none; tymbals hoary with tawny ridges, between which there are tawny spots; drums extremely small: legs tawny, very hairy; thighs with pitchy stripes; two pitchy bands on each shank and foot; claws black; fore-thighs armed with three tawny teeth, two of these are large with pitchy tips, the third is very small: wings colourless, tawny and marked with black at the base; veins and fore borders dark towards the tips; a narrow black band on the fore border; cross-veins clouded with brown: flaps of the hind-wings colourless, tawny at the base; a brown dot on the tip of each longitudinal vein of the fourth, fifth and sixth marginal areolets; three or four pale yellow bands on the veins about the middle of the wings; fore borders of the flaps clouded with brown.

*Fem.*—Like the male but reddish tawny, and with ferruginous instead of black marks: abdomen ferruginous, longer than the chest, adorned with an interrupted paler stripe along the back and with a row of pitchy spots on each side: oviduct ferruginous: legs tawny, adorned with pitchy marks: fore border of the fore-wings bright red: veins reddish towards the base.

Length of the body 11 lines; of the wings 30 lines.

*a, b.* South Africa. Presented by Dr. A. Smith.

*c.* ———?

## 6. CARINETA LEUCONEURA, Mas.

*Nervus transversus* 1us *curvus, obliquus, angulum obtusum fingens, 2o plus ejus longitudine dirisus; 2us subcurvus, obliquus, angulum obtusum fingens, 1o paullo brevior; 3us subcurvus, valde obliquus, angulum acutum fingens; 4us ferè rectus, suberectus, angulum obtusum fingens, 3i dimidio paullo longior.*

Second marginal areolet a little shorter than the first: first cross-vein curved, slanting, forming an obtuse angle, parted from the second by much less than twice its length; second very slightly curved, slanting, forming an obtuse angle, a little shorter than the

first; third very slightly waved, very oblique, forming an acute angle; fourth nearly straight, almost upright, forming an obtuse angle, little more than half the length of the third; fifth very slightly curved, upright, forming a slightly acute angle. Body green: head and chest hairy: head very small, not more than half the breadth of the fore-chest, clothed with black hairs above, with white hairs beneath; crown black, with three greenish-tawny spots along the hind border; middle one conical, extending to the space between the eyelets; face pale yellow, prominent, very convex, adorned on each side in front with slender brown bands: mouth tawny with a black tip, reaching the middle-hips: feelers black: eyes not at all prominent: fore-chest much narrower in front than behind; scutcheon tinged with tawny on each side, adorned with eight black stripes, the middle pair parallel and very near together, the next pair forked towards the hind border, one of the forks reaching the middle pair, third and fourth pair oblique, the third occupying the furrows, the fourth on the borders; hind-scutcheon green, very slightly excavated on the hind border, extending near the base of the fore-wing far beyond the scutcheon: scutcheon of the middle-chest adorned with a long black curved stripe on each side, its disk adorned with four black stripes, the inner pair narrower in the middle and forming two imperfect triangles, the outer pair shorter, obconical; hind border not excavated: breast marked with black, clothed with long white hairs: abdomen obconical, tinged with tawny, hardly longer than the chest; opercula none; tymbals pitchy, tinged with gray; drums extremely small, the space between them equal to twice the breadth of each one: legs green; hips and thighs striped with black; knees black; shanks tinged with tawny towards the tips; claws tawny, black towards the tips; a black ring near the tip of each middle shank; tips of the fore shanks black: wings tawny; fore border green in one wing and luteous in the other of the specimen described; veins of the fore-wings clouded with brown, mostly white, but having some broad black bands here and there from the base to the middle; veins of the hind-wings luteous, here and there whitish, and more rarely slightly clouded with brown; fore-flaps whitish; hind-flaps tawny, whitish at the base and along the fore border. Length of the body 11 lines; of the wings 28 lines.

*a.* South Africa. Presented by G. F. Angas, Esq.

## 7. CARINETA BASALIS, Fem.

*Nervus transversus* 1us valdè curvus, valdè obliquus, angulum obtusum fingens, 2o plusquam ejus longitudine divisus; 2us curvus, obliquus, angulum acutum fingens, 1o paullò brevior; 3us vix undatus, obliquus, angulum subacutum fingens, 3o paullò longior.

Second marginal areolet as long as the first: first cross-vein much curved, very slanting, forming an obtuse angle, parted from the second by more than its length; second curved, slanting, forming an acute angle, a little shorter than the first; third very indistinctly waved, slanting, forming an acute angle; fourth curved, slanting, forming a very slightly acute angle, very little longer than the third; fifth curved, upright, forming a very slightly acute angle. Body tawny, hairy: head small; disk of the crown black; face very convex, rather prominent, adorned with two black spots: mouth tawny, black towards the tip, reaching the hind-hips: feelers black: fore-chest green, broader than the head, pale tawny in the middle part which has a black stripe ending? towards the hind border and sending forth two branches; furrows blackish; sides slightly convex, having a little notch in the space between the scutcheon and the hind-scutcheon which latter is rather broad scutcheon of the mesothorax green, adorned with three very irregular black stripes; excavation on the hind border obsolete: abdomen slightly obconical, much narrower towards the tip, a little narrower but not longer than the chest, brown above and adorned with two broad pale tawny bands: legs tawny; tips of the claws black; fore-thighs armed with two small black teeth: wings and flaps colourless, dull green at the base; veins black, green towards the base; fore border of the fore-wing dull green, brown towards the tip; brand brown, distinct. Length of the body 9 lines; of the wings 27 lines.

a. Venezuela. From Mr. Dyson's collection.

## 8. CARINETA SUBMARGINATA, Fem.

*Nervus transversus* 1us curvus, obliquus, angulum obtusum fingens, 2o plus duplò ejus longitudine divisus; 2us subcurvus, ferè erectus, angulum vix obtusum fingens, 1o multò brevior; 3us vix undatus, obliquus, angulum subacutum fingens; 4us ferè rectus, subobliquus, angulum vix acutum fingens, 3i longitudine.

Second marginal areolet two-thirds of the length of the first: first cross-vein curved, slanting, forming an obtuse angle, parted

from the second by much more than twice its length; second slightly curved, nearly upright, forming a hardly obtuse angle, much shorter than the first; third indistinctly waved, slanting, forming a slightly acute angle; fourth nearly straight, slightly slanting, forming a hardly acute angle, as long as the third; fifth curved, upright, forming a nearly right angle. Body tawny, partly covered with white down: head much narrower than the fore-chest; region of the eyelets black; face narrow, very convex, rather prominent: mouth tawny with a black tip reaching the hind-hips: eyes not prominent: feelers black, very slender except at the base where they are pitchy: fore-chest much narrower in front than behind; scutcheon adorned with a Y-shaped black mark, which by sending forth from its middle on each side an oblique black stripe to the hind border forms a reversed W; hind-scutcheon a little narrower in the middle than at the base of each fore-wing where it is rounded, thence it quickly decreases in breadth and ceases at half the length of each side: scutcheon of the middle-chest adorned with eight black stripes, these being united into two on each side include four obconical tawny marks, the inner pair of which are much shorter than the outer pair, but are succeeded by a large black spot which communicates with two black spots, the latter are on each side of the cross-ridge which is dark greenish-tawny: hind border hardly excavated: abdomen ferruginous, longer than the chest, partly pitchy on each side and beneath where it has two short obconical tawny stripes towards the base: oviduct ferruginous: legs tawny: thighs, shanks, and fore-hips adorned with pitchy stripes; feet pitchy; claws black, tawny at the base; fore-thighs armed with three red teeth which are pitchy at the base, one large, the second of moderate size, the third small: wings colourless; fore border green; veins pale green, black towards the tips, marked with black at the base and on the hind border, and on the middle vein of the flap; first and second cross-veins and the longitudinal vein between them clouded with brown; a row of pale brown spots on the tips of the longitudinal veins of the submarginal areolets; fore-membranes tawny; tips of the hind-wings brown; flaps tawny at the base, brown at the tips and along part of the hind border. Length of the body 10 lines; of the wings 28 lines.

a. ——— ?

## Genus 16. TETTIGARCTA.

Tettigarcta, *White, Ann. Nat. Hist.* 1846, xvii. 331.

## 1. TETTIGARCTA TOMENTOSA.

Tettigarcta tomentosa, *White, Ann. Nat. Hist.* 1846, xvii. 332.  
*Eyre's Travels in Australia*, i. 413, pl. 4, f. 4.

*a, b.* New Holland. From the Rev. J. Wenham's collection.

## Genus 17. TETTIGOMYIA.

Tettigomyia, *Amyot et Serv. Hist. Nat. Hém.* 482, 375.

## 1. TETTIGOMYIA VESPIFORMIS.

Tettigomyia vespiformis, *Amyot et Serv. Hist. Nat. Hém.* 482, 1.  
*Cicada, Sc., Stoll, Cic.* 119, pl. 29, f. 173.

## 2. TETTIGOMYIA ANNULATA.

*Cicada annulata, Germ. Thon, Arch.* ii. 2, 78. *Silb. Rev. Ent.* ii.  
73, 42.

*a—d.* South Africa. Presented by Dr. A. Smith.

## 3. TETTIGOMYIA SCURRA.

Tettigomyia scurra, *Amyot et Serv. Hist. Nat. Hém.* 482, 375.  
*Cicada scurra, Germ. Thon, Arch.* ii. 2, 24. *Silb. Rev. Ent.* ii. 74,  
45.

*a.* South Africa. Presented by Dr. A. Smith.

## 4. TETTIGOMYIA TABANIFORMIS.

*Cicada tabaniformis, Germ. Thon, Arch.*  
*a, b, c.* Cape. From M. Dregé's collection.

## 5. TETTIGOMYIA LUTEA.

*Cicada lutea*, *Oliv. Enc. Méth.* v. 758, 59, pl. 113, f. 15. *Stoll, Cic.* 59, pl. 29, f. 173.

a. Cape. From M. Dregé's collection.

## 6. TETTIGOMYIA MUSCA.

*Cicada musca*, *Oliv. Enc. Méth.* v. 759, 60, pl. 113, f. 16. *Stoll, Cic.* 52, pl. 12, f. 60.

## 7. TETTIGOMYIA VESPIFORMIS.

*Tettigomyia vespiformis*, *Amyot et Serv. Hist. Nat. Ins. Hém.* 482, 375, 1.

La Cigale jaune à anneaux bruns, *Stoll, Cig.* 119, pl. 29, f. 173.

a—d. South Africa. Presented by Dr. A. Smith.

## Genus 18. MOGANNIA.

*Mogannia*, *Amyot et Serv. Hist. Nat. Hém.* 467, 366.

## 1. MOGANNIA ILLUSTRATA.

*Mogannia illustrata*, *Amyot et Serv. Hist. Nat. Hém.* 467, 1.

a. North India. From Mr. Stevens' collection.

b, c. ——— ?

## 2. MOGANNIA NASALIS.

*Mogannia nasalis*, *White, Ann. Nat. Hist.* 1846, xvii. 332.

a—l. Hong Kong, China. Presented by J. Bowring, Esq.



3. *MOGANNIA INDICANS*, Mas et Fem.

*Nervus transversus* 1us *ferè* *erectus*, *angulum vix obtusum* *fungens*, 2o *plus duplò ejus longitudine divisus*; 2us *subcurvus*, *erectus*, *angulum subobtusum* *fungens*, 1o *vix longior*; 3us *rectus*, *obliquus*, *angulum acutum* *fungens*; 4us *rectus*, *obliquus*, *angulum rectum* *fungens*, 3o *brevior*.

Second marginal areolet full two-thirds of the length of the first: first cross-vein straight, nearly upright, forming a hardly obtuse angle, parted from the second by much more than twice its length; second very slightly curved, upright, forming a slightly obtuse angle, hardly longer than the first; third straight, slanting, forming an acute angle; fourth straight, slanting, forming a right angle, shorter than the third; fifth slightly curved, slightly slanting, forming a slightly acute angle.

*Male*.—Body bright red: head much narrower than the chest: face pointed, clothed with black hairs: mouth black, reaching the middle lips: feelers yellow, black at the base: eyes rather prominent: a very large dark ferruginous spot on each side of the fore-chest: scutcheon of the middle-chest adorned with a broad, obconical, oblique, black stripe on each side, whose border is black: breast black: abdomen nearly elliptical, longer and broader than the thorax, blackish towards the base: a black horn on the tip: legs black, hairy; hips and four hinder thighs marked with red: wings colourless, tawny at the base; fore-wings adorned with a very broad brown band which includes a very irregular yellow band; veins yellow, tawny at the base.

*Fem*.—Body nearly all black: a colourless spot on the base of the brown band of the fore-wing.

Length of the body 6—8 lines; of the wings 14—17 lines.

*Var. β*. Mas. Body very dark red.

*a, b*. China. Presented by G. T. Lay, Esq.

*c*. Hong Kong, China. Presented by J. C. Bowring, Esq.

4. *MOGANNIA IGNIFERA*, Mas.

*Nervus transversus* 1us *ferè* *erectus*, *suberectus*, *angulum subobtusum* *fungens*, 2o *ferè triplò ejus longitudine divisus*; 2us *subcurvus*, *subobliquus*, *angulum obtusum* *fungens*, 1o *vix longior*; 3us *rectus*, *obliquus*, *angulum acutum* *fungens*; 4us *subcurvus*, *subobliquus*, *angulum rectum* *fungens*, 3o *vix brevior*.

Second marginal areolet full three-fourths of the length of the first: first cross-vein almost straight, nearly upright, forming a

slightly obtuse angle, parted from the second by nearly thrice its length; second very slightly curved, slightly slanting, forming an obtuse angle, hardly longer than the first; third straight, slanting, forming an acute angle; fourth very slightly curved, slightly slanting, forming a right angle, very little shorter than the third; fifth slightly curved, slightly slanting, forming a slightly obtuse angle. Body dark red, adorned with yellow down, which forms a broad stripe along the back of the abdomen: mouth ferruginous, with a pitchy tip: feelers yellow, pitchy at the base: furrows of the fore-chest pitchy: legs red; claws tawny, with black tips: wings colourless, bright red at the base and along half the length of the fore border; fore-wings bright tawny for near half the length; a brown band adjoins the tawny hue, and proceeds from the fore border to the middle of the disk where it almost ceases; veins yellow, reddish towards the base. Length of the body 8 lines; of the wings 17 lines.

a. Java. From Mr. Argent's collection.

#### 5. MORGANNIA AVICULA, Mas.

*Nervus transversus* 1us rectus, ferè erectus, angulum subobtusum fingens, 2o plus duplò ejus longitudine divisus; 2us vix curvus, ferè erectus, angulum obtusum fingens, 1o longior; 3us rectus, obliquus, angulum rectum fingens; 4us rectus, obliquus, angulum acutum fingens, 3o longior.

Second marginal areolet full three-fourths of the length of the first: first cross-vein straight, nearly upright, forming a slightly obtuse angle, parted from the second by more than twice its length; second very slightly curved, nearly upright, forming an obtuse angle, longer than the first; third straight, slanting, forming a right angle; fourth straight, slanting, forming an acute angle, longer than the third; fifth straight, nearly upright, forming a right angle. Body dark red, clothed with pale tawny down: head pale red, much narrower than the fore-chest: face longer than broad: mouth dark tawny, with a black tip: feelers yellow, black at the base: eyes rather prominent: a pale red stripe extending from the head to the tip of the abdomen: legs pitchy; shanks dark red; claws tawny, with black tips: wings colourless, bright red at the base; fore-wings brown and mottled with tawny for half the length from the base; veins yellow; veins of the hind-wings tawny, red towards the base. Length of the body 6—7 lines; of the wings 16 lines.

a. Philippine Islands. From Mr. Cuming's collection.

b. Java. From Mr. Argent's collection.

## Genus 19. HUECHYS.

Huechys, *Amyot et Serv. Hist. Nat. Hém.* 46, 16.

## 1. HUECHYS SANGUINEA.

Huechys sanguinea, *Amyot et Serv. Hist. Nat. Hém.* 465, 1.

Cicada sanguinea, *Dej. Ins.* iii. 221, 18, pl. 33, f. 17. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 81.

Tettigonia sanguinolenta, *Fabr. Syst. Ent.* 681, 15. *Sp. Ins.* ii. 321, 19. *Mant. Ins.* ii. 267, 24. *Ent. Syst.* iv. 25, 30. *Syst. Rhyn.* 42, 46.

Cicada sanguinolenta, *Oliv. Enc.* v. 756, 45. *Germ. Thon, Arch.* ii. 2, 25. *Silb. Rev. Ent.* ii. 75, 50. *Blanch. Hist. Nat. Ins.* iii. 165, 6. *Guér. Mag. Zool.* 1838, 76, 2.

a, b. Hong Kong, China. Presented by J. C. Bowring, Esq.

c. China. Presented by F. Walker, Esq.

d. Java. Presented by F. Walker, Esq.

e, f. China.

## 2. HUECHYS PHILÆMATA.

Huechys philæmata, *Amyot et Serv. Hist. Nat. Hém.* 465, 2.

Tettigonia philæmata, *Fabr. Syst. Rhyn.* 42, 47. *Stoll, Cic.* 53, pl. 13, f. 62.

Cicada philæmata, *Germ. Thon, Arch.* ii. 2, 26. *Silb. Rev.* ii. 75, 52. *Lurm. Handb. Ent.* ii. 1, 180, 2.

a. Philippine Islands. Presented by J. C. Bowring, Esq.

b, c. Philippine Islands. From Mr. Cuming's collection.

d. East India. From Archdeacon Clerk's collection.

e. North Bengal. From Miss Campbell's collection.

f. Silhet. From the Rev. J. Stainforth's collection.

g—i. Silhet. From Mr. Sowerby's collection.

## 3. HUECHYS INCARNATA.

Huechys incarnata, *Amyot et Serv. Hist. Nat. Hém.* 465, 3.

Cicada incarnata, *Germ. Silb. Rev. Ent.* ii. 75, 51.

Cicada sanguinolenta, *Brull. Hist. Nat. Hém.* ii. pl. 5, f. 2. *Guér. Mag. Zool.* 1838, 77, 3.

Cicada Germari, *Guérin, Voy. de la Favorite, Mag. de Zool.* 1838, Cl. 9, 784, pl. 237, f. 2.

a. Java. Presented by F. Walker, Esq.

b. Java. From Mr. Argent's collection.

c. Java.

## 4. HUECHYS SPLENDIDULA.

*Tettigonia splendidula*, *Fabr. Syst. Ent.* 681. *Sp. Ins.* ii. 321, 20.  
*Mant. Ins.* ii. 267, 25. *Ent. Syst.* iv. 25, 33. *Syst. Rhyn.*  
 42, 49.

*Cicada splendidula*, *Gmel. Ed. Syst. Nat.* i. 3, 2098, 83. *Oliv. Enc. Méth.* v. 756, 47. *Germ. Thon, Arch.* ii. 2, 45, 102. *Guér. Mag. Zool.* 1838, 79, 9.

*a.* East India. Presented by F. Walker, Esq.

*b, c.* North India. From Mr. Warwick's collection.

*d.* Java. From Mr. Argent's collection.

*e.* East India. From Archdeacon Clerk's collection.

*f—h.* Silhet. From the Rev. J. Stainforth's collection.

## 5. HUECHYS TESTACEA.

*Tettigonia testacea*, *Fabr. Mant. Ins.* ii. 267, 23. *Ent. Syst.* iv. 24, 29. *Syst. Rhyn.* 42, 45. *Stoll, Cic.* 41, pl. 8, f. 41.

*Cicada testacea*, *Oliv. Enc.* v. 756, 43, pl. 113, f. 5. *Gmel. Ed. Syst. Nat.* i. 3, 2098, 82. *Germ. Thon, Arch.* ii. 2, 3, 27. *Guér. Mag. Zool.* 1838, 78, 6.

## 6. HUECHYS CROCEA.

*Cicada crocea*, *Guér. Voy. Favorite, Mag. Zool.* 1838, *Ins.* 79, 8, pl. 237, f. 3. *Voy. Coquille, Zool.* 2, 182.

## 7. HUECHYS TRABEATA.

*Cicada trabeata*, *Germ. Thon, Arch.* 2, fasc. 2, 3, 28. *Guér. Mag. Zool.* 1838, 78, 7.

## 8. HUECHYS PHÆNICURA.

*Cicada phænicura*, *Germ. Silb. Rev. Ent.* ii. 76, 53. *Guér. Icon. Regn. Anim.* 1838, 78, 5.

## 9. HUECHYS VIDUA.

*Huechys vidua*, *White, Ann. Nat. Hist.* 1846, xvii. 332.

*a.* New Holland. Presented by the Entomological Club.

*b, c.* ——— ?

## 10. HUECHYS OCTONOTATA.

*Cicada octonotata*, *Westw. Arc. Ent.* 33, pl. 57, f. 2.

a. Silhet. From the Rev. J. Stainforth's collection.

## Genus 20. GÆANA.

*Gæana*, *Amyot et Serr. Hist. Nat. Hém.* 463, 362.

*Group 1.*

First cross-vein slightly waved, very slanting, forming a very acute angle, parted from the second by much less than twice its length; second slightly waved, slanting, forming an extremely obtuse angle, a little longer than the first, third very slightly waved, slanting, forming an acute angle; fourth nearly straight, slanting, forming a slightly acute angle, hardly longer than the third; fifth nearly straight, upright, forming a very slightly acute or obtuse angle.

## 1. GÆANA MACULATA.

*Gæana maculata*, *Amyot et Serr. Hist. Nat. Hém.* 464, 1.

*Tettigonia maculata*, *Fabr. Syst. Ent. App.* 831. *Sp. Ins.* ii. 319, 8. *Mant. Ins.* ii. 266, 12. *Ent. Syst.* iv. 20, 12. *Syst. Rhyu.* 37, 18.

*Cicada maculata*, *Drury, Ins.* ii. 69, pl. 37, f. 1. *Gmel. Ed. Syst. Nat.* i. 3, 2100, 94. *Oliv. Enc.* v. 750, 20, pl. 112, f. 4. *Germ. Thon, Arch.* ii. 2, 12. *Silb. Rev. Ent.* ii. 74, 48.

a, b. China. Presented by J. C. Bowring, Esq.

c—i. China.

## 2. GÆANA CONSORS.

*Gæana consors*, *White, Proc. Zool. Soc.* 1850.

*Group 2.*

First cross-vein curved, very slightly oblique, forming a hardly obtuse angle, parted from the second by twice its length; second

much curved, nearly upright, forming a slightly acute angle, longer than the first; third very slightly waved, very oblique, forming a very acute angle; fourth very slightly curved, oblique, forming a slightly acute angle, longer than the third; fifth slightly curved, upright, forming a hardly acute angle.

### 3. GÆANA SULPHUREA.

*Cicada sulphurea*, *Hope, Royle's Illustr. Himal. Mount. Pt. 9, pl. 10, f. 2. Introd. liv.*

*Cicada pulchella*, *Westw. Arc. Ent. 33, pl. 57, f. 1.*

*a, b.* Nepaul. From the Hardwicke bequest.

*c.* North India. From Mr. Warwick's collection.

*d, e.* North India. From Mr. L. James's collection.

### Group 3.

First cross-vein much curved, slightly slanting, forming a hardly obtuse angle, parted from the second by full four times its length; second very slightly waved, extremely slanting, forming an extremely obtuse angle, very much longer than the first; third deeply waved, slanting, forming an acute angle; fourth very slightly curved, upright, forming a hardly obtuse angle, a little shorter than the third; fifth slightly curved, a little slanting, forming a hardly acute angle.

### 4. GÆANA CONSOBRINA.

*Gæana consobrina*, *White, Proc. Zool. Soc. 1850.*

### Genus 21. CYSTOSOMA.

*Cystosoma*, *Westw. Arc. Ent. 1842, 92.*

#### 1. CYSTOSOMA SAUNDERSII.

*Cystosoma Saundersii*, *Westw. Arc. Ent. 1842, 92, pl. 24, f. 1.*  
*Amyot et Serv. Hist. Nat. Ins. Hém. 460, 1. Lucas, Ann. Soc. Ent. Fr. 2me Série, iv. Bull. Ent. 101.*

*a, b.* New Holland. From Mr. Argent's collection.

## Genus 22. HEMIDICTYA.

Hemidictya, *Burm. Handb. Ent.* ii. 1, 178, 1.

## 1. HEMIDICTYA FRONDOSA.

Hemidictya frondosa, *Burm. Handb. Ent.* ii. 1, 178, 1. *Westw. Arc. Ent.* 1842, pl. 24, f. 3. *Amyot et Serv. Hist. Nat. Ins. Hém.* 461, 1.

## ADDENDUM.

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### 2. TETTIGADES COMPACTA, FERR.

*Nervus transversus 1us rectus, valdè obliquus, angulum perobtusum fingens, 2o ejus longitudine divisus; 2us subcurvus, valdè obliquus, angulum perobtusum fingens, 1o paulò brevior; 3us incurvus, ferè erectus, angulum obtusum fingens; 4us excurvus, erectus, angulum obtusum fingens, 3i longitudine.*

Second marginal areolet longer than the first: first cross-vein straight, very slanting, forming an extremely obtuse angle, parted from the second by its length: second very slightly curved, very slanting, forming an extremely obtuse angle, a little shorter than the first: third curved inward, nearly upright, forming an obtuse angle: fourth curved outward, upright, forming an obtuse angle, as long as the third: fifth very slightly curved, slightly slanting, forming an acute angle. Body black, short, broad, clothed with tawny hairs: head narrower than the fore-chest: face notched in front, adorned with some tawny dots: mouth tawny, with a black tip, reaching the middle hips: feelers black, eyes prominent: hind border and sides of the fore-chest tawny; sides slightly angular: hind border of the middle chest tawny, very slightly excavated: abdomen black, obconical, a little narrower and longer than the chest: a tawny stripe on each side beneath: legs black, clothed with tawny hairs: thighs tawny beneath: four posterior shanks tawny, with black tips: fore-thighs armed with two tawny teeth of moderate size: wings colourless: veins tawny, clouded in the disk with pale brown: most of the cross-veins brown; fore-flaps luteous. Length of the body 8 lines: of the wings 20 lines.

a. West Coast of America. Presented by Captain Kellott and Lieutenant Wood.



## SYNONYMS OF THE GENERA.

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### Order I. CICADINA.

Auchenorrhynchi, *Duméril, Amyot et Serville.*  
Cicadariæ, *Latr.*

### Fam. I. STRIDULANTIA.

Stridulantes, *Latr., Amyot et Serville.*

Cicadidæ, *Westw.*

Cicadæ Hemipteræ (Genera *Platypleura, Oxypleura, Huechys*)  
*Burm. Handb. Ent. ii. 179, 180.*

Cicadæ Microcephalæ (Genera *Gæana, Carineta, Tettigomyia*)  
*Burm. Handb. Ent. ii. 180.*

Cicadæ Macrocephalæ (Genus *Cicada*), *Burm. Handb. Ent. ii. 181.*

Cicadæ Trachelophyllæ (Genus *Zammara*), *Burm. Handb. Ent. ii. 182.*

Cicadæ Megistæ (Genus *Fidicina*), *Burm. Handb. Ent. ii. 183.*

Stridulantes Reticelli Polyneuerides (Genera *Polyneura, Cystosoma, Hemydictya*), *Amyot et Serville, Hist. Nat. Hém. 459, 460.*

Stridulantes Octicelli Tosenides (Genera *Tacua, Tosena, Pycna, Gæana, Huechys, Platypleura, Hemisciera, Mogannia*), *Amyot et Serville, Hist. Nat. Hém. 461.*

Stridulantes Octicelli Cicadides (Genera *Zammara, Oxypleura, Tettigades, Cyclochila, Dundubia, Thopha, Fidicina, Cicada, Tettigomyia, Carineta*), *Amyot et Serville, Hist. Nat. Hém. 468.*

## Genus 1. POLYNEURA

This genus resembles the Fulgorina in the neuration of the forewings, and with Platypleura, Oxypleura and Zammara, forms a group of Stridulantia distinguished by the lateral development of the prothorax, and in general by the coloured wings.

## Genus 2. PYCNA.

Cicada, *Brullé*.

## Genus 3. PLATYPLEURA.

Cicada, *Lim. Sulzer, Petiver, Olivier, Gmelin, Deg. Rumphius, Drury, Germar, Burmeister, Blanchard.*

Scarabæus, *Seba.*

Tettigonia, *Fabr.*

## Genus 4. OXYPLEURA.

Tettigonia, *Fabr.*

Cicada, *Olivier, Gmelin, Germar.*

## Genus 5. ZAMMARA.

Tettigonia, *Fabr.*

Cicada, *Palisot-Beauvois, Germar, Perty, Burmeister, Blanchard.*

## Genus 6. THOPHA.

Tettigonia, *Fabr.*

Cicada, *Germar, Guérin.*

## Genus 7. CYCLOCHILA.

Tettigonia, *Donovan, Leach.*

Cicada, *Germar, Burmeister.*

## Genus 8. TACUA.

Tettigonia, *Illiger, Fabr.*

Cicada, *Donovan, Blanchard.*

## Genus 9. TOSENA.

*Tettigonia*, *Fabr.*

*Cicada*, *Olivier*, *Germar*, *Blanchard*.

This genus has a spine on each side of the fore-chest like that of *Dundubia*, to which it is nearly allied, but is distinguished by its coloured wings, and by the well-defined band of transverse veins on the fore-wings.

## Genus 10. DUNDUBIA.

*Tettigonia*, *Fabr.*

*Cicada*, *Olivier*, *Gmelin*, *Germar*, *Boisduval*, *Westwood*, *Signoret*.

The opercula of the male in this genus are very variable as to size; in some species they are excessively developed and as long as the abdomen; in others they are very small or of moderate length.

## Genus 11. FIDICINA.

*Cicada*, *Linn.*, *Deg.* *Olivier*, *Gmelin*, *Houttuin*, *Lamarck*, *Germar*,  
*Say*, *Harris*, *Burmeister*, *Blanchard*, *Signoret*, *Carreno*.

*Tettigonia*, *Fabr.*

*Cicada* has three jointed tarsi; in *Fidicina* the tarsi are said to have but two joints, the third being very minute or almost obsolete, but the genera are hardly distinct, and *Fidicina* is most closely allied to the larger species of *Cicada*. The variation of structure in the opercula of the male is one of the specific characters.

## Genus 12. CICADA.

*Tettigonia*, *Fabr.* *Panzer*, *Leach*.

*Tibicen* (Ex. *C. hæmatodes*), *Latr.*, *Brullé*.

*Hemisciera* (Ex. *C. capensis*), *Amyot et Serville*.

The variations in this genus may be gathered into fifty groups or upwards, but these, although so numerous, would be indefinite as to their limits, would hardly afford sectional characters, and would not comprise very many species; and the divisions are therefore deferred until they can be more fully established.

## Genus 15. CARINETA.

*Tettigonia*, *Fabr.*

*Cicada*, *Olivier*, *Gmelin*, *Germar*, *Perty*, *Burmeister*, *Guérin*, *Blanchard*.

## Genus 17. TETTIGOMYIA.

*Cicada*, *Olivier*, *Germar*.

## Genus 19. HUECHYS.

*Tettigonia*, *Fabr*.

*Cicada*, *Deq. Olivier*, *Gmelin*, *Germar*, *Burmeister*, *Guérin*, *Blanchard*, *Brullé*, *Westwood*.

## Genus 20. GÆANA.

*Tettigonia*, *Fabr*.

*Cicada*, *Drury*, *Olivier*, *Gmelin*, *Germar*, *Hope*, *Westwood*.







