

*Stewartii*, as I have figured it, will also remain. Chemnitz, however, has described a shell which he calls *HELIX Lugubris*, and which is figured by Ferrussac in the splendid work just mentioned—this also is a variety of the same species as our shell, and of course has the priority in name. If therefore the nomenclature is to be changed, it should stand as follows:—

*ACHATINA Lugubris*

*Synonyms*

*HELIX Lugubris*, Chemnitz.

—— *Lorata*, Ferrussac.

—— *Luteolata*, Do.

—— *Vulpina*, Do.

*ACHATINA Stewartii*, Green.

It may not be uninteresting to some, to mention, that Chemnitz informs us that so high a value was placed by the shell dealers on the *Achatina Lugubris*, when first brought to Europe, that he was obliged to give two guineas for his specimen.

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*Descriptions of new species of HYMENOPTERA of the United States.* BY THOMAS SAY. Read March 3, 1828.

*AULACUS. JURINE.*

*A. fasciatus.* Wings violaceous with a hyaline band.

*Inhab.* Ohio.

*Body* black; *thorax* confluentlly punctured almost in transverse grooves; *wings* violaceous with a hyaline band on the middle, hardly reaching the anal margin; *abdomen* much compressed; *oviduct* longer than the abdomen; much incurved at tip.

Length half an inch.



ICHNEUMON. LINN. FABR.

1. *I. parata*. Antennæ black with a whitish annulation; tergum yellow, with five or six blackish bands.  
*Inhab.* Indiana.

*Head* yellow; disk of the vertex and of the occiput black; *antennæ* black; basal and second joints beneath and 15, 16, 17, 18, 19 and 20 joints pale yellowish; *thorax* black; band on the collar, line each side extending to the wings, and interrupted before, and small quadrate spot on the disk, yellow; *scutel* and small spot behind it, yellow; *metathorax*, posterior disk, yellow; *wings* somewhat dusky with fuscous nervures; *stigmata* pale brownish; *central cellule* pentangular and transverse, not at all oblique, the superior side very short; *tergum*, basal segment with the basal incisure, and spot on the disk near the tip, black; remaining segments with a blackish band at their bases more or less emarginated in their middles; *beneath* yellow; *pectus* and *postpectus* with the transverse incisure, black; *posterior* feet, *coxæ* above excepting at tip, *thighs* excepting at base, *tibiæ* at tip and first and second joints of the *tarsi*, black; *venter* with paler and less perfect bands than those of the tergum.

Var. a. Intermediate thighs black on their middles above.

Length two-fifths of an inch.

2. *I. concinnus*. Antennæ black with a white annulation; tergum white with six or seven broad black bands.  
*Inhab.* Indiana.

*Head* white; a broad black vitta extending from the antennæ to the black occiput, two black abbreviated lines beneath the antennæ, each terminating near an indented point; *mandibles* brown at tip, a black line from their base to the tip; *antennæ* black; 9 to the 17 joints inclu-



sive, white; *collar* yellow, anterior portion black; *thorax* with a narrow line before the wings widely interrupted before; a double much abbreviated white line in the middle; *scutel* and small transverse line behind it, white; *metathorax* with two longitudinal white lines, on each of which is a spine, and a lateral white line interrupted above; *tergum* yellow; terminal half of the first segment, and basal two-thirds of each of the others, black; *pectus* black; *feet* honey-yellow; *coxæ* white; *posterior feet*, *coxæ* with a wide much indented black band; thighs blackish at base; *venter* somewhat dusky; *central cellule* of the wings as in the preceding.

♀ A single line beneath the antennæ and an irregular line above the mouth, black; double white line of the thorax widely separated; an abbreviated, oblique white line from the angles of the scutel towards the superior wings; *tergum* with the black band of the first segment not terminal; *feet* honey-yellow; *coxæ*, excepting the posterior pair, white; tips of the tarsi black; *oviduct* blackish, piceous, less than half the length of the abdomen.

Length over two-fifths of an inch.

Second joint of the maxillary palpi dilated as in *PELTASTES*, Illig.

3. *I. otiosus*. Antennæ black with a white annulation; tergum black with a white band on the basal segment.

*Inhab.* Indiana.

*Body* black; *head* with a white orbital line, broader before and obsolete above; *antennæ*, 9 to the 14 joints, inclusive, white; *thorax* with a line before the wings, interrupted before, and two abbreviated lines on the disk slightly diverging anteriorly, white; *scutel* and transverse spot behind it, white; *central cellule* of the wings



as in the preceding, but the superior side is somewhat shorter; *tergum*, first segment with a triangular band at tip; *pleura* with a white, longitudinal, abbreviated line beneath the wings, and one or two spots behind; *beneath* with a white spot before the anterior and intermediate coxæ; *tibiæ* white line on their exterior sides; *posterior tarsi*, first and second joints with a white line above.

Length more than half an inch.

Second joint of the maxillary palpi dilated as in PELTASTES, Illig.

4. *I. vinctus*. Black; abdomen rufous.

*Inhab.* Indiana.

*Body* black; *head* above the antennæ and occiput, black; orbital line interrupted behind, and all beneath the antennæ except the incisures, white; *antennæ*, basal joint beneath, white; *collar* with a white line; *thorax* with a short white line above the anterior wing and another below it, from the anterior extremity of these lines, a white line proceeds, and is interrupted before; two impressed dorsal lines obsolete behind; *scutel* and obsolete point behind it, white; *wings*, central cellule pentangular, transverse; *metathorax* with somewhat elevated rugæ, enclosing a pentangular space, from the angles of which abbreviated lines diverge, the two posterior of which terminate at the short tubercles; *feet*, anterior and intermediate pairs, pale whitish yellow, the coxæ white with a black spot behind, the thighs with a black line and tibiæ of the anterior pair also with a black line; *posterior* pair black, 2nd, 3rd, and 4th joints of the tarsi, white; *abdomen* bright rufous, immaculate.

Length ♂ half an inch.



5. *I. inquisitor*. Black; feet honey-yellow; posterior tibiæ white, biannulate with black.

*Inhab.* Indiana.

*Body* black; *palpi* whitish; *thorax* with a white spot at the anterior base of the superior wings; *wings*, central cellule quadrangular, longitudinal, narrowed a little to the tip; *feet* honey-yellow; posterior tibiæ white, a black annulus near the base and another somewhat larger at tip; joints of the posterior tarsi whitish, blackish at their tips; *oviduct* nearly as long as the abdomen.

Length one-fourth of an inch.

Preys upon the larva (of a *Bruchus*?) that feeds on the seeds of the Clematis.

6. *I. pterelas*. Black; feet honey-yellow; oviduct elongated.

*Inhab.* Indiana.

*Body* black, immaculate; *antennæ* piceous beneath; *palpi* whitish; *wings*, central cellule subquadrangular, almost triangular, rather longitudinal; *posterior tibiæ* and *tarsi*, dusky; *oviduct* nearly as long as the body, aculeus piceous.

Length three-fifths of an inch.

Belongs to the genus *PIMPLA*, Fabr.

7. *I. hilaris*. Yellowish; head black, beneath the antennæ yellowish.

*Inhab.* Indiana.

*Body* yellowish, approaching honey-yellow; *head* above the antennæ and occiput, black; beneath the antennæ and mouth yellow, a transverse black line above the mouth; *antennæ* dusky yellowish beneath, and still darker above, shorter than the body; *thorax* with an obsolete, double, paler yellowish line; *wings* hyaline; cen-



tral cellule small, quadrangular, longitudinal, somewhat oblique, not distinctly narrowed at either end; *posterior tarsi* at their tips dusky; *abdomen* depressed; *venter* with a dusky spot near the tip.

Length ♂ nearly three-tenths of an inch.

8. *I. malacus*. *Body* black; *antennæ* annulate with white, beginning at the tenth joint and terminating at the eighteenth; joints very distinct; *wings* blackish; small cellule with one bulla, larger anal cellule with three bullæ and two short processes; *metathorax* with elevated lines; *abdomen* with an impressed line each side.

Length more than half an inch.

9. *I. pectoralis*. Black; abdomen rufous; *antennæ* blackish, whitish near the middle.

*Inhab.* Indiana.

*Body* black; *orbits* and all beneath the *antennæ*, yellow; *antennæ* blackish, 13, 14, 15, 16 joints white; *thorax* with a white line before the wings, interrupted before; *scutellum* and transverse line beneath it, yellow; *wings* hyaline, central cellule pentangular, transverse; *pleura* black; *pectus* black, with a large yellow spot between the intermediate and posterior feet; *feet* yellow; posterior thighs tinged with rufous; posterior tibiæ rufous at tip; *abdomen* rufous, with black incisures.

Length over one-fifth of an inch.

10. *I. bifasciatus*. Ferruginous; wings dusky, bifasciate.

*Inhab.* Indiana.

*Body* ferruginous; *antennæ* somewhat tinged with whitish beyond the middle and fuscous at tip; *thorax* circumscribing incisure black; *wings* dusky with a hya-



line band hardly beyond the middle and an abbreviated one nearer the tip; stigma pale ferruginous; *inferior wings* dusky, with a semifasciate on the middle with hyaline; *oviduct* black; *pectus* incisures black; *posterior tibiæ* blackish at tip.

Length two-fifths of an inch.

11. *I. morulus*. Black; antennæ with a white annulation.

*Inhab.* Indiana.

*Body* black; *antennæ* with a white annulation beginning at the tenth or eleventh joint and ending at the sixteenth or seventeenth; *wings* violet-black; recurrent nervures of the small cellule, with each a salient angle; on the anterior one a whitish dot and on the posterior one two whitish dots; a dot also on the posterior nervure of the small cellule; *metathorax* with elevated lines and each side behind an acute angle; *abdomen* with a short petiole, which is lineated; second segment opaque with confluent punctures, larger towards the base; colour blue-black; *oviduct* hardly obvious.

Length three-fifths of an inch.

Second joint of maxillary palpi dilated as in *PELTASTES*, Illig.

12. *I. residuus*. Yellowish; antennæ white in the middle and black at tip.

*Inhab.* Indiana.

*Body* yellowish, tinged with rufous; *antennæ* not longer than the thorax, the 10 basal joints colour of the body, 11 to 16 whitish, the remaining joints black; *wings* hyaline; central cellule pentangular; *posterior tibiæ* at tip, and *posterior tarsi*, dusky.

Length more than one-fourth of an inch.



ANOMALON. JURINE.

1. *A. sexlineata*. Black; feet rufous; metathorax with six raised lines.

*Inhab.* Indiana.

*Body* black; *antennæ* piceous beneath, rather shorter than the body; *palpi* yellowish; *thorax* subtrilobate, the impressed lines being deep and wide; *wings* a little dusky, a small whitish spot on the beginning of the carp; central cellule none; *metathorax* densely punctured, with six longitudinal, slightly elevated lines, two of which are on the sides; *feet* rufous; posterior tibiæ and their tarsi dusky; *tergum*, first segment densely and finely punctured; *oviduct* hardly as long as the abdomen.

Length three-twentieths of an inch.

2. *A. humerale*. Black; antennæ with a white cinctus.

*Inhab.* Indiana.

*Body* black, punctured; *antennæ*, 12, 13, 14 and 15th joints white; *thorax* with an acute tubercle on the humerus; somewhat elongated before the wings; *metathorax* with two acute tubercles each side at tip; *tergum*, second segment with an impressed oblique line each side at the basal angles; *oviduct* longer than the abdomen; *knees* white.

Length ♀ more than half an inch.

3. *A. mellipes*. Black; feet honey-yellow.

*Inhab.* Indiana.

*Body* black, polished; *palpi* whitish; *wings* hyaline, with a slight fuliginous tinge; larger middle cellule with three white bullæ; *oviduct* as long as the body; *feet* honey-yellow.

Length more than two-fifths of an inch.



OPHION. FABR.

1. *O. bilineatus*. Honey-yellow; head yellow; thorax with two darker lines.

*Inhab.* Indiana.

*Head* yellow; *antennæ* honey-yellow; *mandibles* blackish at tip; *thorax* with two somewhat reddish-brown lines almost obsolete; *wings* with fuscous nervures; costal nervure and carpal spot honey-yellow; the latter dilated conspicuous; larger central cellule acutely angulated at tip; smaller central cellule angulated at the superior basal angle and with a very slight process, its terminal nervure almost obliterated on the outer half, its outer nervure almost obliterated in the middle and white in that part; the two terminal connecting nervures forming an acute angle; *pleura* paler than the thorax; *abdomen*, second segment hardly as long as the first and longer than the third.

Length seven-twentieths of an inch.

2. *O. analis*. Reddish-brown; head above black, beneath the antennæ yellow; abdomen black at tip.

*Inhab.* Indiana.

*Head* above the antennæ black; beneath the antennæ yellow; *occiput* black, reddish-brown each side; *antennæ* dark reddish-brown almost black, at base black; beneath somewhat paler, darker towards the base, radical joint yellow at base; *thorax* reddish-brown, with a large blackish disk, divided into three wide lines by two impressed lines; sutures of the scutel and metathorax black; *wings* the larger central cellule obtuse at tip; smaller central cellule with a small angle at tip, where it is widest, very obtusely rounded at the superior basal angle; do not meet and form an angle, carpal spot slender; *pectus* black; *posterior thighs* blackish at base, their coxæ with



a black spot, their tibiæ dusky at tip and their tarsi yellow; *abdomen* black at tip and on the superior edge of the second segment, which is at least as long as the first segment.

Length ♀ nearly three-fifths of an inch.

3. *O. geminatus*. Yellowish; vertex with a black spot; larger central cellule of the wings obtuse at tip.

*Inhab.* Indiana.

*Body* dull yellowish; *head* yellow; *vertex* black; *antennæ* somewhat shorter than the body, tinged with brown, the first joint yellow; *wings* hyaline, with fuscous nervures and honey-yellow somewhat dilated carpal spot; larger central cellule obtuse at tip, the nervure of the tip double; smaller central cellule very obtusely rounded at the superior basal angle; *pleura* and *pectus* pale yellowish; *abdomen*, second segment obviously shorter than the first, and not longer than the third.

Length about two-fifths of an inch.

This species closely resembles *O. bilineatus*, Nob. but is much smaller, and the arrangement of the wing-nervures prove it to be a different species.

4. *O. emarginalus*. Black; antennæ fuscous; feet honey-yellow.

*Inhab.* Indiana.

*Body* black, sericeous with short hair; *head* convex beneath the antennæ, at the base of which the head is much more prominent than immediately above the antennæ where the head is indented; *antennæ* short, above dark fuscous, beneath paler, first joint rather large; *palpi* white; *thorax* immaculate; *metathorax* with four longitudinal slightly raised lines; *wings* hyaline with fuscous nervures and carpal spot; larger central cellule obtuse or



rather truncated at tip, and emarginated by the curvature of the radial cellule; smaller central cellule with a small angle at tip, where it is widest, and gradually tapering to its opposite extremity without any curvature; *feet* honey-yellow, short, anterior coxæ with a whitish reflexion; *abdomen* short, almost sessile, not compressed.

Length about one-fifth of an inch.

ALYSIA. LATR.

1. *A. ridibunda*. Rufous; head, wings and tip of the tergum, black.

*Inhab.* Indiana.

*Body* yellowish-rufous; *head* black, a rufous spot each side of the mouth; *antennæ* longer than the body; *wings* blackish; central cellule large, longitudinal, acute before, nervure connecting with the carpal spot placed obviously behind the middle of the cellule; *feet* black; tibiæ and tarsi more or less tinged with dull rufous; *tergum* depressed, near the tip a large black spot.

Length ♂ nearly one-fifth of an inch.

2. *A. pallipes*. Black; feet, abdomen at base and antennæ at base, white.

*Inhab.* Indiana.

*Body* black, polished; *antennæ* fuscous, first and second joints whitish; *mandibles* piceous; *wings* hyaline, central cellule in length equal to double its greatest width; *feet* white; *abdomen* white at base.

Length one-twentieth of an inch.

BRACON. JUR. FAB. LATR.

1. *B. exhalans*. Black; abdomen sanguineous.

*Inhab.* Indiana.

*Head* black; *palpi* whitish; *antennæ* shorter than the



body; *thorax* black; *wings* blackish, second cubital cellule longitudinal, quadrangular, acute at base, nervure connecting with the carpal spot placed obviously before the middle of the cellule; *feet* blackish; *abdomen* sanguineous; *oviduct* shorter than the body, blackish; *metathorax* simple pale reddish.

Length more than three-twentieths of an inch.

2. *B. honestor*. Yellowish-rufous; wings blackish, with a whitish band and tip.

*Inhab.* Indiana.

*Body* rufous, slightly tinged with yellow; *antennæ* rather longer than the body; *thorax* somewhat trilobate, the posterior segment being canaliculate; *wings* dusky, with black nervures and rather large carpal spot; a narrow, transverse, whitish band beyond the middle, and whitish tip; *posterior tibiæ* dusky, whitish at base and at the terminal incisure; *abdomen* clovate, almost pedunculated; *oviduct* longer than the abdomen.

Length one-fifth of an inch.

Second cubital cellule elongated.

3. *B. truncator*. Pale honey-yellow; vertex with a black spot.

*Inhab.* Indiana.

*Body* pale honey-yellow, polished, impunctured; *antennæ* fuscous, honey-yellow at base; *stemmata* in a black spot; *palpi* whitish toward the tip; *metathorax* slightly punctured; *abdomen* much compressed, truncate.

Length nearly one-fourth of an inch.

#### PERILAMPUS. LATR.

1. *P. triangularis*. Green and blue; tarsi yellow; wings dusky at tip.



*Inhab.* Indiana.

*Body* polished; *head* green with a violaceous reflection, each side before vertically striate; *occiput* transversely striate; *antennæ*, flagellum fuscous; *thorax* transversely and longitudinally striated, violaceous, the collar punctured, green; *scutel* much elongated, entire; *wings* dusky on the apical half; *abdomen* very short, wide, triangular, very convex above and beneath; anterior half, violaceous, posterior half, green with a violaceous reflection; *tarsi* yellow.

Length one-fifth of an inch.

2. *P. hyalinus*. Green; wings hyaline.

*Inhab.* Pennsylvania.

*Body* green, punctured; *scutel* much elongated, slightly emarginate; *wings* hyaline, immaculate; *abdomen* very short, wide, triangular, very convex above and beneath, violaceous; *tarsi* yellowish; *anterior* tibiæ honey-yellow.

Length less than one-fifth of an inch.

Differs from the preceding in being destitute of the dusky wing tips and in having punctures instead of striæ.

#### SPALANGIUS, LATR.

*S. politus*. Bluish-green; tergum with a cupreous band at base.

*Inhab.* Virginia.

*Body* bluish-green, varied with violaceous, densely punctured; *front* grooved to receive the basal joint of the antennæ; *flagellum* fuscous; *wings* hyaline, slightly dusky; *scutel* somewhat prominent; *abdomen* a little depressed; first segment brilliant cupreous; incisures glabrous; *terminal* segment longer than the others together, forming at tip a narrowed, carinated black pro-



cess for the reception of the tip of the oviduct beneath; *feet* dull honey-yellow.

Length ♀ seven-twentieths of an inch.

I found this species on the sea beach of Senipuxent Island.

CODRUS. JUR.

*C. pallidus*. Pale honey-yellow.

*Inhab.* Indiana.

*Body* pale honey-yellow; *antennæ*, excepting the basal joint, fuscous; *stethidium*, incisures black; *wings* hyaline; stigma distinct, pale brown.

Length nearly three-tenths of an inch.

SERLION. LATR.

*S. terminalis*. *Antennæ*, terminal joint white; wings unifasciate.

*Inhab.* Indiana.

*Body* somewhat piceous; *head* yellowish; *antennæ* broken, blackish; first joint nearly as long as the others together; terminal joint dilated, compressed, subtriangular, white; *wings* with a broad dusky band; intermediate tarsi white except at tip.

Length more than one-twentieth of an inch.

PSILUS. JURINE.

1. *P. ciliatus*. Black; feet whitish; hairs of the wings elongated.

*Inhab.* Indiana.

*Body* black, polished; *antennæ* with an oblong-oval acute club, at base honey-yellow; *petiole* of the abdomen and *feet* honey-yellow; *wings* deeply ciliated, the hairs longer than the transverse diameter of the wings.

Length less than one-twentieth of an inch.



2. *P. obtusus*. Black; feet whitish, thighs black in the middle.

*Inhab.* Indiana.

*Body* black, polished; *antennæ* fuscous; *anterior wings* wide and very obtuse, finely ciliated, *ciliæ* very short; *feet* whitish; *thighs* black, white at base and tip; *coxæ* black.

Length nearly one-twentieth of an inch.

#### PLATYGASTER. LATR.

*P. pallipes*. *Body* black; *antennæ* fuscous, moniliform; basal joint honey-yellow; *wings* hyaline; *abdomen* polished, much depressed; widest near the tip and obtuse, gradually and rectilinearly a little narrowed to the base; *feet* whitish-yellow.

Length one-thirtieth of an inch.

#### BETHYLUS. LATR.

*B. armiferus*. Black; tergum with elongated white hairs.

*Inhab.* Indiana.

*Body* entirely black, immaculate, with short hairs; *head* covered with discoidal punctures; *tergum* polished, with a few elongated, rigid, white hairs, as long as two of the segments taken together.

Length seven-twentieths of an inch.

#### DRYINUS. LATR.

*D. bifasciatus*. Yellowish; wings bifasciate.

*Inhab.* Indiana.

*Body* honey-yellow, varied with blackish; *anterior thighs* dilated; *wings* with two fuscous bands, the apical one broader.

Length rather more than one-fifth of an inch.



CHRYISIS. LINN. LATR.

1. *C. pacifica*. Green; anal segment mutic; tarsi fuscous.

*Inhab.* Indiana.

*Body* green with a slight bluish tinge, with short hairs; *antennæ*, five or six terminal joints fuscous; *wings* hyaline, a little brownish on the costal margin beyond the stigma; *tergum* more particularly tinged with bluish; anal segment rounded, subtruncate, unarmed; *tarsi* fuscous, basal joint above green.

Length about three-tenths of an inch.

2. *C. carinata*. Bluish; abdomen subtridentate.

*Inhab.* Indiana.

*Body* greenish-blue varied with purplish; *front*, from the antennæ to the middle, with numerous whitish hairs; *antennæ* fuscous, green at base; *metathorax* lateral tubercles acute; middle termination subacute; *tergum*, anal segment carinate, the carina extending beyond the edge into an acute tooth; lateral angles acute; *tarsi* fuscous.

Length three-tenths of an inch.

HEDYCRIMUM. LATR.

*H. sinuosum*. Reddish-coppery; wings fuliginous at tip.

*Inhab.* Indiana.

*Body* reddish-coppery, polished, punctured; *front* concave, greenish; *antennæ* fuscous, green at base; *metathorax* acute at the posterior angles; *wings* beyond the middle fuliginous; *tergum* blue-purple; terminal segment hardly as long as the penultimate, with a sinus at tip; *beneath* green; *tarsi* fuscous.

Length about one-fifth of an inch.



TIPHIA. FABR. LATR.

*T. transversa*. Blue-black, somewhat hairy.

*Inhab.* Indiana.

*Body* black, with a slight bluish or purplish reflection; with numerous whitish hairs; immaculate, punctured; *antennæ* black, opaque; *mandibles* piceous at tip; *palpi* fuscous; *wings* a little dusky, hyaline; nervures black; apical line of the second cubital cellule transverse, rectilinear; *metathorax* each side striated, above with three slightly elevated longitudinal lines and a posterior transverse one; *abdomen*, first segment narrower than the second, somewhat gibbous above and flat beneath, the incisure indented; remaining segments more hairy, ciliated; *tibiæ* and *tarsi* with silvery hairs.

Length nearly half an inch.

(*To be continued.*)

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The Lyceum intends giving illustrations, as fine specimens offer, of North American Reptiles, so that in time a complete monograph may be presented. Plate No. 5, is from a drawing very kindly made by Mr. Titian Peale from an individual taken by Mr. Jacob Gilliams last summer, in Maryland, being rather farther north than usual. It is the *COLUBER getulus*, LIN. Syst. Nat. idem GMELIN, Syst. Nat. p. 1106. *La Chainé*, DAUB. En. Method, idem LACEPEDE, Hist. des Serpens in 12 tom. tom. ii. p. 89. *La Couleuvre Chainé*, LATR. Hist. Nat. des Serpens in 18 tom. tom. iv. p. 174. *The Chain Snake*, CATESBY, Hist. of Carolina, pl. lii. *La Couleuvre Gitule*, DAUD. pl. lxxvii. fig. 1.