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#### Entomologica Americana.

[Lawrence, Kan., etc.]New York Entomological Society [etc.] http://www.biodiversitylibrary.org/bibliography/9429

v. 5 1889: http://www.biodiversitylibrary.org/item/42392 Page(s): Title Page, Page 2, Page 3, Page 4, Page 5, Page 6

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VOL. V.

BROOKLYN, JANUARY, 1889.

NO. 1.

## A GENERIC SYNOPSIS OF THE FULGORIDÆ.

By Wm. H. ASHMEAD.

[Continued from page 141, Vol. IV.]

### FAMILY II. FULGORIDÆ.

Head of various forms, often with a cephalic prolongation and sometimes luminous. The frons nearly always keeled. Ocelli 2, rarely 3 or wanting, placed beneath the eyes or sunken in the cheeks close to the eye, the third ocellus, when present, placed in the middle of the frons. Antennæ always beneath the eye, usually large, distinct, the joints of which are frequently long and dilated, sometimes with an appendage. Thorax weak, usually keeled; scutellum small. Wings usually long and strongly veined, often short but rarely entirely wanting. Tegulæ most frequently present. Anterior coxæ generally elongated; posterior coxæ transverse, contiguous, extending from the sides of the body. Tibiæ prismatic or foliaceous. Tarsi 3-jointed, generally spined.

This is one of the most extensive of the homopterous families, well represented in North America, and comprises some of the most curious and interesting forms to be found among insects.

The family may be divided into ten subfamilies, recognizable by the aid of the following table:

#### TABLE OF SUBFAMILIES.

Wings when at rest not lying perpendicular in repose.

Wings when at rest lying perpendicular in repose.

External border of elytra without transverse, parallel nervures

Subfamily I. ACANONIINÆ.

External border of elytra with transverse, parallel nervures.

Vertex not separated from the frons by a transverse keel, or greatly prolonged into a point beyond the eyes; clavus at apex usually obtuse and usually confounded with the corium

Subfamily II. FLATINÆ.

Vertex very short, front part narrow or generally rounded before the eyes, separated from the frons by a transverse keel; clavus at apex acute, distinct

Subfamily III. RICANIINÆ.

THE POWAL MUSICION

2 Frons separated from the cheeks by a sharp margin.		
Clypeus with marginal keels		
Legs dilated or foliaceous Subfamily V. CALOSCELINÆ.  3 Head not prolonged beyond the eyes into a distinct cephalic prolongation; or, if prolonged then the anal area not reticulated		
Head prolonged beyond the eyes into a more or less distinct cephalic prolongation; or, if not prolonged then the anal area is reticulated.		
Prothorax notably shorter and narrower than the mesothorax; elytra usually transparent and much longer than the abdomen, seldom coriaceous or shortenedSubfamily VI. DICTIOPHARINÆ.		
Prothorax and mesothorax forming a rhomb nearly as long as broad; elytra usually hornySubsamily VII. FULGORINÆ.		
4 First joint of the hind tarsi without a large movable spur at base		
First joint of the hind tarsi with a large movable spur at the base		
Frons not separated from the cheeks by a sharp margin		
SUBFAMILY I. ACANONIINÆ.		
TABLE OF GENERA.		
Vertex long, thorax not covered		
Head angularly produced.  Vertex slightly transverse; wings outwardly rounded, vertex roundedly trunc-		
Vertex very slightly concave; wings toward the middle gradually rounded, from thence somewhat narrow, apex truncateG. 4. Chlorochara, Stäl.		
SUBFAMILY II. FLATINÆ.		
TABLE OF GENERA.		
Basal joint of the antennæ very small, not easily distinguishable		
Second joint much longer than the basal		
Second antennal joint twice as long as broad; from without a median keel; clypeus convex, with a feeble, sharp, median keel towards apex		
Second antennal joint short or somewhat short.		
Posterior tibiæ unarmed, without spines		
Posterior tibiæ armed, with two spines.		

MUBEUMAKOTELL

Vertex produced with an acute margin, flat or slightly convex4.
Vertex not produced, short, thrice keeled.
Thorax elevated on the disk, compressed with an acute keel on each side. 3.
Thorax transversely convex.
Ocelli distinct.
Wings with two series of transverse moderately regular veins, the
longitudinal vein behind and between these series, simple, not forked
Wings between the clavus at apex and the intercostal longitudinal vein
with a regular series of distinct transverse veins, before this series
nowhere wanting in irregularly disposed veins, but between the
second series, veins regularly transverse; head truncate
G. 7. Ormenis, Stäl.
Wings without series, or then with irregular transverse veins, series in
that case not reaching the intercostal vein G. 8. Flata, Fabr.
Ocelli wanting; transverse veins of wings irregularly arranged
G. 9. Pæciloptera, Latreille.
3 Veins of wings irregularly transversely arranged G. 10. Sarpanta, Stäl.
4 Head triangularly produced; frons flat, convex at base; wings with irregular transverse veins; marginal suture straight, the angle of the suture very longly
produced
Corium hardly longer than the clavus.
Head transversely quadrately produced, anteriorly somewhat roundedly trunc-
ated; frons somewhat concave
Head truncate; wings reaching somewhat beyond the apex of abdomen
G. 13. Bryllis, Stäl.
Corium nearly twice the length of the clavus.
Wings elongated, narrowed, very gradually narrowed toward the apex
G. 14. Cyarda, Walker.
5 Antennæ somewhat elongated, reaching anteriorly beyond the margins of the
cheeks; ocelli subobsolete or wanting
Transverse veins of wings irregularly arranged.
Vertex flat, produced, but the disk of thorax and scutellum not lying in the
same plane
Vertex not prominent, but the frons at base prominently gibbous; thorax and
scutellum convex G. 17. Gyaria, Stäl.
Transverse veins in a regular contiguous series toward apex of wings, between
the apex of the clavus and the intercostal veinsG. 18. Petrusa, Stäl.
Clavus without a distinct transverse vein.
Wings with an oblique transverse vein before the middle, between the interior
ulnar veins and the ramus of the exterior ulnar veins
G. 19. Atella, Stäl.
6 Frons and clypeus without a median keel
Clypeus and frons with a suture between
Clypeus and frons with a suture between.
Vertex triangular with a median keel; mesonotum lozengoidal with a median
keel and straight diverging lateral keels; rostrum prolonged nearly
between the middle coxæ

Vertex short, concave; frons but slightly prominent; wings from with hind the apex of clavus not enlarged; clavus from the exterior very soletely granulated	n ob- , Stäl. tennal longer longed , Stäl. reach- reach- veins;
SUBFAMILY III. RICANIINÆ.	
TABLE OF GENERA.	
Frons with one or three keels or keels wanting  Frons with two distinct keels, slightly converging toward apex, much longed broad; vertex before the eyes distinctly prominent; lateral margins of conly keeled at base. Wings as broad as long, broadly rounded at apex a contiguous series of transverse veins between the apex of clavus at transverse vein of costal area, the costal area of normal breadth; the invein of the corium forked before the middle.  Wings vitreous; posterior tibiæ with three spines	er than lypeus c, with nd the nterior . Stäl 5
posterior tibiæ with two spines behind the middleG. 3. Priæsa Wings toward apex very gradually enlarged; posterior tibiæ with three	
behind the middle	
3 Marginal area with very narrow transverse veins	4.
Longitudinal veins of wings much forked, with two regular series of tran- veins toward apex, joining the apical	sverse
4 Longitudinal veins rarely emitting a forked vein from base of areole, the first	forked
before the base; transverse veins very rare	arginal  , Stäl.
Wings circular, half as long as broad, apex broadly rounded; marginal are broad transverse veins.	a with
Wings vitreous, transverse veins remote	

#### SUBFAMILY IV. ISSINÆ.

#### TABLE OF GENERA.

INDE OF GENERAL
Wings much shortened, not reaching the tip of abdomen, or rudimentary; the
Wings not unusually shortened complete
Wings not unusually shortened, complete.  Head produced
Head truncated, before the eyes not or scarcely prominent; wings strongly de-
cumbent.
Posterior tibiæ with three spines
Posterior tibiæ with two spines.
Costa before the middle or anteriorly beneath, very distinctly dilated;
interior ulnar vein simple, exterior ulnar vein and the radial vein near
the base, forked; vertex smooth G. 1. Hysteropterum, A. et S.
Costa simple beneath towards the base, excepting a very obsolete dilation;
wings behind the apex of the clavus oblique, very obtusely rounded, the interior ulnar vein nearly simple; first joint of posterior tarsi short
G. 2. Falcidius, Stäl.
Thorax at base slightly and broadly sinuated.
Wings vitreous, regularly reticulated, obtusely rounded at apex; costa
dilated, membrane of costa with transverse veins, ulnar vein in the
middle of wing, forked
Wings at apex very slightly deeply angulately emarginated or incised, and
rarely with transverse veins, not reticulated; the vein of the anal area
forked; anterior femora simple, subcompressed G. 4. Thionia, Stäl.
Wings at apex entire; from and clypeus lying nearly in the same plane, the
frons somewhat reclining and slightly reflexed G. 5. Issus, Fabr.
Vertex very short, sublunate, anterior margin strongly carinated; froms rounded,
prominent, the central plate almost circular, flattened and very much raised
above the surrounding area, exterior margins strongly carinate, curving con-
formable with the central plate. Pronotum longer than the vertex, lunate,
bluntly curved on anterior margin, posterior margin deeply sinuated. Hem-
elytra long and narrow, a little obliquely rounded at tip, costal and sutural
Wertex subquadrate, deeply scooped out, anterior angles rectangular with bound-
ing keels high, anterior margin arched in the centre; frons longer than wide,
sides convexly curved, middle keel extends 21/3 its length downwards. Pron-
otum acutely triangular, extending forward almost to front line of eyes, deeply
emarginated behind. Hemelytra long and narrow, vitreous, hispid, regularly
parabolic on the costal margin, from the base to the inner apical angle, the
inner margin straight; field with a net-work of large rounded areoles; costal
area obliterated G. 7. Dictyonissus, Uhler.
Abdomen distinctly compressed; costa remote from the margin; anterior tibiæ
longer than the femora and trochanters together G. 8. Tylana, Stäl.
Costa occupying the same margin, beneath anteriorly or before the middle, dilated; posterior tibiæ with one spine G. 9. Mycterodus, Spinola.
Wings tailed, apical angle of the commissural produced, slightly curving upwards;
clavus not attaining the apex of the wing. Costa dilated, remote from the
margin, dilated part with transverse veins, not inflexed; posterior tibiæ with
two spines G. 10. Conosimus, Mulsant.

Vertex before the eyes, produced.
Wings very much shortened, truncated; frontal disk largely elevated; thorax
anteriorly produced beyond the middle of the eyes
G. 11. Peltonotus, Mulsant.
Wings oblong, apex extending somewhat beyond the abdomen; frontal disk not
or very slightly elevated; thorax produced to the middle of the eyes
G. 12. Ommatiotus, Spinola.
Vertex before the eyes, not prominent; body cylindrical; wings much shorter than abdomen.
Frons and vertex forming an obtuse angle, very gradually produced towards apex; clypeus large, towards the horizontal portion largely inflexed G. 13. Bruchomorpha, Newman.
Frons prolonged, globularly enlarged at apex G. 14. Naso, Fitch.
SUBFAMILY V. CALOSCELINÆ.
DUBLIANILI V. CHLOUGULIIVIL.
TABLE OF GENERA.
Posterior tibiæ with more than three spines, multispinous
Lateral margins of vertex not dilated, not elevated
G. 3. Lacusa, Stäl.
Anterior femora and tibiæ somewhat dilated.
Head before the eyes prominent; frons elevated, compressed; posterior tibiæ
with two spines
Clypeus much longer than its breadth at base; legs long or somewhat lengthened.
Head with a very distinct callosity behind the eyes; anterior femora and tibiæ slightly compressed, dilated
Head without or scarcely with a callosity behind the eyes; anterior femora alone
compressed, body broadly oval; head somewhat triangularly produced  G. 6. Orgerius, Stäl.
Clypeus a little longer than its breadth at base, legs short, anterior legs compressed
[TO BE CONTINUED.]

# Change of Name,

In Proc. Cal. Acad., 2nd Series, Vol. 1, issued June 5th, 1888, I described a new genus and species of N. A. Scarabæidæ under the name of Anoplognatho Dunnianus but now finding this to be already in use I desire to substitute that of Aphonides Dunniana.

J. J. RIVERS.

University of California, Oct. 23, 1888.