

SECOND AND THIRD  
SUPPLEMENTS  
1925 to 1932 (inclusive)

to

CATALOGUE  
of the  
**COLEOPTERA**  
of  
AMERICA, NORTH OF MEXICO

By

CHARLES W. LENG, B.Sc.

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and

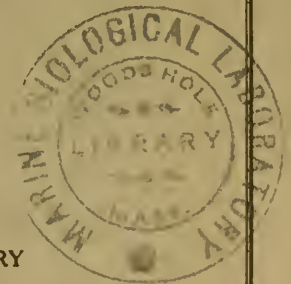
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Coleoptera

AMERICAN MUSEUM OF NATURAL HISTORY



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Mount Vernon, N. Y.

JOHN D. SHERMAN, JR.

December 18

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Mount Vernon  
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AFFECTIONATELY  
DEDICATED TO  
SAMUEL HENSHAW

IN CONTINUED APPRECIATION OF  
THE HENSHAW LIST OF COLEOPTERA  
PUBLISHED ALMOST HALF A CENTURY AGO.  
WE REJOICE IN HIS UNABATED  
INTEREST IN BIBLIOGRAPHICAL MATTERS.



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## SIGNS AND ABBREVIATIONS

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|| indicates name preoccupied.

‡ indicates name cited in error.

† indicates introduced species.

<sup>1</sup> A figure one following name means it was based upon a single specimen.

ab.	aberration
auct.	authors
fide	according to
ined.	unpublished
i. litt.	in a letter
n. n.	nomen novum, name substituted for one preoccupied.
nec	not
s. str.	sensu strictu, in a restricted sense.
subg.	subgenus
subsp.	subspecies
syn.	synonym
var.	variety

---

For other abbreviations (of localities, etc.) see original catalogue.





## INTRODUCTION

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In the second supplement to the Catalogue of Coleoptera of America, north of Mexico, we record the species, subspecies, and "aberrations," described during the period from January 1, 1925, to December 31, 1930. As in the catalogue and first supplement, the new species are serially numbered, with subspecies and varieties indicated by the addition of a letter to the serial number of the species with which they are allied. An unusual number of names have been proposed for so-called "aberrations;" these have not been numbered, but are not necessarily synonyms. Many are recognizable variations which, however, have been regarded by some author or reviewer as of less than subspecific rank.

By thus numbering the names which have been proposed we do not intend to present our own opinion as to their validity, but to reflect the opinions of the authors quoted. In a few instances, where the opinions conflict, we have, as far as possible, presented both views.

In preparing this supplement we have used as a basis the data assembled in *Entomological News*, and added thereto those found in the *Zoological Record* and, in a few instances, others cited in *Biological Abstracts*. The result was then compared with the original papers, as published in various periodicals, here and abroad, and in many instances, preliminary copy was sent to the authors for correction. Finally comparison was made with the *Junk Coleopterorum Catalogus*, which disclosed some differences which have been noted, but not always followed.

The original intention was to print the second supplement in 1931. Financial difficulties having caused a postponement, we have taken advantage thereof to carry the bibliography down to December, 1932, and to indicate the new species, etc., proposed in 1931 and 1932, as a third supplement.

In the bibliography we have included all contributions bearing directly or indirectly upon the classification of Coleoptera, as well as a few papers of literary interest. The period covered by this supplement has produced several papers of importance in clarifying the classification. Bradley's *Manual of the Genera* brings together in one volume, for the first time since 1883, definitions of nearly all the genera. Jeannel's *Monograph of Trechinae* is an example of able taxonomic work covering the species of the old and new world.

Tillyard's *Insects of Australia and New Zealand* reviews the classification with special reference to the phylogeny, and recent discoveries in fossil insects. Forbes' studies in venation and wing folding patterns afford an independent view of relationships. Finally and most important we have included, though not published until 1931, "An Illustrated Synopsis of the principal Larval Forms of the order Coleoptera" by Böving and Craighead. By the publication in this paper of the results of the studies of many years, it becomes possible to compare the existing classification of adult beetles with one based entirely upon their immature stages.

Happily for the permanence of our classification there is now a more substantial agreement between the two than when MacLeay in "*Horæ Entomologicæ*" (1819-1821) attempted to make such a comparison. Dr. Böving's statement of this fact is "As a rule the classification of the larvæ agrees with the commonly recognized classification of the imagines, and particularly well with the one followed in Leng's catalogue." The division of the order into suborders Adepnaga and Polyphaga, and the subdivision of the suborders into superfamilies, grouped into series, is found in both systems. The differences consist in the composition of the suborders, and of their subdivisions, in which the knowledge of larval relationships affords valuable evidence, heretofore lacking. A brief statement of some of these differences follows.

### ARCHOSTEMATA

The families Cupesidæ and Micromalthidæ, the anomalous characters of which have heretofore been recognized, are ranked as a third suborder by Böving. He says "I cannot see how we can escape giving to this group the rank of a suborder, the Archostemata of Kolbe, as it can be joined neither with the Adepnaga nor the Polyphaga." Forbes, from studies of wing folding pattern, grouped these families under the same name. Tillyard, though he placed Cupesidæ in Adepnaga, described it as "an annectent group between the Adepnaga and Polyphaga." There is thus a substantial agreement on the division into three suborders; and in future catalogues the first should be on phylogenetic grounds, the Archostemata.

### ADEPHAGA

The family Rhysodidæ is transferred by Dr. Böving from Polyphaga to Adepnaga. "The larva of *Clinidium*," he says, "... can without reservation be placed in the suborder Adepnaga." The superfamilies Caraboidea and Gyrinoidea are sustained by characters of their larvæ, which also afford important help in arranging in natural sequence the subfamilies and tribes of Carabidæ and Dytiscidæ. On the basis of larval characters Cicindelidæ, Carabidæ, Omophronidæ, Haliplidæ, Hygrobiidæ, Noteridæ, Dytiscidæ, and Amphizoidæ, are entitled to rank as

families, with the rank of the Pseudomorphidæ unknown. The subfamilies indicated in the Carabidæ are Lebiinæ; Dromiinae, Odacanthinæ; Driptinæ, Nebriinæ; Loricerinæ; Carabinæ, Cychrinæ, Chlæniinæ; Licininæ, Bembidiinæ, Sphodrinæ, Broscinæ, Dyschiriinæ, Scaritinæ, Elaphrinæ; Patrobinæ, Pterostichinæ, Amarinae, Harpalinæ, Glyptinæ. The semicolons in this enumeration separate the related groups of subfamilies. The Trechini appear to be separable from Bembidiini, on their larval characters, only by differences of tribal rank.

As to the sequence of the suborders Dr. Böving considers that it would "be logical to place the Adephaga third, as the more modern of the three," "but for practical purposes it appears more advisable to rank the suborders in the commonly accepted sequence." The well developed tarsus of adephagous larvæ, carrying one or two distinct and movable claws, may be a primitive character, as regarded by us in 1920; and the great similarity in this respect between the larvæ of the Caraboidea and those of certain neuropterous larvæ is interesting and possibly significant. However there are several polyphagous larvæ, specifically mentioned by Dr. Böving, in which the tarsungulus is "divided by a faint suture into a proximal and distal portion which possibly correspond respectively to tarsus and claw." In Dr. Böving's definition of the suborders by larval characters, the Adephaga are placed second, and the resemblance of their legs and claws to those of the Archostemata seems to us to indicate this as their natural sequence.

### POLYPHAGA

The greatest difficulties in the classification have been in this suborder, and in the differences between the opinions expressed by Böving, Forbes, and Tillyard, they are still apparent. The removal of Cupesidæ and Micromalthidæ to Archostemata, and of Rhysodidæ to Adephaga, simplifies the classification of the Polyphaga; and fortunately the isolation of the Scarabæoidea, of the so-called Phytophaga, and of the Hydrophiloidea and Staphylinioidea is not questioned; though, as to the latter two, the composition is somewhat altered. Believing that the larval characters afford the safest guidance, not however to the exclusion of other considerations, we review the superfamilies in the sequence adopted by Dr. Böving.

**Staphylinioidea.** The component families, based on larval characters, would be Limnebiidæ, Hydroscaphidæ, Leptinidæ, Ptiliidæ, Anisotomidæ; Platypsyllidæ, Scaphidiidæ; Silphidæ, Staphylinidæ, Pselaphidæ, Seydmænidæ. The families also included, though their larvæ are imperfectly known or entirely unknown, are Clambidæ, Brathinidæ, Sphæritidæ, Sphæriidæ, and Micropeplidæ. The differences between this and existing classification is the removal from Hydrophilidæ of the aberrant genera *Limnebius*, *Ochthebius*, and *Hydræna*; and the suppression of Silphoidea as a superfamily.



Forbes reached a similar result from his studies of the wings. "Ochthebius and Hydræna," he says, "do not belong here (in Hydrophilidæ), but with the aberrant "Silphidæ;" and the latter he classifies with his Staphyliniformia.

It should be noted that within the families Anisotomidæ and Staphylinidæ, the larval characters indicate many subfamilies, with Oxyporinæ, Habrocerinæ, and others, quite definitely separated; and that the Histeridæ, on larval characters, are associated with Hydrophiloidea, a view in which apparently Forbes' conclusions are not entirely in accord.

**Hydrophiloidea.** In this superfamily Dr. Böving groups Histeridæ and Helophoridæ, "on account of an unquestionable conformity in the development of the fundamental systematic characters" of their larvæ; Spercheidæ; Hydrochidæ and Hydrophilidæ, the latter divided into subfamilies Berosinæ, Hydrophilinæ, Hydrobiinæ, and Sphæridiinæ. The treatment of Histeridæ, regarded by Forbes as a superfamily, and by Tillyard as "very distinct and isolated," is at first sight rather startling; but it is to be noted that Forbes also found that the venational characters seemed "to link with the Hydrophilidæ on one side and more closely to the Lamellicornia on the other." The views of Tillyard regarding Hydrophiloidea as "perhaps the oldest of existing Coleopterous groups" traceable "back geologically to the upper Permian" are interesting. He further says "the fossil evidence, so far as at present available, would tend to indicate that. . . the development of longitudinal striæ and intervals is an entirely new formation. If this be so, the almost smooth elytra of many Hydrophilidæ probably represent the most primitive type." The same argument would apply to the comparatively smooth elytra of the Histeridæ, and thereby support Dr. Böving's classification of the larvæ. Moreover, while Hololepta and Hydrophilus in the adult stage seem far apart, some of the small Saprini are not so dissimilar to the Sphæridiinæ.

**Cucujoidea.** Dr. Böving finds three types of larvæ in the Polyphaga. The primitive type is found in its most characteristic and original form in such families as the Limnebiidæ, Leptinidæ, and Anisotomidæ. From it are derived the more or less specialized larvæ of the Staphylinoidæ and Hydrophiloidea, which have therefore preceded other Polyphaga in his conspectus.

A distinct polyphagous larval type is found in the series Cucujoidea. It shows such close affinities with the staphylinoid-leptinid type as to be placed next thereto in the conspectus. The families included are (semi-colons indicating their grouping) *Eucinetidæ*, *Derodontidæ*, *Monotomidæ*, *Rhizophagidæ*; *Languriidæ*, *Cryptophagidæ*, *Silvanidæ*, *Cucujidæ*, *Prostomidæ*; *Catogenidæ*, *Læmophloeidæ*, *Phalacridæ*, *Smicripidæ*, *Corylophidæ*; *Nitidulidæ*, *Cybocephalidæ*; *Sphindidæ*; *Lathridiidæ*, *Murmidiidæ*, *Endomy-*

chidæ, Coccinellidæ, Erotylidæ, *Dacnidæ*, Melandryidæ, *Scraptiidæ*, Anthicidæ, Byturidæ; *Bothrideridæ*, Colydiidæ, Mycetophagidæ; Oedemeridæ, Cephaloidæ; *Zopheridæ*, *Synchroidæ*, Pedilidæ; Eurystethidæ, *Salpingidæ*, Pyrochroidæ, *Boridæ*, Pythidæ, Othniidæ; Alleculidæ, Tenebrionidæ (to be divided into many sub-families), *Nilionidæ*, Lagriidæ. In addition, though the larvæ are imperfectly known, the Monommatidæ and Lymexylidæ are included, and with doubt possibly the Mordellidæ.

These families have been heretofore, with some exceptions named below, the components of the superfamilies Cucujoidea, Tenebrionoidea, and Mordelloidea, which thus become united as one superfamily, but divided into a greater number of families. The families added are indicated by italics. On the other hand, Mycetæidæ, Euglenidæ, and Monoedidæ are reduced on larval characters to subfamily or tribal rank. The exceptions above referred to are Eucinetidæ, formerly classed as a subfamily of Dascillidæ, but agreeing in its larval form, apart from the lack of jointed urogomphi, with the leptinid association of the Staphylinoidæ; Corylophidæ, usually placed as an aberrant family in the Silphid association; Sphindidæ, the larvæ of which represent "unquestionably a simple, primitive cucujoid type," and have heretofore been included in Bostrichoidea.

In this treatment of the Cucujoidea it is to be hoped that the clues to actual relationship afforded by the larval characters, so thoroughly studied by Dr. Böving, may be reconcilable with adult characters. But it cannot be denied that Forbes' classification (Journ. N. Y. Ent. Soc., XXXIV, 113-115), based on wing venation and folding pattern, is not in agreement. Of the four series, Haplogastra, Bostryciformia, Diversicornia, and Dryopiformia, into which he divides the Polyphaga, only the first can, by transferring the Scarabæoidea, be compared with Dr. Böving's leptinidstaphylinoid association. We admit that our tendency is to regard the larval characters, based on mouth parts and organs of locomotion, as the surer guide; but we cannot conceal the differences that are apparent in Forbes' views.

**Byrrhoidea.** The larvae of this series are found to represent another distinct polyphagous type, not linked by any larval type known up to this time with the primitive Staphylinoidæ. This type of larva is in fact so distinct that Dr. Böving appears to have considered founding a suborder thereon. However some of the derived families of the byrrhoid type and some of the cucujoid type approach one another. Wherefore Dr. Böving writes "rather isolated as the series Byrrhoidea appears in the polyphagous suborder, it does not seem necessary to rank it and the families and series derived from it as a separate suborder." These families and series include, in Dr. Böving's conspectus, the remainder of the Coleoptera. The

Byrrhoidea includes only the family Byrrhidæ. Two series, Dascilloidea and Cleroidea, are descended directly from the Byrrhoidea; Dryopoidea can be derived through the Ptilodactylidæ; Elateroidea, through the Eurypogonidæ; Cantharoidea and Scarabæoidea from other dascilloid or dryopoid families.

With the Cleroidea may be associated Mordelloidea, Bostrichoida, and the so-called phytophagous assemblage. The series Meloidea may also belong here but Dr. Böving adds that there are some reasons for considering the possibility that it might be related to the Cantharoidea.

The composition of the series thus hypothetically derived from Byrrhoidea differs in some cases from that heretofore assumed and will be discussed below.

**Dascilloidea.** The Eucinetidæ are removed to Cucujoidea, other families to Dryopoidea, as stated below. The Nosodendridæ and Heteroceridæ are added, making four families, viz: Dascillidæ, Heteroceridæ, Helodidæ, Nosodendridæ.

**Dryopoidea.** This series includes new families Ptilodactylidæ and Eurypogonidæ, taken from Dascilloidea; Psephenidæ, divided into subfamilies Psepheninæ and Eubrianacinæ of which the latter is taken from Dascilloidea; Chelonariidæ; Dryopidæ, divided into subfamilies Larinæ, Pelonominæ and Helminæ.

In the rearrangement of the families of Byrrhoidea, Dascilloidea, and Dryopoidea, discussed in detail by Dr. Böving in his paper of 1929 in the Bulletin of the Brooklyn Entomological Society, the value of larval characters in determining relationships is strikingly exhibited.

**Cantharoidea.** The Melyridæ, Cleridæ, and Corynetidæ are removed to a new series Cleroidea. The family Brachypsectridæ, following Blair, is considered valid on larval characters, but is included here, rather than in Dascillidæ. The Cantharidæ are divided into subfamilies Malthinæ, Chauliognathinæ, Malthodinæ, and Cantharinæ.

**Elateroidea.** The differences here from existing classification are slighter than in some preceding series. Plastoceridæ are included in Cebrioidæ, and Drapetes is removed from Throscidæ to the subfamily Oestodinæ of Elateridæ. Sandalidæ is treated as a family, quite distinct on larval characters from Rhipiceridæ.

**Scarabæoidea.** This superfamily is unchanged, but the larval characters accentuate its subdivisions into families and subfamilies.

**Cleroidea.** The families included in this new superfamily are Dermestidæ, Melyridæ, Ciidæ, Ostomatidæ, Cleridæ, Catogenidæ (?), and Bothrideridæ (?). The relationship of the last two is regarded as problematical. As to some of the other families, the larval characters suggest the need of many subfamilies.



**Meloidea.** This new superfamily includes Meloidæ, divided into three subfamilies (after erecting a new family Tetraonycidæ), and Rhipiphoridæ. "Probably the Strepsiptera are to be classified in the Coleoptera and close to the Rhipiphoridæ," is added in a footnote.

**Mordelloidea.** This series, which was proposed by us with great hesitation, is reduced to the family Mordellidæ, and to its main genera Tomoxia, Mordella, and Mordellistena. Even these in the larval stage are related to several of the melandryid genera.

**Cerambycoidea.** This series is restricted by its larval characters to the family Cerambycidæ, divided into subfamilies Prioninæ, Cerambycinæ, Asemínæ, Lepturínæ, Lamiínæ and Disteniínæ. The Chrysomelidæ are regarded as a superfamily.

**Bostrichoidea.** This series, comprising Ptinidæ, Anobiidæ, Bostrichidæ, Psoidæ, and Lyctidæ, differs from the existing classification only by the removal of the families Ciidæ and Sphindidæ.

**Chrysomeloidea.** Larval studies indicate the necessity of separating the Bruchidæ and Chrysomelidæ, as a superfamily, and of dividing the latter into many families. Some have heretofore been recognized as subfamilies, others are the result of recent studies, and many are again subdivided; it is even stated that "when better studied, the classification of the entire family Galerucidæ will unquestionably be changed." The families indicated by larval studies are Bruchidæ, Sagridæ; Orsodaenidæ, Donaciidæ, Camptosomatidæ, Eumolpidæ, Crioceridæ, Chrysomelidæ, Galerucidæ (divided into Galerucinæ, Diabroticinæ, and Halticinæ), Hispidæ, and Cassididæ.

**Platystomoidea.** In the division of the Rhynchophora by larval characters the family Platystomidæ becomes a superfamily divided into two subfamilies Brachytarsinæ and Choraginæ.

**Curculionoidea.** The remainder of the Rhynchophora are divided into Brentidæ, Proterhinidæ, Attelabidæ, Apionidæ, Curculionidæ (with Lissorhoptrínæ as a subfamily), Calendridæ, Platypodidæ, and Scolytidæ. In regard to the latter it is stated that "the larvæ of the Curculionidæ and Scolytidæ cannot be separated." Belidæ larvæ are unknown.

Finally the conspectus by Dr. Böving ends with the superfamily *Lymexyloidea* for Lymexylidæ and Telegeusidæ, the larva of the latter being unknown. As far as known the larva of this superfamily approaches in important characters those of Oedemeridæ and Calopidæ, "but also greatly resembles the larval form of the ancient suborder Archostemata." "The systematic position of this series is uncertain."

As a final summary of this important contribution to the classification of the Coleoptera we note with satisfaction that, in its main

features, the classification reached after nearly two centuries of study of the adults is confirmed. The phylogeny of the order, relieved of the supposition that all its families must be traceable to a common ancestral type, becomes plainer as the morphology of the larvæ displays the wide gaps between the three suborders Archostemata, Adephaga, and Polyphaga. The difficulty of subdividing the Polyphaga on characters drawn from the number of tarsal joints, or the form of the antennæ, becomes lessened by the recognition of three types of larvæ, leptinid-staphylinoid, cucujoid, and byrrhoid, by means of which the true relationship of heretofore baffling forms may be indicated.

We congratulate Dr. Böving and his co-workers, F. C. Craighead, R. A. St. George, and others, in this country and abroad, on the successful outcome of their patient research, aided by the inspiring influence and learning of the late Dr. E. A. Schwarz. Even more, perhaps, are the students of the classification of the Coleoptera to be congratulated on the guidance in their studies afforded by Dr. Böving's work. The task remains of reconciling the differences between the classification of the adults and that of the larvæ. In this supplement we are therefore content to indicate, through this introduction, and by footnotes in the text, the alterations in the classification which are probably needed.

It is a matter of regret that the work of P. de Peyerimhoff on the Larvæ of Coleoptera (*Annales Soc. Ent. France*, 1933) appeared too late for its valuable comments on classification to be noticed in these supplements.

We thank the many students of North American Coleoptera who have so willingly assisted us in our work, and it is a pleasure to acknowledge for the printers, for the publisher, and for ourselves, the assistance of Miss Ethel Olsen, by whom, practically without error, the manuscript was typewritten.

Charles W. Leng  
Andrew J. Mutchler

September 1, 1933.



# SECOND SUPPLEMENT TO CATALOGUE OF COLEOPTERA OF AMERICA, NORTH OF MEXICO

## ADDITIONS AND CORRECTIONS TO DECEMBER 31, 1931

### CICINDELIDÆ

Blaisdell 25; Criddle 25; Knaus 25, 29; Horn 26, 28, 30; Dawson 28;  
Davis 28, 29; Varas y Arangua 27, 28; Tanner 29.

In Cicindelidæ, and throughout this supplement, the numbering indicates our attitude towards the changes proposed. Numbers at left hand margin of the page indicate changes adopted or unquestioned; numbers indented from margin indicate changes that may not be finally adopted when the group involved is restudied.

#### Amblycheila

- 2 a = 2, fide Horn 30
- 3 = race of 2, Horn 30

#### Omus \*

- 4 a and 4 b = 4, fide Horn 30
- 5, 7, 9, 16, 17, 19 = races of 12, fide Horn 30
- 20 = lesser race of 19, fide Horn 30
- 21, 22, 24 = races of 12, " " "
- 24 a = lesser race of 17, " " "
- 24 b = lesser race of 9, " " "
- 25 = lesser race of 34, " " "
- 27, 34 = races of 12, " " "
- 15 is valid, fide Blaisdell 25
- 19 a is valid, fide Blaisdell 25

#### Cicindela \*\*

- 39c. fletcheri Criddle 25-127 Mont.
- 39d. pigmento-signata W.H. 30-76 Tex.

#### Cicindela \*\*

- 44d. arida Davis 28-65 (syn. 29-100)
- 45c. cyanocephala Varas 28-239 N. W. St.
- 45d. militaris Varas 28-242 N. Y. R. I.
- 47b. tanneri Knaus 29-47 Ut.
- 53g. viridula Varas 27-173 Mass. R. I.
- 59h. chamberlaini Knaus 25-182 Oreg.
- 63a. frosti Varas 27-174 So. Cal.
- 69b. kansanus n. n. Knaus 27-24 and 30-79 for violacea † Kan.
- 86g. colosseæ W. H. 26-169 Cal. Is.
- 52 a = 52, fide Blaisdell 25-79
- 53 e<sup>1</sup>, 59 b<sup>1</sup>, 61 c, 61 c<sup>1</sup>, 61 c<sup>2</sup>, 65 d are synonyms, fide Tanner 29

\* The names heretofore proposed in Omus, except those above referred to, are treated as synonyms by Horn 30. His opinions (based in part upon studies of genitalia) may not be entirely acceptable to American students, more familiar with the living beetles and their environment.

\*\* Horn 30 gives a check list in which the species considered valid are serially numbered, the "larger races" are prefixed by Roman numerals, and the "lesser forms of these races" are designated by letters. The more important reductions in rank are:

43, 44, 45, 46 and 47	are made races of	42
50	is	" " " 49
54, 55, and 56	are	" " " 53
62	is	" " " 61
70	"	" " " 69
82	"	" " " 81
109	"	" " " 108

A large number of varieties are also reduced to synonymy. These have resulted, he states, "from too much attention to the minute differences," and he adds, "I am inclined the other way." It is possible that this inclination has, at least in some instances, resulted in errors.

## CARABIDÆ

Lapouge 08, 24; Jeannel 20, 27, 28; Sloane 23; Van Dyke 24, 25, 26; Bänninger 25, 28; Notman 25, 29; Blaisdell 25; Hopping 25; Fall 26, 30; Darlington 26, 30; Hatch 26, 29, 30; Csiki 27; Breuning 27, 28; Benedict 27; Liebke 27, 28, 29, 30; Blatchley 28, 30; Barber 28; Tanner 28; Lutshnik 29; Brown 30; Cooper 30; Bradley 30\*.

**Trachypachus**

20680. *slevini* Van D. 25-111 Oreg.

**Pemphus**

*Stenocantharus* Gistel. fide Csiki 27, is the older name. According to the same author 130 a, 132 a<sup>1</sup> are good species, and 161b is a variety of 163.

**Carabus**

166f. *atlanticus* Lapouge 24-191  
St. Pierre Miquelon

175a. *canadensis* Lapouge 08-19  
(see below) N. B.

166b. = *granulatus* L., fide Lapouge 24-190

According to Col. Cat. pars 91, by Csiki, our species *sylvosus* belongs in the subgenus *Tanaocarabus* Reitt. 170b is treated as a synonym, and the name *lherminieri* Dej is preferred for the variety heretofore called *finitimus* Hald.

By the same authority *serratus* is placed in subgenus *Hemicarabus*; and *limbatus* and *vinctus* in a subgenus *Lichnocarabus*.

173a. *georgiæ* n. n. Csiki 27 for *carinatus* Dej.

Csiki also makes several changes under *tædatus* which with *nemorialis* he places in a section *Archicarabus*. These are:

169b. *vancouvericus* n. n. Csiki 27, for *bicolor* Walk.

169g. *canadicus* Roeschke with *gladiator* Heyden and *canadensis* Lapouge as synonyms.

**Calosoma**, fide Breuning 28 [see also

Appendix A.]

183. in subg. *Synalosoma*

185. etc. in subg. *Carabiosoma*

184. in subg. *Callistriga* Mots.

186. etc. in subg. *Carnegonia* Lap. i. 1.

187. = 186 a

203. in subg. *Blaptosoma*

176. etc. in subg. *Callitropa*

188. = 186 a

18565. = 186 a

194b. = 186 a

195. = *lecontei* Csiki n. n. for *lugubre* || Lec.

197. in subg. *Paracalosoma*

204-207 in subg. *Chrysostrigma* Kby.

204a. = 204

**Calosoma**

204d. *stellata* Csy is valid

204b. = 204d

204c. = 204d

206a. = 206

206b. = 206

18566. = 206

207a. = 207 in subg. *Tapisnothenes*

207b. = 207

18567. = 207

18568. = 207

18569. = 207

**Callisthenes** treated as subg. by Breuning

212. = *discors* subsp. *schaefferi* n. n. Breuning 28-80.

215. = *luxatum* ab. *striata* n. n. Breuning 28-86.

**Elaphrus**

231. *horni* Csiki 27-420 n. n. for *viridis* Horn

227. synonymy reversed fide Csiki 27 (*Trichelaphrus*) Semen. 26-39 includes 229 and 233

(*Elaphroterus* Semen. 95-308)

includes 232 and

20681. *parviceps* Van D. 25-112

Alas.

**Loricera** Latr. 04-273

(*Lorocera* auct. et Csiki 27)

241a. considered valid by Casey is a synonym, fide Csiki 27.

241b. *sieræ* Van D. 25-113 Cal.

? *congesta* Mann. 53-121

is valid, fide Csiki 27. Alas.

**Pachyteles**

20682. *beyeri* Notm. 19-255 L. Cal.

**Notiophilus**

254. *obscuratus* n. n. Fall. 26-125 for *obscurus* ||

? *cribrilaterus* Mots. 64-193

fide Csiki 28 N. Am.

**Nebria**

20683. *riversi* Van D. 25-115 Cal.

20684. *schwarzi* Van D. 25-116

Alta.

20685. *piperi* Van D. 25-117 Wash. B.C.

20686. *meanyi* Van D. 25-118 Wash.

20687. *spatulata* Van D. 25-119

Cal.

20688. *lyelli* Van D. 25-120 Cal.

20689. *crassicornis* Van D. 25-121

Wash.

20690. *moesta* Lec. 50-209 is valid,

fide Fall 26-125

\* Jeannel has monographed the Trechini, adding generic subdivisions; Notman has treated Pseudomorphidæ as a family; Breuning has subdivided *Calosoma*. On the other hand, Sloane has consolidated some tribes previously recognized, and Bradley has simplified the divisions of Pterostichini and Harpalinæ proposed by Casey. For Dr. Böving's results, based on larval studies, see Introduction.

20691. vandykei Bänninger 28-5  
Wash.-Colo.  
20692. paradisi Darlington 31-24  
Wash.  
vandykei || Darlington 30-104  
20693. aleuta Van D. 24-5 Alas.  
Csiki, Col. Cat. 97 (1928) separates  
under subg. Nebriola K. Dan. 263,  
264, 265, 266, and 293.  
He also places bifaria as a good  
species, and indicates as synonyms  
276b = 276a, 18598 = 285, 291  
= 278?  
282a is placed as a variety of 276.  
18597 also as a variety of 276.  
Nebria and Leistus (= Leistidius  
K. Dan.) are both treated as sub-  
genera of Pelophila.

**Metrius**

- 299a. planatus Van D. 25-122  
Cal.

**Dysebirius**

20694. criddlei Fall 25-309 Man.  
20695. desertus Fall 25-310 Cal.  
20696. secretus Fall 26-130 Alas.  
18607. belongs in Clivina,  
fide Blatch. 30-46.

**Clivina**

20697. californica Van D. 25-124  
Cal.  
18607. floridæ n.n. Csiki 27 for  
dissimilis || Blatch.

**Schizogenius**

20698. pygmæus Van D. 25-125  
Cal.

In the tribe Scaritini, divided into sub-  
tribes Pasimachina, Ardistomina and  
Scaritina, Csiki 27 makes many changes,  
as follows:

305. laterisulcatus Sturm Cat. Kaf. 1826,  
p. 182 is added as synonym.  
313. punctulatus Lec. nec  
Hald. 48-146 is added  
as synonym.  
? missuricus Gistl. 1820 Neue wirbel-  
lose Tiere 1857-27 Mo.  
316. added synonyms: spinipes Sulz.  
and subterreus Bon.  
317. added synonyms: distinctus Hald.,  
ephialtes Lec., intermedius Lec.  
? Scarites gagates Bon.  
Mem. Acad. Turin 1813, p. 475  
N. Am.  
? Scarites glabratus Bon.  
Mem. Acad. Turin 1813, p. 467.  
Am.  
? Clivina brevicollis Putz. 66-155  
? Am.  
367. cf. 18606 and contracta Fourcroy  
Ent. Paris 1885, p. 50.  
18605. belongs in Clivina  
Some of these, at least, may require  
further investigation.

**Nomius**

This genus, also Psydrus and  
Morian, are placed in the tribe  
Pterostichini by Bradley, following  
Sloane 23. The change is doubt-  
fully recorded, though adopted also  
by Csiki.

**Asaphidion**

20699. flavipes L. 61-750, fide  
Notman 29-177; and  
Cooper 30-21 L. I.

**Bembidion**

20700. lachnophoroides Dar-  
lington 26-34 Alta.  
20701. vandykei Csiki 28-163  
coerulescens || Van D. 25-65  
Cal.  
20702. utahensis Van D. 25-66  
Ut.  
20703. weesi Hatch, 30-11 Okla.  
20704. yukonum Fall 26-131 Yukon  
20705. mckinleyi Fall 26-132 Alas.  
20706. concurrens Fall 26-134 Alas.  
20707. picipes † auct. = plagiatum Zimm.,  
fide Fall 26-133  
686, viridicollis has precedence  
624 is not a synonym of 641, fide  
Blais. 25-79  
756 = 767 ? Fall 26-133  
(*Peryphus*)  
20708. mackinacensis Hatch 29-135  
Mich.  
intermedium † auct. = rapidum  
Lec., fide Fall 26-133  
rupicola Kby. is valid, fide Fall  
26-133  
lucidum Lec. = rupicola Kby., fide  
Fall. 26-133  
grapi † N. Am. auct. = picipes  
Kby., fide Fall 26-133  
(*Parabracteon* Notman 29-157)  
20709. tuberculatum Notman 29-157  
Mich.  
Csiki 28 introduces new subgenera  
as follows:  
Chrysobracton Net. 14-166 for 408-  
419.  
Eurytrachelus Mots. 50-15 " 438,  
439, 18616  
Plataphodes Ganglb. 92-52 " 503  
and ventricosum Mots. 50-11  
Alas.  
Trepanedoris politum  
Mots. 45-29 Cal.  
Csiki also records new names as  
follows:  
752. reliquum n. n. Csiki 28  
for relicutum Csy.  
755. roosvelti Pic 62-71 n. n.  
for perconcinnum Blais.

**Tachys**

Csiki 28 submerges under this name  
all the genera into which Casey  
divided the old genus. The follow-  
ing new names for preoccupied  
names result in part from this  
course:

813. unionis n. n. Csiki for laetifica  
Csy. nec Bates  
847. latalatus n. n. Csiki for lati-  
pennis Hayw. nec. Sharp

**Tachys**

852. pallidiusculus n. n. Csiki for  
pallescens Csy. nec Bates  
881. uniostriolatus n. n. Csiki for  
unistriatus Csy. nec Putz. nec  
Reitt.  
887. trechoides n. n. Csiki for  
trechiformis Hayw. nec Jordan.

**Patroboidea** Van D. 25-67

20710. rufa Van D. 25-67 Wash.

**Diploous** Mots. Kaf. Russl. 1850, p. 10.

(*Platidius* Chaud.) fide Csiki 28

**Trechus** \*

910. chalybæus Dej.  
californicus Mots.  
tahoensis Csy.  
910a. utahensis Schffr.  
20711. coloradensis Schffr. 15-48  
? saxatilis Csy.  
909. apicalis Mots. Kamchatka  
909a. micans Lec.  
fulvus Lec. nec Dej.  
rubens Horn nec Fab.  
borealis Schffr.  
puritanus Csy.  
brumalis Csy.  
rhodensis Csy.  
pallescens Csy.  
909b. canadensis Putz. 71-160  
Nfld.-Can.  
911. ovipennis Mots.  
lævigatus Lec.  
20712. conformis Jeannel 27-188  
Cal.  
912. pomonæ Fall.  
914. arizonæ Schffr.  
915. hydropicus Horn  
omit flavipes Kby. = 2171  
913. carolinæ Schffr.  
20713. vandykei n. n. Jeannel 28-791  
ruficollis || Van D. 26-66

**Microtrechus** Jeannel 27-585

20714. vandykei Jeannel 27-587  
N. C.

**Neaphaenops** Jeannel 20-154

918. tellkampfi Er.

**Pseudanophthalmus** Jeannel 20-154

920. menetriesi Mots.  
ventricosus Mots.  
angulatus Lec.  
919. striatus Mots.  
interstitialis Hubb.  
923. pubescens Horn  
924. audax Horn  
925. horni Garman  
922. pusio Horn  
20715. hubbardi Barber 28-196  
Va.

**Pseudanophthalmus** Jeannel 20-154

20716. engelhardti Barber 28-195  
Tenn.  
921. eremita Horn  
tenuis Horn  
20717. barberi Jeannel 28-132 Ky.

**Myas**

(? = *Trigonognatha* Mots. 57-25,  
fide Bradley 30-26 and Csiki.)

**Pterostichus** \*\*

945. cf. Van D. 25-69  
20718. nigrocæruleus Van D. 25-70  
Wash.-Cal.  
20719. beyeri Van D. 25-71 Mont.  
20720. falli Van D. 25-73 Cal.  
20721. termitiformis Van D. 25-74  
Oreg.  
20722. lanei Van D. 25-76 Wash.  
20723. rufofemoralis Van D. 26-113  
Alas.  
20724. pacificus Van D. 26-114  
Wash.  
937. is placed in subg. Peryphes.  
957. algidus Lec. is valid.  
964. lecontellus n. n. for longulus  
Lec. nec Reiche.  
991. contractus Lec. is valid,  
castanipes || Mén. nec Kby.  
1006. rejectus Lec (1005) is a  
synonym.  
1010. idahoe n. n. for elongatus  
Schffr. nec Duft. nec Chaud.  
1017. oregonis n. n. for longicollis  
Lec. nec Duft.  
1018. fugiens n. n. for fugax Csy.  
nec Moraw.  
1020. fenyesi n. n. for ovicollis  
Schffr. nec Mots. nec Reitt.  
Under *Anaferonia* Csiki adds  
evanescens Csy. 18-343.  
It occurs in Mexico not U. S.  
Fortax Mots. antedates *Ferestria*  
Leng.  
1082. dejeanellus n. n. for morio  
Dej. nec Duft.  
1110. sayanus n. n. for obscura  
Say nec Dej.  
1114a. aleutorum Lut. 14-427 n.n.  
for brevicollis Tsch. nec Lec.  
1116. synonymy reversed and var.  
rugifer Tsch. added.  
1117. globicollis n. n. for rotundi-  
collis Mann. nec Duft.  
1124. frigidus Dej. is valid sp.  
1126. fusco-aeneus Chd. is valid  
sp. fatuus is syn.  
1143. ochoticus and arcticus Sahlb.  
are syn.

\* The arrangement of the species heretofore placed in *Trechus* and *Anophthalmus* follows the work of Jeannel; he has separated them from the *Pogonini*, and has treated them as a subfamily. Dr. Böving also separates them from *Pogonini*, but as a tribe of subfamily *Bembidiinae*.

\*\* The treatment of *Pterostichus* by Csiki 30 submerges the allied genera of our American catalogues as subgenera or as sections of *Pterostichus* s. str. A number of specific names are thus brought into conflict. The changes given above are therefore proposed by Csiki; many of them, however, will be unnecessary if our generic divisions are retained.



**Pterostichus**

According to Csiki:

1149. caseyi n. n. for brevisculus  
Csy. nec Sahlb.

In *Cryobius* and elsewhere the species described by Motschulsky and other authors, heretofore unrecognized are treated as valid, except the following:

- texicola n.n.  
for texanus Mots. nec Lec.  
1152. is syn. of diplophyrus Chd. 76-42  
1156. add atratus Lec. 63-140 to synonymy.  
1157. add connexus Chd. 76-44 to synonymy.  
1161. add cupreonitens Sturm. 43-23 to synonymy.  
1163. coloradensis n. n. for bicolor Lec. nec Arragona.  
1168. substrenuus n.n. for strenuus Lec. nec Panz.  
1173. is placed in subg. Metamelanius  
1174. to 1176 are placed in subg. Melanius  
1177. ohionis n. n. for purpuratus Lec. nec Herr.  
1181. is in subg. Pseudargutor and is called leconteianum Lut. which name is elsewhere cited as synonym of nitidus Kby.  
1182. to 1187 are placed in subg. Americomaseus n. n. 1930 for Micromaseus Csy. nec Desbr. apparently conflicting with Omaseulus Lut. published 1929.

**Anilloferonia** Van D. 26-115

20725. testacea Van D. 26-116 Wash.

**Evarthrus**

20726. carolinensis Csiki 30  
montanus || Van D. 26-116  
nec Mots N. C.  
20727. lodingi Van D. 26-118 Ala.  
1075a. alabamæ Van D. 26-118 Ala.

**Omaseulus** n.n. Lutshnik 29-5

(*Micromaseus* || Csy. nec Desbr.)

**Bothriopterus**

According to Csiki:

20729. commixtus Chd. 50-135 Alas.

**Platysmatus** Lutshnik 29-5

(= *Pseudargutor* Csy.  
*Pseudolagarus* Lut.)

1181. nitidum Kby., type  
leconteianum Lut. and erythropus  
Dej. are synonyms of 1181.

**Loxandrus**

1230. blatchleyi n. n. Csiki for  
brunneus Blatch, nec Sloane

**Oxycrepis** Reiche 43-78

(*Stolonis* Mots. 65-230 fide Csiki)

**Curtonotus**

20730. consueta Fall. 26-135 Alas.  
20731. imperfectus Brown 30-232  
Que.

The following new names are proposed by Csiki, who treats *Celia*, *Acrodon*, *Bradytus*, *Curtonotus*, *Triæna*, etc., as subgenera of *Amara*:

1415. lecontei n. n. for polita Lec. nec Chd.  
1424. haywardi n. n. for parviceps Hayw. nec Putz.  
1426. americana n. n. for brun-nipes Mots. nec Letzn.  
1327. horni n. n. for femoralis Horn. nec Dej. nec Letzn.  
1350. subænescens n. n. for sublævis Lec. nec Sturm nec Steph.  
20732. jucunda n. n. for impunctata Putz. 67-170 nec Letzn. U. S.  
20733. purpurascens Mots. 59-152  
Cal.  
1335. is syn. of brunnea Gyll. and belongs in subg. *Acrodon*.  
1270. putzeysiana n. n. for putzeysi Horn nec Fairm.  
18720. maxwelli changed to maxwellianus  
1249. is synonym of 1250  
*Curtonotus* is spelled *Cyrtotonotus* by Csiki.

A number of heretofore unrecognized names are treated as valid and some changes in synonymy are made; also  
alaskana n. n. is proposed for angustata Sahlb.

**Zezea** Csiki n.n.

(*Triæna* || Lec. nec Hubner)

**Rembus**

20734. angusticollis Blatch 28-61  
Fla.

**Rhadine**

20735. longicollis Benedict 27-44  
N. Mex.

**Platynus**

20736. prognathus Van D. 26-119  
Ga.  
(*Anchomenus*)  
1523. ab. syracusensis Hatch 26-247  
N. Y.

**Colpodes**

20737. rufiventris Van D. 26-120  
Ariz.

**Anchonoderus**

1607. schaefferi n. n. Liebke 28-128  
unicolor || Schffr. nec Chaud.

**Colliurus** Latr. 17-179 \*

(*Casnonia* Latr. 22-77)  
(*Odacanthella* Liebke 30-658, type  
1612)

1612b. suturalis Chaud. is valid,  
fide Liebke  
1613 and 1614 also belong here.

**Galerita**

1620b. ahasverus n. n. Liebke 29-297  
intermedia || Csy. nec Fairm.  
caseyi || Liebke 28-129

**Pseudaptinus**

20738. oviceps Van D. 26-121 Cal.

**Thalpius**

20739. microcephalus Van D. 26-122  
Cal.

**Axinopalpus**

20740. utahensis Tanner 28-270  
Ut.

**Cymindis**

19027. tarda n. n. Liebke 27-104  
sinuata || Csy. nec Reiche  
19028. caseyi n. n. Liebke 27-104  
alternans || Csy. nec Ramb.

**Zacotus**

20741. subopacus R. Hopping 25-206  
B. C.

**Harpalus**

20742. pacificus Fall 26-136 Alas.  
20743. washingtoniensis Van D. 26-123  
Wash.  
20744. martini Van D. 26-124 Cal.

**Dicheirus**

20745. blaisdelli Van D. 26-125 Cal.

**Tachycellus**

(*Triliarthrus* Csy. based upon in-  
consequential differences, fide Fall  
30-251)

20746. frosti Fall 30-251 Mass.

20747. tibialis Kby. is distinct,  
fide Fall 30-251 Mass.  
E. Can.

2161 differs little from 2159

2165 differs little from 2164

2166 is a *Stenocellus*,  
fide Fall 30-252

**PSEUDOMORPHIDÆ**

Newman 40, Horn 67, Notman 25

**Pseudomorpha**

20748. falli<sup>1</sup> Notman 25-15 So. Cal.

20749. hubbardi Notman 25-15 Ariz.

20750. tenebroides<sup>1</sup> Notman 25-16  
Ariz.

20751. alutacea<sup>1</sup> Notman 25-17 N. Mex.

20752. vicina Notman 25-17 So. Cal. Nev.

20753. vandykel<sup>1</sup> Notman 25-18

Ariz.

**Pseudomorpha**

20754. consanguinea Notman 25-18

So. Cal.

20755. vindicata<sup>1</sup> Notman 25-19  
Ut.

20756. champlaini Notman 25-20

Ariz. Cal.

20757. schwarzi<sup>1</sup> Notman 25-21  
Ariz.

**OMOPHRONIDÆ**

This family is treated by Csiki 27 as a tribe Omophronini with follow-  
ing synonymy: 2284c (= 2284d), 2293 (= sonora Csy. 97-304),  
2285 (= 2286, 2291, 2292), 2295 (= 2296). The family is recognized  
by Dr. Böving.

**AMPHIZOIDÆ****Amphizoa**

2281. lecontei Matth.  
planata Van D. 27-98  
and 27-197 Alta.

20758. striata Van D. 27-197 Wash.

**HALIPLIDÆ****Brychius**

20759. albertanus Carr 28-23 Alta.

20760. pacificus Carr 28-24 Cal.

**Halipus**

cf. subg. *Paraliaphus* Guignot  
30-74 for *H. triopsis* Aubé.

**Peltodytes**

2332. is valid, fide Blatch. 30-38.

\* A rearrangement of the genera heretofore included in Anchonderini, Odacanthini and Egini is proposed by Sloane 23 and is apparently adopted in Bradley's Manual. Dr. Böving's work on the larvæ may require revision of their results.

## NOTERIDÆ

The genera *Noterus*, *Hydrocanthus*, and *Canthydrus*, the larvæ of which have fossorial legs, are placed in the family Noteridæ by Dr. Böving.

**Canthydrus**

20761. *floridanus* is valid, fide Blatch. 30-38.

**Hydrocanthus**

20762. *similator* Zimm. 28-165 Cal. Mass.

## DYTISCIDÆ

Blatchley 25; Fall 26, 27, 28; Wallis 26; Hatch 28; Gellermann 28; Darlington 28; Zimmermann 28; Brown 30; Carr 30; Bradley 30.\*

**Bidessus**

2390e. *microreticulatus* Hatch 28-219 Mich. Wash.

**Coelambus**

20763. *borealis* Fall. 26-137 Alas.

20764. *dentiger* Fall 27-136 Alta.

20765. *bruesi* Fall 28-64 Nev.

20766. *columbianus* Brown 30-87 B. C.

20767. *quebencensis* Brown 30-234 Que.

20768. *thermarum* Darlington 28-1 Nev.

2407a. *winnipeg* Wallis 26-90 Man.

2424a. *lineellus* Gellermann 28-64 Wash.

**Hydroporus**

20769. *yukonensis* Fall 26-138 Yukon

20770. *alaskanus* Fall 26-139 Alas.

20771. *recticollis* Fall 26-140 Alas.

20772. *falli* Blatch. 25-162 Fla.

20773. *uniformis* Blatch. 25-162 Fla.

20774. *brumalis* Brown 30-235 Que.

20775. *brodei* Gellermann 28-63 Wash.

*(Oreodytes)*

20776. *rainieri* Hatch 28-220 Wash.

20777. *kincaidi* Hatch 28-221 Wash.

19201b. *angustior* Hatch 28-221 Wash.

**Agabus**

20778. *kenaiensis* Fall 26-141 Alas.

20779. *gelidus* Fall 26-142 Alas.

20780. *smithi* Brown 30-88 B. C.

20781. *bryanti* Carr 30-278 Yukon

20782. *pseudoconfertus* Wallis 26-90 Man.

20783. *palustris* Wallis 26-92 Man. (*Gaurodytes*)

20784. *ilybiiformis* Zimm. 28-176 Cal.

**Ilybius**

20785. *incarinatus* Zimm. 28-181 Ill.

2592. validity doubtful Fall 27-281

2599. validity doubtful Fall 27-281

2598. = *fenestralis* Say Fall 27-281

**Rhantus**

20786. *hubbelli* Hatch 28-222 Okla.

2616a. *ab. immaculatus* Hatch 28-223 Alas.

**Graphoderes**

2661. = *zonatus* Hope 95-33, fide Hatch 28-229.

2662. = 2661, fide Hatch 28-229

## GYRINIDÆ

Wallis 26; Ochs 27, 29; Chamberlin 29; Blatchley 30; Hatch 26, 27, 29.

**Dineutus** (= *Dineutes*)

2680. = *assimilis* Kby (*americanus* || ), fide Ochs 27-39

20787. *amazonicus* Hatch 30-16 Ark.

2671 = *ciliatus* Forsberg 21-312 fide Hatch 30-17

**Gyrinus**

20788. *hatchi* Wallis 26-93 Mich.

**Gyrinus**

20789. *dubius* Wallis 26-93 Nfld.

20790. *gehringi* Chamberlain 29-247 N. H.

2697. is a good species fide Wallis 26-50, disputing synonymy stated in first Suppl.

2698. cf. Zimm. 26-97

\* Bradley's Manual, following Zimmermann, makes some changes in classification by which Vatellinae and Cybistrinae are reduced to tribes, Agabetini and Coptotomini are combined respectively with Copelatini and Colymbetini, and the tribal name Celinini is altered to Methlini. The results of Dr. Böving's studies differ.

## HELOPHORIDÆ \*

**Helophorus**

20791. aquaticus L. 61-461,  
fide Darlington 27-174 Me. Mass.

**Helophorus**

20792. needhami D'Orch. 29-79  
N. Y.  
2746. linearis Lec.  
pallens Csy., syn. fide D'Orch. 29-89

## HYDROCHIDÆ \*

**Hydrochus**

20793. equicarinatus Blatch. 28-62  
Fla.

**Hydrochus**

20794. currani Brown 29-108 Ont.

## HYDROPHILIDÆ \*

Fall 26, 30; Winters 26, 27; Darlington 27; Blatchley 28; D'Orchymont  
28, 29; Brown 29.

**Hydrophilus**

In the 1920 catalogue, 2789, 2790, 2791 were placed in Hydrous, following Zimmermann. The researches of Mr. Mutchler indicate that this was an error. See 3rd Supplement.

**Tropisternus**

20795. mexicanus Cast. 40-54  
fide Hatch 30-22 Okla.  
20796. quadristriatus Horn is  
valid, fide Fall 30-238 Mass.  
(Ga.?)

2802. sublaevis Lec. Neb.

**Hydrobius**

2810. synonymy should be reversed,  
fide Winters 26.

**Sperchopsis**

genus valid, fide D'Orch. Cat. In-  
dian Ins. 28-93  
cf. Hydrocyclus Sharp, fide Winters  
26

**Crenitulus** Winters 26-54

2817 type

**Anacaena**

2814. = limbata Fab. 92-82  
fide Winters 26.  
19269. = bipustulatus Marsh., denied by  
Fall i. litt.  
20797. globulus Payk. 98-188  
fide Winters 26 Conn.

**Enochrus**

19274. sublongus Fall. n. n. 26-125.  
elongatulus || Fall 24-85  
2839. = sellæ Sharp 82-75,  
fide Winters 27-24  
20798. nigrellus Sharp 82-68  
fide Winters 27-24 Cal.

**Helobata**

2856. = striata Brulle 38-58, fide Win-  
ters 27-25

## BRATHINIDÆ

The genus *Brathinus*, following Casey is associated with *Omaliinæ* by Bradley 30-64; Forbes 26-67 and 26-113 found resemblance in wing folding to *Scaphidiidæ* and retained the family name. The larva is still unknown.

\* According to larval characters, *Helophorus* and *Hydrochus* must be ranked as families of *Hydrophiloidea*. By the larval characters also, *Limnebius*, *Ochthebius* and *Hydræna* are removed from *Hydrophilidæ* to form a family *Limnebiidæ* in *Staphylinioidea*.



## SILPHIDÆ \*

Portevin 24, 25, 26; Hatch 25, 27, 29; Fall 25-26-27; Van Dyke 28;  
Brown 28, 30; Bradley 30.

Hatch 27, p. 341 following Portevin, defines subspecific variations as follows:

1. correlated with geographical distribution = subspecies;
2. variations in color pattern = aberration;
3. variation in sculpture and color of pubescence = variety;
4. variation in the general pigmentation of the exoskeleton = accident.

The use of the term "aberration" in this restricted sense, is not in accord with the older dictionaries, but may come to be generally accepted. We have not numbered the names thus designated by their authors.

**Nicrophorus (= Necrophorus)**

(*Necrocharis* Port. 23-6S)

2909. *carolinus* L.  
ab. *floridæ* Hatch 27-364  
N. C. Fla.  
ab. *krautwurmi* Hatch 27-364  
Fla.  
ab. *lunulatus* Hatch 27-364  
N. Mex.  
ab. *nebraskæ* Hatch 27-364  
Neb. Kan.  
2909a, 2909b, and 2910 are only aberrations  
(*Nicrophorus* s. str.)
2914. *marginatus* Fab.  
ab. *sanjuanæ* Hatch 27-362  
Colo. Wis. N. Y.  
ab. *engelhardti* Hatch 27-362  
So. Cal.  
ab. *leachi* Hatch 27-362  
Cal.  
ab. *cordiger* Port. 24-84 N. Y. Ark.
20799. *hybridus* Hatch and Angell 25-216  
Man.-N. J.  
var. *minnesotianus*<sup>1</sup> Hatch 27-5  
Minn.
2915. *obscurus* Kby.  
ab. *discontinuus* Hatch 27-362  
Ut.  
ab. *ruber* Hatch 27-362 Oreg. Wis.
2916. *guttulus* Mots.  
ab. *punctatus* Hatch 27-360  
Cal.  
ab. *shastæ* Hatch 27-360  
Cal.  
ab. *hypomerus* Hatch 27-361  
Cal.  
ab. *sanfranciscæ* Hatch 27-361  
Cal.  
ab. *kuschei* Hatch 27-361  
Cal.  
ab. *lajollæ* Hatch 27-361  
Cal.
- Nicrophorus**  
2916b and 2916c reduced to aberrations
- 2916a. *hecate* Bland  
ab. *wallisii* Hatch 27-361  
B.C.-N.Mex.  
ab. *californiæ* Hatch 27-361  
Cal.  
ab. *intermedius* Hatch 27-361  
(Angell i. litt.) Oreg. Nev.  
ab. *disjunctus* Port. 24-85  
ab. *woodgatei* Hatch 27-361  
N.Mex.Colo.  
ab. *phoenix* Hatch 27-361  
Ariz.-Colo.  
ab. *novamexicæ* Hatch 27-361  
N.Mex.-Cal.  
ab. *rubripennis* Port. 24-85  
N.Mex.-Cal.  
ab. *rubrissimus* Hatch 27-362  
Colo.  
ab. *immaculosis* Hatch 27-362  
Cal.
2917. = *germanicus* L. ab. *bipunctatus* Kr., fide Hatch 27-355
2918. *pustulatus* Hersch.  
ab. *coloradensis* Hatch 27-359  
Colo.  
ab. *noveboracensis* Hatch 27-359  
N. Y.  
ab. *fasciatus* Port. 24-86  
Que.-Fla.  
ab. *unicolor* Port. 24-86 La.
- 2918b. *investigator* Zett. subsp. *nigritus* Mann. var. *ruficornis* Mots. Bull. Mosc., JLII. 1869-352  
Cal.
- 2918c. *investigator* Zett. subsp. *maritimus* Guér. Icon. Regne. Anim. 1829, p. 60. Japan-B.C.  
*melsheimeri* Kby.  
ab. *martini* Hatch 27-358  
B. C.

\* As restricted by Hatch, this family includes only the tribes Lyrosomini, Agyrtini, Pinodytini (name changed to Catopocerini), and Silphini of the 1920 catalogue. The other tribes form a new family Leiodidæ, the separation of which is apparently supported by Dr. Forbes' studies of wing venation and folding, and adopted in Bradley's Manual. The composition of these families may suffer changes; they are here treated in accordance with the literature cited.

## Nicrophorus

- ab. clarencei Hatch 27-358  
B. C.
- ab. sitkenensis Hatch 27-358  
Sitka, B. C.
- ab. massetti Hatch 27-358  
B. C.
- ab. grahami Hatch 27-358  
B. C.
- ab. charlottei Hatch 27-358  
B. C.
- ab. particeps Fisch.  
Bull. Mosc. XVII, 1844, p. 139.
- var. variolosus Port. 24-149  
Sitka, B. C.  
?
- ab. intermedius Reitt. 95-327  
B.C.-N.Mex.
- ab. jamezi Hatch 27-358  
N. Mex.  
Mont.
- ab. lutescens Port. 24-150  
Ariz. N.Mex.
- 2919b. defodiens Mann.  
pygmaeus Kby. and hebes Kby.
- ab. humeralis Hatch 27-7  
N. J.-Alb.
- ab. ruber Hatch 27-356 Mich.
- ab. nicolayi Hatch 27-356  
N. B. Me.
- ab. oregonensis Hatch 27-356  
Oreg.
- ab. nunenmacheri Hatch 27-356  
B. C. Cal.
- ab. binotatus Port. 26-236  
Cal.
- ab. lateralis Port. 03-330  
Wash. Cal.
- ab. pacificæ Hatch 27-356  
Cal.
- ab. gaigei Hatch 27-356  
Wash. Oreg.
- ab. conversator Walk. Cal. Oreg.
- ab. kadjakensis Port. 26-236  
Alas.
- ab. mannerheimi Port. 24-293  
Cal.
2920. tomentosus Web.
- ab. communis Hatch 27-363  
L. I.
- ab. elongatus Hatch 27-363  
Colo.
- ab. angustefasciatus Port. 25-165-170  
?
- ab. splendens Hatch 27-363  
Ariz.
- ab. brevis Hatch. 27-363  
Man.
- var. aurigaster Port. 25-165  
?
20800. vespillo L. 58-359  
fide Hatch 27-363 quoting Portevin  
Neb. Penn.

## Silpha \*

- (*Philas* Port. a subgenus, fide Hatch 27-344)  
includes 2921
- (*Necrodes* Leach a subgenus including *Protonecrodes* Port.)  
includes 2922 and ? ab. bizonatus Port. from So. Cal.
- (*Thanatophilus* a subgenus credited to Samouelle by Hatch 27)  
includes 2923, 2924, 2925
- 2923a. caudata Say, valid fide Hatch  
Cal.  
(*Oiceoptoma* Leach a subgenus fide Hatch)  
includes 2926, 2927
- 2926a. rugulosa Port. Ga. Fla.  
acc. bicolorata Hatch 27-543  
N. Y. N. J.
- (*Blitophaga* Reitt. a subgenus fide Hatch)  
includes 2930, 2931  
(*Heterosilpha* Port. 26-83)  
includes 2929
20801. ænescens Csy. valid  
fide Hatch 27-344 Cal.  
(*Necrophila* Kby. including *Necrobora* Port. 26-86)  
includes 2928
- 2928a. affinis Kby.  
acc. brunnipennis Hatch 27-344  
Md.  
(*Oxelytrum* Gistel)  
? discicollis Br, a single specimen from So. Cal.

## Apteroloma Hatch 27-12

type 2936

## Pteroloma \*\*

20802. tahoeca Fall 27-136 Cal.
20803. arizonica Van D. 28-24  
Ariz.

\* Two specimens of *S. tyrolensis* Laich. ab. *nigrita* Creutz labeled "Ka." are mentioned by Hatch 27-345.

\*\* This genus, fide Van Dyke 28-19, belongs in the tribe Lyrosomini; but is placed by many authors in Omaliinae.

## LEIODIDÆ \*\*

Hatch 27, 29; Bradley 30.

**Hydnobius**

20804. luggeri Hatch 27-18 Alas.

**Anogdus**

20805. luggeri Hatch 27-17 Minn.

**Leiodes** Latr.*(Anisotoma* of 1920 Cat.)

20806. canadensis Brown 28-141 Sask. Man.

20807. oklahomensis<sup>1</sup> Brown 28-142 Okla.  
*(Ecarinosphaerula* Hatch 29-2)  
type 3011**Anisotoma***(Leiodes* of 1920 Cat.)  
*(Oreosphaerula* Ganglb. 99-209)  
includes 3025, 3010 and20808. puritana Fall 25-310 Mass.  
20809. fusciclava Fall 25-311 Cal.**Agathidium**20810. maculosum Brown 28-145 B. C.  
20811. canadensis Brown 30-89 B. C.**Dissochaetus** Reitt. 84-392963. oblitus Lec.  
2955 = *Sciodrepa fumatus* Spence,  
fide Hatch 27-15

## SCYDMÆNIDÆ

**Euconnus**

20812. longiceps Fall 26-144 Alas.

**Scydmaenus**

20813. adjutor Fall 26-144 Alas.

## ORTHOPERIDÆ

**Corylophodes**

20814. flavo-ocellus Blatch. 27-139 Fla.

**Orthoperus**6476 belongs here, fide Leng 26-285  
20815. æneocollis Blatch. 27-139 Fla.

## STAPHYLINIDÆ

Benick 21, 25, 28; Van Dyke 24; Notman 25; Jacobs 25; Mann 25;  
Fall 26, 30; Wendeler 27, 28; Chapin 28; Bernhauer 28; Hellén 28;  
Chamberlin and Ferris 29; Hatch and Ortenburger 30.**Holotrochus**20816. parvulus Chapin 28-66 La.  
20817. arizonicus Chapin 28-66 Ariz.**Thoracophorus**

20818. fletcheri Wendeler 27-5 N. Y.

**Anthobium**

20819. frosti Bernh. 28-40 Cal.

**Geodromicus**20820. rufipennis<sup>1</sup> Van D. 24-16 Alas.**Trogophloeus**20821. alaskanus Fall 26-146 Alas.  
20822. teres Fall 26-146 Alas.**Bledius**3623. falli Wendeler 28-298  
= *philadelphicus* Fall

\*\* The species following 2942 are here included. They are divided by Hatch into subfamilies Catopinæ (2945-2969), Coloninæ (2970-2984), Bathyclinæ (2943-2944), and Leiodinæ (= Anisotominæ). The last named is divided into tribes Leiodini (2985-3014), and Agathidiini (3015-3045). Catops replaces Choleva, Leiodes and Anisotoma are interchanged. Further changes are made by Hatch in 1933, too late for inclusion.

**Osorius**

20823. *parviceps* Notman 25-12  
Fla.  
20824. *brevipennis* Notman 25-14  
Ariz.  
20825. *variolatus* Notman 25-17  
Ariz.  
20826. *difficilis* Notman 25-17  
Ariz.

**Stenus**

3731. = *difficilis* Csy., fide Benick 21-192  
tenuis || Csy. nec Rey.  
3744. *tricuspidatus* Benick 21-192  
simplex || Csy. nec Rey  
20827. *biguttatus* L. 61-851  
fide Benick 25-73 Tenn.  
20828. *exasperatus* Benick 25-73  
Mont. B.C.  
20829. *torus*<sup>1</sup> Benick 25-80 Id.  
20830. *gibbicollis* Sahlb. 80-80  
fide Benick 25-77 Wash.  
20831. *limatulus* Benick 28-50  
Va.  
20832. *personatus* Benick 28-52  
N. C.  
20833. *frigidus* Fall 26-59 Alas.  
20834. *exploratus* Fall 26-61 Alas.  
3770a. *atomarius* Csy., valid  
fide Benick 25-75  
3782. *mammops* Csy., valid  
fide Benick 25-78  
3795. *ageus* Csy., valid  
fide Benick 25-78  
3837. *reconditus* Csy., valid  
fide Benick 25-80

**Dianous**

2857. *chalybæus* Lec., valid fide Benick  
**Euæsthetus**  
20835. *pacificus* Fall 26-62 Alas.  
20836. *subviridipennis* Bernh. 28-38  
Mass.  
20837. *marionensis* Bernh. 28-40  
Mass.  
20838. *ganglbaueri* Bernh. 28-39  
Mich.

**Lathrobium**

20839. *sollicitum* Fall 26-147 Alas.  
20840. *sewardi* Fall 26-148 Alas.

**Astenus**

20841. *fletcheri* Wendeler 27-6  
N. Y.

**Philonthus**

20842. *septentrionis* Fall 26-149  
Yukon  
20843. *fraternus* Fall 26-149 Yukon  
20844. *ovaliceps* Fall 30-253  
N. H. Mass. Va.  
20845. *bernardensis* Fall 30-253  
So. Cal.  
20846. *oklahomensis*<sup>1</sup> Hatch 30-12  
Okla.

**Diaulota**

(= *Amblopusa* Csy. fide  
Chamberlin and Ferris 29-155)

**Acrotona**

5534 belongs here, fide Hellén  
28-13, with 5626 as synonym

*Cordalia* n.n. Jacobs 25-82  
(*Cardiola* || Rey. nec Broderip.)

*Acamatoxenus* Mann 25-76 (to follow  
Myllæna ?)

20847. *suavis* Mann 25-76 So. Cal.

**PSELAPHIDÆ****Batrissodes**

6217. author should be  
Blatch. 10-326

**Rybaxis**

20848. *obliquedens* Fall 27-222  
Pa.

**Rybaxis**

20849. *geminata* Fall 27-225 Pa.  
20850. *transversa* Fall 27-223 Mass.  
20851. *arkansana* Fall 27-226 Ark.

**GNOSTIDÆ****Gnostus** Westw. 55-90

20852. *floridanus* Blatch. 30-111  
Fla.

**PTILIIDÆ****Ptenidium**

20853. *californicus* Psota and Ray 29-119  
Cal.

**Nephanes**

20854. *rugulodorsus* Hatch 27-265  
Ia.

## SPHÆRIIDÆ

6476 belongs in Orthoperus

## HISTERIDÆ

Hatch 26, 29; Brown 28.

**Hister**

- 6571a. albertensis Hatch 26-275 Alta.  
 6571b. carri Hatch 26-276 Alta.  
 19437 = subsp. of 6571,  
 fide Hatch 29-76  
 20855. jaquesi Hatch 29-76 Ia.  
 20856. lævicaudoides Hatch 29-77 Kan.

**Psiloscelis**

20857. carri Hatch 26-273 Alta.

**Heterius**

20858. carri Hatch 26-276 Alta.

**Saprinus**

20859. cynomysi Brown 28-89 Okla.  
 20860. carri Hatch 26-272 Alta.-Colo.  
 6827. ab. oregonensoides Hatch 29-78 Cal.  
 ab. distenguendoides Hatch 29-78 Mich.  
 ab. sejunctoides Hatch 29-78 Ia.

**Saprinus**

6831. ab. pseudosejunctoides Hatch 29-78 Cal.  
 ab. pseudosejunctus Hatch 29-78 Wash.  
 ab. leconteoides Hatch 29-78 Colo.  
 6831a and 6831c reduced to aberrations  
 6829. ab. profusoides Hatch 29-79 Mich.-Ohio  
 6830 reduced to aberration  
 6836. ab. semisulcus Hatch 29-79 Mich. O. La.  
 (*Hypocaccus* Thoms.)  
 20861. eriensis Hatch 29-80 Mich. Ohio  
 20862. ontarioensis Hatch 29-80 Ont.  
 20863. ohioensis Hatch 29-80 Mich.  
 20864. michiganensis Hatch 29-80 Mich.  
 20865. jaquesi Hatch 29-81 Iowa  
 20866. propensoides Hatch 29-81 Cal.  
 (*Pachylopus* Er.)  
 6901. palmatus Say  
 ab. dimidiatipennis Lec, fide Hatch

## LYCIDÆ

**Plateros**

20867. columbiensis Brown 29-108 B. C.

**Plateros**

6944. ab. humeralis Hatch 30-23 Okla.

## LAMPYRIDÆ

**Photinus**

20868. ignitus Fall 27-208 Mass. N. Y.  
 Pa.  
 20869. ablucens Fall 27-209 Ill.  
 20870. granulatus Fall 27-209 Kan.  
 20871. stellaris Fall 27-210 Tex.  
 20872. floridanus Fall 27-210 Fla.

**Photinus**

7004. (7007 is synonym)  
 7005. (7008 is synonym)

**Photuris**

20873. flavicollis Fall 27-210 Tex.

## PHENGODIDÆ

Pic in Junk Col. Cat. excludes from this family all the species of Omethini and of Mastinocerini except those in the genera Cenophengus and Mastinocerus.



## CANTHARIDÆ

Fall 26, 28, 30; Blatchley; Hopping 29.

**Chauliognathus**

20874. omissus Fall 30-254 Ariz.N.Mex.

**Podabrus**

20875. conspiratus Fall 26-152 and 28-76  
Alas.
20876. tetragonoderus Fall 26-152  
Alas.
20877. fissilis Fall 26-152 B. C. Alas.
20878. ambiguus Fall 28-73 Cal.
20879. appendiculatus Fall 28-74  
Ct. Mass.
20880. knobeli Fall 28-75 Ark.
20881. illex Fall 28-76 Cal.
20882. limatus Fall 28-78 Cal.
20883. brevicollis Fall 28-79 N.Y.Pa.R.I.
20884. longicornis<sup>1</sup> Fall 28-82 N. H.
20885. confraternus Fall 28-84  
Cal.
20886. sierræ Fall 28-84 Cal.
20887. viduus Fall 28-85 Cal.
20888. fulvus Fall 28-85 Cal.
20889. tenuis Fall<sup>1</sup> 28-85 Cal.
20890. muliebris Fall 28-86 N. Mex.
20891. occipitalis<sup>1</sup> Fall 28-87 Cal.
20892. modulatus Fall 28-88 Cal.
20893. extricatus Fall 28-88 Cal.
20894. excursus Fall 28-91 B. C. Mont.
20895. obscurevittatus Fall 28-95  
Alta.
20896. gracilis Fall 28-96 Cal.
20897. instabilis Fall 28-97 Cal.

**Podabrus**

20898. mœstus Fall 28-97 Cal.
20899. altus Fall 28-98 Cal.
20900. fenestratus Fall 28-99 Cal.
20901. probus<sup>1</sup> Fall 28-100 N. H.
20902. citrinus<sup>1</sup> Fall 28-100 Cal.
20903. heteronychus Fall 28-101  
Man. Alas.
20904. furtivus<sup>1</sup> Fall 28-102 Colo.
20905. pruinosis Lec., valid  
fide Fall 28-77 Cal.
- 20905a. diversipes Fall 28-77 Cal.
20906. flavicollis Lec. (7062a.),  
valid fide Fall 28-81  
basillaris Lec. = discoideus Lec.  
fide Fall 28-81.
20907. punctulatus Lec. (705Sb.) valid  
fide Fall 28-80  
7076 = 7089
20908. mexicanus Gorb. 85-284  
Ariz.
20909. falli Hopping 29-252 B.C.

**Cantharis**

7100. mandibularis Kby. (= nigrifulus  
Lec.) fide Fall 26
20910. degener Blatch. 28-62 Fla.
19485. = ? livida L. 58-647

**Polemnius**

20911. suturalis Blatch. 28-63  
Fla.

## MELYRIDÆ

Blaisdell 25, 26, 27, 28, 29, 30; Hopping 25; Hatch 27; Brown 28;  
Tanner 28; Martin 29; Fall 30.

**Collops**

20912. oklahomensis Brown 28-145  
Okla.

**Hoppingiana**

20913. kingi Brown 28-147 Alta.

**Temnopsophus**

7231. ab. quadrimaculatus Hatch 27-366  
ab. estelle Hatch 27-366

**Malachius**

20914. floricola Martin 29-174  
Cal.
20915. criddlei Brown 28-146 Man.

**Tanaops**

20916. basalis Brown 28-147 B. C.

**Microlipus**

20917. falli R. Hopp. 25-266 B. C.

**Pseudebæus**

7279. ab. nigroapicalis Hatch 27-367

**Trichochrous**

20918. kernensis Blais. 26-9 Cal.
20919. reticulicollis Blais. 26-10  
Cal.
20920. vicinus Blais. 26-11 Cal.
20921. muiroi Blais. 27-165 Cal.
20922. albertensis Blais. 27-50  
Alta.
20923. fieldi Blais. 27-51 Cal.
20924. quadrinotatus Blais. 30-14  
Cal.
20925. conformis Lec., valid  
fide Blais. 27-49
20926. zionicus Tanner 28-272 Ut.

**Listrus**

20927. medicatus Blais. 27-52 Alta.
20928. longicornis Blais. 28-35  
Cal.

**Listrus**

20929. *pictipes* Blais. 28-37 Cal.  
 20930. *falli* Blais. 28-39 Cal.  
 20931. *lanei* Blais. 28-40 Wash.  
 7435 = 7429, fide Blais. 25-79

**Dasytes**

20932. *irregularis* Blais. 25-184 Cal.  
 20933. *subæneus* Blais. 26-12 Cal.

**Allonyx**

20934. *cinerescens* Fall 30-254 So. Cal.  
 synonymy of 7496 and 7495  
 highly probable, fide Fall 30-255

**Vectura**

- (*Pseudallonyx* = *Vectura*,  
 fide Fall 30-255)  
 (*Vecturoides* n. subg. Fall 30-256)  
 20935. *pseudonycha* Fall 30-256 So. Cal. Ariz.

**Mecomycter**

20936. *liebecki* Blais. 29-23 Tex.  
 20937. *linearis* Fall 30-256 Cal.

**Semijulistus** Schilsky 94-89

- ? *bicoloripes* Pic 28-54 N. Am.

**Melyroides**

Pic, in Col. Cat. pars 103 (1929)  
 treats this genus and *Eurelymis* as  
 subfamily *Melyrinæ* of the family  
*Dasytidæ*.

**CLERIDÆ \***

Wolcott 27, 28; Chapin 27.

**Cymatodera**

20938. *mitchelli* Chapin 27-144 Tex.  
 20939. *rufiventris* Wolc. 27-105 Cal.  
 19579 (= 19580).  
 fide Chapin 27-143

**Lecontella**

20940. *gnara* Wolc. 27-105 Ariz.

**Enoclerus**

20941. *vetus* Wolc. 27-107 Tex.

**Hydnocera**

20942. *chapini* Wolc. 27-81 Tex.  
 20943. *mira* Wolc. 28-207 Neb.  
 20944. *puritana* Wolc. 28-208 Mass.  
 20945. *cuneiformis* Wolc. 28-208 Ariz.  
 20946. *blanchardi* Wolc. 28-210 N. Mex.

**Isohydnocera**

20947. *mima* Wolc. 28-211 Ariz.  
 20948. *liebecki* Wolc. 28-211 N. J.  
**Erolestus** Wolc. 27-109  
 20949. *cleroides* Wolc. 27-109 Pa.

**CORYNETIDÆ \*****Corynetes**

- 7725a. *nigricollis* Wolc. 27-110 Cal.

**CEPHALOIDÆ****Cephaloon**

(*Typitium* Csy.)

20950. *pacificum* Van D. 28-260 Wash. Cal.

**OEDEMERIDÆ****Oxacis**

20951. *falli* Blatch. 28-63 Fla.

\* The larval characters suggest the consolidation of these families, and subdivision into sub-families *Hydnocerinæ*, *Thaneroclerinæ*, *Priocerinæ*, *Korynetinæ*, *Tillinæ*, *Orthopleurinæ*, *Clerinæ*, *Enoplinæ*, and *Tarsosteninæ*.

## MORDELLIDÆ

According to the larval characters the tribe Anaspidini is to be transferred to Anthicidæ as a subfamily, or possibly to the Languriidæ. The family Mordellidæ by Dr. Böving's studies comprises only the tribes Mordellini and Mordellistenini.

*Anthobatula* n.n. Strand 29-29  
(*Anthobates* || Lec. nec Gistel)

## RHIPIPHORIDÆ

Rivnay 29; Brown 30.

*Trigonodera* Dej. 34-217

(*Pelecotoides* Cast.)

7947. *schaefferi* Rivnay 29-18  
Tex.  
*nubilus* † Schffr. nec Gerst.

*Macrosiagon*

20952. *fernaldum* Rivnay 29-26  
Cal.  
7952c. *maritimum* Rivnay 29-33  
Fla. Ala.  
7954b. *horni* Rivnay 29-36 Tex. Cal.  
7956a. *pulchrum* Rivnay 29-38  
N. C.

*Rhipiphorus*

20953. *columbianus* Brown 30-89  
B. C.  
20954. *calopterus* Rivnay 29-45  
Me.  
20955. *neomexicanus* Rivnay 29-50  
N. Mex.  
20956. *nomiæ* Rivnay 29-51 Ala.  
20957. *aurantus* Rivnay 29-55  
Tex.  
20958. *mutchleri* Rivnay 29-57  
Nev.  
20959. *iridescens* Rivnay 29-60  
Tex.  
19614 = 7964, fide Rivnay 29

## MELOIDEA

The families Meloidæ, Rhipiphoridæ, and Tetraonycidæ (based on *Tetraonyx quadrimaculatus*) constitute, according to the larvæ, a separate series. In it hypermetamorphosis occurs. It is associated by Dr. Böving with the cleroid assemblage of families, particularly Melyridæ, but qualified by the statement that there are some reasons for considering the possibility that it might be related to the Cantharoidea. The family Meloidæ is divided, on larval characters, into four subfamilies, viz.: Lyttinæ (including the tribes Zonabrini, Henoini, and Lyttini), Meloinæ, Horiinæ, and Nemognathinæ (including the tribes Sitarini and Nemognathini).

## MELOIDÆ

Van Dkye 28, 29, 30; Mickel 28, 29; Chittenden 26.

*Macrobasis*

19616. *murina* Lec. valid fide Chitt. 26-118  
Me.-Man.

*Epicauta*

20960. *impressifrons* Van D. 28-262  
Cal.  
20961. *foxi* Van D. 29-127 Cal.

*Lytta*

20962. *nigrocyanæa* Van D. 29-129  
Colo.  
20963. *maculicollis* Van D. 29-130  
Cal.

*Tetraonyx*

20964. *albipilosa*<sup>1</sup> Van D. 29-127  
Tex.



**Calospasta**8121b. *perpulchra* Horn, fide Van D.  
29-1278121c. *cyanea* Van D. 29-132 Cal.**Brachyspasta** Van D. 28-45120965. *wickhami* Van D. 28-452  
Colo.**Gynaecomeloe**20966. *parvicollis* Van D. 28-450  
Cal.**Meloe**20967. *californicus* Van D. 28-426  
Cal. Wash.20968. *quadricollis*<sup>1</sup> Van D. 28-431  
Cal.20969. *franciscanus* Van D. 28-437  
Cal. Nev.**Meloe**8142b. *occidentalis* Van D. 28-422  
Id. Colo. Alta.8149 = *americanus* Leach nec auct.  
fide Van D. 30*americanus* Van D. 28 et auct. =  
8142 fide Van D. 30*impressus* Van D. 28 = 8142a fide  
Van D. 30**Hornia**(*Leonia* and *Leonidia* are synonyms,  
fide Mickel 29)

8155. 8154 is a synonym, fide Mickel 29

20970. *anthophoræ*, Mickel 28-38, fide  
Mickel 29 Colo.**Zonitis**20971. *arizonica* Van D. 29-132  
Ariz.**Tricrania**belongs in *Sitarini*, fide Parker and  
Boving 24.**EURYSTETHIDÆ**Strand 26-74 prefers *Aegialatidæ* as family name, based on *Aegialitis*  
Gistl. Naturgesch. Tierreichs XI (1848) not *Aegialites* || Mann.**PYTHIDÆ**

Blair, Col. Cat. pars 99, (1928)

**PYTHINÆ**The subfamily *Pythinæ* includes  
*Priognathus*, *Leontia*, *Trimito-*  
*merus* with species as given in  
1920 Cat. and the genus *Pytho*,  
below.**Pytho**20972. *americanus* Kby.20973. *deplanatus* Mann19618. *fallax* SeidlitzS203. *niger* Kby.20974. *seidlitzii* Blair 25-211*niger* † Seid. 16-408.S205. *strictus* Lec.

S204 is not found in N. Am.

**SALPINGINÆ****Sphaeriestes** Steph. 31-218

includes S211, S212, S213

**Vincenzellus** Reitt. 11-418

includes S214

**Cariderus** Muls. 59-46includes S217, with S215, S216, and  
*nitens* as synonyms.**CONONOTINÆ****Cononotus**

includes S208, S209, S210, and

20975. *substriatus* Van D. 28-258  
Cal.**LACCONOTINÆ****Lacconotus**

includes 12591 and 12592

**Polypria**

includes 12597

**MYCTERINÆ****Mycterus**includes 12593, 12594, 12595 (with  
*flavipennis* Horn as a variety), and  
12596.**PYROCHROIDÆ**

Blair, Col. Cat. pars 90, (1928)

The family is divided by Blair into three subfamilies, *Pyrochroinae*,  
*Pedilinæ* (= *Pedilidæ*), and *Ischaliinæ* for *Ischalia* Pascoe and *Eup-*  
*leurida* Leconte, our species belonging to the latter.**Dendroides**20976. *marginata* Van D. 28-259  
Cal.**Dendroides**20977. *testacea* Lec. 55-275 is valid fide  
Blair 28

**PEDILIDÆ \*****Pedilus**

19620. fide Van Dyke 28-260 belongs in Dendroides, which is denied by Fall 29-14, who admits that it is not a typical Pedilus. Blair 14, and 20, includes Pedilus in Pyrochroidæ.

**Eurygenius**

20978. parvicornis Fall 29-333

Tex.

20979. perforatus Fall 29-334 Cal.

**Stereopalpus**

20980. columbianus R.Hopp. 25-207  
B. C.

**ANTHICIDÆ****Notoxus**

20981. vandykei Blais. 29-57 Cal.

**CEBRIONIDÆ****Cebrio**

20982. speratus Fall 28-146 Ark. La.

**PLASTOCERIDÆ \*\*****Euthysanius**

20983. horni<sup>1</sup> Fall 28-139 Cal.

20984. imparoculatus<sup>1</sup> Fall 28-141  
Ariz.

20985. blaisdelli Tanner 26-188

Ut.

**Aplastus**

20986. scabripennis<sup>1</sup> Fall 28-141

Cal.

20987. piceicollis<sup>1</sup> Fall 28-142 Cal.

20988. productus<sup>1</sup> Fall 28-143 Cal.

**Aphricus**

20989. tenuis Fall 28-144 Ariz.

**RHIPICERIDÆ****Zenoa**

8543a. vulnerata Lec. fide Pic is a variety

**BRACHYPSECTRIDÆ \*\*\***

Blair 30-49

**Brachypsectra**

9672. fide Blair 30-49

**SANDALIDÆ**

On the basis of larval characters, a new family is required for Sandalus.

**Sandalus**

8544a. brevicollis Melsh. fide Pic is a variety.

\* This family is broken into two parts in Bradley's Manual. Pedilus, following Blair, is attached to Pyrochroidæ, the other genera form tribes of Anthicidæ. We note, however, that Tillyard retains the family. Its union with Anthicidæ was proposed by Casey in 1895.

\*\* This family is united with Cebriionidæ in Dr. Böving's classification, based on larval characters.

\*\*\* Associated with Cantharoidea by Dr. Böving on the larval characters.

## ELATERIDÆ

Blatchley 25, 27, 30; Fall 25, 26, 29; Brown 30; Hatch 30; Méquignon 30; Benedict i. litt. 30; Quirsfeld i. litt. 30.

**Alaus**

8571a. oklahomensis Hatch  
30-23 Okla.

**Monocrepidius**

20990. fuscus Blatch. 25-163 Fla.  
planidiscus Fall 29-56 is syn.  
fide Blatch. 30-28 Ga. Fla.  
20991. ferruginosus Fall 29-54  
Ariz.  
20992. delicatus Fall 29-55 Ga.  
20993. difformis Fall 29-56 Ariz.

**Limonius**

20994. semiæneus Lec. 53-432 is valid  
fide Blatch. 30-28 Ga. Fla.

**Athous**

For synonymy see Méquignon,  
Bull. Soc. Ent. France. 30-95

**Ludius**

8705. not American, fide Quirsfeld i. litt.  
8783. carbo Lec.=lobatus Esch. 22-69,  
fide VanDyke 24  
8773. reverse synonymy  
8775. appropinquans (Rand.) should  
replace elegans (Kby.), fide Fall,  
also Quirsfeld i. litt.  
Quirsfeld considers  
tinctus Lec. a good species.

**Eanus** Lec. 62-171

genus is valid, fide Brown 30-161;  
species are:  
8804. decoratus Mann. Yukon-Que.  
vagus Lec.  
costalis Cand. nec Payk.  
20995. subarcticus Brown 30-163  
Que.  
8803. estriatus Lec. L. Sup.  
20996. maculipennis Lec. 66-85  
Lab. Que.  
pictus Cand.  
20997. albertanus Brown 30-165  
Alta.

**Hypnoidus**

20998. extricatus Fall 26-191 Alas.

**Drasterius**

20999. debilis Lec. 84-5, and  
Quirsfeld i. litt. Mich. N. H.  
N. Y.

**Ischiodontus**

21000. granosus Fall 25-180 Fla.

**Melanotus**

21001. simulans Blatch. 27-140 Fla.  
21002. obscuratus Blatch. 27-141  
Fla.  
21003. piceatus Blatch. 27-141 Fla.

**Cardiophorus**

21004. aptopoides Cand. 65-40  
fide Benedict i. litt. Ariz.

**Aptopus**

21005. lateralis spadiceus Cand. 93-176  
fide Benedict i. litt. Ariz.

## MELASIDÆ

Schenkling in Col. Cat., pars. 96, arranges the North American genera belonging in the family Melasidæ in four subfamilies, viz.: Gastraulacinae (Dendrocharis); 2 Eucneminae (Eucnemis, Poecilochrus, Phaenocerus, Stethon, Deltometopus, Dromaeolus, Fornax); 3 Dirhaginae (Arhipis, Entomophthalmus, Dirhagus subgen. Hyporhagus\*, Rhagomicrus, Adelothyreus); 4 Melasinae (Isorhipis, Melasis, Euryptychus, Epiphanis, Palaeoxenis, Schizophilus, Hylis, Xylophilus, Hylochares, Sarpedon, Nematodes). He does not include Perothopinae in the family Melasidæ.

\* This subgeneric name is a synonym of Hyporhagus Thoms. 1860 Ann. Soc. Ent. France (3) VIII, p. 25. (In Monommidæ).

**Fornax**

21006. *rugicollis*<sup>1</sup> Fall 25-181 Ark.  
 21006½. *horni* Bonv. 70-981  
 fide Schenkling 28-43 Can. Ky.

**Diphytaxis** Horn 90-239

21007. *excavata* Horn 90-239,  
 fide Fall 28-236 Guat. Tex.

**Melasis**

21008. *tsugæ* G.R.Hopp. 26-226

B.C.

**Dirhagus** Latr. 34-130(*Hyporhagus*) (*Microrhagus*)

21009. *texanus* Linell 99-184 Tex.

**Rhagomicrus** Fleut. 02-658(*Isorhipis* Boisd. and Lacord.  
35-620)

21010. *obscuricornis* Bonv. 71-97  
 N. Y.

In his arrangement of the genera and species of Melasidæ Schenkling makes the following changes: *Fornax horni* Bonv. 70-891 given specific rank.

*Dirhagus* subgen. *Hyporhagus* includes 9154-9158.

and *texanus* Linell 99-184 Texas. (Leng Cat. No. 12517 Monommidæ)

*Rhagomicrus*, 9159 and 9160.

*Isorhipis*: adds *nubila* Bonv.

Mon. Euc. 1871, p. 96, 108. N.

Georgia [According to Dr. Geo. Horn only one specimen known, collected about 1836.]

*Phlegon* synonymy reversed.

*Xylophilus* Mann. 23-14 replaces *Xylobius*.

*Hylis* Gozis 86-21 replaces *Hypocælus*

## PEROTHOPIDÆ

Schenkling, Col. Cat. pars 101 (1928).

**Perothops**

21011. *cervina* is valid, fide Schenkling.

## THROSCIDÆ

Schenkling, Col. Cat. pars 101 (1928).

**Drapetes**

- 9182a. *nitidus* Melsh. is raised to specific rank  
*americanus* Gerst. 60-162 is not a synonym.

**Pactopus**

21012. *fuchsi* Csy. is listed as valid species.  
*alienus* Bonv. 60-351 is syn. of 9195.

**Throscus**

9202. synonymy reversed.

## BUPRESTIDÆ

Obenberger 24, 25, 27, 28, 30; Fisher 25, 28, 30; Fall 25, 26, 30;  
 Chamberlin 25, 26, 28, 29; Champlain and Knull 25; Knull 27, 28,  
 29, 30; Van Dyke 27; Burke 28; Thery 29.

**Chrysophana**

9207. ab. *cærulans* Obenb. 24-100  
 Cal.

**Polycesta**

9211. var. of *montezuma*, fide Obenb.

**Acmæodera**\*

21013. *flavinigrapunctata*  
 Knull 28-314 Tex.

**Acmæodera**\*

21014. *hulli* Knull 28-315 N. Mex.  
 21015. *pinalorum* Knull 30-15 Ariz.  
 9219a. *gila*<sup>1</sup> Knull 30-16 Ariz.  
 21016. *confusa* Fisher 25-41  
*cubæcola*† Kerr.  
 9220. *marginotata* Chev. 67-583  
 and Fisher 25-34.  
*cubæcola*‡ Fall

\* In Obenberger's catalogue several species heretofore regarded as synonyms, e.g., *mixta*, *arizonæ*, *immaculata*, and others of doubtful status, e.g., *obesa*, *pallidula*, are apparently restored. 19633 is added to the doubtful class.

**Acmæodera**

21017. purshiae Fisher 25-114 Nev.  
 9232. syn. of 9233, fide Chamberlin;  
 valid species fide Obenb.  
 9284. syn. of 9233, fide Chamberlin;  
 or of 9232, fide Obenb.  
 19636. var. of 9240, fide Chamberlin 29-112  
 19632. junki n.n. Théry 29-115  
 for squamosa VanD. nec Théry.

**Ptosima**

- 9291a. schaefferi Chamberlin 26-235  
 Tex.

**Chalcophora**

21018. pallida Kerr. 19-48 B. C.  
 As in Acmæodera and other genera  
 the Obenberger catalog apparently  
 restores, without explanation,  
 several names to specific rank.

**Trachykele**

- 9330a. juniperi Burke 28-8 Cal.

**Dicerca**

21019. tenebrica Kby. (= prolongata Lec.)  
 valid fide Fall 26.  
 21020. lugubris Lec. distinct  
 from tenebrosa fide Fall 26.  
 21021. americana Hbst. valid  
 Chamberlin 26-180

**Poecilonota**

21022. salixi Chamberlin 25-186

Cal.

salicis Obenb. Cat.  
 and Chamberlin 26

- 9351c. collaris Obenb. 28-181 N. Y.

- 9351d. apicilla Obenb. 28-181 Ont.

? debilis Lec. 59-204

(a single specimen) Md.

**Hesperohipis** Fall 30-74

21023. albofasciatus<sup>1</sup> Fall 30-75

Cal.

**Buprestis**

Chamberlin's catalogue reduces 9369  
 to a variety of 9368, but otherwise  
 agrees substantially with our 1920  
 list.

Obenberger's catalogue recognizes  
 about eleven more valid species, and  
 about as many more subspecies,  
 varieties and aberrations, which  
 may not be entirely approved by  
 American students.

**Melanophila**

21024. drummondi Kby. valid  
 Chamberlin 26  
 ab. tristicula Obenb. 28-209  
 Cal. B. C.  
 9390. ab. monochroa Obenb. 28-209  
 Cal.  
 ab. isolata Obenb. 28-209  
 Cal.  
 ab. plagifera Obenb. 28-210  
 N. H.  
 21025. atropurpurea Say valid ?  
 Chamberlin 26  
 21026. lecontei Obenb. 28-210 Cal.  
 21027. occidentalis Obenb. 28-209  
 Cal.  
 93876. abietis n.n. Obenb. for abies

**Anthaxia**

21028. pseudotsugæ Chamberlin 28-95  
 Or. Cal. Ariz.  
 ? fisheri Obenb. 28-255 Kan.  
 ? carolinensis Obenb. 28-256  
 Carolina  
 ? knulli Obenb. 28-256 Cal.  
 ? nevadensis Obenb. 28-257  
 Nev.  
 ? prasina falsula Obenb. 28-257  
 Cal.  
 ? strigata grossa Obenb. 28-257  
 Cal.  
 9394. Obenberger recognizes as valid  
 species or varieties all the syno-  
 nyms heretofore placed under  
 teneogaster adding besides the six  
 above cited, and ærisa  
 Crotch. We are unwilling to accept  
 such recognition until verified.

**Agrilaxia**

21029. borealis Obenb. 24-107 Pa.  
 9399a. huachuæ n.n. Obenb. 30-551  
 Ariz.  
 arizonæ || Chamberlin 26-46  
 nec Obenb.

**Chrysobothris**

21030. fragariae Fisher 30-149 Wash. Id.  
 21031. burkei Chamberlin 29-110  
 Cal.  
 21032. socialis Waterh. 87-39,  
 fide Chamberlin Cat. Mex. Ariz.  
 9416. synonymy reversed,  
 fide Chamberlin Cat.  
 9456. synonymy reversed,  
 fide Chamberlin Cat.  
 9448. 9449 and 9450 synonyms,  
 fide Chamberlin Cat.

**Actenodes**

21033. arizonica<sup>1</sup> Knull 27-115  
 Ariz.  
 9482. auronotata is valid,  
 fide Fisher 25-88

**Agrilus**

- (*Engyaulus* Waterh. is synonym  
 fide Fisher 28-104)  
 21034. arbuti Fisher 28-50 Oreg.  
 21035. albocomus Fisher 28-59  
 Ariz. Tex.  
 21036. atricornis Fisher 28-86  
 Conn. Ill.  
 21037. benjamini Fisher 28-107  
 Tex. Kan.  
 21038. pilosicollis<sup>1</sup> Fisher 28-111  
 Ark.  
 21039. quercicola Fisher 28-120  
 Colo. Ariz. Ut.  
 21040. olivaceoniger Fisher 28-124  
 Mass. Conn.  
 21041. fulminans Fisher 28-148  
 Cal.  
 21042. populi Fisher 28-150  
 Cal. B. C. Mont.  
 21043. betulæ Fisher 28-153 Md. Va.  
 21044. costipennis Fisher 28-182.  
 Cal.



**Agrilus**

21045. *baboquivoriæ* Fisher 28-184  
Ariz.
21046. *lautuellus* Fisher 28-202  
Tex.
21047. *pubifrons* Fisher 28-237  
Idaho
21048. *mimosæ*<sup>1</sup> Fisher 28-241 Tex.
21049. *chiricahuæ* Fisher 28-243  
Ariz.
21050. *æneocephalus* Fisher 28-245  
Ariz.
21051. *malvastri* Fisher 28-247  
Kan.Tex.Alt.
21052. *falli* Fisher 28-249 Ariz.
21053. *cupreonitens* Fisher 28-265  
Tex.
21054. *prosopidis* Fisher 28-275  
Tex.
21055. *exiguellus* Fisher 28-277  
Tex. Kan.
21056. *acaciæ* Fisher 28-279 Tex.
21057. *barberi* Fisher 28-311 Ariz.
21058. *pubescens* Fisher 28-315  
Ariz. Tex.
21059. *eleanoræ* Fisher 28-320 Tex.
21060. *oblongus* Fisher 28-333 Md. Va.
- 9542a. *pseudocoryli* Fisher 28-218  
Conn.-Kan.
- 9553a. *celticola* Fisher 28-294 Tex. Ariz.
- 9523c. *corylicola* n.n. Fisher  
for *coryli*||Horn nec Ratz.
9550. = *pulchellus* Bland
9533. = *gibbicollis* Fall
21061. *cupreomaculatus* Duges 91-48  
fide Fisher 28-46 and Mason 26-84.  
Ariz.

**Agrilus**

- 9523d. = 9523
21062. *geminatus* Say 23-163 is valid
21063. *quadriimpressus* Zieg. 46-267  
is valid Ga.
21064. *quadriguttatus* Gory 41-228  
is valid Va.-Colo.
9542. *canadensis* Obenb. is synonym
9543. = 9542b.
21065. *transimpressus* Fall 25-181  
Ark. N. J.
21066. *illectus* Fall 01-242  
is valid Fall 26-125
21067. *olentangyi* Chamberlin and  
Knull 25-469 Tex. Ohio
21068. *duncani* Knull 29-270 Ariz.
21069. *fisheriana* n.n. Knull 30-3  
Ariz.
- fisheri*||Knull 29-271
21070. *parafloridanus* Knull 29-272  
Fla.
21071. *trichocarpæ* Chamberlin 29-112  
Or.B.C.Cal.
21072. *manzanitæ* Chamberlin 29-113  
Oreg.
19669. cf. Nylén 29-219
- Pachyschelus**
- 9565b. *nicolayi* Obenb. 25-103 Ark.
- ? *biimpressa* Mots. 59-54, Tenn.
- ? *oblongus* Mots. 59-54 Tenn.
- fide Obenb. 25-96
- fide Obenb. 25-96
- Taphrocerus**
21073. *nicolayi* Obenb. 24-72 Mass. N. Y.

**DRYOPOIDEA AND DASCILLOIDEA**

The essay "On the Classification of Beetles According to Larval Characters" by Dr. Adam G. Böving indicates changes in the classification of the genera heretofore included.

- The Dryopoidea will include the following families:  
Laridæ\*, formerly Potamophilini,  
Dryopidæ, including Dryopini, Helmini\*, and Ancyronychini.  
Chelonaridæ.  
Ptilodactylidæ, including Ptilodactylinæ, Eurypogon\*, and Anchy-tarsini.  
Psephenidæ, including Psephenus and Eubrianax.
- The Dascilloidea will include the following families:  
Heteroceridæ.  
Helodidæ.  
Dascillidæ, except the tribes transferred to Dryopoidea.  
Nosodendridæ.

Eucinetidæ are separated from Dascillidæ in Bradley's Manual, but remain in the Dascilloid series, although Dr. Böving says "judging from the larva the genus cannot be placed with either the Dascilloidea or Dryopoidea."

- Both series were derived from Byrrhoid ancestors, but are now distinguishable.

\* The rank of these groups is altered in Dr. Böving's 1931 paper, becoming Larinæ, Helminæ, and Eurypogonidæ respectively.

## DRYOPIDÆ

## LARINÆ

Böving 29, 31.

The studies of Dr. Böving on the larvæ of the beetles heretofore grouped in the series Dryopoidea, Dascilloidea and Byrrhoidea indicate certain changes in classification whereby the subfamilies Larinæ and Helminæ are separated from Dryopidæ.

## Lara

21074. *gehringi* Darl. 29-329 Wash. Cal.  
 9590a. *amplipennis* Darl. 29-330  
 Wash. B. C.

## HELMINÆ

## Stenelmis

21075. *fuscatus* Blatch. 25-164 Fla.

## Helmis

21076. *brunnescens* Fall 25-177

21077. *castanipennis* Fall 25-177

21078. *immunis* Fall 25-178 Ct. N. J.

21079. *tardellus* Fall 25-179 Mass.

21080. *ampliatius* Fall 25-179 Mass.-Va.

## Helmis

21081. *dispar* Fall 25-180 Cal.

21082. *arizonica*<sup>1</sup> Brown 30-90 Ariz.

21083. *thermarum* Darl. 28-5 Oreg.

21084. *koebelei* Martin 27-68 Wash.  
 9628=9619, fide Fall 25-180

## Limnius

21085. *trivittatus*<sup>1</sup> Brown 30-91

21086. *subarcticus* Brown 30-241

- Que.

- Que.

## PTILODACTYLIDÆ

## Ptilodactyla

21087. *equilobata* Chapin 27-245

- Tex.

21088. *exotica* Chapin 27-246 Ill.

## HELODIDÆ

## Cyphon

21089. *confusus* Brown 30-91 Que.

## DASCILLIDÆ

## Macropogon

21090. *dubius* Brown 29-273 B.C.

21091. *cribricollis* Brown 29-274

- B.C.

21092. *rubricollis* Pic 27-34 Cal.

## BYTURIDÆ

The genus *Byturus* is found on larval characters to belong nearer to the Anthicidæ than the Dermestidæ and is separable as a family. The Dermestidæ are divided into two subfamilies, Dermestinæ and Attageninæ. The genus *Thylotrias* is apparently included in the latter.

## OSTOMATIDÆ

The spelling of this family name is amended by Dr. Böving, and its tribes are ranked as subfamilies.

## DERMESTIDÆ

**Perimegatoma**

21093. *perversa* Fall 26-194 Yukon  
21094. *giffardi* Blais. 27-163 Cal.

**Trogoderma**

21095. *sinistra* Fall 26-193 Yukon  
9774=9770, fide Mutchler 27-25

## NITIDULIDÆ

**Meligethes**

10024. cf. *Chitt.* 25-149

**Brachypterolus**

- 19687, reverse synonymy  
fide Hatch 28-35

## MONOTOMIDÆ

Hetschko, in Col. Cat. pars. 109, 1930, treats this family as a subfamily of Cucujidæ, together with Silvanicæ and Hemi-peplidæ, which have been shown by Böving and Arrow respectively to be distinct. We therefore retain the family name.

**Monotoma**

21096. *avara* Blatch. 28-65 Fla.  
10160 is a synonym of 10159,  
fide Hetschko  
21097. *corpulenta* Mots. 6S-200,  
fide Hetschko La.  
21098. *fulvipennis* Mots, 6S-199,  
fide Hetschko N. Am.  
*quadrioveata* Aubé not N. Am.,  
fide Hetschko  
10178 belongs here (?),  
fide Hetschko

**Europs**

21099. *fervida* Blatch. 28-66 Fla.  
21100. *frugivorus* Blatch. 28-66  
Fla.

**Bactridium**

- adustus* Reitt. is valid  
but not N. Mex., fide Hetschko  
21101. *striolatum* Reitt. is valid,  
fide Hetschko

**Hypocóprus**

10193. This genus is treated by Hetschko as a tribe in Cucujidæ, and the name of the species is given as *tenuis* Csy., *formicetorum* Mots. being confined to the Old World.



## CUCUJIDÆ

Hetschko's treatment of this family divides it into seven subfamilies, viz.: Cucujinæ, Nartheciinæ, Prostominæ, Silvaninæ, Hemipeplinæ, Scalidiinæ, and Monotominæ, disregarding apparently the work of Böving and Arrow

The following changes in nomenclature, besides those noted in our first supplement, are to be noted:

<b>Uleiota</b> Latr. replaces <i>Brontes</i> Fab.	<b>Uleiota</b>
10273. <i>denticulata</i> <b>Smith 51-14</b> is added as a synonym	10194. 10195 and 10196 are only varieties.
10243. <i>testaceus</i> †Csy. nec Fab. 84-87 is added as a synonym	21107. <i>Cathartus quadricollis</i> Guer. is valid . . . . . Cosm.
21102. <i>testaceus</i> Fab. is valid Cosm.	10201 and 10203 are synonyms of above
10261. = <i>minutus</i> Oliv.	<b>Monanus</b> Sharp 79-85 (to follow <i>Planis-</i> <i>mus</i> )
21103. <i>puberulus</i> Lec. is valid	21108. <i>concinulus</i> Walk. 58-207 Cosm.
21104. <i>pusillimus</i> Mann. is valid Aleut. Alas.	<b>Læmophloeus</b>
21105. <i>gilæ</i> Csy. is valid but belongs in <i>Silvanus</i>	Key to species, Park 29-433.
21106. <i>unidentatus</i> Fab. 92-232 Cosm.	

## HEMIPEPLIDÆ

Arrow, 30-225, makes the genus *Hemipeplus* a family in the heteromorous series.

## LANGURIIDÆ

Lewis 84; Arrow 25, 29; Schenkling 28.

**Languria**

- 10279a. *ab. puncticollis* Say  
21109. *interstitialis* Csy, valid  
fide Schenkling  
10287 transferred to *Acropteroxys*

**Hapalips**

belongs in *Languriidæ*,  
fide Arrow 29-318.

**Acropteroxys**

21110. *thoracina* Csy., valid  
fide Schenkling  
10294 a, *ab. of 10292*,  
fide Schenkling  
*obscura* Mots, *ab. of 10292*,  
fide Schenkling

## BIPHYLLIDÆ

Arrow 29-306

The type is the genus *Biphyllus*. Our genera *Anchorius* and *Diplocælus* are presumably included.

## CRYPTOPHAGIDÆ

**Pharaxonotha**

21111. *zamiæ* Blake 28-111 Fla.  
*Glyptophorus* Park 29-430  
21112. *mycetoecus* Park 29-430  
Ia.

**Cryptophagus**

21113. *maximus* Blake 28-109 Cal.  
**Ephistemus**  
21114. *punctatus* Blatch. 25-165  
Fla.

## MYCETOPHAGIDÆ

Hetschko, Col. Cat. pars 108, (1930).

Hetschko has transferred to this family *Triphyllus* Latr. 29-98, placed by Casey in Melandryidæ; *Berginus* is also transferred from Cisidæ. On the other hand, *Myrmecoxenus* is taken from Mycetophagidæ and added to Colydiidæ. In connection with the first of these changes, it is to be noted that *Pisenus*, the generic name used by Casey for *Triphyllus* † auct. nec Latr., is not mentioned.

## Typhæa

10509. *stercorea* L. 58-357.  
*fumata* L. 66-654.

## COLYDIIDÆ

Hetschko, Col. Cat. pars 107, (1930).

## Nanunaria Reitt. 82-114

(*Coxelus* † Horn nec Latr.)

## Rhagodera

- 21115.
- laticeps*
- Blais. 25-326 San Benito Is.

## Myrmecoxenus

10521. transferred from Mycetophagidæ
- 
- and spelling changed.

## Nematidium

- 10581.
- filiforme*
- Lec. is correct name for
- 
- our species,
- mustela*
- Pascoe being
- 
- a synonym of
- cylindricum*
- Fab.
- 
- from South America.

## Bitoma

- 21116.
- paradisea*
- Blatch. 30-32 Fla.

- 21117.
- cremata*
- Fab. 75-69,

fide Cooper 30-21 occurs on  
L. I.

## Colydium

- 21118.
- bicoloratum*
- Blatch. 25-165
- 
- Fla.

## MURMIDIINÆ

The family Murmidiidæ is treated by Hetschko as a subfamily of Colydiidæ and divided into two tribes Murmidiini and Mychocerini, the latter including the genus *Mychocerus*.

## EUXESTINÆ

## Euxestus Woll. 48-411

(*Hypodacne* Lec. 170)

10346. This species is removed by
- 
- Hetschko from the Erotylidæ
- 
- to form this subfamily
- 
- in Colydiidæ.

## LATHRIDIIDÆ

## Lathridius

10629. *cinnamopterus* Mann.  
*montanus* Fall is synonym,  
fide Fall 26  
10630. *costicollis* Lec.  
*armatulus* Fall is synonym,  
fide Fall 26  
21119. *carinifer* n.n. Fall 26-197  
*costicollis* † Fall nec Lec.

## Corticaria

21120. *arctophila* Fall 26-197 Alas.  
21121. *cavicauda* Fall 26-198 Alas.

## Corticaria

10683. *falli* n.n. Hetschko 29-156  
*cribricollis* † Fall nec Fairm.  
Hetschko in Junk Col.  
Cat. makes 10625  
a synonym of *angusticollis*  
Gyll. 27-136  
transfers 10635 to *Lathridius*,  
10667 to *Cartodere* with  
locality Cuba only,  
makes *Eufallia unicostata* valid,  
and treats all the heretofore  
unrecognized species as valid.

## MYCETÆIDÆ

*Stethorhanis* Blais. 30-376  
21122. *vandykei* Blais. 30-381 Cal.

## ENDOMYCHIDÆ

*Stenotarsus*  
21123. *blatchleyi* Walton 28-217  
Fla.

## PHALACRIDÆ

Hetschko, Col. Cat. pars 108 (1930).

*Phalacrus*  
21124. *vicinus* Guill. 94-292 Mich.Mo.  
21124a. *subsulcatus* Guill. 94-292  
Mich.Mo.  
21125. *propinquus* Guill. 94-293  
Kan.  
21126. *americanus* Guill. 94-294  
Mich.  
*Olibrus*  
10778. *caseyi* n.n. Hetschko 28-142  
*egenus*||Csy. nec Guill.  
*piceus* Boh. 58-38 (Eugen. Reise)  
Cal.(?)

*Tinodemus* Guill. 94-300  
21127. *grouvellei* Guill. 94-302 Mich.  
*Stilbus*  
21128. *atomarius* L. 67-574,  
fide Leonard N. Y. State List  
N.Y.  
*Gorginus* Guill. 94-283  
(*Erythrolitus* Csy.)  
10867. *rubens* (Lec.)

## COCCINELLIDÆ\*

*Hyperaspis*  
21129. *pluto* Fall 25-311 Cal.  
21130. *jovialis* Fall 25-311 Cal.  
*Scymnus*  
21131. *pellio* Blatch. 27-142 Fla.  
11028. *melsheimeri* n.n. Weise 29-33  
for *collaris* Melsh. nec Herbst  
11047. *sanctus* n.n. Weise 29-33  
for *decipiens* Csy. nec Weise  
11084. *nevadensis* n.n. Weise 29-33  
for *innocuus* Csy. nec Boh.  
11085. *indianensis* n.n. Weise 29-33  
for *rusticus* Csy. nec Weise  
11092. *georgei* n.n. Weise 29-33  
for *bisignatus* Horn nec Boh.

*Scymnus*  
11115a. *caseyanus* n.n.  
for *brunnescens* Csy. nec Mots.  
*caseyi*||Weise 29-33 nec Berthes  
11120. *lunaris* n.n. Weise 29-33  
for *stigma* Csy. nec Weise

*Delphastus*  
19760. removed to *Scymnillodes*,  
Chapin 30-493.

*Psyllobora*  
11150 b, is a valid species.  
fide Blatch. 30-38

*Adalia*  
11193a. *schuetti* Park 29-4 Iowa

## ALLECULIDÆ

*Mycetochara*  
11331. *rufipes* Lec. belongs here,  
not under 11267.

\* The European *Bulæa lichatschovi* has been found at Paterson, N. J., fide Schott 26-17.

## TENEBRIONIDÆ\*

## Telabis

21131. nevadensis Blais. 25-372 Cal.

## Melanastus

21132. texanus Blais. 26-22 Tex.

## Usechus

11673a. horni Blais. 29-6 Cal.

11673b. santaclaræ Blais. 29-6 Cal.

11673c. trinitatis Blais. 29-7 Cal.

## Usechimorpha Blais. 29-9

21133. barberi Blais. 29-11 Cal.

## Eulabis

11919 = 11916, fide Blais. 25-79

(? i. litt.)

19840 = 11920, fide Blais. 25-79

## Eleodes

11930c. lassenica Blais. 25-373 Cal.

21134. parowana Blais. 25-374 Ut.

21134a. mimica Blais. 25-375 Ut.

21135. fuscipilosa Blais. 25-376

21136. reducta Blais. 25-377 Ut.

21137. mazatzalensis Blais. 25-379

Ariz.

21138. coloradensis Blais. 25-380

21139. concinna Blais. 25-381 Nev. Ut. Cal.

21140. wenzeli Blais. 25-381 Tex.

21141. speculicollis Blais. 25-382

Tex.

11951c. glabriuscula Blais. 25-383

Tex.

11961h. montana Blais. 25-385 Cal.

11961i. tularensis Blais. 25-386 Cal.

11980f. alticola Blais. 25-387 Cal.

11988b. dilaticollis Blais. 25-388

Wash.

11988c. sierra Blais. 25-78 Cal.

11990b. difformis Blais. 25-389 Wash.

11970 is not syn. of 11971,

fide Blais. 25-79

## Eleodes

11970a. fenyesi Blais. 25-77 Cal.

21142. delicata Blais. 29-164 Ariz.

21143. californica Blais. 29-165

Cal.

## Neobaphion Blais. 25-390

type 11998

## Embaphion

12005a. blaisdelli Benedict 27-46

N. Mex.

## Coelosattus Blais. 27-166

21144. fortineri Blais. 27-167 Cal.

## Blapstinus

21145. cinerascens Fall 29-58 So. Cal.

21146. falli Blais. 29-21 Cal.

## Alaudes

21147. alternata Fall 28-148 Cal.

21148. fallax Fall 28-150 Cal.

## Leichenum

12277. seriehispidum Mars. 76-101

fide Carter 28-270

variegatum Klug

squamosa (Endothina) Cart.

## Diaperis

21149. californica Blais. 29-60

Cal.

12306a. nigronotata Pic 26-22

Fla.

12306b. bicoloriceps Pic 26-22 Fla.

## Hypophleus

21150. prætermisus Fall 26-199

Mass.-Yukon

? mexicanus Reit. 77-191,

fide Blatch. 30 Fla.

## Cœlocnemis

21151. barretti Blais. 28-163 Cal.

21152. tanneri Blais. 28-164 Ut.

## MELANDRYIDÆ

## Eustrophinus

21153. ornatus VanD. 28-251 Ariz.

## Microscapha

21154. californica Barrett 28-173

Cal.

## Melandrya

21155. blackmani Hatch 27-364

N. Y.

(*Emmesa*)

21156. testacea VanD. 28-252 Cal.

(*Neocmmesa* Hatch 27-365)

21157. noveboracensis Hatch 27-365

N. Y.

## Hypulus

21158. californicus VanD. 28-253

Cal.

## Allopoda

19912 = 12580, fide Blatch. 28-49

## Canifa

12585a. millikini Hatch 27-366

Ill.

## Osphyra

21159. essigi VanD. 28-255 Cal.

## Lacconotus\*\*

21160. pallidus VanD. 28-256 Cal.

\* For changes in classification of this and related families, as indicated by larval characters, see papers by R. A. St. George and Adam G. Böving.

\*\* Included in Pythidae by Seidlitz.

## PTINIDÆ

**Ptinus**

21161. ocellus Brown 29-109 Vanc.

## ANOBIIDÆ

**Xarifa**

21162. lobata Fall 29-57 Cal.

**Ptilinus**21163. flavipennis Csy. valid,  
fide R.Hopp. 28-8  
12866 = 12865, fide R.Hopp. 28-8

## BOSTRICHIDÆ

**Stephanopachys***(Prostephanus)*

21164. apax Lesne 30-102 Ariz.

**Dinapate**12923. See Fenyès, Rovart Lapok VIII, 4;  
Garnett, Ent. News, 1918, p. 41.**Polycaon***(Heterarthron)*

21165. parvulum Lesne 25-29 Cal.

## PSOIDÆ

This family includes the following genera, usually placed in the Bostrichidæ:

Stephanopachys, Rhizopertha, Dinoderus, as well as the tribe Psoini, according to Böving and Craighead, quoting Saalas and Lesne. It is a part of the series Bostrichoidea. From that series, on larval characters, the families Ciidæ (= Cisidæ) and Sphindidæ are to be removed, the first to the new series Cleroidea, composed of Dermestidæ, Melyridæ, Ostomatidæ, Cleridæ; the second to the Cucujoidea. "The larva of the Sphindidæ," says Dr. Böving, "represents unquestionably a simple, primitive cucujoid type, but its more precise systematic position is rather uncertain." Compare also P. de Peyerimhoff, Etudes sur les larves des coléoptères, Ann. Soc. Ent. France, 1921. pp 109-110

## CIIDÆ (CISIDÆ)

Dr. Böving, while finding part of the larval characters suggestive of bostrichoid relationship, states that other characters "speak strongly against a taxonomic position within the Bostrichoidea and for the association with the Cleroidea." Peyerimhoff in 1933, places Ciidæ after Tenebrionidæ in the series Cucujoidea, with Schwarz and Barber, 1914, p. 177, as authority, but adds in a footnote, "il faut bien leur donner une place."



## SCARABÆIDÆ

Brown 25, 27, 28, 29, 30; Glasgow 25; Fall 26, 27, 28, 29, 30; Schott 26; Hatch 26, 30; Darlington 27; Langston 27; Schaeffer 27; Buchanan 27; Blatchley 28, 29, 30; Luederwaldt 28; Barber 28; Hopping 28; Van Dyke 28; Wallis 28; Luginbill 28; Tanner 28; Strand 28; Blaisdell 30. The classification of Scarabæoidea on larval characters differs mainly in raising the rank of certain groups, thus adding as families, Geotrupidæ, Trogidæ, and Acanthoceridæ, with others as subfamilies.

**Canthon**

21166. 13038a is a valid species,  
fide Blatch. 28-68

**Pinotus**

21167. spadiceus Luederwaldt 28-65  
Va.

**Phanaeus**

13072. See Barber 28-333 regarding  
nomenclature

**Onthophagus**

19946. aciculatus n.n.  
Blatch. 28-128 for alutaceus ||  
21168. oklahomensis Brown 27-128  
Okla. Tex. Fla. N.C.  
21169. knausi Brown 27-130 Kan. Neb.  
21170. cynomisi Brown 27-131 Okla.  
21171. cochisus Brown 27-132  
Ariz.  
13085. floridanus Blatch. 28-128 n.n.  
for nigrescens ||  
21172. blatchleyi Brown 29-86 Fla.  
13081. medorensis Brown 29-204  
Okla. Tex.  
guatemalensis † Schffr. nec Bates

**Aegialia**

13105a. insularis Brown 29-87 Q. C. Is.  
21173. arenaria (Fab.) 87-11  
fide Darlington 27-98 Mass.  
21174. lacustris Lec. 50-225,  
fide Darlington 27-98 Me. N. H.

**Aphodius**

21175. subterraneus (L.) 58-348  
fide Schott. 26-17 N. J.  
13123. = tenellus Say, fide Brown 30,  
putridus not in N. Am.  
13195a. awemeanus Brown 28-306  
Man.  
21176. wickhami Brown 28-301  
Colo.  
21177. manitobensis Brown 28-302  
Man.  
21178. haywardi Brown 28-303  
Colo.  
21179. hirsutus Brown 28-303  
Wash.  
21180. albertanus Brown 28-304  
Alta.  
21181. fimbripes Brown 28-305  
Ut.  
21182. errans Brown 30-243 Que.  
21183. edmontonus Brown 29-87  
Alta.

**Aphodius**

21184. bryanti Brown 29-88 Alta.  
21185. carri Brown 29-89 Alta.  
21186. pyriformis Brown 29-205  
Nev.  
21187. corruptor Brown 29-206  
Alta.-B. C.  
21188. anomaliceps Brown 29-207  
N. Mex.  
21189. dentigerulus Brown 29-208  
Okla.  
21190. snowi Brown 29-209 Ariz.-Colo.  
13186. = aleutus (Esch.) 22-27  
fide Fall 26  
21191. gravis Fall 27-137 Cal.  
21192. davisii Fall 30-73 Cal.  
21193. neodistinctus Brown 28-89  
Okla.  
13145. = 13146, fide R.Hopp. 28-6  
13109b. garmani Brown 29-227  
Wyom.  
21194. pingellus Brown 29-228  
Colo.-B. C.  
21195. omissus Lec. is valid,  
fide Brown 29-224  
21195a. torpidus Horn,  
fide Brown 29-224  
21196. hyperboreus Lec. is valid,  
fide Brown 29-224  
angularis Lec. is syn.,  
fide Brown 29-224  
21197. pinguis Hald. is valid,  
fide Brown 29-224  
13108 is syn., fide Brown 29-224  
13109a = 13109, fide Brown 29-224  
21198. smithi Brown 30-2 B. C.  
21199. cynomysi Brown 27-166  
Okla.  
21200. cavidomus Brown 27-167  
Okla.  
21201. martini VanD. 28-153 Cal.  
21202. slevini VanD. 28-155 Cal.  
(*Platyderides*)  
includes 13151-13158, 13160,  
13167, 13181, 19947  
21203. russeus Brown 28-14 Okla. Kan.  
21204. aquilonarius<sup>1</sup> Brown 28-16  
Sask.  
21205. thomomysi Brown 28-17  
Man.  
21206. insolitus Brown 28-18 Okla.  
21207. criddlei Brown 28-19  
Man. Alta. Sask.  
21208. punctissimus Brown 28-35  
Okla.

**Aphodius**

21209. oklahomensis Brown 28-36  
Okla.  
21210. talpoidesi Brown 28-37 Man.  
21211. socialis Brown 28-38 Man.  
21212. leptotarsis Brown 28-15  
N.W. Terr. Kan.  
19947 is var. of 13154,  
fide Brown 28  
(*Didactylia* d'Orb.)  
includes 13176 and 13174 of which  
13171 is syn. fide Brown 29

**Dialytellus** Brown 29-211  
includes 13207 and 13208

**Euparixa** Brown 27-288

21213. duncani Brown 27-288 Ariz.

**Atenius**

21214. erratus Fall 30-96 Fla.  
21215. brevis Fall 30-98 Fla.  
21216. saluator<sup>1</sup> Fall 30-99 Fla.  
21217. ludovicianus Fall 30-100  
La.  
21218. rudellus<sup>1</sup> Fall 30-103 Fla.  
21219. consors Fall 30-104 Mass.-N. Mex.  
21220. anticus Fall 30-105 Ark. Ga. Fla. La.  
21221. solitarius Blatch. 28-69  
Fla.  
21222. floridanus<sup>1</sup> Brown 30-3 Fla.  
21223. oklahomensis Brown 30-4  
Okla.  
21224. cribratus VanD. 28-156  
Ariz.  
21225. carolinus VanD. 28-157 N. C.  
21226. semipilosus<sup>1</sup> VanD. 28-158  
Ariz.

13241 belongs in *Atenius*,  
fide Brown 28-307

**Pseudatænius** Brown 27-290  
type 13222

**Dialytes**

21227. criddlei Brown 29-210 Man.

**Rhyssemus**

21228. puncticolis Brown 29-91  
Ont.  
21229. neglectus Brown 29-92 Okla. Colo.

**Ochodaus**

13272 = 13259, fide Brown 30-4

**Odontæus**

21230. falli Wallis 28-151 Man.  
21231. thoracicornis Wallis 28-153  
Ohio  
21232. floridensis Wallis 28-155  
Fla.  
21233. simi Wallis 28-170 N.J.  
21234. liebecki Wallis 28-173 Conn.  
21235. darlingtoni Wallis 28-175  
N.J.  
21236. alabamensis Wallis 29-239  
Ala.

**Bolbocerosoma**

21237. lepidissimum Brown 28-193  
Okla.  
21238. confusum Brown 28-194  
Okla. Ark. Ia.  
21239. hamatum Brown 29-213  
Ga.

**Geotrupes**

Nylen 29-219 reports a single  
specimen of *G. sylvaticus* from  
Rhode Island.

**Acoma**

21240. arizonica Brown 29-212  
Ariz. Cal.  
21241. robusta VanD. 28-159 Cal.  
21242. confusa VanD. 28-160 Cal.

**Glaresis**

21243. knausi Brown 28-73 Kan.  
21244. canadensis Brown 28-74  
Man.  
21245. confusa<sup>1</sup> Brown 28-75 Ut.  
21246. clypeata<sup>1</sup> VanD. 28-162 Cal.

**Serica**

21247. errans Blatch. 29-35 Fla.

**Phyllophaga**

21248. austriicola Fall 29-110 and 216  
Miss.  
21249. mariana<sup>1</sup> Fall 29-111 Fla.  
21250. iroides Fall 29-112 Ariz.  
21251. microdon Fall 29-113 Tex.  
21252. paternoï Glasgow 25-293  
Va. N.C.  
13496a. angulata Glasgow 25-294  
N.J. Va.  
21253. davisî Langston 27-221 Miss.  
21254. deani Luginbill 28-78 S.C.  
21255. lota Luginbill 28-87 S.C.

**Phytalus**

21256. vanalleri Schffr. 27-215  
Ala. Tenn.  
**Gronocarus** Schffr. 27-213  
21257. autumnalis Schffr. 27-213  
Ala.

**Polyphylla**

- 13595, 13598, 13605, 13607,  
13610, 13612, 13614, 13615,  
13617, 13620, 13622, to 26  
are valid, fide Fall 28  
oklahomensis Hatch 26-145  
= 13598 Okla.  
21258. uteana Tanner 28-276 Ut.  
21259. rufescenta Tanner 28-276  
Ut.

**Thyce**

13628. Delete locality N. Mex.  
13645. belongs in *Thyce*

**Dinacoma**

21260. caseyi Blais. 30-174 Cal.

**Dichelonyx**

13664 = 13665, fide VanD. 28-165

**Hoplia**

13697a is valid species,  
fide Blatch. 30-36

**Anomalopides** n.n. Strand 28-2

(*Anomalopus*||Csy. nec Dunn)

**Strigoderrella**

21261. knausi Brown 25-200 Kan.  
21262. oklahomensis Hatch 30-24  
Okla.

**Ochrosidia**

21263. subvittata Brown 30-5 Okla.  
21264. nigricollis Burm. 47-50,  
fide Buchanan 27-165 Tex. La.  
robusta Lec.



**Ligyris**

21265. *lævicollis* Bates 88-316,  
fide Blatch. 28-49 Fla.

**Strategus**

13896a. *houstonensis* Knaus 25-182  
Tex.

**Cotinis**

13931. *ab. brunnea* Hatch 30-25  
Okla. Ind.

**Euphoria**

13936 is a var. of 13937,  
fide Brown 30-5

**LUCANIDÆ**

Van Dyke 28

**Platycerus**

21266. *æneus* VanD. 28-109 Oreg.

14045a. *cribripennis* VanD. 28-107  
Cal.  
14042 = 14047 a, fide VanD. 28  
14044 = 14043, fide VanD. 28  
14049 = 14047 b, fide VanD. 28  
14052 = 14055, fide VanD. 28

**CERAMBYCIDÆ\***

Schmidt 24; Champlain and Knull 25, 26; R. Hopping 25, 28; Fall 25,  
26, 28, 29; Schott 25; Champlain, Kirk and Knull 25; Knaus 25;  
Fisher 25, 26; Blatchley 25; Wallis 26; Plavilstshikov 27; Hardy and  
Preece 27; Knull 27, 28, 30; Van Dyke 27, 28, 29; Swaine and Hopping  
28; G. R. Hopping 28; Schaeffer 29; Martin 30; Psota 30; Linsley 30.

**Parandra**

21267. *marginicollis* Schffr. 29-40  
So. Cal.

21268. *punctillata* Schffr. 29-40  
Ariz.

**Tetropium**

21269. *alaskanum* Fall 26-201 Alas.

**Dicentrus**

(*Paraopsimus* Champlain and  
Knull 26-205 = *Dicentrus*  
fide R. Hopping 28-7)

21270. *bidentatus* Champlain and  
Knull 26-205 Oreg.

**Oeme**

21271. *hirsuta* VanD. 27-99 Ariz.

**Styloxus**

21272. *ruficeps*<sup>1</sup> VanD. 27-99 Ariz.

**Methia**

21273. *brevis*<sup>1</sup> Fall 29-58 So. Cal.

**Romaleum**

21274. *cylindricum*<sup>1</sup> Knull 27-116  
Ariz.  
21275. *cortiphagus* Craighead 23-69  
(larva) Knull, 27, 116 (Adult)  
Pa.

**Anoplium**

21276. *duncani*<sup>1</sup> Knull 27-117 Ariz.  
21277. *masoni* Knull 28-11 Ill.

**Ibidion**

21278. *polingi* Fall 25-182 Ariz.

**Eumichthus**

14293a. *ater* Hardy and Preece 27-188  
B.C.

14293b. *ruber* Hardy and Preece 27-188  
B.C.

**Centrodera**

21279. *pilosa* VanD. 27-101 Cal.

21280. *blaisdelli* VanD. 27-102 Cal.

**Pseudopachyta** S. & H. 28-16

14348. *rugipennis* (Newn.)

**Pidonia** Muls. 63-570 \*

(*Haplosalia* Csy. 13-200)

(*Thesalia* Csy. 13-198)

according to S. and H. 28-18:

14305 = *ruficollis* Say

14306 = " "

14308 = " "

14308a = " "

14310 = " "

14568 = 14569 (?)

**Idiopidonia** S. and H. 28-19 \*

14534. *pedalis* Lec. (genotype)

**Grammoptera** Serv. 35-215 \*

(*Parallelina* Csy.)

14455 transferred to *Alosterna*

14457 = 14456

14461 = 14459

**Alosterna** Muls. 63-576 \*

14455, 14464, 14467, 14468

belong here.

**Pseudostrangalia** S. and H. 28-24 \*

14484. *cruentata* Hald. (genotype)

14485 = 14484

\* The classification of this family on larval characters indicates six subfamilies instead of three, the tribes Asemini, Lepturini, and Disteniini being raised to subfamily rank, with the last named especially by its long, slender larva.

<sup>1</sup> Synonymy fide R. Hopping 28 or S. and H. 28.

**Leptura \***

21281. anthracina Lec. 75-175 is valid  
Oreg.  
subcostata Fall synonym,  
fide S. and H., 28-26 Cal.  
14481, 14475, 14486, 14482, 14487,  
14474, 14471, belong here  
14483 = 14482.  
14478 and 14479 = 14474  
14480, 14470, 14473 and  
14472 = 14471  
14488 and 14465 belong here

**Typocerus \***

21282. manitobensis<sup>1</sup> S. and H. 28-35  
Man.  
14545 = 14544  
14542 = ? lunata Fab.  
14547 = 14546  
20080 = 14551
21283. deceptus Knull 29-144 Pa.

**Charisalia \***

14464 transferred to Alosterna

**Anoplodera Muls. 40-285 \***

- (*Judolia* Muls.)  
(*Ortholeptura* Csy.)  
(*Brachyleptura* Csy.)  
(*Strangalepta* Csy.)  
(*Xestoleptura* Csy.)  
(*Strophiona* Csy.)  
14517, 14536, 14516, 14527,  
14528 and 14431 belong here  
14452, 14518, 20072 = 14516  
14529 = 14527
21284. knulli S. and H. 28-46 Wyom.  
14427, 14437, 14424, 14505,  
14507 and 14489 belong here  
14428, 20065, 14429,  
14430, 14436 = 14427  
20066 = 14424  
14506 = 14505  
14477, 14426, 14432, 20068,  
and 20069 belong here  
20063 and 20064 = 14426  
20070 = 14432  
14435, 14508, 14512, 14510,  
and 14498 belong here  
14509 = 14508  
14513 = 14512  
14511 = 14510  
14500 = 14498  
14504, 14494, 14499, 14493,  
and 14497 belong here.  
14503, 14501, 20074, 20075 = 14504  
14496, 14495 = 14494  
14318, 14319, 14533, 14532,  
and 14450 belong here.  
14317 = 14318
21285. obscura<sup>1</sup> S. and H. 28-56  
Wash.  
20077 = var. ? of 14533  
14535 = 14533  
14453, 20073 = 14450  
14449, 20071, 14454, 14523,  
and 14530 belong here.

**Anoplodera Muls. 40-285 \***

- 14531 = 14530  
14525a is valid species and belongs  
here.  
20061, 14525, 14526, 14447 belong  
here.  
14524 = 14447  
14448 = 14447  
14448a and b = 14447
21286. planata<sup>1</sup> S. and H. 28-62  
Iowa  
14522, 14520, 14438, 14439,  
and 14441 belong here.  
14521 = 14520  
14519 and 14519a = 14520  
14440, 14442, 14443, 14444 = 14441  
14445, 14451, 14425, 14466,  
and 14469 belong here.  
14446 = 14445  
14433, 14434 = 14425  
nitidipennis Prov. = 14469  
14532b = 14449  
14402 belongs in *Acmæops*.

**Stenocorus \***

- 14334 and 14335 = 14340  
14328 and 14330 = 14324  
14329 and 14331 = 14323  
20053 = 14322

**Gaurotes \***

- 14413 = 14412

**Acmæops \***

- 14410 = 14407  
14402 belongs here.

**Leptacmæops \***

- 14374a and 14376 = 14374  
14373, 14378, and 14380 = 14383  
14385, 14386, 14388, 14389 = 14384  
20058, 14393 = 14391

**Cyphonotida**

14492 belongs in *Euryptera*,  
fide S. and H. 28-65

**Neobellamira S. and H. 28-15**

14565. delicata (Lec.) genotype

**Euryptera**

- 14492 belongs here,  
fide S. and H. 28-65
21287. cruenta Martin 30-70 Ariz.  
In addition to the changes noted  
above the Swaine and Hopping  
paper on the Lepturini (of which  
part I was published in 1928) unites  
the tribes Encyclopini and Leptu-  
rini, restores the generic names  
*Toxotus* and *Stenocorus* to the  
sense formerly used, and makes  
*Strangalia* Serv. a synonym of *Leptu-  
tura* L., so that *Strangalina* Auri-  
villius will replace the old name  
*Strangalia*. The changes in generic  
arrangement of the species, though  
numerous, appear to accord with  
studies of wing venation and larvæ.  
Drawings by Mr. F. C. Hennessey  
assist in following the text.

\* Synonymy fide R. Hopping 28 or S. and H. 28.



**Molorchus**

- 14584c. *celti* Knull 30-101 Pa.  
**Plinthocælium** Schmidt 24-382  
 includes 14599, 14600, 14602, 14604  
 14599b. *smaragdinoides* Schmidt 24-384  
 Tex.

- Schwarzerion** Schmidt 24-387  
 includes 14603

**Anacomis**

- 14614d. *thujæ* VanD. 27-103 B. C.

**Callidium**

21288. *vancouverense* VanD. 27-104  
 B. C.  
 21289. *pallidum* VanD. 28-111 Cal.  
 21290. *hardyi* VanD. 28-112 B. C.

**Phymatodes**

21291. *fulgidus* G.R.Hopp. 28-246  
 B. C.  
 14641a. *nigrescens* Hardy  
 and Preece 27-190 B. C.  
 14645a. *latifasciatus* Hardy  
 and Preece 27-191 Vanc.

**Cyllene**

- 14667 = *infausta* Lec.  
 fide R.Hopp. 28-8  
 14668a, d, and e = 14668,  
 color varieties of *decora*,  
 fide R.Hopp.

**Xylotrechus**

21292. *bowditchi* G.R.Hopp. 28-247  
 Colo.  
 21293. *schaefferi* Schott 25-224  
 N. J.  
 20106. *abietis* VanD. 29-136, n.n.  
*cinereus* || VanD.

**Neoclytus**

21294. *baillaris* VanD. 29-136 Wash.  
*basalis* || VanD. 27-106  
 21295. *angelicus* VanD. 27-107  
 Cal.  
 21296. *vanduzeei*<sup>1</sup> VanD. 27-107  
 Ariz.  
 14711a. *zebratus* VanD. 27-108  
 Cal.

**Clytopleptus**

- 14732 = 14730, fide Champlain,  
 Kirk and Knull 25

**Clytus**

21297. *canadensis* G.R.Hopp. 28-246  
 B. C.

**Batyle**

21298. *rufiventris*<sup>1</sup> Knull 28-126  
 Ariz.

**Moneilema**

21299. *corpulentum* Knaus 25-183  
 Ariz.  
 14877c. *montanum* Psota 30-121  
 Mont.  
 21300. *puncticollis* Psota 30-121  
 Colo.N.Mex.

21301. *angulatum*<sup>1</sup> Psota 30-122

- Wash.  
 21302. *hybrida*<sup>1</sup> Psota 30-123 Colo.  
 21303. *parahybrida* Psota 30-124  
 N. Mex.

- 14880a. *scabrum* Psota 30-125 N. Mex.  
 21304. *alpinum* Psota 30-126 Tex. N.Mex.  
 21305. *rinconi* Psota 30-126 N. Mex.  
 21306. *texanum* Psota 30-127 Tex.  
 14881b. *arizonicum*<sup>1</sup> Psota 30-128  
 Ariz.

21307. *duncani* Psota 30-128 Ariz.  
 21308. *isolatum* Psota 30-132 N. Mex.  
 21309. *punctatum* Psota 30-133  
 Tex.

21310. *walsenburgi* Psota 30-142  
 Colo.

21311. *nigriventris* Fisher 26-214  
 Tex.  
 All of Casey's names, except  
*corrugans*, are synonyms,  
 fide Psota.

**Goes**

21312. *novus* Fall 28-236 Tex.  
 14917a = 14917, fide Fall 28-237  
 14916 = 14915, belongs in Goes  
 fide Fall 28-237  
 14915 occurs in Ga. and N. C.  
 14920 occurs in N. J., Pa., and R. I.

**Synaphata**

- 14926 and 14927 = 14928,  
 fide R.Hopp. 28-8

**Leptostylus**

21313. *pusillus* Blatch. 25-167  
 Fla.  
 21314. *bahamicus* Fisher 25-3, fide  
 Champlain and Knull 26-205  
 Fla.  
 21315. *knulli* Fisher 25-103 Md.  
 21316. *scurra* v. *dorsalis* Fisher 26-21  
 Cuba, Fla.

**Lepturges**

21317. *minutus* Champlain  
 and Knull 25-207 La.  
 21318. *neomexicanus* Champlain  
 and Knull 25-470 N. Mex.

**Pogonocherus** (Key to species Linsley 30)

21319. *vandykei* Linsley 30-79  
 So. Tex.  
 15051 = 15049  
 15054 = 15053  
 15057 = 15055  
 15058 = 15056  
 15060 = 15049

**Ecyrus** (Key to species Linsley 30)

21320. *cornutus* Linsley 30-86  
 So. Tex.  
 15066 is valid Linsley 31-106

**Ataxia**

21321. *brunneus* Champlain  
 and Knull 26-206 No. Ill.

**Saperda**

21322. *bipunctata* R.Hopp. 25-208  
 Man.

**Oberea**

21323. *delongi* Knull 28-12 Ohio  
 21324. *brooksi* Wallis 26-94 Man.  
 15136. *caseyi* n.n. Flav. 27-64  
*ferruginea* || Csy.

\* Synonymy fide R. Hopping 28 or S. and H. 28.



## CHRYSOMELOIDEA

The publication of Böving and Craighead's "Synopsis of the principal Larval Forms of Coleoptera" indicates the necessity of dividing the series Cerambycoidea, uniting the families Bruchidæ (Mylabridæ) and Chrysomelidæ as a series, Chrysomeloidea. Within that series, on larval characters, the subfamilies of Chrysomelidæ heretofore recognized would become families, Sagrinæ becoming Sagridæ, Donaciinæ Donaciidæ, etc. In the Orsodacnidae two subfamilies, Orsodacninae and Zeugophorinae are indicated as required. The present subfamilies Chlamydinae, Clytrinae, Cryptocephalinae, and Lamprosominae, become components of a family Camptosomatidæ. In the family Galerucidæ the subfamilies Galerucinae, Diabroticinae (formerly the tribe Diabroticini) and Halticinae are provisionally assembled; but it is stated that "when better studied, the classification of the entire family Galerucidæ will unquestionably be changed."

## CHRYSOMELIDÆ

Schaeffer 24, 25, 26, 28, 29; Laboissiere 25, 29; Blatchley 25, 27, 28; Chittenden 25, 27; Gentner 25, 26, 28; Heikertinger 25; Van Dyke 25; Fall 26, 27, 28, 29; Brisley 27, 28; Hatch 27, 28, 31; Blake 27, 28, 30; Spaeth 27; Martin 28.

## Donacia

- The results of the studies of Schaeffer are best shown by the following new catalogue of the species. The original catalogue number is preserved for the species of which the status is unchanged; otherwise it is shown in parenthesis.
21325. *militaris* Lacord. Mass.-Fla.  
*floridæ* Leng (15197)
15202. *piscatrix* Lacord.  
*carolina* Lacord.  
*cuprea*||Melsh.  
*alutacea* Lec.
- 15202a. *congener* Lec. Ga.Tex.
15199. *palmata* Oliv.  
*claudicans* Germ.
21326. *texana* Cr. Tex.La.Fla.  
21326a. *minor* Schffr. 25-72 Mich.-Tex.
15201. *rufescens* Lacord.  
15200. *hypoleuca* Lacord  
20161. *edentata* Schffr.  
20160. *parvidens* Schffr.  
21327. *cincticornis* Newm. (15198 a)  
*lucida* Lacord.
- 21327a. *tryphera* Schffr. 25-S1 N.J. Mex.  
21327b. *tenuis* Schffr. 25-S2 N.C. Fla. Mich.  
21327c. *rufipennis* Lacord. Can.-Va.  
*pulchella* Lec.  
15198. *proxima* Kby.  
15198d. *californica* Lec. Cal.-B.C.  
21328. *cærulea* Oliv. N.Y.-Md.  
*episcopalis* Lacord (15198 c.)  
21329. *magnifica* Lec. (15198 b.) Can.-Colo.
15194. *hirticollis* Kby.  
*rudicollis* Lacord.

## Donacia

15196. *pubescens* Lec.  
21330. *quadricollis* Say N.Y.-H.B.T.  
*cupræa* Kby.  
*curticollis* Knab (15204)
15206. *rugosa* Lec.  
20162. *assimilis* Lacord. N.J. Md.  
*glabrata* Schffr.
21331. *biimpressa* Melsh. Can. Fla.  
*aurichalcea* Melsh.  
*torosa* Lec. (15212)  
*distincta*||Leng
- 21331a. *limonia* Schffr. 25-100 N.Y.-Mich.  
15207. *porosicollis* Lacord.
15211. *distincta* Lec.  
15203. *subtilis* Kunze  
*ænea*||Ahrens  
*confluenta* Say  
*æqualis* Kby.  
*ærea* Lacord.  
*confluens* Lec.
- 15203a. *fulgens* Lec. N.Y.-H.B.T.  
20164. *tuberculifrons* Schffr.
21332. *vicina* Lacord. Ala.  
20163. *liebecki* Schffr.  
*pallipes*||Lacord.
15205. *megacornis* Blatch.  
*megalocera* Weise
15209. *æqualis* Say  
*confusa* Lacord.  
*dissimilis* Schffr. 25-115 Fla.
15218. *rufa* Say  
*tuberculata* Lacord. (15210)  
*rutila* Melsh.
15195. *pubicollis* Schffr.

**Donacia**

- (*Poecilocera* Schffr.)  
 15208. *harrisi* Lec.  
 (*Plateumaris* Thoms.)  
 21333. *sulcicollis* Lacord. Can.-Wis.  
*metallica*† Say  
*affinis* Kby.  
*kirbyi* Lacord.  
*jucunda* Lec.  
*rufa*† Leng (15218)  
 15217. *flavipes* Kby.  
*chalcea* Lacord.  
 15217a. *shoemakeri* Schffr. 25-129  
 N.J. N.Y. D.C. Va.  
 15217b. *lodingi* Schffr. 25-129 Ala.  
 21334. *nitida* Germ. N.Y.  
*binodosa* Lec. nec Germ.  
 21335. *notmani* Schffr. 25-132 N.Y.  
 15216. *emarginata* Kby.  
*junci* Coup.  
 15216a. *pacifica* Schffr. 25-135 Cal.  
 15216b. *frosti* Schffr. 25-136 Mass.-Alta.  
 15215. *metallica* Ahrens  
*femoralis* Kby. (15214)  
*cataractæ* Newm.  
*parva* Lacord.  
*nana* Melsh.  
*indica* Melsh.  
*gentilis* Lec.  
 21336. *germari* Mann. Nfld.-Cal. Alas.  
*aurifer* Lec.  
*dives* Lec.  
*femoralis*† Lec.  
*serricauda* Schffr. (20165)  
 21336a. *flavipennis* Mann. Oreg.-Alas.  
 21337. *diversa* Schffr. 25-143  
 Ind. Wis. Ont.  
*harrisii*† Blatch.  
 21338. *fulvipes* Lacord. Alta.-Pa.  
*cuprea*† Lec.  
*pusilla*† Leng (pars)  
 15213. *pusilla* Say  
*rugifrons* Newm.  
 15213a. *pyritosa* Lec.  
 15213b. *robusta* Schffr.  
 21339. *wallisi* Schffr. 25-147  
 Man. Mich.-Alas.  
*aurifer* var. Lec.  
 21340. *dubia* Schffr. 25-152 Wyom.-Alas.  
 21341. *neomexicana* Schffr. 25-154  
 N.Mex.  
 21342. *longicollis* Schffr. 25-156  
 B.C.-Nev.  
 21343. *vermiculata*† Schffr. 25-158  
 Cal.  
**Syneta**  
 15221a. *minuta* Brisley 27-60  
**Thricolema**  
 a distinct genus Brisley 27-56  
**Zeugophora**  
*atra* Fall. 26-203 n.n.  
 for *abnormis*† Cr. nec Lec.

**Crioceris**

- according to Hatch 27-211:  
*incrucifer* Pic 06-119-123 Mich.  
*4-punctata* Schust. " "  
*linnei* Pic " "  
*anticeconjuncta* Pic " "  
*apiceconjuncta* Pic " "  
*impupiliata* Pic " "

**Lema**

- 15253b. *nigriventris* Fall 28-238  
 Cal.  
 20169 = 15255, fide Fall 28-238  
 15255 is subsp. of 12253,  
 Brisley 28-118  
 15257. *californica* n.n. Heinze 27-142,  
 for *aemula*||

**Coscinoptera**

21344. *inornata* Fall 27-382 L. Cal.

**Euryscopa**

21345. *allicula* Fall 27-383 L. Cal.

**Saxinis**

21346. *microstriga* Fall 27-384  
 Ariz. Mex.

**Chlamys**

- (*Boloschesis* Jacobson 24-239)  
 (*Arthrochlamys* Ihering,  
 Rev. do Mus. Paulista VI, 1904, p.  
 642)  
 (cf. Laboissiere 29-256)  
 21347. *subelata* Schffr. 26-184 Ariz. Cal.  
 21348. *scabripennis* Schffr. 26-184  
 Tex. N.Mex. Ariz. Cal.  
 21349. *quadrilobata* Schffr. 26-186  
 Tex.  
 20173. = *mœstifica* Lac.

**Monachusulus**

21350. *viridanus* Fall 27-139 Fla.

**Bassareus**

21351. *clathratus* Melsh. valid sp.  
 fide Blatch. 28-71

**Metachroma**

21352. *insulare* Fall 27-390 L. Cal.  
 21353. *opacipenne* Fall 27-138 L. Cal.  
 21354. *coronadense* Fall 27-138  
 Cal.  
 21355. *anaemicum* Fall 27-138 Fla.  
 15588. = *adustum* Suffr. 66-339,  
 fide Blake 30-214

**Typophorus**

- 15625a. *sturmi* Lef. is subsp.,  
 fide Chittenden 25-91

**Paria**

21356. *juniperi* Blatch. 27-143 Ind.

**Colaspidea**

- 20188 occurs in Cuba,  
 fide Blatch. 28-49

**Hydrothassa** Thoms. 66-279

21357. *boreela* Schffr. 28-289 Man. Alta. B. C.  
 15636, 15637, 15638, also belong here

**Calligrapha**

- 15675a. confluens Schffr. 28-290  
N.S.-Mass.
21358. alni Schffr. 28-290  
N.S.-Mass.
- Phædon**\*
15695. prasinella (Lec.) 61-358  
Wash.-So. Cal.  
punctatus Hatch 28-46, Fall 29-145  
Wash.  
vandykei Hatch 28-61, Fall 29-145  
Cal.
15696. purpurea Linell 98-482, Fall 29-151  
Ut. Ariz.  
purpurescens Hatch 28-61,  
Fall 29-150 Ariz.
15698. oviformis (Lec.) 61-457,  
Fall 29-151 N. Eng.-Alas.  
? vancouverensis Hatch 28-62,  
Fall 29-151
15699. viridis (Melsh.) 47-175, Fall 29-149  
Que. Fla. N. Mex.  
ærginosus Suffr. 58-395,  
Fall 29-149 N. Am.  
microreticulatus Hatch 28-46,  
Fall 29-148 N. Y.  
dietrichi Hatch 28-46, Fall 29-148  
N. Y.  
? oklahomensis Hatch 31-103  
as variety Okla.
15697. armoraciæ (L.) 58-369, Fall 29-152  
Eur. N. Am.  
? americanus Schffr. 29-287,  
and Fall i. litt. Mich.
21359. niger Hatch 28-47 Wash.  
planus Hatch 31-104, and i. litt.
21360. carri Hatch 28-46, Fall 29,  
and Schffr. 29 Que.-Alta.  
? cochleariæ Fall nec Fab.,  
fide Schffr. 29
21361. uniformis Fall 29-150 Mass. N.J. Ga.
21362. cyanescens Stål 60-470, Fall 29-150  
Mex. Ariz.  
huachucae Hatch 28-62 Ariz.

**Gastroidea***(Gastrophysa* Redt.)

21363. formosa (Say) is valid,  
fide Schffr. 28-45  
15705 = *Nodonota puncticollis*  
Lef. 28-45

**Lina**

21364. interrupta Fab. 01-438
- 21364a. 4-guttata Schffr. 28-43  
Alta.
- 21364b. aeneicollis Schffr. 28-43
- 15710c. maculicollis Schffr. 28-44  
Ut.
- 15711a. scriptoides Schffr. 28-44  
N. J.

**Phyllopecta**

21365. americana Schffr. 28-46  
Pa.
- 21365a. pallipes Schffr. 28-47 Ohio.

**Triarius**

21366. suturalis Martin 28-34 Ariz.

**Diabrotica**

cf. Lever 30-656, and Laboissiere 25

**Luperodes**

21367. bimarginata Blake 28-143  
N. C.

**Oedionychis**

- 15871a. lamprocyanea Blake 27-11  
Ariz. Colo.
- 15868a. badia Blake 27-14 Va.  
scripticollis Say = 15868,  
fide Blake 27
- 15875b. pallida Blake 27-27 Tex. Okla.
21368. amplivittata Blake 27-24  
N. Am. (U.S.?)
21369. spilonota Blake 27-36 Fla.
21370. obsidiana (Fab.) 01-499
- 21370a. blakeæ n.n.  
flava || Blake 27-40 nec Gmelin  
Ala. Ill. Kan.
21371. discicollis Cr. 73-61 Fla.
21372. lateralis Jac. 86-412 Ariz.
21373. durangoensis Jac. 92-318  
Ariz.
15886. circumdata Rand. replaces  
limballis Melsh.
21374. subvittata Horn is valid,  
fide Blake 27
15889. quercata (Fab.) reidentified,  
fide Blake 27
15872. gracilis is syn. fide Blake 27  
Harold's names, jocosa, horni,  
longula not identified

**Disonychia**, fide Blake 30-210

- 15895e (= *costipennis* Duv.) is  
valid Fla. Cuba.
- 15895 is valid E. of Miss. So. St.
- 15895d is valid Fla.
21375. uniguttata (Say) is valid  
U.S. E. of Rockies
- 15895a is valid Cal.
- 15895b. (= *procera* Csy.) is valid  
E. of Rockies
- vicina Kby. remains doubtful
- 15902a is valid fide Blatch. 30-43

**Haltica**

- 15937 = *tombacina* Mann.,  
fide Fall 26-204
21376. cupreolus Fall 26-204 n.n. for  
*tombacina* † Horn
21377. vitiosa Blatch. 28-71 Fla.
21378. brisleyi Gentn. 28-59  
Ariz. Colo. Neb.
21379. nigra<sup>1</sup> Gentn. 28-61 N. Mex.
15925. aeneola n.n. Blatch. 25-245,  
for *ænescens* ||
21380. canadensis Gentn. 26-149  
Man.
21381. elongata Gentn. 26-151  
Man.

\* We have included, in treating *Phædon*, Hatch's paper of 1931 in which he disputes in part the synonymy of Fall's paper of 1929, and describes *planus*. This name he later, in a letter to us, treated as an aberration. We have included also a letter from Fall, disputing Schaeffer's conclusions, in part.

**Chalcoides**

15968. Following Heikertinger 13-155,  
Schæffer 24-145, Chittenden 25-120,  
the helixes of Linné is question-  
able or unrecognizable. The ar-  
rangement of names, fide Chittenden,  
is  
fulvicornis (Fab.) 92-30  
Eur. N.Am.  
subsp. nana Say  
subsp. violacea Melsh.

**Crepidodera**

21382. solani Blatch. 25-167 Fla.

**Leptotrichaltica** Heikertinger 25-68  
(*Leptotrix* Horn nec Meyer 1868)

**Chætocnema**

21383. parvula<sup>1</sup> Gentn. 28-62 Ariz.  
21384. bicolor Gentn. 28-63 Ariz.  
21385. magnipunctata Gentn. 28-64  
So. Cal.

**Systema**

21386. floridana Blatch. 28-72 Fla.

**Longitarsus**

21387. waterhousei Kutschera 64-274  
Eur. Mich. Ind.  
(Wien. Ent. Monatschr. Vol. VIII)  
menthæ (Bedel) 98-189  
menthæ || Gentn. 25-109  
menthaphagus Gentn. 26-152  
and 28-264

21388. ovalis Gentn. 26-153 Nfld.

**Glyptina**

21389. maritima Fall 27-140 Mass.

**Aphthona**

21390. schaefferi Blatch. 27-144  
Fla.

**Phyllotreta** as arranged by Chittenden 27

16075. armoraciæ (Koch) 03-75

† Eur. Que.-Neob.

- vittata Steph. 31-297

- 16075a. biplagiata<sup>1</sup> Chitt. 27-16

Wis.

16064. lepidula (Lec.) 57-68 Cal.

16067. oregonensis (Cr.) 73-66

Or.-Tex.

16068. robusta Lec. 78-614 Mich.-Man.

16065. zimmermanni (Cr.) 73-66

N. Eng.-Man.

- sinuata † Horn 89-295

20245. utana Chitt. 20-389 Ut.-Oreg.

16066. vittata (Fab.) 01-469

† Eur. N. Eng. Cal.

- striolata (Fab.) 07-148

- sinuata † Redt.

- 16066a. discedens Weise 93-873

Fla. Tex. D.C.

- 16066b. monticola Weise 93-873

† Eur. Cal. D.C.

- 16066c. lineolata Chitt. 27-25 Ala.-Alas.

- 16066d. vernicosa<sup>1</sup> Chitt. 27-25

Cal.

- 16066e. artivittata<sup>1</sup> Chitt. 27-26

Ia.

20243. liebecki Schffr. 19-439 Fla. Md. Ill.

21391. alberta Chitt. 27-28 Alta.

21392. perspicua<sup>1</sup> Chitt. 27-29 Oreg.

**Phyllotreta**

21393. obtusa<sup>1</sup> Chitt. 27-30 Colo.

21394. oblonga Chitt. 27-31 Alta.

16073. ramosa (Cr.) 74-80 Cal. Nev. N.Y.

16074. bipustulata (Fab.) 01-464

N.Y. Wis. Kan.

20244. conjuncta Gentn. 24-168\*

Mich. Wis. Kan.

16069. denticornis Horn 89-297

Cal. Oreg.

21395. amplicornis<sup>1</sup> Chitt. 27-35

?

16070. ulkei Horn 89-298 Ohio.

16071. decipiens Horn 89-298

Or. Mont. B.C.

- 16071a. ordinata Chitt. 27-38 Nev.-Wash.

16072. albionica (Lec.) 57-68 Colo.-B.C.

- 16072a. corusca<sup>1</sup> Chitt. 27-40 B.C.

21396. herbacea Chitt. 27-41 Colo.

21397. prasina Chitt. 27-42 Cal. Ariz. Tex.

16076. chalybeipennis (Cr.) 73-67

Mass.-Fla.

16078. æneicollis (Cr.) 73-67 Tex.-S. Dak.

16077. lewisii (Cr.) 73-66 Md.-Oreg.

21398. columbiana Chitt. 27-46

B.C.

21399. subnitida Chitt. 27-47 Cal.-N. Mex.

21400. ærea Allard 59-c † Eur. N.Y.

punctulata Foudras 60-255

21401. inconspicua Chitt. 27-49 Alta.-Wash.

21402. fulgida Chitt. 27-50 Colo.-Cal.

21403. transversovalis<sup>1</sup> Chitt. 27-51

Ut.

21404. brevipennis Chitt. 27-52

Man.

16080. pusilla Horn 89-302 Colo.-Cal.

21405. laticornis Chitt. 27-54 Ariz.

21406. viridicyanea Chitt. 27-55

Cal.

21407. polita Chitt. 27-56 Oreg.

21408. inordinata Chitt. 27-57 Tex. Ariz.

20242. undulata Kutsch. 60-301

? N. Am.

16079. lindahli Dury (in Tanygaster?)

16081. picta (Say) in Trachymetopa Weise,  
fide Heikertinger 25-58

**Anisostena**

21409. californica VanD. 25-170

Cal.

**Brachycoryna**

21410. dolorosa VanD. 25-170 Cal.

16117. = hardyi Cr. fide VanD. 25

**Microrhopala**

- 16131c. militaris VanD. 25-173

Cal.

**Chelymorpha**

21411. phytophagica Cr. 73-77 is valid

Ariz.

**Physonota**

- 16142b. arizonæ Schffr. 25-234

Ariz.

21412. helianthi Rand. is valid

fide Criddle 26-208

**Cassida**

21413. relicta Spaeth 27-114 Ill.

\* Variety of bipustulata, fide Chitt. 27.



- |                                             |            |                                              |
|---------------------------------------------|------------|----------------------------------------------|
| <b>Deloyala</b>                             |            | 21414. <i>marginepunctata</i> Schffr. 25-236 |
| 16155a. <i>diversicollis</i> Schffr. 25-235 | Tex. Ariz. | Ala.                                         |
| <b>Metrona</b>                              |            | 21415. <i>lodingi</i> Schffr. 25-236 Ala.    |
| 16157b. <i>floridana</i> Schffr. 25-235     | Fla.       | <b>Coptocycla</b>                            |
|                                             |            | 21416. <i>pinicola</i> Schffr. 25-235 Ala.   |

**MYLABRIDÆ**

On larval characters two subfamilies, *Pachymerinæ* and *Bruchinæ* are suggested by Böving and Craighead.

- |                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| <b>Caryobruchus</b> Bridwell 29-148    | <b>Spermophagus</b>                                  |
| New genus proposed for 16163 and 16164 | cf. Bridwell 30-29 on status of <i>robininæ</i> Fab. |
| <b>Mylabris</b>                        |                                                      |
| 21417. <i>wheelocki</i> Blatch. 30-35  | Fla.                                                 |
| 21418. <i>prolixus</i> Fall 26-204     | Alas.                                                |

**BRENTIDÆ**

Kleine 27.

- |                                                                                                                                                            |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Platystrophus</b> Kleine 17-39                                                                                                                          | <b>Brentus</b>                       |
| This generic name is proposed for <i>Eupsalis</i> and the varieties <i>lecontei</i> and <i>sallei</i> are treated by Kleine as valid, without explanation. | 16260 = <i>mexicanus</i> Boh. 40-532 |

**PLATYSTOMIDÆ**

(ANTHRIBIDÆ) (CHORAGIDÆ)

This family is treated under the name *Choragidæ* in Bradley's Manual. Several nomenclatorial changes are made by Pierce 30; in the same paper keys to several genera by Barber and Buchanan are printed, as well as other keys by Pierce.

Wolfrum, in Col. Cat. parts 102 (1929) restores the family name *Anthribidæ*, makes two subfamilies, and submerges the genera *Gonops* and *Toxotropis* in *Ormiscus*.

Böving and Craighead, on larval characters, elevate the rank of the family to a series, *Platystomoidea*, divided into two subfamilies, *Brachytarsinæ* (legs present) and *Choraginæ* (legs absent) in larval stage.

- |                                                       |                                                        |
|-------------------------------------------------------|--------------------------------------------------------|
| <b>Meconemus</b> Labram and Imhoff 38-51, fide Pierce | <b>Eusphyrus</b>                                       |
| ( <i>Ischnocerus</i> Schön.)                          | 21425. <i>schwarzii</i> Pierce 30-28 Fla.              |
| 21419. <i>angulata</i> Martin 30-71 Ariz.             | <b>Discotenes</b> Labram and Imhoff 38-51, fide Pierce |
|                                                       | ( <i>Phanosolena</i> Schffr.)                          |
| <b>Toxotropis</b> Key, Pierce 30                      | <b>Ormiscus</b>                                        |
| ( <i>Gonops</i> Lec.) fide Pierce                     | 21426. <i>angulatus</i> Pierce 30-6 Tex.               |
| 21420. <i>simplex</i> <sup>1</sup> Pierce 30-8 Ga.    | 21427. <i>solidus</i> <sup>1</sup> Pierce 30-7 Tex.    |
| 21421. <i>sparsus</i> <sup>1</sup> Pierce 30-9 Tex.   | <b>Eurymyeter</b> Key, Pierce 30                       |
| 21422. <i>4-maculatus</i> Pierce 30-9                 | 21428. <i>latifascia</i> Pierce 30-17 N.Y. Ont.        |
|                                                       | 21429. <i>bicarinatus</i> <sup>1</sup> Pierce 30-17    |
| 21423. <i>mitchelli</i> Pierce 30-10 T.x.             | Wash.                                                  |
| 21424. <i>victoriensis</i> Pierce 30-11               | 21430. <i>tricarinatus</i> Pierce 30-17                |
| Tex.                                                  | N.C.-Wis.                                              |



**Tropideres**

21431. *barberi* Pierce 30-13 Tex.  
 Allandrus Key, Barber 30  
 21432. *populi* Pierce 30-19  
 Ariz. Ut. Id. Mich.

**Piezocorynus** Key, Buchanan 30

16288. = *plagifer* Jordan 04-277,  
 fide Pierce

**Pseudanthribus** Pierce 30-24

(*Anthribus* Geoff.)

**Brachytarsus**

21433. *annulatus* Carr 30-279 Alta.

**Brachytarsoides** Pierce 30-29

n. gen. for 16310 and others

**Euxenus**

21434. *ater*<sup>1</sup> Blatch. 30-238 Fla.

## CURCULIONOIDEA

The series Brentoidea, Curculionoidea, and Scolytoidea are consolidated by Böving and Craighead on larval characters. They state that the larvæ of Curculionidæ and Scolytidæ "cannot be separated." The submerged larvæ of Lissorhoptrus, living between the leaves of rice, lead to their separation as a subfamily Lissorhoptrinae. The families suggested are Belidæ, Brentidæ, Attelabidæ (including Rhynchitinae = Cimberinae and Attelabinae) Apionidæ, Curculionidæ, Calendridæ, Platypodidæ, and Scolytidæ.

### CURCULIONIDÆ

Fall 25, 26, 27, 28, 29; Chittenden 25, 26, 28, 30; Blatchley 25, 28; Pierce 25; Satterthwait 25; Fisher 25; Voss 25; Buchanan 26, 27, 29; Barber 26; Van Dyke 27, 28, 29, 30; Cotton 27; Carr 29, 30; Brown 29, 30; Ryan 29; Frost 30; Cresby and Blauvelt 30; Mutchler 30; Bradley 30.

**Diodyrhynchus** (in subfamily Cimberinae,  
fide Bradley 30-259)

21435. *slevini* Martin 30-130 Cal.

**Rhynchites**

21436. *quadripennis* Fall 29-292  
 Tex.  
 21437. *delectus* Fall 29-292 So. Cal.  
 16357a. *levirostris*<sup>1</sup> Fall 29-293  
 Cal.  
 21438. *insularis* Fall 29-293 Cal. Is.

**Attelabus**

(*Himatolabus*)

21439. *constrictipennis* Chitt. 26-163  
 Ariz.  
 21440. *disparipes* Chitt. 26-164 Ariz.  
 21441. *coloradoensis* Voss 25-244  
 So. Colo.

(*Pilolabus*)

21442. *californicus* Voss 25-243  
 Cal.  
 According to Col. Cat. pars 110:  
 16365a. is a synonym of 16365; the  
 synonymy under 16369 is to be  
 reversed; the subgenera are  
 Pilolabus for californicus,  
 Himatolabus for 16369,  
 Synolabus for 16366, 16367 and  
 16368, Cyrtolabus for Chittenden's  
 species, and Homœolabus for 16365

**Apion**

21443. *alaskanum* Fall 26-205 Alas.  
 21444. *dilaticolle* Fall 25-85 N.J.  
 21445. *bischoffi* Fall 25-86 N.Y. N.J. Va.  
*atripes*† Fall, 98 nec. Smith

**Apion**

21446. *diffractum* Fall. 25-87 N.J. Mass. Id.  
 21447. *speculiferum* Fall 27-140  
 Alta.  
 21448. *cyanitinctum* Fall 27-141  
 Man.

**Eupagoderes**

21449. *giganteus* Chitt. 26-169 Cal.

**Dichoxenus**

16548 belongs here,  
 fide Buchanan 27-184

**Calomycterus**

21450. *setarius* Roelofs 73-175,  
 fide Mutchler 30-1 N.Y.

**Panscopus** Key, Buchanan 27  
(*Nomidus*)

21451. *schwarzii* Buch. 27-30 Ut.  
 21452. *rugicollis*<sup>1</sup> Buch. 27-31 Wash.  
 21453. *bufo*<sup>1</sup> Buch. 27-31 Cal.  
 21454. *pallidus* Buch. 27-31  
 B.C. Id. Mont.  
 21455. *tricarinatus*<sup>1</sup> Buch. 27-32  
 Oreg.  
 (*Pseudopanscopus* Buch. 27-33)  
 21456. *costatus*<sup>1</sup> Buch. 27-33 B.C.  
 16575 = 16636, fide Buch.  
 16584a = 16584, fide Buch.  
 16586 = 16576, fide Buch.  
 Panscopidius = Nocheles, fide Buch.

**Pantomorus**

16659. = *godmani* Cr.  
 fide Bradley 30-262

- Mesagroicus** Schön. 40-281  
(*Lepidocricus* Pierce) fide Buchanan 29
21457. minor Buch. 29-6 Ohio-Colo.  
21458. oblongus Buch. 29-8 Neb.-Wyom.  
21459. plumosus Buch. 29-9 Tex.  
21460. elongatus Buch. 29-10 Oreg.  
21461. nevadianus Buch. 29-11 Nev.  
21462. incertus Buch. 29-11 Wash.  
21463. hispidus Buch. 29-12 Cal.  
21464. strigisquamosus Buch. 29-13 Cal.
21465. ocularis Buch. 29-13 Cal.
- Trigonoscuta**  
16695=16673 fide Buch. 27-184
- Brachyrhinus** cf. Chitt. 25-290, and Buch. 27-183
21466. cribricollis Gyll. 34-582 fide VanD. 29-8 and Ryan 29-567 Cal.
- Agronus**  
21467. carri Buch. 29-102 Alta.
- Eucilinus** (Simoini) Buch. 26-179
21468. mononychus Buch. 26-180 Ut. Ariz.
- Trichalophus**  
21469. brunneus<sup>1</sup> VanD. 27-15 Wash.  
21470. foveirostris Chitt. 25-141\*
- Acmægenius**  
21471. granicollis<sup>1</sup> VanD. 27-14 Wyom.
- Lepidophorus**  
21472. rainieri VanD. 30-149 Wash.  
21473. alternatus VanD. 30-150 Wash. Or.
- Desiantha** (*Hyperini*) Pasc. 70-193  
21474. nociva Lea 09-174 fide Blatch. 25-92 †Miss.
- Lepyrus** Key to sp. Van D. 28-57  
21475. nordenskioldi Faust 87  
21475a. canadensis Csy.  
21475b. cinereus VanD. 28-57 Alas.  
21476. oregonus Csy.  
21476a. tessellatus VanD. 28-56 Alta.
- Listronotus**  
21477. impressus VanD. 29-106 Cal.  
21478. elegans VanD. 29-107 Cal.  
21479. leucozonatus Chitt. 26-341 O. Fla. N.Y.
- (*Listroderes*)  
21480. apicalis Waterh. 41-123, fide Chitt. 26-71
- Hyperodes**  
21481. annulipes Blatch. 25-92 Fla.  
21482. carinatus Blatch. 28-242 Fla.  
16810=16834, fide Fall 26-206  
vitticollis†Dietz=16835a, fide Fall 26-206
- Pissodes**  
21483. robustus VanD. 27-11 Cal.  
21484. ochraceus VanD. 27-12 Cal.
- Anculopus** Van D. 27-12  
21485. foveatus VanD. 27-13 Wash.
- Notaris**  
21486. flavipilosus Chitt. 30-48 Alas.  
21487. goliath Buch. 27-38 Nev. Oreg.  
16923=bimaculatus Fab., fide Buch. 26-36
- Smieronyx**  
21488. minutissimus<sup>1</sup> Blatch. 28-244 Fla.
- Tanysphyrus**  
21489. atra<sup>1</sup> Blatch. 28-244 Mass.
- Bagous**  
21490. carinatus Blatch. 25-95 Fla.
- Myrmex** (*Otidocephalus*)  
21491. ventralis<sup>1</sup> VanD. 30-151 Tex.  
21492. dimidiatus<sup>1</sup> VanD. 30-152 Tex.  
21493. octolineatus Champ. 03-242 fide VanD. 30-153 Ariz.
- Curculio** \*\* L. 58 377-386.  
(*Balaninus* Germ.)  
Arranged as follows by Chittenden, 1927:  
\*  
17155. proboscideus Fab. E.U.S.  
17177. auriger Csy. E.U.S. Ariz?  
\*\*  
17159. nasicus Say E.U.S. Tex.  
17156. caryæ Horn E.U.S. Tex.  
17157. rectus Say E.U.S. Tex.  
21494. macrodon<sup>1</sup> Chitt. 27-154 Tex.  
21495. longidens Chitt. 27-155 Mass. Fla. Tex.  
21496. ruficristatus<sup>1</sup> Chitt. 27-156 Tex.  
\*\*\*  
21497. orthorhynchus Chitt. W. Va. N.J.-Tex.  
21498. longinasus<sup>1</sup> Chitt. 27-158 Ariz.  
21498a. mandibularis Chitt. 27-158 Ariz.  
21499. multifasciatus<sup>1</sup> Chitt. 27-159 Wis.  
21500. pardus Chitt. 27-160 So. Cal.  
21501. gracilis Chitt. 27-161 Ariz.  
21502. wenzeli Chitt. 27-161 W. Tex.  
\*\*\*\*  
17160. pardalis Chitt. F.U.S. Tex.  
17176. victoriensis Chitt. Tex.-S.C.  
17176a. fulvus Chitt. 27-165 S.C.-Ala.  
21503. emarginatus Chitt. 27-165 N.Mex.  
17170. strictus Csy. N.J. Ut.  
\*\*\*\*\*  
17175. q-griseæ Chitt. Ariz.  
17161. confusor Ham. E.U.S. Dak.  
17167. uniformis Lec. Cal. Ut. B.C.  
21504. parvidens Chitt. Gulf. St. N.C.  
17162. baculi Chitt. E.U.S. Tex.  
17162a. curtus Chitt.

\* Referred to *Plinthodes* Van D. 27-15.\*\* *Curculio* nucum designated as type by Latreille 1810, fide Pierce Proc. Ent. Soc. Wash. 1925, pp. 113-114.

**Curculio**

21505. *cervulinus* Chitt. 27-174  
Cal.  
17169. *undulatus* Csy. Ariz.  
21506. *microdon* Chitt. 27-175 Tex.  
21506a. *rectitibialis* Chitt. N.Mex.  
\*\*\*\*\*  
17164. *obtusus* Blanch. E.U.S. Can. Tex.  
21507. *numenius* Chitt. 27-178  
Can.-Colo.  
21508. *funicularis* Chitt. 27-179  
N.Mex.Can.  
21509. *iowensis* Csy. (17161a.)  
N.Y. Wis. Tex.  
21510. *ibis* Chitt. 27-181 Ariz.  
21511. *exilis*<sup>1</sup> Chitt. 27-182 Can.  
\*\*\*\*\*  
17166. *monticola* Csy. W.Tex. N.Mex.  
21512. *crassirostris* Chitt. 27-184  
Ariz.  
21513. *aurivestis*<sup>1</sup> Chitt. 27-185  
Cal.  
21514. *brevinasus* Chitt. 27-185  
Cal.  
17168. *nanulus* Csy. N.Mex.  
21515. *striatus* Chitt. 27-187 W.Tex.  
17163. *humeralis* Csy Fla.  
21516. *albidus* Chitt. 27-189  
? haroldi Faust 90-292, fide  
Chitt. 28-69  
China N.Am?  
17155a, 17155b = 17155  
17158, 17177a, 17178, 17179 = 17177  
auctus Csy. = 17159  
sparsus Gyll. rostratus Gyll.,  
and nasatus Say = 17159?  
appalachius Csy. = 17160  
17173, 17171, 17172,  
and ordinatus Csy. = 17170  
proprius Csy. = 17175  
17165 = 17167  
17180 = 17166  
17174 = 17168

**Anthonomus**

- (*Coccotorus*)  
21517. *pruniphilus* Chitt. 25-130  
Tex.  
(*Anthonomus*)  
21518. *nubiloides* Fall 28-239 Me. and West  
21519. *australis* Blatch. 25-98 Fla.  
21520. *bicorostriis* Blatch. 25-97  
Fla.  
17230a. *picipes*<sup>1</sup> Blatch. 28-249  
Ill.  
17267. *xantus* Blatch. 25-99 = 17267  
fide Fall 28-238 Mass.  
? 17312 = 17273, fide Fall 28-230.  
denied Blatch. 30-41

**Epimechus**

21521. *flavirostris* Fall 28-239 So.Cal.

**Orchestes**

21522. *uniformis* Brown 29-110  
Man.  
21523. *testaceus* Mul. 76-90 fide  
Frost 30-97 Me. N.S.  
17345a. is valid species, occurs in Quebec,  
fide Brown 30

**Cleonus**

21524. *piger* Scop. 63-23, fide  
Crosby and Blauvelt 30-164  
N.Y.

**Lixus**

21525. *novellus* Blatch. 25-101 Ind.  
21526. *pusio*<sup>1</sup> Blatch. 28-250 Fla.  
21527. *blakeæ* Chitt. 28-90 Cal.  
21528. *albisetiger* Chitt. 30-2 Tex.  
21529. *aspericollis* Chitt. 30-3 Kan.  
21530. *coloradensis*<sup>1</sup> Chitt. 30-4  
Colo.  
21531. *perstriatus* Chitt. 30-5 Colo.  
21532. *acirostris* Chitt. 30-6 N.C.  
21533. *ordinatipennis*<sup>1</sup> Chitt. 30-7  
La.  
21534. *quadratipectatus*<sup>1</sup> Chitt. 30-8  
Colo.  
17425a. *profundus* Chitt. 30-9 Ga.-Tex.  
21535. *crassipunctatus*<sup>1</sup> Chitt. 30-9  
Ariz.  
21536. *ivæ* Chitt. 30-10 La.  
21537. *dissimilis* Chitt. 30-11 Ga.  
21538. *tricristatus* Chitt. 30-12  
N.Y. Ala. Kan.  
21539. *planicollis* Chitt. 30-13 Ia. La.  
21540. *pervestitus* Chitt. 30-14  
Ariz. N.Mex.  
21541. *flexipennis*<sup>1</sup> Chitt. 30-15  
Ia.  
21542. *buchanani*<sup>1</sup> Chitt. 30-16 Ia.  
21543. *pluchæ* Chitt. 30-17 Tex.  
17437a. *ocellatus* Chitt. 30-18 N.Y. N.J.  
21544. *capitatus*<sup>1</sup> Chitt. 30-19 Md.  
21545. *lodingi* Chitt. 30-20 Ala. Fla. La.  
21546. *regularipennis* Chitt. 30-21  
Ind. D.C. La.  
21547. *cleonoides*<sup>1</sup> Chitt. 30-22 Tex.  
21548. *mephitis*<sup>1</sup> Chitt. 30-23 S.C.  
21549. *elephantulus*<sup>1</sup> Chitt. 30-24  
Ill.

**Baris**

21550. *seminola*<sup>1</sup> Blatch. 28-251  
Fla.  
21551. *palmensis*<sup>1</sup> Blatch. 28-252  
Fla.

**Geræus**

- (*Centrinaspis* Csy.) (type 17582)  
21552. *argenteus* Blatch. 25-102 Ind.  
21553. *bracatoides*<sup>1</sup> Blatch. 28-253  
Fla.

**Limnobaris**

- (*Anacentrus* Csy.) (type 17622)  
21554. *vicarius* Blatch. 28-254 Fla.  
(*Sibariops* Csy.) (type 17637)  
21555. *pellax*<sup>1</sup> Blatch. 28-255 Fla.

**Barinus**

- 20601 belongs here, fide Fall 28-240

**Cylindrocopturus** \*

21556. *medicatus* Carr 29-134 Alta.  
 21557. *vanduzei* VanD. 30-153 Cal.  
 21558. *crassus* VanD. 30-154 Cal.  
 21559. *hemizoniæ* VanD. 30-155 Cal.  
 21560. *cretaceus* VanD. 30-155 Ariz.  
 21561. *unicolor* VanD. 30-156 Cal.

**Ceutorhynchus**

21562. *fulvotertius* Fall 26-206 Alas.

**Perigaster**

21563. *alternans*<sup>1</sup> Blatch. 28-256 Fla.

**Acanthoscelidius** n. n. Dalla Torre and

Hustache  
 (*Acanthoscelis*||Dietz nec Dej.)

**Ceutorhynchus**

21564. *æratu*s Dietz is valid,  
 fide Col. Cat. pars 113\*\*  
 21565. *hirtellus* Dietz is valid,  
 fide Col. Cat. pars 113  
 21566. *hamiltoni* Dietz is valid,  
 fide Col. Cat. pars 113  
 21567. *rubidus* Gyll. 37-484 Miss.

**Auleutes**

21568. *epilobii* Payk. is valid,  
 fide Col. Cat. pars 113  
 N.Am. Sib. Eur.

**Conotrachelus**

21569. *cinereus*<sup>1</sup> VanD. 30-158 Tex.  
 21570. *asperatus*<sup>1</sup> VanD. 30-159 Ariz.  
 21571. *setiferous*<sup>1</sup> VanD. 30-160 Ariz.  
 21572. *nigromaculatus* VanD. 30-161 Ariz.  
 21573. *retusus* Fall 29-59 Fla.

**Ryssematus**

21574. *beutenmuelleri*<sup>1</sup> VanD. 30-161 N.C.  
 21575. *arizonicus* VanD. 30-162 Ariz.  
 21576. *acute-costatus* Champ.  
 fide VanD. 30-163 Ariz.

**Chalcodermus**

21577. *martini*<sup>1</sup> VanD. 30-163 Ariz.

**Cophes** Champ. 05-515

21578. *gibbus* Champ. 05-517,  
 fide VanD. 30-164 Ariz.

**Eusepes**

21579. *deceptus*<sup>1</sup> Blatch. 25-106 Fla.

**Micralcinus**

21580. *kalmbachi* Buch. 27-169 La.

**Gerstæckeria**

21581. *doddi* Fisher 25-426 Tex.

**Apteromechus**

21582. *microstictus* Fall 25-88 and 123 Fla.  
 21583. *texanus*<sup>1</sup> Fall 25-88 Tex.

**Thecesternus**

- 18005 is an aberration of 18002,  
 fide Col. Cat. pars 106

**Trichacorynus**

21584. *sulcirostris*<sup>1</sup> Blatch. 28-259 N.J.

**Phlæophagus**

21585. *californicus* VanD. 27-16 Cal.  
 21586. *canadensis* VanD. 27-17 Alta.

**Pseudopentarthrum**

21587. *fraternum* Blatch. 28-260 Fla.

**Pentarthrinus**

21588. *dissimilis* Blatch. 25-108 Fla.

**Calendra** Clairv. 98-62

- (= *Sphenophorus* fide Pierce 19-26)  
 21589. *sequoiæ* VanD. 30-165 Cal.  
 21590. *multilineatus* Satt. 25-269 Minn.  
 21591. *medorænsis* Satt. 25-270 Kan.  
 21592. *elongata* Roelfs., 75-187  
 fide Cotton 27-93

## SCOLYTIDÆ

**Sphærosinus** Eggers 29-40

21593. *striatus* Eggers 29-41 N.Am.

**Polygraphus**

21594. *hoppingi* Sw. 25-51 Ariz.

**Hylastes**

21592. *yukonis* Fall 26-207 Yukon

\* This genus and *Eulechriops* are not *Zygopini*, fide Barber 26-53.

\*\* In this catalogue, besides the changes noted above, the tribe *Ceutorhynchini* is treated as a subfamily divided into tribes *Mononychini*, *Coeliodini*, and *Ceutorhynchini*. In the latter 17844 is referred to *Eubrychius* Thoms. with 17846 as a synonym, 17827, 17829, 17831, 17832, 17833, 17834, and 17845 are placed in *Phytobius*, and *Cælogaster* Dietz is restored.



**Pityophthorus**

21596. *aplanatus* Schedl 30-195 Alta.  
 21597. *varians* Schedl 30-196 N.S.  
 21598. *watsoni* Schedl 30-197 N.B.  
 21599. *boycei* Sw. 25-192 Cal.  
 21600. *rugicollis* Sw. 25-193 N.Mex.  
 21601. *carinulatus* Sw. 25-193 N.Mex.  
 21602. *elongatus* Sw. 25-194 = 20673  
 fide Blackm. 28-133 B.C.  
 21603. *cutleri* Sw. 25-195 B.C.  
 21604. *borealis* Sw. 25-195 Arctic Can.  
 21605. *gracilis* Sw. 25-195 Oreg.  
 21606. *exilis* Sw. 25-196 Oreg.  
 21607. *tenuis* Sw. 25-196 B.C.  
 21608. *scalptor* Blackm. 28-30 Cal.  
 21609. *anceps* Blackm. 28-31 Colo.  
 21610. *fuscus* Blackm. 28-32 Mont.  
 21611. *aquilus* Blackm. 28-33 Ariz.  
 21612. *absonus* Blackm. 28-35 Cal.  
 21613. *crinalis* Blackm. 28-41  
 Md. Fla. Mich.  
 21614. *juglandis* Blackm. 28-42  
 N.Mex. Ariz.  
 21615. *inquietus* Blackm. 28-46  
 N.Mex.  
 21616. *monophyllæ* Blackm. 28-47  
 Cal.  
 21617. *socius* Blackm. 28-48 Cal. N.Mex.  
 21618. *abietis* Blackm. 28-49  
 Ut. Ariz. N.Mex.  
 21619. *albertensis* Blackm. 28-50  
 Alta.  
 21620. *exiguus* Blackm. 28-51 Colo. Ariz.  
 21621. *segnis* Blackm. 28-52 Ariz. N.Mex.  
 21622. *idoneus* Blackm. 28-55 Idaho  
 21623. *hopkinsi* Blackm. 28-56 Cal.  
 21624. *ponderosæ* Blackm. 28-57  
 N.Mex. Ariz.  
 21625. *tumidus* Blackm. 28-58 Cal.  
 21626. *solus*<sup>1</sup> Blackm. 28-64 Ariz.  
 21627. *comosus* Blackm. 28-65 N.Mex. Ariz.  
 21628. *crassus* Blackm. 28-67  
 N.Mex. Colo. Ariz.  
 21629. *cognatus* Blackm. 28-69  
 N.C.  
 21630. *durus* Blackm. 28-70 Ariz.  
 21631. *schwarzi* Blackm. 28-71  
 N.Mex.  
 21632. *demissus* Blackm. 28-74  
 Mont. Ut.  
 21633. *venustus* Blackm. 28-75  
 Ariz. N.Mex. S.D.  
 21634. *artifex* Blackm. 28-76 Cal.  
 21635. *setosus* Blackm. 28-77 Cal.  
 21636. *cælator* Blackm. 28-78  
 S.D. Colo. Ariz.  
 21637. *opimus* Blackm. 28-80  
 N.Mex. Colo.  
 21638. *brevis* Blackm. 28-81 Ariz. N.Mex.  
 21639. *angustus* Blackm. 28-83  
 N.Y.  
 21640. *concavus* Blackm. 28-85  
 Mich. Me.  
 21641. *mundus* Blackm. 28-86 N.H. N.Y.

**Pityophthorus**

21642. *modicus* Blackm. 28-94  
 N.Mex. Ariz.  
 21643. *navus* Blackm. 28-95 Cal.  
 21644. *novellus* Blackm. 28-96 Cal.  
 21645. *immanis* Blackm. 28-98  
 Ariz. N.Mex.  
 21646. *cascoënsis* Blackm. 28-99  
 Me.  
 21647. *tonsus* Blackm. 28-101 Mich. N.H.  
 21648. *ornatus* Blackm. 28-102  
 Colo.  
 21649. *infulatus* Blackm. 28-103  
 N.Mex.  
 21650. *mollis* Blackm. 28-104 N.Mex. Ariz.  
 21651. *hubbardi* Blackm. 28-105  
 Ariz.  
 21652. *blandus* Blackm. 28-107  
 Cal. Ariz.  
 21653. *barberi* Blackm. 28-112  
 N.Mex. Colo. Ut.  
 21654. *jeffreyi* Blackm. 28-113  
 Cal.  
 21655. *grandis* Blackm. 28-119  
 Ariz. Wyom.  
 21656. *bellus* Blackm. 28-123 W.Va.-Tex.  
 21657. *ingens* Blackm. 28-124 Ariz.  
 21658. *agnatus* Blackm. 28-125  
 N.Mex. Tex. Ariz.  
 21659. *comptus* Blackm. 28-127  
 Ariz.  
 21660. *depygis* Blackm. 28-128 Colo.  
 21661. *burkei* Blackm. 28-129 Cal. Id.  
 21662. *clarus* Blackm. 28-130 Ariz.  
 21663. *acutus* Blackm. 28-134 Ariz. N.Mex.  
 21664. *citus* Blackm. 28-137 Ariz. N.Mex.  
 21665. *solers* Blackm. 28-138 N.Mex. Ariz.  
 21666. *electus* Blackm. 28-140 Oreg.  
 21667. *kenti* Blackm. 28-141 Wyom.  
 21668. *fortis* Blackm. 28-142 Tex. Colo.  
 21669. *virilis* Blackm. 28-143 N.Mex. Colo.  
 18430a. *australis* Blackm. 28-94  
 Ariz.  
 18425b. *hamamelidis* Blackm. 28-39  
 W.Va.  
 18425c. *acerni* Blackm. 28-39 W.Va.  
 18447 (= 18445) fide  
 Blackm. 28-131  
 18434 (= 18433) fide  
 Blackm. 28-108  
 18431 (= 18435) fide  
 Blackm. 28-97  
 18437 (= 18438) fide  
 Blackm. 28-72  
 18450 belongs in *Ambrosiodmus*  
 18449 belongs in *Pityoborus*  
 = 18451 fide Blackm. 28-146

**Pityoborus**

21670. *secundus*<sup>1</sup> Blackm. 28-146  
 Ut.

**Pityophilus** Blackm. 28-147

21671. *barbatus* Blackm. 28-147  
 N.Mex. Ariz.



**Myeloborus** Blackm. 28-16

18421 etc. belong here

21672. *amplus* Blackm. 28-18 Ariz. N.Mex.  
 21673. *keeni* Blackm. 28-19 Cal.  
 21674. *pinguis* Blackm. 28-20 Colo.-Ariz.  
 21675. *catulus* Blackm. 28-21 Id. Wyom.  
 21676. *fivazi* Blackm. 28-23 N.Y. Wis.  
 21677. *iniquus* Blackm. 28-27 Wyom. Colo.

**Ips**

21678. *chamberlini* Sw. 25-196 Oreg.  
 21679. *ponderosæ* Sw. 25-197 Ariz.

**Hyllocurus**

21680. *spadix* Blackm. 28-188 N.C. Pa.  
 21681. *schwarzi* Blackm. 28-189 Tex.

**Micracisella** Blackm. 28-192*(Pseudomicracisella Blackm. nec Egg.)*

- 21682.
- lignator*
- Blackm. 28-195

Ariz.

**Thysanoes**

- 21683.
- xylophagus*
- Blackm. 28-198

Ariz. N.Mex.

**Pseudothysanoes**

- 21684.
- hopkinsi*
- Blackm. 28-200

Cal.

- 21685.
- phorodendri*
- Blackm. 28-202

Tex. Ariz.

- 21686.
- sedulus*
- Blackm. 28-204

Ariz.

- 21687.
- gambetti*
- Blackm. 28-205

Ariz. N.Mex.

- 21688.
- barberi*
- Blackm. 28-206 Ariz.

## APPENDIX

CALOSOMA AS ARRANGED BY BREUNING; NUMBERS OF 1920 CATALOGUE AND 1927 SUPPLEMENT IN PARENTHESIS.

## Calosoma Web.

179. aurocinctum Chd. (179)  
 180. scrutator Fab. (180)  
 181. willcoxi Lec. (181)  
 182. sycophanta L. (182)  
     splendidum Dej. W.I. Fla.  
     (*Syncalosoma*) (*Caminara* Motsch.)  
 183. frigidum Kby. (183)  
     levettei Csy.  
     (*Callistriga* Mots.)  
 ? alternans Fab. 92-146 W.I. U.S. ?  
     ab. cupraescens Roe  
 184. sayi Dej. (as subsp. of  
     alternans) (184)  
     virginica Csy.  
     armatum Lap.  
     abdominale Géh.  
     (*Chrysostigma* Kby.)  
 204. calidum Fab. (204)  
     lepidum Lec. (204a)  
     expansa Csy.  
     laticollis Csy.  
     comes Csy. (204b.)  
 204d. stellatum Csy.  
     concreta Csy. (204c)  
 205. morrisoni Horn (205)  
 206. tepidum Lec. (206)  
     irregulare Walker  
     cælator Csy.  
     indigenus Csy.  
     pallax Csy. (206a)  
     cogitans Csy. (18566)  
     semicuprea Csy. (206b)  
     (*Tapisnothenes*)  
 207. cancellatum Esch. (207)  
     ænescens Lec.  
     esuriens Csy. (207a)  
     transversa Csy. (207b)  
     rectilatera Csy. (18568)  
     praestans Csy. (18569)  
     sagax Csy. (18567)  
     (*Carnegonia*)  
 186. prominens Lec. (186)  
     angulatum†Lec.  
 186a. parvicollis Fall (187)  
     subgracilis Csy.  
     clemens Csy. (188)  
     pertainax Csy. (18565)  
 195. lecontei n.n. Csiki  
     lugubre||Lec. (195)  
     marginalis Csy.  
     (*Carabiosoma*)  
 185. angulatum Chev. (185)  
     angulicolle var. Chd.  
     uniforme Géh.  
 ? glabratum Dej. S.Am.  
 194. peregrinator Guér. (194) subsp.  
     of glabratum  
     carbonatum Lec. (196)  
     forreri Géh.  
     affine Bates nec Chaud.  
     ingens Csy. (194a)  
     amplipennis Csy. (194d)  
     apacheana Csy. (194c)  
 191. sponsa Csy. (191) subsp.  
     of glabratum

## Calosoma Web.

- parviceps Csy. (190)  
 eremicola Fall (192)  
 rugosipennis Schffr. (193)  
 hospes Csy. (189)  
 ? affine Chd. Mex.  
 199. tristoides Fall (199) subsp.  
     of affine  
 198. triste Lec. (198) subsp.  
     of affine  
 200. obsoletum Say (200)  
     microsticta Csy. (200a)  
 201. semilaeve Lec. (201)  
     davidsoni Csy. (201a)  
     adjutor Csy. (201b)  
 202. simplex Lec. (202)  
     (*Callitropa*)  
 176. externum Say (176)  
     longipenne Dej.  
 177. macrum Lec. (177)  
 178. protractum Lec. (178)  
     dolens Chd.  
     truncatum Géh.  
     (*Paracalosoma*)  
 197. palmeri Horn (197)  
     (*Blaptosoma*)  
 ? laeve Dej.  
 203. haydeni Horn (203) subsp.  
     of laeve  
     (*Callisthenes* Fisch.)  
 209. moniliatus Lec. (209)  
     laquaetus Lec. (209a)  
     bicolor Walker 66-313  
     vancouverensis Csiki  
 209b. concinnus Csy. (209b)  
 210. wilkesi Lec. (210)  
 211. discors Lec. (211)  
     inversus Csy. (211a)  
 211b. schaefferi n.n.  
     for irregularis||Schffr. (212)  
 211c. dietzi Schffr. (213)  
     tularensis Csy. (213a)  
     gravidulus Dsy. (213b)  
     latipennis Csy.†nec Horn  
 208. subaneum Chd. 69-2S (208)  
 208a. latipenne Horn (221)  
 208b. opimum Csy. (221b)  
     arcuatus Csy. (221a)  
 219. luxatum Say (219)  
 219e. zimmermanni Lec. (214)  
     opacus Géh. (214a)  
     tegulatus Csy. (216a.)  
     viator Csy. (216b)  
     debilis Csy. (18570)  
     parowanum Csy. (18571)  
     ab. pimeloides Walker (217)  
     pustulosus Csy. (218)  
     ab. monticola Csy. (219a)  
     nevadensis Csy. (219b)  
     ab. diffractum Csy. (219c)  
     ab. striata n.n.  
     for striatulus||Lec. (215)  
     exaratus Csy. (216)  
     reflexus Csy. (18572)  
     utensis Csy. (18573)  
     semotus Csy. (18574)  
     ab. subasperatus Schffr. (220)  
     ab. klamathensis Csy. (219d)

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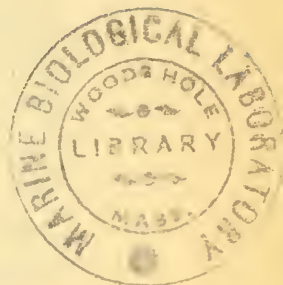
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# THIRD SUPPLEMENT TO CATALOGUE OF COLEOPTERA OF AMERICA, NORTH OF MEXICO

## ADDITIONS AND CORRECTIONS TO DECEMBER 31, 1933



### CICINDELIDÆ

Nicolay and Weiss 32

#### Amblycheila

21689. *picolominii* is a good species.  
fide Martin 32-111

Cal.

#### Cicindela

21690. *alata* Lilj. 32-215

Ill.

According to Nicolay and Weiss 32:  
45e. *auguralis* Csy. is variety of  
*limbalis*  
45 d is synonym of 45

### CARABIDÆ

Darlington 31; Lapouge 31; Netolitsky 31; Fall 32; Jeannel 31;  
Valentine 31, 32; Csiki 31, 32; Brown 32.

#### Scaphinotus

21691. *confusus* Darl. 31-146

N.C.

128a is valid as subspecies,  
fide Darl. 31.  
*angelli* Beut. is synonym  
of *guyoti*, fide Darl. 31.

#### Maronetus

21692. *unistriatus*<sup>1</sup> Darl. 31-149

N.C.

#### Sphaeroderus

21693. *multicarinatus* Darl. 31-151

N.C., Tenn.

#### Carabus

Lapouge in *Genera Insectorum*, fasc. 192 a-b, 1931, treats the species of *Carabus* as a subtribe, *Carabina*, divided into genera and subgenera. Our *sylvosus* is placed in the genus *Eocarabus*, subgenus *Tanaocarabus*; *taedatus* in genus *Oreocarabus*, subgenus *Neocarabus*; *chamissonis* in genus *Hemicarabus*, subgenus *Cryocarabus*. 170a and 169f, are treated as subspecies; the other names under 168, 169 and 170 as synonyms or as varieties of the recognized subspecies.

#### Calosoma

The same method is used by Lapouge for *Calosoma*, which becomes subtribe *Callisomina*, divided into four genera and twelve subgenera. Of these *Isostenia* contains 210, *Lyperostenia* contains 198, *Paratropa* contains 177 and 178, *Acamegonia* contains 194; the remainder are nearly the same as in Breuning's arrangement given in Appendix to our second supplement. In the treatment of the specific names Lapouge differs in many instances with Breuning. They appear to agree that 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 194, 195, 200, 201, 202, 204, 205, 206, 207, 208, 209, 210, 211, 219, are good species; but differ as to the status of many other names.

#### Callisthenes

According to Lapouge, if this genus is recognized as separate from *Calosoma*, *Callitropa*, for 176, 177, 178, 186, 195, 194 (with subsp. *incerta* Lapouge 24-38) and 201, and *Caminara* for 184, must also be recognized.

**Loricera**

241. pilicornis (Fab.) 75-243 is correct  
name fide Van Dyke, i. litt

**Nebria**

21694. appalachia Darl. 31-153  
N.C., Teni

**Bembidion**

21695. bryanti Carr 32-191 Br.Am.,  
N.W.T.  
(*Furcacampa* n. subg.  
Netolitsky 31-158)  
705 is the type.

**Microtrechus**

21696. barberi Jeannel 31-444 N.C.

**Trechus**

- 910b. brachyderus Jeannel 31-432  
Mont.  
20711a. arcticollis Jeannel 31-428  
Idaho  
21697. gravidulus Jeannel 31-429  
N.Mex.  
21698. beutenmülleri Jeannel 31-436  
N.C.  
21699. schwarzi Jeannel 31-437  
N.C.

**Pseudanopthalmus**

- 20715a. limicola Jeannel 31-451  
Va.  
20715b. parvicollis Jeannel 31-452  
Va.  
921a. stricticollis Jeannel 31-466  
Ind.  
921b. morrisoni Jeannel 31-466  
Ind.  
21700. intermedius Valentine 31-249  
and 32-276 Tenn.  
21701. robustus Valentine 31-250  
Tenn.  
21702. punctatus Valentine 31-250  
and 32-266 Va.  
21703. higinbothami Valentine 31-251  
W.Va.  
21704. hirsutus Valentine 31-252  
Tenn.  
21704a. delicatus Valentine 32-270  
Va.  
21705. lodingi Valentine 31-252  
Ala.  
21706. humeralis Valentine 31-253  
Tenn.  
21706a. brevis Valentine 32-273  
Tenn.  
21707. gracilis Valentine 31-253  
Va.  
21708. grandis Valentine 31-254  
W.Va.  
21708a. elongatus Valentine 32-265  
W.Va.  
21708b. orthosulcatus<sup>1</sup> Valentine 32-265  
W.Va.  
21709. fuscus Valentine 31-254  
W.Va.  
subæqualis Valentine 31-255  
W.Va.  
21709a. constrictus Valentine 32-267  
W.Va.  
21710. potomaca<sup>1</sup> Valentine 32-262  
W.Va.

**Pseudanopthalmus**

- 21710a. senecæ<sup>1</sup> Valentine 32-263  
W.Va.  
21711. hypertrichosis Valentine 32-266  
W.Va.  
922a. bathycola Valentine 32-268  
Va.  
21712. digitus<sup>1</sup> Valentine 32-270  
Tenn.  
21713. rotundatus Valentine 32-271  
Tenn.  
21714. fulleri<sup>1</sup> Valentine 32-272  
Tenn.  
21715. alabamæ Valentine 32-273  
Ala.  
**Horologion** Valentine 32-2  
21716. speokites<sup>1</sup> Valentine 32-3  
W.Va.  
**Pterostichus**  
1004, add idahoensis Casey  
as syn. fide Darl. 31.  
(*Gastrellarius*)  
21717. unicarum Darl. 31-155  
N.C., Tenn.  
(*Monoferonia*)  
21718. primus Darl. 31-159 N.C., Tenn.  
1476a. plethorus Darl. 31-161 N.C.  
21719. carolinus Darl. 31-162 N.C., Ga.  
21719a. fumorum Darl. 31-163  
N.C.  
1477. diligendus Chd. fide Darl. 31,  
with osculans Csy. and  
apalachius Horn as syn.  
**Rembus**  
This genus in Col. Cat. pars 115,  
is placed in a tribe Oodini  
and separated from Licinini  
**Dicaelus**  
21720. darlingtoni Fall. 32-19  
Fla.  
**Calathus**  
The changes made in the Platynini in Col. Cat. pars 115, are numerous, beginning with the reduction of the tribe to a subtribe, Agoni, and introducing many new names for genera, subgenera, preoccupied species names, etc. In Calathus the synonymy announced in our first supplement is disregarded.  
Unless otherwise noted all of the following changes in the subfamily Harpalinæ are suggested by Csiki in Col. Cat. pars 115 or pars 124.  
**Pristodactyla**  
1488b. brunnescens Mann. 52-204  
Aleut.Is.  
1488c. breviuscula Mann. 52-204  
Aleut.Is.  
**Laemostenus**  
1494 is removed to Aechmites  
[Schauf. 65-88  
**Platynus**  
Is treated as Agonum with many subgenera, as follows:  
(*Agonodromius*) Reitt. 08-139  
Includes 1573, 1574, 18888,  
and 18886, 18887. as var. of 1573.

**Platynus**

(*Batenus*) Motsch. 64-317  
Includes 1563, 1564.  
(*Platynomicrus*)  
Includes 1589, 18883  
(*Oxytselaphus*) Chaud. 43-415  
Includes 1532, 1592 (*Anchus*  
Lec. 1854)  
(*Europhilus*)  
Includes 1587, 1588  
(*Rhadine*)  
Includes 1495 to 1506,  
18803 to 18807  
(*Platynidius*)  
Includes 1507 to 1509,  
18808 to 18813  
(*Anchomenus* and *Agonum*)  
Include the remaining species ex-  
cept 1593

1576. *ruficornis* Goeze 77-663  
(= *albipes* Fab. 96-33) is  
transferred from *Agonum*  
to *Anchomenus*.  
1584. *lene* Dej. 28-166  
(= *ruficornis* Lec.,  
*picipennis* var. Kby., *gratiosus*  
Mann.) remains in *Agonum*.  
1587. *picipennis* Kby. (= *lenum* Lec.  
etc.) in *Europhilus*

**Colpodes**

Is treated as a genus.

**Perigona**

Is treated as a tribe, *Perigonini*  
*discicollis* Chd. 76-353 is given  
as syn. of 1601.

**Atranus**

Is transferred to subtribe *Agoni*

**Anchonoderus**

1608. *horni* n.n. Csiki 31  
(= *apicalis* Horn nec Reiche)

**Colliuris**

(*Odacanthella*)

- 1612a. *picta* is a good species  
1612b. *suturalis* is a var. of *picta*  
(*Calocollius*)  
1613 is placed in this subgenus  
All the species from 1610 to 1614  
are placed in the tribe *Colliurini*;  
1622 to 1625 in tribe *Zuphiini*; 1635  
to 1638 in tribe *Cyclosomini*; 1639  
in tribe *Nematotarsini*. The species  
1637 and 1638 are in subg. *Per-  
sonocellus*.

**Lebia**

1671. add syn. *axillaris* Lec. 48-193  
Csiki in Col. Cat. pars 124 revives  
*chalcoptera* G. & H.  
(*flaviventris*||Mots.) and as  
synonyms, *cupripennis* Boh.,  
*erythrocephala* Dej. and  
*brunnicollis* Mots.  
(*Metabola*)  
1651 is placed in this subgenus  
(*Dianchomena*)

**Lebia**

1675. ? *flavolineata* Mots. 64-227  
is added as a synonym  
(*Aphelogenia*)  
1681. *flavoguttata* Chev. 35 No. 161  
is added as synonym.  
*connecta* Chd. 71-40 added as a  
variety.

**Coptodera**

This genus and *Phloeoxena* are  
placed in a subtribe *Catascopi*.  
Synonymy under 1688 is compared  
with *rutila* Bates from Brazil.

**Dromius**

(*Dinodromius*)  
1691 and 1692 are placed in this  
subgenus.  
1691 to 1701 are placed in subtribe  
*Dromii*.

**Blechnus**

The genus name *Microlestes* is  
preferred, and Casey's arrangement  
is substantially adopted except that  
*linearis* Lec. is made a synonym.

**Metabletus**

1699 is made a separate genus.

**Axinopalpus**

19006 is syn. of 1700;  
19007 is syn. of 1701.

**Euproctinus** L. & M. 27-14

(*Euproctus* Sol. nec Gené)  
(*Andrevesella* Csiki 32-1456)

**Callida**

21721. *rubricollis* Dej. 25-225 Cuba, U.S.  
*elegans* Chd. 44-469  
subtribe *Callidi* includes 1705 to  
1724.

**Plochionus**

(*Menidius*)  
1723 and 19014 belong in this sub-  
genus

**Cymindis**

1725 to 1759 form subtribe  
*Cymindina*  
1740 is syn. of 1744;  
1738a is syn. of 1738;  
1743 is transferred to *Pinacodera*

**Pinacodera**

*fuscicollis* Mots. 64-298 is syn.  
of 1725  
*planipennis* Csy. 13-184 (nec Lec.)  
is syn. of 1901b.

**Pentagonica**

This genus is placed in the tribe  
*Scopodini*  
*americana* Mots. 64-224  
is syn. of 1760

**Inna**

This genus is placed in the tribe  
*Euchilini*

**Chlaenius**

This genus in Col. Cat. pars 115  
is divided into subgenera:  
*Epomis* for 1806  
*Glyptoderus* for 1804  
*Chlaenius* s. str. for remainder



**Chlanius**

1804. *aurolimbatus* Laferte 54-261  
*chrysopleurus* Chd. 56-276  
 ? *validus* Chev. 35 No. 174 is valid  
 but ? N.Am.
1810. *exaratus* Laferte 51-249 is valid
1813. *cœrulicollis* Chd. 76-78  
*insperatus* Horn 85-134
1814. *emarginatus*†Kby. and  
*indutus* Laferte are syn.
1817. *impunctifrons*†Kby. is syn.
1831. 1831a and *chlorophanus* Lec. 48-345  
 are syn.
1836. *lecontei* Hald. 43-304 is syn.
1841. *kuntzeni* n.n. Csiki  
 for *diffinis*||Chd. nec Laferte
21722. *regularis* Lec. 49-179
- 21722a. *apacheanus* Csy. 14-34
1848. *rufilabris* Dej. 26-329 is syn.

**Oodes**

- 1862 is subgenus *Lachnocrepis*  
 1871 is transferred to *Oodes* s. str.  
 1872 is subgenus *Stenocrepis*

**Dercylinus**

- 1877 is transferred to this genus

**Geopinus**

- This genus is placed in subtribe  
 by Csiki Col. Cat. pars 121, from  
 which also following notes are de-  
 rived.

**Piosoma**

- In subtribe *Diorychi* with  
*Selenophorus*, etc.

**Nothopus**

- In subtribe *Euryderi* (name  
*Euryderus* for genus)

**Cratacanthus**

- In subtribe *Acinopi*

**Glanodes, Opadius, Pharalus**

- All made subgenera of *Harpalus*,

1895. *indianus* n.n. Csiki  
 for *testaceus* || Lec. nec. Hald.

**Harpalus**

- (*Pardileus*)  
 Includes 1910, 1915, 1919, 1920  
 (synonymy reversed), 1922, 1925,  
 1925a  
 (*Harpalus* s. str.)
1935. *montuosus* n.n. Csiki  
 for *montanus* || Lec. nec Sturm
1936. *baergi* n.n. Csiki  
 for *rufimanus* || Lec. nec Marsh
1971. *fulgens* n.n. Csiki  
 for *nitidulus* || Chd. nec Steph.
1979. *funerarius* n.n. Csiki  
 for *funestus* || Lec. nec Serv.
1996. transpose synonymy
2006. *read basilaris* Kby. 37-41  
*obesulus* Lec. 52-185  
*extensus* Walk. 66-314  
 The four names unrecognized by  
 American authors, viz.: *ventralis*  
 Lec., *oodioides* Chd.,  
*comis* Hald., and *curtatus* Mann.,  
 are treated by Csiki as good species.  
 He also alters spelling of 19076 and  
 19079.

**Selenophorus**

The subtribe *Diorychi* includes this  
 genus, *Piosoma*, *Gynandropus*, *Har-*  
*tonymus*, and *Trichotichnus* for  
 2010, 2011, 2012, 2013, 19094.  
*Selanalius* Csy. and that author's  
 subgenera are not recognized.

2015. *iripennis* Say is the name preferred.  
 2020. *schaefferi* n.n. Csiki  
 for *angulatus* || Csy. nec Chd.

**Discoderus**

This genus is placed in subtribe  
*Anisotarsi*, which includes also all  
 the species from 2070 to 2144, plus  
 2155, 2270, 2271, and 2272.

**Anisodactylus**

Includes as subgenera *Gynandrotar-*  
*sus* (= *Triplectrus*, *Cephalogyna*,  
 and *Haplocentrus*).

2082. *dilatatus* Say 34-431 is syn.

**Dicheirus**

The species *immanis* Horn and  
*depressicollis* Mots. are treated as  
 good species.

**Anisotarsus**

2130. Genus *Stilbolidus* suppressed. Syn-  
 onymy reversed.

2131. add syn. *læviusculus* Chd. 37-43.

2132. synonymy reversed.

2135. *similis* Say 23-29 with  
*agilis* Dej. as syn.

**Pelmatellus**

2155. synonymy reversed.

**Trichocellus**

21723. *porsildi* Brown 32-3 N.W.T.

**Bradycellus**

The subtribe *Bradycelli*, fide Csiki,  
 includes *Trichocellus*, *Bradycellus*  
 (with subgenera *Triliarthrus*, *Cath-*  
*arellus*, *Stenocellus*, *Amerinus*, and  
*Liocellus* (= *Glycerius*). He ap-  
 pears to have been ignorant of  
 Fall's remarks re *Tachycellus* in  
 1930.

2167. *lecontei* n.n. Csiki  
 for *cordicollis* || Lec. 48-306

**Acupalpus**

The species from 2205 to 2244 form  
 a subtribe *Acupalpi*, with one genus  
 divided into subgenera: *Acupalpus*  
 s. str., *Philodes*, *Goniolophus*, *Steno-*  
*lophus*, and *Agonoleptus*.  
 (*Stenolophus*)

21724. *laticollis* Mots. 64-202 La.

- ? *splendidulus* Mots. 64-201  
 N.Am.

**Agonoderus**

The species from 2245 to 2269 are  
 treated as subtribe *Agonoderi*, all  
 in one genus

2261. *similis* Lec. 73-325 nec Kby. is syn.

**Pogonodaptus**

2273. This genus is also included in  
*Agonoderi*.

**Polpochila**

This name replaces *Cratocara*. The  
 genus is placed in subtribe *Aniso-*  
*tarsi*.

2270. *riehli* Schaum. 68-126 is a syn.

## DYTISCIDÆ

Brown 31, 32; Fall 32.

**Derovatellus** Sharp. 80-286  
21725. floridanus Fall 32-146 Fla.

**Hydroporus**

21726. compertus Brown 32-4 B.C.  
2476. pinguis Fall (19191) is a syn.  
21727. deceptus n.n. Fall 32-145  
for addendus Fall nec Cr.

2522. æquus Fall (19222) is a syn.  
20775. brodei Gell. is a var. of 2486.  
21728. barbaræ<sup>1</sup> Fall 32-146 So.Cal.  
(Neophorus) Guignot 31-47  
19202 is placed in this subgenus

**Agabus**

21729. verus Brown 31-115 Man.  
21730. verisimilis Brown 32-4 B.C.

## GYRINIDÆ

**Gyrinus**

21731. instabilis Fall 31-155 Alas.  
21731½ opacus var. blairi n. n.  
Omar Cooper 31-239  
(= lecontei O.C. 30-68  
nec Fall) Greenland

## LIMNEBIIDÆ \*

**Ochthebius**

21732. insulanus Brown 31-116  
Vanc.

**Limnebius**

21733. columbianus Brown 32-5  
B.C.

## HYDROPHILIDÆ

**Hydrophilus**

The species 2789 to 2791 belong in  
this genus.  
fide Mutchler 31

**Hydrochara** Berthold 1827

The species 2793 to 2796 belong  
here.

**Tropisternus**

21734. columbianus Brown 31-119  
Vanc.

**Enochrus**

21735. collinus Brown 31-118 Que.

**Cereyon**

19287. kulzeri Knisch 22-97,  
fide Blackwelder 31-19  
californicus Fall 24-251

## LEIODIDÆ

**Hydnobius**

21736. simulator Brown 32-6 B.C.

**Leiodes**

21737. validus Brown 32-202 Que.  
21738. impersonata Brown 32-203  
Que.

**Leiodes**

21739. bradorata Brown 32-204  
Que.  
21740. potens Brown 32-205 Que.

\* For the establishment of this family, see the writings of Böving and introduction to second supplement.

## STAPHYLINIDÆ

## Pinophilus

21741. confusus Fall 32-56 N.C., Fla.  
 21742. gracilis Fall 32-57 La.  
 3884 is syn. of 3883, fide Fall 32

## Aræocerus

21743. elegans Fall 32-57 Tex.

## Megaquedius

Is not generically distinct,  
 fide Gridelli 14

## PSELAPHIDÆ

## Rhexidius

21744. perscitus Fletcher 32-29  
 N.C.

## Arthmius

21745. morbus<sup>1</sup> Fletcher 32-33  
 Ariz.

## Reichenbachia

21746. snow<sup>1</sup> Fletcher 32-31 Ariz.  
 21747. ignobilis<sup>1</sup> Fletcher 32-32 Ariz.  
 21748. gentilis<sup>1</sup> Fletcher 32-33  
 Cal.

## Hamotus

(*Hamotoides*)

21749. opimus Fletcher 32-34 Fla.  
 21750. elongatus Brend. 90-239  
 Ariz.

## MELYRIDÆ

## Endeodes

21751. insularis Blackwelder 32-134  
 Cal.  
 21752. rugiceps Blackwelder 32-135  
 Cal.

## Malachus

21753. californicus Barrett 31-102  
 Cal.

## Trichochrous

21754. blackwelderi Blais. 31-323  
 Cal.  
 21755. varipes Blais. 31-180 Cal.

## Menovectura Blais. 31-181

21756. serrulata Blais. 31-182 Cal.

## Listrus

21757. inyoensis Blais. 31-178 Cal.

## Eschatocrepis

21758. desertus Blais. 31-329 Cal.

## Allonyx

Corporaal 92 states that this generic  
 name is preoccupied by *Allonyx*  
 Jacq. Duv. 60-196.

## TELEGEUSIDÆ

## Telegeusis

21759. nubifer Martin 31-91 Ariz.

## MELOIDÆ

## Epicauta

21760. magnomaculata Martin 32-169  
 Cal.

## PYTHIDÆ

## Rhinosimus

8215. lecontei n.n. Blair 32-254  
 Alas.  
 æneirostris† Lec. 79-4 nec Mann.  
 8217. viridiaeneus Rand. 38-23  
 Me. Ind.  
 Can.  
 æneirostris Mann. 53-45  
 nitens Lec. 66-168

## PYROCHROIDÆ

## Dendroides

8225. canadensis Latr. 1810,  
fide Barber 32-36  
bicolor Newm.  
21761. pacificus Barrett 32-171  
Cal.

## ANTHICIDÆ

## Notoxus

21762. parvidens Fall 32-62 Alta. Wyo.

## CEBRIONIDÆ

## Cebrio

21763. knausi VanD. 32-464 Utah

## Scaptolenus

21764. socius Fall 32-60 Tex.  
21765. fuscipennis Fall 32-61 Ariz.

## PLASTOCERINÆ\*

## Euthysanius

21766. cribricollis VanD. 32-455  
Cal.  
21767. piceus VanD. 32-456 Cal.

## Octinodes

21768. amplicollis VanD. 32-459  
Cal.

## Aplastus

21769. cylindricus VanD. 32-461  
Utah  
21770. arizonicus VanD. 32-462  
Ariz.  
21771. pilosus<sup>1</sup> VanD. 32-463 Cal.

## Euplastius

- 8539 and 8540 doubtfully U.S.  
fide Van Dyke

## ELATERIDÆ

Benedict 31; Fall 32; Van Dyke 32.

## Adelocera

21772. nobilis Fall 32-58 Ariz.  
21773. candida<sup>1</sup> Fall 32-59 Ariz.  
21774. mexicana Cand. 57-70  
fide Fall, occurs in Fla. Ariz.  
(VanD.)  
21775. maculata Lec. 66-389,  
fide VanD., occurs in Cal. B.C.

## Conoderes Esch. 29-31

- (*Monocrepidius* Esch. 29-31)  
21776. bicarinatus<sup>1</sup> VanD. 32-297  
Ariz.  
21777. varians (Steinh.) 75-121  
Ariz.  
21778. amplicollis (Gyll.) 33-194  
Ala. Fla.  
fuscus Blatch. 25-163  
According to VanD. 32:  
8605 is syn. of 8604  
8608 is syn. of 8607  
(*Heteroderes* Latr. 34-155)  
8606 belongs here. fide VanD. 32.

## Limonium

21779. pictus VanD. 32-343 No.Cal.  
21780. bicolor VanD. 32-344 Cal.

## Limonium

21781. nebulosus VanD. 32-345 Ariz.  
21782. huguenini VanD. 32-346  
Cal.  
21783. ulkei Horn 71-314 is valid,  
fide VanD. Cal.  
21784. clypeatus Mots. 59-369 is valid,  
fide VanD.  
8620a. seminudus VanD. 32-348  
Cal. Wash.  
Id.  
21785. ursinus VanD. 32-349 Colo.-Alta.  
21786. kuschei VanD. 32-349 Cal.  
21787. lanei VanD. 32-350 Wash.-Alta.  
21788. beutenmuelleri VanD. 32-351  
N.C.  
according to VanD. 32:  
8623 = var. of 8648,  
8628 = 8627,  
8638 = var. of 8630  
8644 = var. 8647.  
8651 = var. of 8630,  
8655 = 8647,  
Nothodes = Limonium,  
Pheletes is a subgenus in Limonium,  
8652 belong in Athous

\* Reduced to a subfamily of Cebriionidae, Plastocerinae, by Van Dyke 32, by Hyslop 23, and by Böving 31.



**Leptoschema**

8656a. elegans VanD. 32-357 Cal.

**Elathous** Reit. 90-3178657 and 8658 belong here  
fide VanD. 32

8659 = 8658, fide VanD. 32

21789. californicus VanD. 32-359  
Cal.**Athous**21790. appalachius VanD. 32-372  
N.C.

8666a. carmeli VanD. 32-374 Cal.

8666b. angelicus VanD. 32-374  
So. Cal.

8696a. sierræ VanD. 32-376 Cal.

8660a. maritimus VanD. 32-378  
Cal. Or.

21791. brevis VanD. 32-379 Cal.

21792. sordidus<sup>1</sup> VanD. 32-380 So. Cal.21793. rufipennis<sup>1</sup> VanD. 32-380  
Cal.

21794. essigi VanD. 32-381 Cal.

21795. arizonicus VanD. 32-384  
Ariz.21796. erebus<sup>1</sup> VanD. 32-385 Mich.

8676a. reflexus Lec.

8676b. lengi Dury

According to VanD. 32:

8674. scissus Lec. 57-46 (= ingens Fall)

8664 is var. of 8660

8671 is syn. of 8667

8683 is subsp. of 8682

8688 is syn. of 8662

8672 is subsp. of 8666,

8798 belongs in Athous

21797. simplex Lec. 76-516 is valid,

8678 is doubtfully N. Am.

8661 is a European sp.

8697 belongs in Lilius

**Ludius**21798. uliginosus VanD. 32-408  
Cal.21799. silvaticus VanD. 32-409  
Cal.21800. applastoides VanD. 32-411  
Cal.

21801. atlas VanD. 32-412 Cal.

21802. dolorosus VanD. 32-413  
Cal.

21803. tenellus VanD. 32-414 Cal.

21804. patricius<sup>1</sup> VanD. 32-415  
Wash.21805. humboldti VanD. 32-415  
Or. Cal.21806. tahoensis VanD. 32-418  
Cal.

21807. rainieri VanD. 32-421 Wash.

21808. nunenmacheri VanD. 32-422  
Cal.21809. shastensis<sup>1</sup> VanD. 32-423  
Cal.21810. blaisdelli VanD. 32-424  
Cal.21811. appalachius VanD. 32-425  
N.C.21812. hoppingi VanD. 32-434  
B.C.**Ludius**

According to VanD. 32:

8704 is syn. of 8705.

8707a is syn. of 8708,

8716 is syn. of 8714,

8723 is syn. of 8711.

8731 is subsp. of 8730,

8732 is subsp. of 8730,

8739 is subsp. of 8730.

8733a. pygmæus VanD. 32-418  
Man.

8737 is subsp. of 8733,

8736 is subsp. of 8733,

8738 is subsp. of 8733,

8755 is subsp. of 8754,

8742 is race of 8741,

8743 is same as 8745. N.B.-Or.

8784 is female of 8707,

8781 is subsp. of 8797,

8749 is subsp. of 8791,

8791b. diversicolor (Esch.)

8791c. ruscicollis (Germ.)

8791a. is syn. of 8791

8782 is syn. of 8780,

8751a. brunripes Bland

8758 and 8759 are syn. of 8712,

8783a. lateralis Lec.

8788 is subsp. of 8785.

8777a. tinctus Lec.

8746 is subsp. of 8774,

8786 is subsp. of 8787,

8767 is subsp. of 8766,

8790 is var. of 8787,

**Elater**(including *Ectamenogonus*)

21813. ursinus VanD. 32-301 Cal.

21814. fenyesi VanD. 32-302 Cal.

8973a. uteanus VanD. 32-303 Utah

21815. varipilis VanD. 32-306 Cal. B.C.

21816. bimauculatus VanD. 32-307  
Cal.8927a. hoppingi VanD. 32-306  
B.C.21817. brunneicolor VanD. 32-308  
Cal.

21818. brevis VanD. 32-309 Wash. B.C.

21819. sturmi Germ. 44-188 is valid,

fide VanD. 32

8949 = 8975, fide VanD. 32

8953a is valid, fide VanD. 32

8953a is valid, fide VanD. 32

**Megapenthes**21820. illinoiensis<sup>1</sup> VanD. 32-314  
Ill.

21821. obtusus VanD. 32-315 N.Mex.

Ariz.

21822. variolatus VanD. 32-316  
Ariz.21823. megalops VanD. 32-317  
Ariz.

According to VanD. 32:

8981. aterrimus (Mots.) 59-382

8642 belongs here

8972 belongs here

8789 is syn. of 8787

8793c. ater VanD. 32-430 Cal.

8794a. olympiæ VanD. 32-431 Cal.

**Eanus**

21824. granicollis VanD. 32-435 Wash.

**Hypnoidus**

(*Cryptohypnus*)

21825. glacialis VanD. 32-326 Mont. B.C.  
 8831a. hirsutus VanD. 32-327 Utah  
 8824 is syn. of 8825,  
 fide VanD. 32

**Paroclostethus** VanD. 32-327

21826. relictus<sup>1</sup> VanD. 32-328 Cal.

**Melanactes**

21827. agrypnoides<sup>1</sup> VanD. 32-446 Ariz.

**Sericus**

21828. rugosus VanD. 32-452 Cal.

**Agriotes**

21829. cylindricus VanD. 32-447 Cal.

21830. bivittatus VanD. 32-448 Or.

21831. eriddelei VanD. 32-448 Man.-Wyo.  
 21832. porosus<sup>1</sup> VanD. 32-449 N.C.  
 21833. blaisdelli VanD. 32-450 Cal.  
 8889 and 8890 are subsp. of 8888,  
 fide VanD. 32

**Ischiodontus**

9009 belongs here

**Anchastus**

21834. subopacus VanD. 32-321 Cal.

9006a. corvus VanD. 32-322 Cal.  
 21835. ventralis VanD. 32-322 Ariz.  
 (? = 9011a)

21836. arizonicus VanD. 32-323 Ariz.

According to VanD. 32:  
 9003 = 9004,  
 9008 = 9012,  
 regularis Mots. = 9004,  
 recedens Lec. = 9004,  
 hirsitulus Mots. = 9004,  
 pilifer Mots. = 9004,

**Melanotus**

9017a. franciscanus VanD. 32-332 Cal.

9056 and 9057 = 9017

**Cardiophorus**

21837. aptopoides Cand. 65-40  
 fide Benedict 31-156 Ariz.

**Aptopus**

21838. lateralis Mexico

21838a. spadiceus Er. 40-331  
 fide Benedict i. litt. Ariz.

**Horistonotus**

21839. umbilicatus VanD. 32-329 Ariz.

21840. lutzii VanD. 32-331 Ariz.

**MELASIDÆ**

**Hypocœlus**

21841. californicus VanD. 32-292 Cal.

**THROSCIDÆ**

**Drapetes**

21842. cylindricus Fall 32-61 Ariz.

**BUPRESTIDÆ**

**Acmaœodera**

21843. carlota Fall 31-81 Ariz.  
 21844. lineipicta Fall 31-81 Ariz.

**Glyptoscelimorpha**

21845. viridis Chamberlin 31-47 Cal.

**Melanophila**

21846. arcuata Fall 31-83 Ariz.

**Agrilaxia**

19651. arizonæ Obenb. 22-180  
 var. arizonæ Chamberlin 26-46  
 and 32-836  
 huachucae n.n. Obenb. 30-551.

**Agrilus**

21847. nodicornis<sup>1</sup> Fall 31-82 Ariz.  
 arbuti Fisher 28 (= manzanita  
 Chamb. 29)  
 populi Fisher 28 (= trichocarpæ  
 Chamb. 29)

**DRYOPIDÆ**

**Helichus**

21848. columbianus Brown 31-118 B.C.

## HELMIDÆ

## Limnius

21849. cryophilus Musgrave 32-79  
Tenn.

## HELODIDÆ

## Cyphon

21850. cooperi Schffr. 31-174 N.Y.

## DERMESTIDÆ

## Dermestes

9740. peruvianus Cast. 40-33  
(= angustus Csy.)

## Perimegatoma

according to Hopping 32-173:  
9766. cylindrica Kby. 37-113 (= 9766 and  
9767)  
9764. 9763 is a syn.

## BYRRHIDÆ

## Morychus

21851. albertanus Brown 32-8 Alta.

## Simplocaria

21852. remota Brown 32-8 N.W.T.

## OSTOMIDÆ

## Temnochila

21853. sonorana Barrett 32-171 Cal.

## NITIDULIDÆ

## Glischrochilus

21854. quadrisignatus (Say) 35-169,  
fide Siepmann 31  
21854a. canadensis Brown 32-259  
B.C. Ont. Que.  
similis Melsh. 46-108  
fide Siepmann 31  
bipustulatus Melsh. 46-108  
fide Siepmann 31  
21855. siepmanni Brown 32-259  
Que. B.C.  
21856. moratus Brown 32-261  
Mont. Alta. B.C.

## Glischrochilus

10141. lecontei n.n. Brown 32-262  
cylindricus || Lec. nec. Oliv.  
10138a. rubromaculatus Reit.,  
fide Brown 32-255  
According to Siepmann 31:  
10137a. quadrimaculosus Melsh. 46-108  
geminatus Melsh. 46-108  
**Pallodes**  
21857. plateosus Schffr. 31-174 Ariz.

## CUCUJIDÆ

## Cucujus

10221b. subnitens Schffr. 31-175  
Ariz. Ut.

## EROTYLIDÆ

## Ischyryus

10301a. alabamæ Schffr. 31-175  
Ala.

## LATHRIDIIDÆ

## Lathridius

2185S. laevior<sup>1</sup> Brown 32-208 Que.

## ENDOMYCHIDÆ

## Epipocus

21859. subcostatus Gorh. Ariz.  
fide Benedict 31-156

## COCCINELLIDÆ

Korschefskey 31, 32; Dobzhansky 31.

In the arrangement of genera and tribes the following changes are made in Col. Cat. 118 and 120:

Oxynychus Lec. is recognized as genus for 1093S.

Pentilia and Pentiliini are used for Microweisea and Microweiseini.

Exoplectra is placed in tribe Exoplectrini.

Rhizobiini are consolidated with Coccidulini.

Psyllobora is placed in Coccinellini.

Cycloneda and Olla are in Synonychini.

Cleis is changed to Mulsantina Ws. 06-34.

Arawana is suppressed in Chilocorus.

Brumus is recognized as valid genus.

The taxonomic changes proposed by Korschefskey are numerous in nearly every genus. They are as follows:

## Hyperaspis

Unnumbered names under 10877, 10922, 10923, and 10930, are called aberrations.

The unrecognized names festiva, floridanus, and annularis, are treated as good species.

The species mendica Muls. 53-232 is included.

10874a is treated as an aberration. The species subsignata Cr. 74-226 is valid.

19739a may be a good species (pp. 192, 198, 586).

1093S is transferred to Oxynychus.

## Brachyacantha

The variety americana Leng 11-302, is said to occur in Ky., Kan., Tex. 10974a is treated as syn. of 10974.

10974b. fulvopustulata Melsh. 47-178.

10972d. troglodytes Muls. 50-534, ab. of 10972.

stellata Csy. syn. of 10972d.

uteella Csy. ab. of stellata.

## Microweisea

10991. caseyi n.n. Korsch. 31-223 for minuta || Csy.

## Scymnus

The first four of the unrecognized species in our catalogue are treated as valid.

guttiger Muls. is called ab. of 11093.

marginellus " " " " "

11011a is syn. of 11011.

## Scymnus

21860. lowei Muls. 50-980, described from Mex. La. Tex. Cal.

19759. minor n.n.

11014. read postpinctus.

11067. calaveras Csy. 99-150 treated as valid.

11033. reverse synonymy.

11115a. (including caseyi Ws. n.n.) treated as syn. of 11115.

femoralis Say is treated as ab. of 11115.

## Novius

11130 is transferred to Rodolia.

## Psyllobora

11150. borealis, separata, deficiens, called ab.

Four Boh. Eugen. Resa. names are revived.

## Anisosticta

11154. is treated as strigata Thunb. 95-113 with bitriangularis Say and multiguttata Rand. as ab.

21861. novemdecim-punctata L. 58-306 as good sp. with irregularis Ws. as ab.

## Ceratomegilla

11158. is treated as maculata DeG. with fuscilabris Muls. (= strenua Csy.), and medialis Csy. 99-76, as aberrations.

## Adonia

11160. is treated as palæarctic.





**Hymenorus**

21885. papagonis Fall 31-201 Ariz.  
 21886. parvus Fall 31-203 L.Cal.  
 21887. semirufus Fall 31-203 Fla.  
 21888. capensis<sup>1</sup> Fall 31-205 L.Cal.  
 21889. jacobinus Fall 31-206 So.Cal.  
 21890. digressus Fall 31-206 So.Ariz.  
 21891. montivagus Fall 31-207  
     So.Cal.  
 21892. inutilis Fall 31-208  
     Nev. Ut.  
     N.Mex.  
 21893. trivialis Fall 31-210 L.Cal.  
 21894. fuscipennis<sup>1</sup> Fall 31-211  
     Fla.  
 21895. caducus Fall 31-213 Ala. Fla.  
 21896. thoracicus Fall 31-214 So.Cal.  
 21897. disparatus Fall 31-215 Tex.  
 21898. oblivius Fall 31-216 Tex.  
 21899. alienus Fall 31-217 Ariz.  
 21900. idoneus Fall 31-218 Ariz.  
 21901. tritus Fall 31-219 Ariz.  
 21902. incertus<sup>1</sup> Fall 31-220 Ariz.  
 21903. tenuistriatus Fall 31-226  
     Ala. N.C.  
 21904. brevis<sup>1</sup> Fall 31-230 Ariz.  
 21905. rufovalis<sup>1</sup> Fall 31-230 Ariz.  
 21906. simidus<sup>1</sup> Fall 31-232 Tex.

**Hymenorus**

21907. exilis<sup>1</sup> Fall 31-233 Ariz.  
 21908. facetus<sup>1</sup> Fall 31-234 L.Cal.  
 21909. horrescens Fall 31-235  
     Tex. N.Mex  
 21910. milleporus Fall 31-236 Ariz.  
 21911. nevadensis Fall 31-236  
     Nev.  
 21912. significans<sup>1</sup> Fall 31-237 Tex.  
 21913. conicicollis<sup>1</sup> Fall 31-239  
     Ga.  
 21914. quietus<sup>1</sup> Fall 31-240 Mo.  
 21915. texensis Fall 31-241 Tex.  
 21916. heteropygus Fall 31-241  
     Fla.  
 21917. inopiatus Fall 31-242 Fla. Ga.  
 21918. crinitus Fall 31-244 Ariz.  
 21919. liebecki Fall 31-245 Ariz.  
 21920. quadricollis Fall 31-246  
     Tex.  
 According to Fall 31:  
 21921. obesus Csy (= pilosus†Csy. nec  
 Melsh.)  
 11280 (=11270)  
 11287 (=11285)  
 11288 (=11289)  
 11266 (=19764)

**TENEBRIONIDÆ**

Blaisdell 31, 32,

**Nyctoporis**

21922. vandykei Blais. 31-41 Cal.  
 11702 (= 11703) fide Blais. 31

**Apsena**

- 11916a. rufescens Blais. 32-56  
     L.Cal.  
 21923. insularis Blais 32-58 L.Cal.  
 11918a. subvestita<sup>1</sup> Blais. 32-68  
     So.Cal.  
 21924. barbarae Blais. 32-61 So.Cal.  
 21925. leachi Blais. 32-70 Cal.  
 11920a. opaca Blais. 32-81 So.Cal.  
 11920b. simplex Blais. 32-84 Cal.  
 11920 (= 19840) fide Blais. 32

**Eleodes**

21926. tanneri Blais. 31-74 Utah  
 21927. strumosa Blais. 31-76 Ut.Nev.  
 paradoxa Blais. 31-78 n.n.  
 for 11961h.  
 patulicollis Blais. 31-78 n.n.  
 for 11988b.

**Helops**

21928. fresnoensis Blais. 31-44  
     Cal.

**Talanus**

21929. stenochinus Lec. (= 12484)  
 fide Fall 32-145

**MONOMMIDÆ**

Schenkling, Col. Cat. pars 117.

**Hyporhagus**

lecontei Thom. is syn. of lævipunctatus from Cent. & So. Amer.

**PTINIDÆ****Ptinus**

21930. raptor Str. fide Schffr. 31-176  
 †Eur. N.Y.

## ANOBIIDÆ

## Ernobius

21931. schedli Brown 32-9 Ont.

## BOSTRICHIDÆ

## Tetrapriocera

12872. synonymy should be reversed,  
fide VanDyke

## SCARABÆIDÆ

Brown 31, 32; Fall 32; Barrett 31, 32; Chapin 31; Dawson 32;  
Sim 31, 32; Schaeffer, 31; R. Hopping 31; Saylor 32.

## Phanaeus

19944 and 19945 belong here.

## Aegialia

21932. convexa Fall 32-183 So. Cal.  
 13102a. nigrella Brown 31-47 Cal.  
 13102b. punctata Brown 31-47 Cal.  
 (*Leptaegialia* Brown 31-12)  
 21933. humeralis Brown 31-13 (genotype)  
 Ont. N.H.  
 N.Y.  
 21934. montana Brown 31-14 B.C. Wyo.  
 Colo.  
 (*Anomalaegialia* Brown 31-15)  
 13106. spissipes Lec., genotype  
 (*Psammoporus* Thoms. 63-92)  
 (*Dimalia* Muls. 71-406)  
 21935. opaca Brown 31-17 B.C. Alta.  
 21936. terminalis Brown 31-18  
 Alta. Colo.  
 21937. nana Brown 31-19 Mass.  
 21938. criddlei Brown 31-42 Man. Ont.  
 Alta.

*Micraegialia* Brown 31-11

13101. pusilla Horn. genotype

## Aphodius

21939. testaceiventris Fall 32-185  
 Kan.  
 21940. incommunis<sup>1</sup> Fall 32-186  
 B.C.  
 21941. fortunus<sup>1</sup> Fall 32-187 Ariz.  
 21942. claudus Fall 32-188 Tex.  
 21943. crenicollis<sup>1</sup> Fall 32-189 Cal.  
 21944. ruficlarus<sup>1</sup> Fall 32-189 Ariz.  
 13117 is valid. fide Fall.  
 21945. vandykei Barrett 31-101  
 Cal.  
 13205a. sheldoni Barrett 32-172  
 Cal.  
 21946. tuberosus Barrett 32-240  
 Cal.

## Atenius

13216b. exiguus Brown 32-10 Fla.

## Psammobius

21947. armaticeps Fall 32-190  
 Fla. Ga.

## Psammobius

21948. blandus<sup>1</sup> Fall 32-191 Tex.  
 21949. mimeticus Fall 32-192 L. Cal.  
*Lichnanthe* Burm. 44-26  
 13313 to 13319 belong in this genus.  
 which is not a synonym of  
*Amphicoma*,  
 fide Chapin i litt.

## Serica

21950. imitans Chapin 31-5 N.J.  
 21951. chaetosoma Daws. 32-529  
 Cal.  
 21952. ventura Daws. 32-530 Cal.  
 21953. personata Daws. 32-531  
 Cal.  
 21954. caliginosa Daws. 32-532  
 Cal.  
 21955. acicula Daws. 32-533 Cal.  
 21956. pavonia Daws. 32-533 Cal.  
 21957. falli Daws. 32-534 Cal.  
 21958. ligulata Daws. 32-535 Cal.  
 21959. praetermissa Daws. 32-536  
 Cal.  
 13355. georgiana Leng,  
 fide Daws. 32 N.H.-Tex.  
 21247. is subsp. of 19974, fide Daws. 32  
 19966. is syn. of *atricapilla* Kby.  
 13372a. blatchleyi Daws. 32-545  
 Mass. N.C.  
 21960. similis Lewis 95-391 Japan, N.Y.  
*brunnea*† Schffr. 31-176,  
 fide Sim 32-381

## Diplotaxis

21961. mus<sup>1</sup> Fall 32-192 Ariz.  
 21962. protensa Fall 32-193 N. Mex.  
 21963. villosipes<sup>1</sup> Fall 32-193 Cal.  
 21964. futilis<sup>1</sup> Fall 32-194 Ariz.  
 21965. producta Fall 32-195 Tex.  
 21966. pinalica Fall 32-196 Ariz.  
 21967. deserta Fall 32-196 Cal.  
 21968. incuria Fall 32-196 Nev.  
**Phyllophaga**  
 21969. contaminata<sup>1</sup> Fall 32-197  
 L. Cal.  
 21970. extranea<sup>1</sup> Fall 32-198 L. Cal.

**Listrochelus**

21971. plenus Fall 32-199 Ariz.  
21972. juvenilis Fall 32-200 Ariz.

**Thyce**

21973. bidentata Fall 32-201 Cal.  
13633 to 13637 are 13645,  
fide Fall 32

**Dichelonyx**

21974. deserta R. Hopp. 31-236  
Cal.

**Dichelonyx**

21975. columbiana R.Hopp. 31-236  
B.C.

21976. vandykei Saylor 32-284  
Cal.

**Pocalta \***

21977. leonina Fall 32-203 So.Cal.  
According to Fall 32:  
13775 (= 13776, 13777, 13778),  
13781 (= 13780)

**LUCANIDÆ**

**Diphyllostoma**

21978. linsleyi Fall 32-160 Cal.

**CERAMBYCIDÆ**

R. Hopping 31, 32; Linsley 31, 32; Schaeffer 32; G. R. Hopping 32.

**Asemum**

(Liasemum Csy.)  
Fide R. Hopping 31 the species  
14118 and 14119 are valid but not  
generically distinct from Asemum.  
All the species under Asemum are  
synonyms of 14112.

**Vandykea** Linsley 32-118

21979. tuberculata Linsley 32-118  
Cal.

**Haplidus**

21980. palpalis<sup>1</sup> Linsley 32-114  
Ariz.  
21981. antennatus Linsley 32-115  
Cal.  
14150 (= 20017),  
fide Linsley 32-114

**Oeme**

21982. rotundicollis Linsley 32-116  
Tex.

**Eucrossus**

14145 (= 20011) fide Linsley 32

**Idoemea**

This genus not distinct  
from Styloxus,  
fide Linsley 32

**Methia**

21983. fragilis Linsley 32-121 Cal.

**Romaleum**

14199 (= 14200), fide Schffr. 32-152

**Pidonia**

21984. quadrata R.Hopp. 31-233  
B.C.Vanc.

**Anoplodera**

21286. rubra L. (= planata S. & H.),  
fide R.Hopp. 32-72

**Necydalis**

21985. diversicollis<sup>1</sup> Schffr. 32-152  
Utah

**Molorchus**

21986. eburneus Linsley 31-37  
Cal.

**Poecilobrium**

21987. gibsoni R.Hopp. 31-234  
B.C.

**Anacomis**

14614b (= 14614d), fide R.Hopp. 31

**Clytini**, fide G. R. Hopping 32:

Megacyllene suppressed in Cyllene  
14691 (= 14690, 14689,  
14686, 14687, and 14688)  
14680 (= 14681, 14682)  
14691c is a good sp. N.B. Me.,  
N.Y. Pa.

14699 (= 14700)  
14726 (= 20110, 20111)  
14711 (= 14711a, 14710)

14708 (= 14709)  
14705 (= 14706)  
14728 (= 14729), and goes in  
Clytus

14730 (= 14731, 14732)

14734 (= 14735)

14736 (= 14737, 14738)  
Rhopalopachys suppressed in  
Neoclytus  
Microclytus and Cyrtophorus  
excluded

**Tragidion**

21988. texanum Schffr. 32-152  
Tex.

**Pogonocherus**

According to Schffr. 32-154:  
15059. is not a var. of 15064  
20144. is a syn. of 15064  
21989. (schaefferi Linsl. i. litt.) n.n.  
for vandykei Schffr. 32-153  
Cal.

\* Paracotalpa Ohaus 15-256 (= Pocalta Csy. 15-92), and Parabyrsopolis Ohaus 15-256 (= Parareoda Csy. 15-99), fide Chapin.



## CHRYSOMELIDÆ

Blake 31; Beller and Hatch 32; Carr 32; Fall 32; Hatch and Beller 32;  
Johnson 31; Schaeffer 31, 32; Spaeth 32.

**Pachybrachys**

Opinions differ as to spelling;  
some prefer Pachybrachis

**Cryptocephalus**

21990. pallidicinctus<sup>1</sup> Fall 32-21  
So. Cal.  
21991. apicedens<sup>1</sup> Fall 32-22 N. Mex.  
21992. merus Fall 32-23 Tex. Ariz.  
21993. cuneatus<sup>1</sup> Fall 32-24 Ga.  
21994. ochraceus<sup>1</sup> Fall 32-25 Fla.

**Myochrous**

21995. movallus Johnson 31-148  
So. Dak.

**Chrysochus**

15628 is subsp. of 15627,  
fide Beller & Hatch 32\*

**Lina**

- 21364c. quadriguttoides Beller &  
Hatch 32-98 Wash.

**Phyllodecta**

21996. aklaviki Carr 32-192 N.W.T.

**Trirhabda**

21997. adela Blake 31-14 Ut. Ill.-  
Cal.  
21998. borealis Blake 31-16 Mass.-Wash  
21998a. indigoptera Blake 31-17  
So. Dak.-Ill.  
21999. neoscotiæ Blake 31-17 N.S.  
22000. viridicyanea Blake 31-19  
Wis.-Alta.

22001. pilosa Blake 31-20 Wyo.-Cal.  
22002. confusa Blake 31-27 So. Cal.  
22003. sericotrachyla Blake 31-28  
So. Cal.

15724. bacharidis is correct name,  
fide Blake 31

**Derospidea** Blake 31-32

15725 (genotype) and 15739,  
fide Blake 31

**Coraia** Clark 65-323

15741 belongs here, fide Blake 31

**Galerucella**

22004. spiræophila Hatch & Beller 32-107  
Wash. Or.  
15752a. pallida (ab. nov.) Beller &  
Hatch 32-109 Wash.

**Monoxia**

- 15755a. texana Schffr. 32-237 Tex.

**Phyllobrotica**

22005. antennata Schffr. 32-237  
Tenn.  
22006. stenidea Schffr. 32-238  
N.Y. Pa.  
D.C.

**Pseudoluperus** Beller & Hatch 32-115

22007. bakeri Beller & Hatch 32-115  
Wash.

**Luperus**

- 15822a. asclepiadis Schffr. 32-238  
B.C.  
(*Calomicrus* Steph. 34-293)  
22008. pallipes Beller & Hatch 32-113  
Wash.  
22009. concavus Beller & Hatch 32-114  
Wash.

**Monolepta**

15857 (= 15813), fide Schffr. 32

**Homophæta**

15891. cyanipennis Fab. 98  
(= æquinoctialis‡)  
var. octomaculata Cr.,  
fide Blake 31-76

**Disonycha**

22010. latiovittata Hatch & Beller 32-108.  
Wash. Mont.  
22011. brevicornis Schffr. 31-281  
Colo.  
22012. nigriventris Schffr. 31-282  
Or. Id. Mont.  
22013. neglecta Schffr. 31-283  
Kan.-Or.  
22014. punctipennis Schffr. 31-284  
Ia. Minn.  
22015. stenosticha<sup>1</sup> Schffr. 31-285  
Tex.  
22016. laticollis Schffr. 31-284  
N.Y.

According to Schffr. 31:  
15896b. puncticollis Lec. Cal.  
15896c. punctigera Lec. Kan. W. St.  
20204a. (= 20205)  
21375. uniguttata Say (= 15895b)  
22017. procera Csy. (= pallipes‡ Blake)

**Haltica**

22018. kalmiæ viridana Schffr. 32-240  
Va. Md. N.C.  
Tenn.  
22019. oregonensis Schffr. 32-241  
Oreg.  
22020. subopaca Schffr. 32-242  
Ariz.

**Derocrepis** Weise 86-730

According to Schffr. 32:  
15969 and 15970 belong here  
15971 belong in Chalcoides

**Hippuriphila**

22021. equiseti Beller & Hatch 32-127  
Wash.

**Systema**

22022. discrepans Schffr. 32-244  
Ariz.  
22023. variata Schffr. 32-243 Ariz.  
16029a. corni Schffr. 32-244 Ala.

**Physonota**

22024. pacifica Spaeth 32-198  
Cal.

\* These authors have proposed a number of changes in the rank of names heretofore in use, and in synonymy. They follow Maulik 25 in the use of *Chrysolina* Mots. for *Chrysomela*, and *Chrysomela* L. for *Lina* (or *Melasoma*). In some of these changes we await the confirmation of other American authors,

## MYLABRIDÆ

Bridwell 32

The name Bruchidæ is used by Bridwell, who proposes subfamilies Bruchinæ, Pachymerinæ, Amblycerinæ, Kytorhininæ (for 21418), and Eubaptinæ (not N. Am.).

## PLATYSTOMIDÆ

(Anthribidæ) Jordan 31-281

## Brachytarsus

22025. franseria Barrett 31-188  
Cal.

## CURCULIONIDÆ \*

## Auletes

22026. mariposæ Zimm. 32-181  
Cal.

## Rhynchites \*\*

Voss, Koleop. Rund., XVIII, 1932,  
153-189, Monogr. der  
Rhynchitinae.—Tribus Rhynchitini.  
In this incomplete work Voss  
proposes the following changes and  
additions:

## Coenorhinus Thoms. 59-130

(*Merhynchites* \*\*)  
16348 and form ventralis  
Voss 32-176  
cerdonis Voss 32-176 (Schauf. i.l.)  
Calif.  
mandibularis Voss 32-176  
Calif.  
intermedius Voss 32-176  
Calif.  
homocidea Voss 32-177 (Schauf. i.l.)  
Western  
N.A.

a luctuosa Voss 32-177  
(*Psclaphorhynchites* \*\*  
Schilsky 03-H.)  
16357 16360, 16361  
micans Voss 32-183 N.Am.  
sanguinipes Voss 32-184  
Nevada

## Attelabus

(*Ilimatolabus*)  
According to Fall 31:  
22027. axillaris Gyll. Ariz.Mex.  
21442 is not from Cal.  
21441 is syn. of rhois,

## Listronotus

According to Buchanan 32-7:  
16790 (= ? 16792)  
16801 (= 16790†Weed)

## Pissodes

16849 (= 16850),  
fide Dietrich 31-872

## Steremnius Schon. 36-242

(*Paaplithus* Faust).  
22028. tuberosus Boh. 36-243,  
fide Marshall 32-355 Alas.

## Hylobius

16874. congener n.n.  
(= confusus||Kby.) Col. Cat. 122

## Helipus (nec Heilipus)

16877. reverse synonymy.

## Myrmex

According to Marshall 32-345:  
17103. lineata (Pasc.) 72-454  
vittatus Horn 73-448

## Tachypterellus

17186a. magna List. 32-10 Colo.  
17187a. cerasi List. 32-8 Colo.

## Cureulio

17161 (= 21509), fide Col. Cat. 122  
haroldi is not N.Am.,  
fide Col. Cat. 122  
?. coccinæ Patton, Ent. News, 97-76

## Anacentrus Buch. 32-330

Includes fide Buchanan:  
22029. subnudus Buch. 32-330 (genotype)  
La.

17626 (= 17625)  
17630 (= 20520, 20521, 30522),  
17650 (= 20516),  
17624 (= 20519),  
20512

## Oligolochus

(*Anacentrus* s. str.), fide Buch. 32  
17622

\* The changes proposed in Col. Cat. pars 114 and pars 122 and 123 are as follows:

The subfamily Eremninae includes 16499-16500; the subfamily Leptopinae includes 16501-16592; the subfamily Cylindrorrhininae includes 16772-16838; the subfamily Hylobiinae includes 16870-16880, 18008-18012 and 17441-17442.

The subfamily Leptopinae is divided into the four tribes: Dirotognathini, Promecopini, Leptopini (= Tropiphorini) and Ophryastini.

The subfamily Hylobiinae is divided into the four tribes: Hylobiini, Liparini, Anchonini, and Sternechini.

The changes in generic and specific names are noted in our text.

\*\* The work of Voss is so incomplete that we think it better, at the present time, to merely call attention to the proposed changes and additions.

**Ceutorhynchus**

22030. *opertus* Brown 31-119 B.C.  
 22031. *carteri* Brown 31-120 Alta.  
 22032. *handfordi* Brown 31-120 Man.  
 22033. *dubitans* Brown 31-121 Sask.

**Perigaster**

17824. reverse synonymy, fide Buch. 31  
 22034. *longirostris* Buch. 31-323  
                                           Ont. N.J.  
                                           Wash.

**Phytobius**

17845. belongs in *Litodactylus* Redt.,  
           fide Brown 32-11  
           (*Eubrychiopsis*)  
 22035. *albertanus* Brown 32-11 Alta.

**SCOLYTIDÆ****Phæosinus**

22036. *variolatus* Bruck 31-126 Cal.  
 22037. *aciculatus* Bruck 31-127 Ariz.

**Gnathotrichus**

22038. *denticulatus* Blackm. 31-270 Colo.N.Mex.  
                                                                                           Tex. Ariz.  
 22039. *alni* Blackm. 31-271 Colo.  
           (*Gnathotrichoides* Blackm. 31-267)  
 22040. *aciculatus* Blackm. 31-272. B.C. Wash.  
                                                                                           Ore. Cal.  
                                                                                           Ariz.N.Mex

**Pseudopityophthorus**

22041. *fagi* Blackm. 31-228 W.Va.  
 22042. *pubescens* Blackm. 31-229 N. C.  
 22043. *granulatus* Blackm. 31-230 Ariz.  
 22044. *agrifoliæ* Blackm. 31-230 Cal.  
 22045. *pulvereus* Blackm. 31-232 Ariz.  
 22046. *yavapaii* Blackm. 31-233 Ariz.  
 22047. *opacicollis* Blackm. 31-235 Ariz.

**Pityophthorus**

22048. *smithi* Schedl. 31-163 B.C.  
 22049. *pygmæus* Schedl. 31-165 Que.  
 22050. *pilifer* Schedl. 31-166 Ont.

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 Dimmock, G. W., d. May 17, 1930.  
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SECOND SUPPLEMENT TO  
CATALOGUE OF NORTH AMERICAN COLEOPTERA  
DESCRIBED AS FOSSILS

By H. F. WICKHAM

The few fossil beetles described as new in the years 1927 to 1932 inclusive are listed below. Some changes in family assignment are also noted. New abbreviations requiring mention follow.

Ark. Eoc.	Wilcox Clays
Dak. Cret.	Fox Hills, So. Dak.
New Mex. Jur.	Jurassic, east of Santa Rosa.
Oreg. Olig.	Lower John Day Beds.
Tenn. Eoc.	Wilcox Clays.
Vanc. Pleist.	Vancouver Island.
Wash. Mioc.	Beds near Spokane, formerly listed as Eocene.

**CARABIDÆ**

<b>Pterostichus</b> Bon.	Carabites Heer
fernquisti Wickh. 31-318	Wash. Mioc. russelli Ckll. 28-37
	Dak. Cret.

**DYTISCIDÆ**

<b>Dytiscus</b> , L.	
latahensis Wickh. 31-318	Wash. Mioc.

**GYRINIDÆ**

<b>Protogyrininus</b> Hatch 27a-92	
confinis (Scudd.) 00a-80, nec Lec.	
= sculpturatus (Mjög.).	Europe.

**PAUSSIDÆ**

<b>Paussopsis</b> Ckll.	
Does not belong in Paussidae, according to Wasmann 26-25	

**ELATERIDÆ**

<b>Adelocera</b> Latr.	
perantiqua Ckll. and LeVeque 31-359	Roan Mt. Eoc.
<b>Elater</b> , L.	
berryi Wickh. 29-148	Tenn. Eoc.

**TENEBRIONIDÆ**

<b>Tenebrionites</b> Ckll.	
alatus Ckll. 27c-587	Flor. Mioc.



**MELANDRYIDÆ**

*Silpha colorata* Scudd. belongs here, according to Hatch 27b-369.  
Compared with *Emunesa connectens* Newm.

**SCARABAEIDÆ****Phyllophaga** Harr.

*disrupta* Ckll. 27c-587 Flor. Mioc.

**Melolonthites** Heer

*collinsi* Wickh. 29-149 Tenn. Eoc.

**PASSALIDÆ****Passalus** Fab.

? *indormitus* Ckll. 27a-65 Oreg. Olig.

**CERAMBYCIDÆ****Criocephalus** Muls.

? *pavitus* Ckll. 27c-585 Flor. Mioc.

**CHRYSOMELIDÆ****Donacia** Fab.

*connelli* Ckll. 27b-304 Vanc. Pleist.

**CURCULIONIDÆ****Otiorhynchites** Fritsch

*wilcoxianus* Wickh. 29-149 Ark. Eoc.

**Curculionites** Heer

*hylobioides* Northrop 28-32 Dak. Cret.  
*vulpinus* Northrop 28-36 Dak. Cret.  
*northropi* Ckll. 28-37 Dak. Cret.

**POSITION UNCERTAIN****Xiphenax** Ckll. 31--97

*jurassicus* Ckll. (larva) 31-97 New Mex. Jur.

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