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FIFTH SUPPLEMENT
1939 to 1947 (inclusive)

TO

THE LENG CATALOGUE

OF

COLEOPTERA

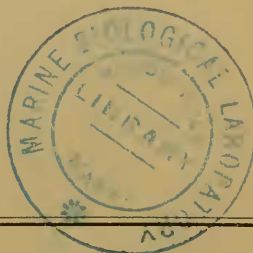
OF

AMERICA, NORTH OF MEXICO

By

RICHARD E. AND RUTH M. BLACKWELDER

MOUNT VERNON, N. Y.
JOHN D. SHERMAN, JR.
OCTOBER
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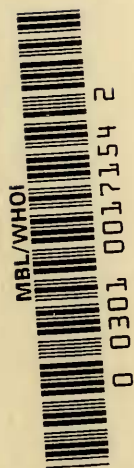
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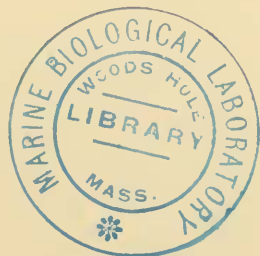
AMERICA, NORTH OF MEXICO

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U. S. National Museum



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MOUNT VERNON

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INTRODUCTION

This fifth supplement to the Leng Catalog of North American Coleoptera is offered by the compilers and by the publisher in lieu of the much desired new catalog. Many difficulties have continued to make it impossible to prepare a new edition of the catalog, and it is hoped that another supplement will be of some help in bringing the old catalog up to date.

The form of the fifth supplement is the same as that of the fourth. The remarks in the Introduction to the Fourth Supplement apply equally here. A list of signs and abbreviations appears on page 6 of the Fourth Supplement.

Grateful acknowledgment is made to more than 150 coleopterists who have checked preliminary lists of their publications and to the many who have sent in corrections and manuscript notes for inclusion in the text.

SIGNS AND ABBREVIATIONS

- * indicates a revision of the genus (or other group).
- *** indicates the end of a revision or of a subgenus.
- { before locality indicates that it applies to line above.
- || indicates a preoccupied name.
- a. aberration.
- f. form.
- r. race.
- s. subspecies.
- v. variety.

Meligethinæ

- Meligethes** Steph. 30-30³⁹
 * ACANTHOGETHES Rtrr. 71-49
 pinguis Horn 79-314 Nfld.
 MELIGETHES s.str.
 sævus Lec. 59-6 Tenn.-N.M.-Mont.
 seminulum Lec. 57-37 Mass.-Y.T.-Ore.
 æneus (Fab.) 75-78 Me.-Tenn. N.M.-
 [B.C.]
brassicæ Rtrr. 75-16 (not Scop.)³³
moerens Lec. 57-37³³
rufimanus Lec. 57-37³³
californicus Rtrr. 71-33³³
 mutatus Harold 68-827 N.Y.-Cal.
ruficornis Lec. 59-6 (not Heer)³³

Cryptarchinæ³⁵**Pityophagus****Cryptareha**

- Glischrochilus** Rtrr. 73-162³⁹
 * obtusus (Say) 35-168 N.Y.-S.C.-La.-
 sanguinolentus (Oliv.) 90-8 [Mich.]
 s.sanguinolentus s.str. Que.-Fla.-Tex.-
 [B.C.]
 s.rubromaculatus (Rtrr.) 73-161 Que.-
 [Fla.]
 fasciatus (Oliv.) 90-12 Que.-Fla.-N.M.-
f-maculosa Melsh. 44-107³³ [B.C.]
geminatus Melsh. 44-108³³
 siepmani Brown 32-259 Que.-N.Y.-B.C.
 quadrisignatus (Say) 35-169
 s.quadrisignatus s.str. N.H.-Fla.-Utah
similis Melsh. 44-108³³
bipustulatus Melsh. 44-108³³
bipunctatus Melsh. 44-108³³
sexpustulatus Rtrr. 73-161³³
 s.canadensis Brown 32-259 Que.-S.C.-
 [N.M.-B.C.]
 vittatus (Say) 35-170 Que.-N.C.-Cal.-
dejeani (Kby.) 37-107³³ [Alas.]
sepulcralis Rand. 38-19³³
 confluentus (Say) 23-195 Ont.-Ga.-Nev.
 moratus Brown 32-261 Ont.-B.C. Tex.
 lecontei Brown 32-262 Man.-N.M.-Cal.-
 [B.C.]
cylindricus (Lec.) 63-64 (not Oliv.)

MONOTOMIDÆ**Hesperobænus**

- fenyesi VanD. 45-102 Cal.

CUCUJIDÆ**Inopeplus**⁴³**DERODONTIDÆ****Laricobius**

⁴³ Transferred to Staphylinidæ by Blackwelder
 —42; returned to Cucujidæ by Paulian—46.
⁴⁴ Brown—44.

- rubidus Lec. 61-198⁴⁴ Que.-D.C.-Mich.
erichsonii of authors⁴⁴
 nigrinus K.Fend. 45-152 Ore. B.C.

MYCETOPHAGIDÆ**Mycetophagus**

- pluriguttatus Lec. 56-13
 s.franciscanus VanD. 39-17 Cal.

Berginus Er. 48-405⁴⁵

- californicus Pierce 39-53 Cal.

COCCINELLIDÆ**Hyperaspis** Redt. 43-08⁴⁶

- * I
 I
 levrati (Muls.) 50-613 Wyo.-Tex.-Ariz.
metator (Csy.) 08-413⁴⁶ [Mex.]
 revocans Csy. 08-419
 s.revocans s.str. Ut.Ariz. Cal.
 s.occidentalis Dobz. 41-6 Cal.
 II
 octonotata Csy. 99-121 Colo.-N.M.-Cal.
 bensonica Csy. 08-418 [Mex.]
 s.bensonica s.str. Colo.-N.M.-Cal. Mex.
 s.disrupta Dobz. 41-9 Cal.
 chapini Dobz. 41-10 Ida.
 III
 pratensis Lec. 80-188
 s.pratensis s.str. N.J.-N.C.-Iowa
triplicans Csy. 24-163⁴⁶
microsticta Csy. 24-163⁴⁶
 s.medialis Csy. 99-123⁴⁶ Tex. Ariz.
 s.æmulator Csy. 08-413⁴⁶ ?Iowa. Ariz.
 conspirans Csy. 08-414 Tex. Ariz.
 gemma Csy. 99-123 Tex.-Cal. Mex.
 fastidiosa Csy. 08-414
 s.fastidiosa s.str. Colo.-Ariz.-Cal.-Ore.
 s.septentrionis Dobz. 41-15 Wyo. Ida.
 [Ariz.]
 IV
 lateralis Muls. 50-657
 s.lateralis s.str. Colo.-Tex.-Cal. Mex.
lævipennis Csy. 99-122⁴⁶
pinguis Csy. 99-122⁴⁶
 s.montanica Csy. 99-121⁴⁶ S.D.-Colo.-
 [Cal.-B.C.]
 s.flammula Nunen. 11-72⁴⁶ Alb.-Colo.-
 [Mont.]
 s.nigrocauda Dobz. 41-17 Colo.-N.M.-
 [Cal.]
 s.omissa Csy. 99-122⁴⁶ Ut.-N.M.-
 [Cal.]
 s.wellmani Nunen. 11-72⁴⁶ Ut.-Wash.-
 [Cal.]
 s.idæ Nunen. 12-450⁴⁶ Cal.
 excelsa Fall 01-232 Cal.
 tædata Lec. 80-187 Fla.
 lugubris (Rand.) 38-52 Mass.-Colo.-Tex.
jucunda Lec. 52-134⁴⁶
lecontei Cr. 74-233⁴⁶
venustula Muls. 50-671⁴⁶
separata Csy. 24-165⁴⁶

⁴⁵ Key to species, Pierce—39.

⁴⁶ Dobzhansky—41; revision of genus.

- V
 proba (Say) 26-303
 s. proba s.str. Mass.-Fla.-Ariz.-Minn.
 ?trivifer Csy. 99-123⁴⁶
 s. weisci Schffr. 08-126⁴⁶ Tex.
 globula Csy. 99-124 Tex. Mex.
 VI⁴⁷
 connectens (Thunb.) 08-157 Tex. Ariz.
 lengi Schffr. 05-144⁴⁶ [C.A.
 rotunda Csy. 99-123 Tex. Ariz.
 rotundata Korsch. 31-195⁴⁶
 VII⁴⁷
 binotata (Say) 26-302 Que.-Fla.-Tex.-
 normata (Say) 26-302⁴⁶ Neb. Cal.
 affinis (Rand.) 38-50⁴⁶
 leucopsis Melsh. 47-179⁴⁶
 conviva Csy. 24-163⁴⁶
 insolens Csy. 24-164⁴⁶
 signata (Oliv.) 08-1047 N.Y.-Fla.-Tex.
 pinoruna Csy. 24-162 Del.-Fla.
 ?inedita Muls. 50-684⁴⁶
 hæmatosticta Fall 07-222 N.M. Ariz.
 lewisi Cr. 73-380 N.Y.-N.C.-Ky.
 maneei Csy. 24-163⁴⁶
 leachi Nunen. 34-19 Cal.
 regalis Csy. 99-123 Fla.
 nigrosuturalis Blatch. 18-420 Fla.
 bicentralis Csy. 99-124
 s. bicentralis s.str. Tex. Okla.
 s. major Dobz. 41-33 Ill.
 centralis Muls. 51-685
 s. centralis s.str. L. Cal. C.A.
 s. wickhami Csy. 99-124⁴⁶ Tex.
 s. plagiata Dobz. 41-34 Md.
 oculifera Csy. 08-415 Ariz.
 rivularis Dobz. 41-35 Ky. Ill. Mo.
 tuckeri Csy. 24-162 Ariz.
 bigeminata (Rand.) 38-32 Me.-Fla.-
 guexi Muls. 50-687⁴⁶ [Tex.-Ont.
 gemina Lec. 80-188 Va. N.C.
 uniformis Csy. 24-162 N.C.
 VIII⁴⁷
 postica Lec. 80-188 Ariz.-Cal.-B.C.
 elliptica Csy. 99-126 Mont. Cal.-B.C.
 angustula Csy. 99-127⁴⁶
 nunenmacheri Csy. 08-417 Ida. Cal.-
 [Wash.
 oculaticauda Csy. 99-127 Nev. Cal. Ore.
 effeta Csy. 99-127 Cal. Ore.
 subdepressa Csy. 99-127 Cal.
 IX⁴⁷
 tæniata Lec. 52-134
 s. tæniata s.str. Cal. Ut.
 s. nevadica Csy. 99-125⁴⁶ Ut.-Ariz.-
 [Cal.-Ore.
 s. perpallida Dobz. 41-44 Cal.
 s. pallidula Dobz. 41-45 Cal.
 s. significans Csy. 08-416⁴⁶ Ut. Ariz.
 [Cal.
 v. concurrens Csy. 08-416⁴⁶ Utah
 v. pallescens Dobz. 41-46 Ariz.
 s. rufescens Dobz. 41-47 Tex. N.M. Colo.
 s. cruenta Lec. 80-187⁴⁶ Tex.
 s. cruentoides Dobz. 41-18 Fla.
 s. binaria Csy. 24-165⁴⁶ N.C. Fla.
 osculans Lec. 80-187 Cal.
 pleuralis Csy. 99-125 Tex.-Cal.-Utah
 v. aterrima Csy. 08-416⁴⁶ Tex.-Cal.-
- biornata Nunen. 34-18 [Utah. Mex.
 s. biornata s.str. Cal.
 s. arizonica Dobz. 41-53 Ariz.
 X⁴⁷
 fimbriolata Melsh. 47-180
 s. fimbriolata s.str. N.Y.-Va.-Cal.
 rufomarginata Muls. 50-661⁴⁶
 limbalis Csy. 99-126
 s. atlantica Dobz. 41-55 Va. Fla. Miss.
 s. serena Csy. 08-417⁴⁶ Mass.-N.J.-
 [Mich.
 s. inflexa Csy. 99-126⁴⁶ Man.-N.M.-
 [Mont.
 cincta Lec. 58-89 Ut. Ariz. Cal.
 nupta Csy. 99-126⁴⁶
 protensa Csy. 08-417 Ariz.
 marginata Gaines 33-263 Tex.
 dissoluta Cr. 73-379
 s. dissoluta s.str. Nev. Ariz. Cal.
 s. coloradana Csy. 08-417⁴⁶ Minn.-Ore.-
 [Tex.
 sanctæ-ritæ Dobz. 41-60 Ariz.
 psyche Csy. 99-125 Cal.
 XI⁴⁷
 disconotata Muls. 50-653
 s. disconotata s.str. Mich. Ill. Minn.
 s. troglodytes Muls. 53-219⁴⁶ N.B.-
 discreta Lec. 80-187⁴⁶ Va.-Iowa
 s. canadensis Dobz. 41-63 Alb.
 trifurcata Schffr. 05-143 Tex.
 XII⁴⁷
 undulata (Say) 24-92 Can.-Va.-Tex.-
 maculifera Melsh. 47-179⁴⁶ [Minn.
 elegans Muls. 50-658⁴⁶
 octavia Csy. 08-419 Me.-Va.-Minn.
 paludicola Schz. 78-362 ?Mass. Va.-Fla.
 punctata Lec. 80-188 S.D. Tex. N.M.
 filiola Csy. 08-419 Ariz.
 quadrioculata (Mots.) 45-383
 s. quadrioculata s.str. Cal.
 s. notatula Csy. 99-121⁴⁶ Ariz. Nev.
 [Cal.
 s. scotti Dobz. 41-70 Cal.
 s. fidelis Csy. 08-418 Cal.
 triangulum Csy. 99-123 Tex. Ariz. Cal.
 spiculimota Fall 01-232 Cal.
 simulatrix Dobz. 41-72 Ida. Mont. Wash.
 XIII⁴⁷
 annexa Lec. 52-133 Cal. Ida.
 quadrivittata Lec. 52-133
 s. quadrivittata s.str. Alb.-N.M.-Ariz.-
 Ida.
 s. tetraneura Csy. 08-420⁴⁶ Colo. Ut.
 [N.M.
 oregona Dobz. 41-76
 s. oregona s.str. Wyo. Ida. Ore. Wash.
 s. borealis Dobz. 41-76 Wash. B.C.
 brunnescens Dobz. 41-77 Ill.
 XIV⁴⁷
 mcrens (Lec.) 50-238 Mich. Wyo. Mont.
 consimilis Lec. 52-134⁴⁶
 simulans Csy. 99-128 Ariz.
 XV⁴⁷
 bolteri Lec. 80-186 Ill. Kan.
 jovialis Fall 25-311 Cal.
 californica Dobz. 41-81 Cal.
 esclavium Dobz. 41-82 Miss.

⁴⁶ Dobzhansky—41; revision of genus.⁴⁷ These groups are misnumbered in Dobzhansky—41.

- nubilata Csy. 24-166 N.C. Ga.
asphaltina Csy. 24-166⁴⁶
 XVI⁴⁷
 ?annularis Boh. 59-205 Cal.
 ?horni Cr. 73-371 Cal.
 ?nigropennis Blatch. 24-167 Fla.
 ?pluto Fall 25-311 Cal.
 ?subsignata Cr. 74-226 Tex.
 ?tristis (Lec.) 80-188 Colo.
 * * *
 obscura Malkin 43-110 Ore.
- Hyperaspidius**
 falli (Nunen.) 12-450⁴⁸
 ploribunda (Nunen.) 11-74⁴⁸
 wolcotti (Nunen.) 11-73⁴⁸
 juniperus Nunen. 44-145 Cal.
 rossi Nunen. 44-145 Ore.
 shauli Nunen. 44-145 Tex.
- Brahyacantha**
 carolina (Csy.) 24-164⁴⁸
- Scymnus**
 floridana (Muls.) 50-1040⁴⁸
 sexualis (Csy.) 24-167⁴⁸
 hæmorrhous Lec 52-138
hæmorrhous Malkin 43-193
 fenderi Malkin 43-109 Ore.
 lodi Stehr 46-80 Ohio
 ohioensis Stehr 46-80 Ohio
- Rhizobius**
 (debilis Blackb. 88-201 not No.Amer.)⁴⁹
- Anisostieta** Chev. 35-456
 (*Anisostica* Malkin 43-194)
 borealis Timb. 43-45 Alas.
- Næmia**
 seriata (Melsh.)
 s.seriata s.str. Mass.-Va.-Tex.
 s.decepta (Blatch.)⁵⁰ S.C. Fla. W.I.
- Ceratomegilla** Cr. 73-365
 (*Ceratomagilla* Malkin 43-194)
- Eriopsis** Muls. 51-6
 (*Eriopsis* Timb. 43-10)
- Coleomegilla**
 maculata (Deg.)
 s.lengi Timb. 43-9 N.Y. Ohio
 s.strenua (Csy.) 99-76⁵⁰ Tex.-Cal. Mex.
 s.fusciabris Muls. 66-22⁵⁰ D.C. Fla.
floridana (Leng) 03-38⁵⁰ [La.
- Hippodamia** Dej. 36-456⁵¹
 * I
 13-punctata (L.) 58-366 (not N.Amer.)⁵¹
 s.tibialis (Say) 24-94⁵¹ Me.-D.C.-
 [Cal.-Alas.
 americana Crotch 73-368 Mich.
 falcigera Cr. 73-368 Ida.
 washingtoni Timb. 39-265 Ore. Wash.
 II
 parenthesis (Say) 24-93 Me.-S.C.-Cal.-
tridens (Kby.) 37-229⁵¹ [Alas.
 apicalis Csy. 99-81
 s.apicalis s.str. Colo.-Cal.-B.C.
- s.lengi Johnson 10-55⁵¹ Cal.
nigromaculata Nunen. 34-20⁵¹
 lunatomaculata Mots. 45-382
 s.lunatomaculata s.str. Cal.
parenthesis Csy. 99-81 (part)⁵¹
lunatomarginata Korsch. 32-342⁵¹
 s.dobzhanskyi Chpn. 46-11 Ore. Wash.
 [B.C.
 expurgata Csy. 08-400 S.D.-N.M.-Nev.
 III
 quinquesignata (Kby.) 37-230
 s.quinquesignata s.str. Kan.-Cal.-B.C.
mulsanti Lec. 52-131⁵¹
leporina Muls. 56-344⁵¹
 v.uteana Csy. 08-397⁵¹ Ut.-Cal.
subsiniilis Csy. 99-79⁵¹
vernix Csy. 99-79⁵¹
quadraria Csy. 24-156⁵¹
 s.ambigua Lec. 52-131⁵¹ Cal.-Wash.
obliqua Csy. 99-79⁵¹
 s.punctulata Lec. 52-131⁵¹ Cal.-Wash.
 glacialis (Fab.) 75-80
 s.glacialis s.str. N.H.-S.C.-Colo.
 ?*pseudoglacialis* Johnson 10-23⁵¹
 ?*hoppingi* Nunen. 34-21⁵¹
 s.lecontei Muls. 50-1010⁵¹ Colo.-
 [Ariz.-Ida.
 s.extensa Muls. 50-17⁵¹ Cal.
 s.mackenziei Chpn. 46-19 Cal.
 IV
 quindecim-maculata Muls. 50-20 Wis.-
 [Ill.-Colo.
quinquedecimmaculata Korsch. 32-
 mæsta Lec. 54-19 [343⁵¹
 s.mæsta s.str. Cal.-Wash.
 s.bowditchi Johnson 10-45⁵¹ Colo.-B.C.
 s.politissima Csy. 99-80⁵¹ Cal.
 convergens Guérin 42-321 Can. U.S. C.A.
 caseyi Johnson 10-21 Colo.-Cal.-Wash.
 oregonensis Cr. 73-367
 s.oregonensis s.str. Wash. B.C.
puncticollis Csy. 99-78⁵¹
liliputana Csy. 08-397⁵¹
 s.dispar Csy. 99-79 Colo.
 s.cockerelli Johnson 10-49 Wyo. Colo.
 V
 sinuata Muls. 50-1011
 s.sinuata s.str. Cal. Mex.
trivittata Csy. 99-80⁵¹
 s.crotchii Csy. 99-80⁵¹ Wyo.-N.M.-Cal.
fontinalis Csy. 24-156⁵¹
 s.disjuncta Timb. 19-169⁵¹ N.D.-
 [Colo.-Cal.-Wash.
 s.spuria Lec. 61-358⁵¹ Ore.-B.C.
complex Csy. 99-80⁵¹
 s.straminea Chpn. 46-29 Cal.
 * * *
 apicalis
 s.tricolor Nunen. 46-72 Cal. Ore
 mæsta
 v.bowditchi Johnson
bowdithi Malkin 43-196
- Cycloneda**
 polita Csy.
 s.flava Timb. 43-24 Cal.

⁴⁸ Transferred from *Hyperaspis* by Dobzhansky—41.

⁴⁹ Not established in North America, Flanders in litt.

⁵⁰ Timberlake—43.

⁵¹ Chapin—46; revision of genus.

Cleis Muls.⁵²

- picta Rand. 38-51
blanchardi Johnson 10-72⁵³
 v. *impictipennis* Weise 95-125⁵³

Anisocalvia

- duodecim-maculata (Geb.) 32-76
duodecimguttata Malkin 43-197

Anatis

- rathvoni Lec. 52-132
rhatvoni Malkin 43-198

TENEBRIONIDÆ

Metoponium

- abnorme Lec.
 s. *laticolle* Csy. 07-291⁵⁴ Ariz. L. Cal.⁵⁴
 transversum Blais. 43-174 L. Cal.
 erosum Blais. 43-175 L. Cal.

Telaponium

- pingue Blais. 43-179 L. Cal.

Trimytilis

- PIMALIUS Csy.
ceralboensis Blais. 43-196 L. Cal.

Metopoloba

- subpilosa Blais. 43-199 L. Cal.

Triorophus

- lariversi Blais. 42-132 Nev.

Triphalus

- impressifrons Blais. 43-202 L. Cal.

Triphalopsis

- impressicollis Blais. 43-203 L. Cal.

Stibia

- ferruginea Blais. 43-208 L. Cal.

Orthostibia

- muricata Blais. 43-210 L. Cal.
 fraterna Blais. 43-211 L. Cal.

Edrotes Lec. 51-140⁵⁵

- * (*Pimelia* Say 24-251)⁵⁵
 ODROTES LaRiv. 47-320
 arens LaRiv. 47-320 Ariz.
 EDROTES s. str.
 ventricosus Lec. 51-141 Ida.-Ariz. Cal.
nitidus Csy. 90-175⁵⁵ [Mex.]
orbis Csy. 07-451⁵⁵
angusticollis Csy. 07-452⁵⁵
longipennis Csy. 07-452⁵⁵
mexicanus Blais. 23-241⁵⁵
asperatus Blais. 23-241⁵⁵
laticollis Csy. 24-300⁵⁵
longicornis Csy. 24-300⁵⁵
variipilis Csy. 24-301⁵⁵
 rotundus (Say) 24-251 Colo.-Tex.-Ariz.
globosus Csy. 90-175⁵⁵
inflatus Csy. 07-454⁵⁵
puncticeps Csy. 07-454⁵⁵
intermixtus Csy. 07-455⁵⁵
oblongulus Csy. 07-455⁵⁵
lineatus Csy. 07-455⁵⁵

- subæqualis* Csy. 07-456⁵⁵
angustulus Csy. 07-456⁵⁵
desertus Blais. 43-212⁵⁵

Aræoschizus

- limbatus Blais. 43-214 L. Cal.
 antennatus Blais. 43-215 L. Cal.
 airmeti Tanner 45-125 Utah Ida.

Centrioptera

- (*Oochila* Lec. 62-220, not 66-220)⁵⁶
micelbacheri Blais. 43-227 L. Cal.

Cryptoglossa Sol. 36-680⁵⁷

- * (*Asbolus* Lec. 51-129)⁵⁷
verrucosa Lec. 51-129 Ariz. Nev. Cal.
 s. *carinulatus* Blais. 45-25 Cal.
lævis Lec. 51-130 Ariz. Cal.
 s. *subsimilis* Csy. 24-308 Ariz. Cal.
granulifera Champ. 92-508 Cal. Tex.
 [L. Cal. Mex.]
angularis Horn 94-414 L. Cal.

Stenomorpha Sol. 36-487

- (*Euschides* Lec. 51-127)⁵⁸
tumidicollis Blais. 43-226 L. Cal.
convexa (Lec.) 59-14⁵⁹ Kan.-L. Cal.
 [Mex.]

Argoporis

- apicalis Blais. 43-234 L. Cal.

Eleodes

- rossi Blais. 43-241 L. Cal.
 marthæ Blais. 43-243 L. Cal.
 mexicana Blais. 43-246 L. Cal.
 simondsi Blais. 43-247 L. Cal.
 striatipennis Blais. 42-134 Nev.
 MELANELEODES Blais. 09-33
halli Blais. 41-37 Ariz.
 BLAPYLIS Horn 70-301
oregona Blais. 41-157 Ore.

- * LITHELEODES Blais. 09-34⁶⁰
extricata Say 23-261 Ariz. Tex.-Can.
 s. *convexicollis* Blais. 09-123⁶⁰ Wyo.
 [Mont.]
 s. *arizonensis* Blais. 09-116⁶⁰ Ariz.
 s. *utahensis* Blais. 21-131⁶⁰ Utah
 s. *frigida* LaRiv. 43-54 Nev.
 s. *cognata* Hald. 52-376⁶⁰ Ariz. Utah
arcuata Csy. 84-47 Ariz.
granulata Lec. 57-50 Ore. Cal.
 s. *obtusa* Lec. 61-352⁶⁰ Cal.
 s. *aspera* Lec. 66-115⁶⁰ Colo.
 ? *subaspera* Sol. 48-246⁶⁰
vandykei Blais. 09-136 Cal.
 s. *modificata* Blais. 21-131⁶⁰ B. C.
 s. *parvula* Blais. 09-137⁶⁰ Ore. Ida.
 s. *similis* Blais. 42-142⁶⁰ Ore.
letcheri Blais. 09-133 Nev. Ida.
corvina Blais. 21-224 Cal.
papillosa Blais. 17-226 Cal.
tuberculata Blais. 09-131⁶⁰

Trogloderus Lec. 79-2⁶¹

- * *costatus* Lec. 79-3
 s. *costatus* s. str. Ida.-Ariz. Cal.
 s. *nevadus* LaRiv. 42-437⁶¹ Nev. Cal.

⁵² Nunenmacher—46 uses Mulsantina Weise, in error.

⁵³ Nunenmacher—46.

⁵⁴ Blaisdell—43.

⁵⁵ La Rivers—47; revision of genus.

⁵⁶ Parsons in litt.

⁵⁷ Blaisdell—45; revision of genus.

⁵⁸ Blackwelder—45.

⁵⁹ Transferred from Euschides by Gebien—37.

⁶⁰ Blaisdell—42; revision of subgenus.