

the base of the wing ; 5 weak ; cell open ; 6 out of 7 beyond, not *before*, a slight projection, on 7, which projection indicates the position of the cross vein. It will thus be seen that the neuration differs sensibly from that of the *Bombyciæ* (*Cymatophoridæ* H. S.) The position of vein 5 is different from that in the *Noctuelitæ* ; but attention is called here to the fact that in the genus *Nolaphana* (which possesses ocelli) vein 5 is nearly midway between 4 and 6 on primaries.

Ellida gelida is a gray moth, having a superficial resemblance to *Pseudothyatira expultrix*. The collar is discolorous, pale buff, recalling that of *Pygaera pucephala*, edged with black. The wings are long, costa of primaries convex. Interior line represented by three parallel curved black lines, obsolete inferiorly. A black curved streak in a whitish shading on the disc. Outer and subterminal and basal lines faint. Outer line dentate. Between the subterminal shade and the very narrow even continued terminal line at base of fringes, is a distinct line of blackish brown hue, narrowly interrupted on the veins and inferiorly disconnected in the female specimen before me. Hind wings uniform pale fuscous, with whitish fringes. Beneath whitish fuscous, with a line and spot on hind wings. *Expanse* 42 mil.

SYNONYMY OF THE COLEOPTERA OF THE FAUNA BOREALI-AMERICANA, KIRBY.

BY GEO. H. HORN, M. D., PHILADELPHIA, PA.

Since the reprint of Kirby's *Fauna Boreali-Americana* began, much has been learned concerning the species of Coleoptera therein described or mentioned, so that at the present time very few remain unidentified. Through the kindness of the authorities of the British Museum, every facility was granted to Dr. Leconte and myself for the study of Kirby's types, and the results of these studies have already been made known by Dr. Leconte. It will be noticed in very many places that the synonymy here given differs very greatly from that given by Mr. Bethune, who compiled from the best known sources all that was at the time known or guessed concerning Kirby's species.

The present paper is necessarily in great part a compilation, but sufficient new material is presented to render it worthy of appearing as a whole, so that Kirby's species may be at once determined without the necessity of consulting scattered publications.

A few words are necessary to a correct understanding of the paper. The species named by Kirby are in small capitals. Should names in their entirety remain valid, no remarks are made, as in 1, 16, &c. Should the generic name only be changed, the species is quoted as "is a —," as in 25, 28, 37, &c. Should the specific name be changed, the species is quoted as in 3, &c., and the true name is in small capitals also. In some instances, Kirby's species not having been identified, the species have received more recent names and are well known; in this case the latter name (being a synonym) is quoted in italics, as in 58 and 59, so that those having the Kirbyan species under the more recent names may change them.

1. *Cicindela hirticollis* Say.
2. " *repanda* Dej.
3. " *PROTEUS* Kby., is *DUODECIMGUTTATA* Dej.
4. " *OBLIQUATA* Kby. This is a variety of the species previously described by Say under the name *VULGARIS*. Herbst anteriorly named the species *TRANQUEBARICA* with a false locality.
5. " *vulgaris* Say (see above).
6. " *purpurea* Oliv.
7. " *ALBILABRIS* Kby., is *LONGILABRIS* Say.
8. *Casnonia pensylvanica* Dej.
9. *Cymindis MARGINATA* Kby., is *CRIBRICOLLIS* Dej.
10. " *UNICOLOR* Kby. Subsequently described as *hudsonica* Lec.
11. *Sericoda BEMBIDIoidES* Kby. is a *PLATYNUS*.
12. *Brachinus cyanipennis* Say.
13. *Carabus Vietinghovii* Adams. This species is found in Alaska and extends its habitat toward British Columbia and also toward the Hudson's Bay region. Numerous specimens were collected by the late Robt. Kennicott in Alaska.
14. " *ligatus* Knoch is *VINCTUS* Weber.
15. *Calosoma calidum* Fab.
16. " *FRIGIDUM* Kby.

17. *Helobia* [*Nebria*] *CASTANIPES* Kby. An immature form of *N. SAHLBERGI* Fisch., described anteriorly to Kirby, from Alaska.
18. *Chlaenius sericeus* Forst.
19. " *IMPUNCTIFRONS* Kby. is *PENSYLVANICUS* Say.
20. " *nemoralis* Say.
21. " *QUADRICOLLIS* Kby. is *TRICOLOR* Dej. *var.*
22. " *CORDICOLLIS* Kby. This species, anteriorly to Dr. Leconte's visit to the British Museum (1869), was erroneously considered to be *chlorophanus* Dej.
23. " *EMARGINATUS* (Kby.) The type of this species could not be found in the British Museum. It is not identical with Say's species, and as the name is pre-occupied, it would be better to drop it entirely from our lists.
24. *Platynus ANGUSTICOLLIS* (Kby.) is not the European species of that name, but our common *SINUATUS* Dej.
25. *Agonum extensicolle* Say is a *PLATYNUS*.
26. " *PICIPENNE* Kby. is probably the species subsequently described as *PLATYNUS lutulentus* Lec. The varieties E and D are distinct and are *Plat. RUFICORNIS* Lec.
27. " *SORDENS* Kby. Has been named in some collections *fuscescens* Chaud.
28. " *melanarium* Dej. is a *PLATYNUS*.
29. " *SEMINITIDUM* Kby. Probably the same as *PLATYNUS chalcus* Lec.
30. " *SIMILE* Kby. In doubt.
31. " *AFFINE* Kby. is *PLATYNUS Harrisii* Lec.
32. " *ERYTHROPUM* Kby. The name is pre-occupied and *PLAT. SUBCORDATUS* Lec. must be used.
33. " *cupripenne* Say. is a *PLATYNUS*.
34. *Calathus gregarius* Say.
35. *Platyderus NITIDUS* Kby. is *PTEROST. ERYTHROPUS* (Dej.)
36. *Argutor BICOLOR* Kby. is *PTEROST. PATRUELIS* Dej.
37. " *FEMORALIS* Kby. is a *PTEROSTICHUS*.
38. " *MANDIBULARIS* Kby. is a *PTEROSTICHUS*.
39. " *BREVICORNIS* Kby. Probably the same as *FASTIDIOSUS* Mann. This and the preceding species belong to

the *Cryobius* group of *Pterostichi*, in which the species are very difficult to separate.

40. *Omasus orinomus* Knoch. is a *PTEROSTICHUS*.
41. " *NIGRITA* Curtis (Kby.) This species is erroneously determined by Kirby and does not appear to differ from *PTEROSTICHUS CAUDICALIS* Say, from specimens in my cabinet from Hudson's Bay region.
42. " *PICICORNIS* Kby. is *PTEROST. MUTUS* Say.
43. *Stereocerus SIMILIS* Kby. is *AMARA HAEMATOPUS* (Dej.)
44. *Curtonotus convexiusculus* Steph. (Kby.) Erroneously determined by Kirby: is *AMARA LATICOLLIS* Lec.
45. " *RUFIMANUS* Kby. If the hind angles of the thorax are prominent, as stated by Dr. Leconte (Proc. Acad. 1873, p. 323), this species is rather *LATICOLLIS* than *LACUSTRIS*, as there stated. The species of *AMARA* in this vicinity need a careful revision, when their number will be considerably decreased. No actual comparison of Kirby's and our own types have been made, and any positive expression might mislead.
46. " *BREVILABRIS* Kby. Identical with the preceding species.
47. " *LATIOR* Kby. is *AMARA (Bradytus)*. Described since Kirby as *libera* Lec., *lacvistriata* Putz. and *Oregona* Lec. (See Trans. Am. Ent. Soc., 1875, p. 128).
48. *Poecilus lucublandus* Say is a *PTEROSTICHUS*.
49. " *CASTANIPES* Kby. is a variety of 48.
50. " *chalcites* Say is *PTEROSTICHUS SAYI* Brulle.
51. *Amara VULGARIS* Latr. (Kby.) is not that species, but *ERRATICA* Sturm.
52. " *INAEQUALIS* Kby. is *INTERSTITIALIS* Dej.
53. " *impuncticollis* Say.
54. " *PALLIPES* Kby.
55. " *LAEVIPENNIS* Kby. is a smooth *ERRATICA* Sturm.
56. " *DISCORS* Kby. is *CHALCEA* Dej.
57. *Harpalus PLEURITICUS* Kby.
58. " *BASILARIS* Kby. is *obesulus* Lec.
59. " *OCHROPUS* Kby. is *desertus* Lec.
60. " *INTERPUNCTATUS* Kby. is probably merely a variety of *ANISODACTYLUS NIGRITA* Dej.
61. " *LONGIOR* Kby. is *longicollis* Lec.

62. Harpalus LATICOLLIS Kby. is ANISODACTYLUS NIGERRIMUS Dej.
63. " carbonarius Say is ANISODAC. CARB.
64. " ROTUNDICOLLIS Kby. is AMPUTATUS Say.
65. " STEPHENSII Kby. is AMPUTATUS Say.
66. Stenolophus VERSICOLOR Kby. is FULIGINOSUS Dej.
67. Trechus TIBIALIS Kby. is BRADYCELLUS TIBIALIS.
68. " AUFICRUS Kby. is BRADYCELLUS COGNATUS (Gyll).
69. " FLAVIPES Kby. is BRADYCELLUS RUPESTRIS Say.
70. " IMMUNIS Kby. is STENOLOPHUS CONJUNCTUS Say.
71. " SIMILIS Kby. is AGONODERUS COMMA Fab.
72. Isopleurus NITIDUS Kby. is AMARA SUBAENEA Lec.
73. Patrobus americanus Dej. is LONGICORNIS Say.
74. Peryphus BIMACULATUS Kby. This species of BEMBIDIUM occurs also in Colorado.
75. " SORDIDUS Kby. Immature specimen of the preceding.
76. " SCOPULINUS Kby. is BEMB. *gelidum* Lec.
77. " RUPICOLA Kby. is BEMB. RUPESTRE Fab.
78. " CONCOLOR Kby. is BEMB. *salebratum* Lec.
79. " PICIPES Kby. The type of this is in very bad condition. Uncertain.
80. " quadrimaculatus Linn. is a BEMBIDIUM.
81. " NITIDUS Kby. is a BEMBIDIDM.
82. Tachyta PICIPES Kby. is TACHYS NANUS Gyll.
83. Notaphus NIGRIPES Kby. A BEMBIDIUM which occurs also in Oregon and British Columbia.
84. " INTERMEDIUS Kby. is probably BEMBIDIUM *rapidum* Lec.
85. " VARIEGATUS Kby. The specific name is pre-occupied. It is now known as BEMBID. PICTUM Lec.
86. Bembidium impressum Gyll.
87. OPISTHIUS RICHARDSONII Kby. Occurs in British Columbia, Oregon, Northern California, and Colorado.
88. Elaphrus CLAIRVILLII Kby. for a long time called *politus* Lec.
89. " INTERMEDIUS Kby. This species forms one of the varieties of that known in our collections as *Californicus* Mann. I cannot see any difference between this and the European RIPARIUS.
90. " OBSCURIOR Kby. is probably a small *obliteratus* Mann.
91. Notiophilus aquaticus Linn. (Kby.) is SEMISTRIATUS Say.

SYNONYMY OF THE COLEOPTERA OF THE FAUNA BOREALI-AMERICANA, KIRBY.

BY GEO. H. HORN, M. D., PHILADELPHIA, PA.

(Continued).

92. *Omophron SAYI* Kby. is *AMERICANUM* Dej.
93. *Haliphus impressus* Latr., erroneously determined, is *RUFICOLLIS* De Geer.
94. *Hydroporus nigrolineatus* Steph. Not known to us. Is the identification correct? *
95. " *parallelus* Say.
96. " *LAEVIS* Kby. This and the preceding seem to me to be merely varieties of *catascopium* Say, which Crotch says is *GRISEOSTRIATUS* De Geer.
97. " *PICATUS* Kby.
98. " *SIMILIS* Kby. is *IMPRESSOPUNCTATUS* Schall. (fide Crotch).
99. *Laccophilus BIGUTTATUS* Kby. is *PROXIMUS* Say.
100. *Colymbetes SEMIPUNCTATUS* Kby. is a *GAURODYTES*.
101. " *BICOLOR* Kby. A *GAURODYTES*.
102. " *PHAEOPTERUS* Kby. is probably *GAURODYTES obliteratus* Lec.
103. " *BIFARIUS* Kby. Placed by Crotch in a new genus, *ILYBIOSOMA*.
104. " *RETICULATUS* Kby. is probably identical with *GAURODYTES ARCTICUS* Payk.
105. " *PICIPES* Kby. is an *ILYBIUS*.
106. " *ASSIMILIS* Kby.
107. " *TRISERIATUS* Kby. is *SCULPTILIS* Harris.
108. " *RUGICOLLIS* Kby. is *GRAPHODERES LIBERUS* Say.
109. " *MACCULLOCHII* Kby. is *ACILIUS MEDIATUS* Say.
110. *Dytiscus OOLIGBUKII* Kby. is *CONFLUENS* Say.
111. " *HARRISHI* Kby.
112. " *FRANKLINII* Kby. is *CONFLUENS* Say, *var.*

* Dr. David Sharp, of Scotland, is now preparing a monograph of the *DYTISCIDAE* of this world: and by means of typical specimens from Dr. Leconte and myself, will settle definitely the synonymy of all of Kirby's species in this family.

113. *Cyclinus ASSIMILIS* Kby. is *DINEUTUS AMERICANUS* Linn.
114. *Gyrinus IMPRESSICOLLIS* Kby. I think the reference to *BOREALIS* Aubé is correct.
115. " *aeneus* Leach (Kby.) Kirby's determination is probably incorrect.
116. " *VENTRALIS* Kby.
117. " *ANALIS* Kby. Impossible to identify this species. The name is preoccupied. It is not Say's *ANALIS*.
118. " *minutus* Fab.
119. *Paederus riparius* Fab. (Kby.) is *LITTORARIUS* Grav.
120. *Lathrobium PUNCTICOLLE* Kby.
121. " *GRAVENHORSTI* Kby. is *CRYPTOBIUM PALLIPES* Nord.
122. " *bicolor* Grav. is a *CRYPTOBIUM*.
123. *Gyrohypnus ASSIMILIS* Kby. is *XANTHOLINUS CEPHALUS* Say.
124. *Olophrum MARGINATUM* Kby. is an *OMALIUM*.
125. *Alaenchara PALLITARSIS* Kby. is a *HOMALOTA*.
126. *Tachyporus ACUDUCTUS* Kby. is *COPROPORUS VENTRICULUS* Er.
127. " *AFFINIS* Kby.
128. *Philonthus politus* Linn. (Kby.) is *AENEUS* Rossi.
129. " *MANDIBULARIS* Kby. Male of *AENEUS*.
130. " *PICATUS* Kby. is *BRUNNEUS* Grav.
131. " *fulvipes* ? Grav.
132. *Staphylinus CHRYSURUS* Kby. *LEISTOTROPHUS CINGULATUS* Grav.
133. *Creophilus villosus* Grav.
134. *Necrophorus velutinus* Fab. *N. TOMENTOSUS* Weber is an older name.
135. " *HEBES* Kby. is a variety of *VESPILLOIDES* Herbst.
136. " *OBSCURUS* Kby. is the *Melsheimeri* ‡ Lec.
137. " *MELSHEIMERI* Kby. Occurs also in Alaska and is *maritima* Mann.
138. " *HALLII* Kby. is *ORBICOLLIS* Say.
139. " *PYGMAEUS* Kby. is *VESPILLOIDES* Hbst.
140. *Necrodes surinamensis* Fab. is *SILPHA SURINAMENSIS*.
141. *Oiceoptoma marginale* Fab. An older name is *SILPHA NOVEBORACENSIS* Voet.
142. " *lapponicum* Linn. is *SILPHA LAPPONICA*.
143. " *TRITUBERCULATUM* Kby. is a *SILPHA*.
144. " *inaequale* Fab. is *SILPHA INAEQUALIS*.

occasionally either entirely wanting or existing as a continuation of the margin of the basal patch on primaries; on the upper margin the shade appears to be constant, although sometimes obscured so as to appear a dull gray.

Similar variations are observable in the abdomen, vermillion and white, red, black and white, and rarely dark brown and white (the color of the wings); and in the wings, which may be dark brown sprinkled slightly with gray, and opaque or dull black, and semi-transparent; one specimen in my collection, with the primaries of the first and secondaries of the latter color, presented a curious appearance; this was one of two taken from *Ampelopsis quinquefolia*, the other having both wings thin and silky, and nearly as black as *Papilio asterias*. The palpi usually agree with the body, as do the legs; in this case both are dark red.

Notwithstanding these differences and the wide range in size ($4\frac{1}{8}$ to $7\frac{1}{4}$ inches being the extremes of perfect moths in my possession), *cecropia* agrees so well in general appearance that, aside from the black variety mentioned above, a distinctly marked variety is a rarity, the nearest approach I have seen being in four ♂ moths from cocoons found on rose bushes, in which nearly all the space on the primaries between the basal spot and the border, is finely flushed with red, which grows fainter outwardly, the same red flush being continued down the abdominal margin of secondaries, giving the entire moth a reddish hue; the occurrence of red on the primaries is not extremely rare, but I have never seen others than these with red on the secondaries, except in the border.

SYNONYMY OF THE COLEOPTERA OF THE FAUNA BOREALI-AMERICANA, KIRBY.

BY GEO. H. HORN, M. D., PHILADELPHIA, PA.

(Continued).

- 145. *Oiceoptoma americanum* Linn. has been known by the ante-Linnean name of *peltata*.
- 146. " *TERMINATUM* Kby. is a variety of the preceding.
- 147. " *AFFINE* Kby., variety of 145.
- 148. " *CANADENSE* Kby., variety of 145.

149. *Peltis ferruginea* Linn.
150. *Nitidula obscura* Fab.
151. " *ossium* Kby., same as 150.
152. " *discoidea* Fab. Subsequently described as *OMOSITA inversa* Lec., from California.
153. *Ips DEJEANII* Kby. is *VITTATUS* Say.
154. *Choleva SPENCIANA* Kby. is a *CATOPS*.
155. *SCAPHIUM CASTANIPES* Kby. is very rare. Occurs also in the White Mts., N. H.
156. *Leiodes PUNCTATOSTRIATUS* Kby. is *Anisotoma indistincta* Lec.
157. *Corticaria DENTICULATA* Kby. The name is preoccupied and was changed to *Kirbyi* Lec. It is probably *DELETUS* Mann.
158. *Atomaria atra* Steph. (Kby.) Incorrectly determined by Kirby and is probably a dark variety of *LAETULIA* Lec.
159. *Cryptophagus HUMERALIS* Kby. is a *TRIPHYLLUS*, and is *ruficornis* Lec.
160. " *CONCOLOR* Kby. A variety of the preceding.
161. *Attagenus CYLINDRICUS* Kby. Belongs to a new genus, *PERIMEGATOMA* Horn. Trans. Am. Ent. Soc., 1875, p. 135.
162. " *pellio* Linn.
163. *Dermestes lardarius* Linn.
164. " *DISSECTOR* Kby. is *NUBILUS* Say.
165. *Byrrhus PICIPES* Kby. Name is preoccupied and is now *KIRBYI* Lec.
166. " *CONCOLOR* Kby. Now known to us. Is not a variety of *Cytilus varius* Fab., but appears to be a small *CYCLOPHORUS* Kby.
167. " *CYCLOPHORUS* Kby.
168. " *varius* Fab. This is an erroneous determination. The species is *CYTILUS TRIVITTATUS* Mels.
169. *Hydrobius fuscipes* Linn.
170. " *marginellus* Fab. Probably an erroneous determination and may be *PHILHYDRUS FIMBRIATUS* Mels.
171. " *melanocephalus* Ol. An erroneous determination and is *PHILHYDRUS PERPLEXUS* Lec. I have specimens from Mr. Pettit which correspond with Kirby's description of both the above species.
172. *Hister PAYKULII* Kby. is *DEPURATOR* Say.

173. Hister HARRISII Kby.
174. Onthophagus latebrosus Fab. is HECATE Panz.
175. " SCABRICOLLIS Kby. is JANUS Panz.
176. Trox arenarius Fab. (Kby.) This may be AEQUALIS Say.
177. Pelidnota punctata Linn.
178. Camptorhina ATRACAPILLA Kby. is SERICA VESPERTINA Schonh.
179. Diplotaxis TRISTIS Kby.
180. Rhizotrogus fervens Gyll. (Kby.) is LACHNOSTERNA FUSCA Fröhl.
181. " DRAKII Kby. A race of 180.
182. Dichelonycha BACKII Kby.
183. " VIRESCENS Kby. is ELONGATULA Schonh. Variety C
is SUBVITTATA Lec.
184. " TESTACEA Kby.
185. Cetonia fulgida Fab. is EURYOMIA FULG.
186. Trichius BIGSBII Kby. is GNORIMUS MACULOSUS Kn.
187. " ASSIMILIS Kby. is AFFINIS Gory.
188. " ROTUNDICOLLIS Kby. is PIGER Fab.
189. " VIRIDANS Kby. is AFFINIS Gory.
190. Gymnodus FOVEATUS Kby. ♂
191. " RUGOSUS Kby. ♀ is OSMODERMA SCABRA Beauv.
192. Platycerus piceus Weber (Kby.) is erroneously determined and is
DEPRESSUS Lec.
193. Passalus interruptus Linn. (Kby.) is CORNUTUS Fab.
194. Campylus DENTICORNIS Kby.
195. Pedetes BRIGHTWELLI Kby. is an ATHOUS.
196. " (Asaphes) RUFICORNIS Kby. is ASAPHES MEMNONIUS Hbst.
197. Perimecus fulvipes Hbst. (Kby.) is MELANOTUS CASTANIPES Payk.
198. " communis Gyll. is also a MELANOTUS.
199. " SIMILIS Kby. A MELANOTUS, but the synonymy is un-
known.
200. Ctenicerus KENDALLI Kby. is CORYMBITES VIRENS Schr.
201. Elater AERIPENNIS Kby. is a CORYMBITES.
202. Buprestis RUSTICORUM Kby. is a variety of MACULIVENTRIS Say.
203. " PAGANORUM Kby. is 202.
204. " NUTTALLI Kby.
205. " lineata Fab.
206. " fasciata Fab.
207. " divaricata Say is a DICERCA.
208. " TENEBROSA Kby. is a DICERCA.

209. Buprestis TENEBRICA Kby. may be the same as Dicerca *lugubris* Lec.
210. " TRINERVIA Kby. is a CHRYSOBOTHRIS.
211. " PROXIMA Kby. is CHRYSOBOTHRIS SCABRIPENNIS Lap. et Gory.
212. " DRUMMONDII Kby. is a MELANOPHILA.
213. " umbellatarum Fab. (Kby.) is erroneously determined and is ANTHAXIA INORNATA Rand.
214. " appendiculata Fab. (Kby.) is erroneously determined and is MELANOPHILA LONGIPES Say.
215. Agrilus BIVITTATUS Kby. is BILINEATUS Weber.
216. Trachys AURULENTA Kby. is BRACHYS OVATA Weber.
217. " ACUDUCTA Kby. Mr. E. Saunders (Trans. Ent. Soc., London, 1868, p. 60) says this is a CISSEIS and from Australia.
218. Pytho NIGER Kby.
219. " AMERICANA Kby.
220. Trogosita AMERICANA Kby. is probably *corticalis* Mels.
221. Monochamus RESUTOR Kby. is SCUTELLATUS Say.
222. " CONFUSOR Kby.
223. " MARMORATOR Kby. is probably that variety of SCUTELLATUS Say, called *Oregonensis* Lec.
224. Acanthocinus (Graphisurus) PUSILLUS Kby. is now called GRAPHISURUS PUSILLUS Kby.
225. Callidium AGRESTE Kby. is a CRIOCEPHALUS.
226. " striatum Linn. (Kby.) is ASEMUM MOESTUM Hald.
227. " COLLARE Kby. is now GONOCALLUS COLLARIS.
228. " PROTEUS Kby. is now MERIUM PROTEUS.
229. " SIMILE Kby. is 228.
230. " DIMIDIATUM Kby. is a PHYMATODES.
231. " (Tetropium) CINNAMOPTERUM Kby. is known as a TETROPIUM.
232. Clytus UNDATUS Kby. is XYLOTRECHUS UNDULATUS Say.
233. " LUNULATUS Kby. is the same.
234. " FUSCUS Kby. A variety of the same.
235. " LONGIPES Kby. is a NEOCLYTUS.
236. " MURICATULUS Kby. is a NEOCLYTUS and has since been described as *leucozonus* Lap.
237. Hargium lineatum Ol. is a RHAGIUM.

238. *Pachyta LITURATA* Kby.
239. *Leptura CHRYSOCOMA* Kby.
240. " *SUBPUBESCENS* Kby. is *PROXIMA* Say.
241. " *ERYTHROPTERA* Kby. Variety of 242.
242. " *canadensis* Ol.
243. " *TENUIOR* Kby. is *TYOCERUS VELUTINUS* Ol.
244. " *BREVIS* Kby. is *L. VAGANS* Ol.
245. " *sexmaculata* Linn.
246. " *SEMIVITTATA* Kby. is *L. VITTATA* Ol.
247. " *GULOSA* Kby. is also *L. VITTATA* Ol.
248. " *SUBARGENTATA* Kby.
249. " *SIMILIS* Kby. is *rufibasis* Lec.
250. " *LONGICORNIS* Kby. is *ACMAEOPS marginalis* Lec.
251. " *PROTEUS* Kby. is an *ACMAEOPS*.
252. " *LONGICEPS* Kby. is *ACMAEOPS PRATENSIS* Laich.
253. *Anobium FOVEATUM* Kby. is a *HADROBREGMUS*.
254. *Cis micans* Fab. (Kby.) Unknown ; seems to be *CHEVOLATII* Mell.
255. *Tomicus pini* Say.
256. *Apate BIVITTATA* Kby. is a *XYLOTERES*.
257. " *RUFITARSIS* Kby. is a *XYLOTERES* unknown to us.
258. " (*Lepisomus*) *RUFIPENNIS* Kby. is a *POLYGRAPHUS*.
259. " (*Lepisomus*) *NIGRICEPS* Kby. Probably the same as 258.
260. " (*Lepisomus*) *BREVICORNIS* Kby. Unknown.
261. *Hylurgus RUFIPENNIS* Kby. is a *DENDROCTONUS*.
262. *Calandra pertinax* Ol. is a *SPHENOPHORUS*.
263. *Hylobius CONFUSUS* Kby.
264. *Lepyrus colon* Linn.
265. " *GEMELLUS* Kby.
266. *Cleonis VITTATUS* Kby. is *CLEONUS*.
267. *MACROPS MACULICOLLIS* Kby.
268. " *VITTICOLLIS* Kby.
269. *LEPIDOPHORUS LINEATICOLLIS* Kby.
270. *Trachyphloeus MELANOTHRIX* Kby. Constitutes, with a California species, a new genus, *GEODERCES* Horn.
271. *Pachyrhynchus SCHONHERRI* Kby. is *ITHYCERUS NOVEBORACENSIS* Forst.
272. *Attelabus SIMILIS* Kby. is *ANALIS* Illig.
273. " *bipustulatus* Fabr.

Chytoryza, n. g.

♂ ♀. This form I would refer to the series of *Anomis*, *Aletia*, *Pteraetholix*. It much resembles the latter in size and color, but it differs by the external margin of the primaries being even, not sinuate, and the want of the ♂ venational characters. Eyes naked, prominent, legs unarmed, abdomen smooth, cylindrical, untufted; wings wide and ample, thorax smooth, untufted. The shape of the wings recalls *Poaphila*, but the apices are blunt, not pointed. Male antennæ simple, ciliate beneath slender.

Chytoryza tecta, n. s.

♂ ♀. Primaries cupreous brown with the lines fine, denticulate accompanied by whitish scales. Reniform conspicuous, being inferiorly filled in with white or yellowish scales, forming a prominent spot which strikes the eye at once. The upper portion of the reniform is obsoletely indicated. The brown shade of the subterminal space deepens up to the s. t. line, which is relieved outwardly by a fine powdering of pale scales, Fringes blackish, paler at the tips. Secondaries wholly blackish, without line, with fringes whitish at tips, at base obsoletely interlined. Beneath pale, hind wings irrorate, with a median denticulate line and small black discal mark preceded by an obsolete dash. Fore wings darker with the terminal space and costal region shaded with yellowish. Legs pale, thorax above like fore wings. *Expanse* 23 mil. Texas (O. Meske).

SYNONYMY OF THE COLEOPTERA OF THE FAUNA
BOREALI-AMERICANA, KIRBY.

BY GEO. H. HORN, M. D., PHILADELPHIA, PA.

(Concluded).

- 274. *APOTOMUS* ovatus Fab. belongs to the genus *PTEROCOLUS*.
- 275. *Anthrribus fasciatus* Oliv. is a *TROPIDERES*.
- 276. *Chlamys plicata* Oliv.
- 277. *Cryptocephalus pubescens* Fab. is a *PACHYBRACHYS*.
- 278. " *notatus* Fab. is *SELLATUS* Suff.

279. *Eumolpis vitis* Fab. is correctly determined, but is an *ADOXUS*.
280. *Chrysomela philadelphica* Linn.
281. " *CONFINIS* Kby. is *C. spiraeae* Say and a variety of the preceding.
282. " *BIGSBYANA* Kby.
283. " *multipunctata* Say.
284. " *CLIVICOLLIS* Kby. This name should remain. The *C. trimaculata* Fab. is the same, but the name was pre-occupied by Linneus.
285. " *rufipes* De Geer is *C. PALLIDA* Linn., a *GONIOCTENA*.
286. *Phaedon Adonidis* Pallas. is an *ENTOMOSCELIS*.
287. " *raphani* Fab. Probably a correct determination. The species is known in American cabinets as *GASTROPHYSA formosa* Say.
288. " *polygoni* Linn. is a *GASTROPHYSA*.
289. *Phyllodecta vitellinae* Linn.
290. *Haltica VICINA* Kby. appears to be *DISONYCHA ALTERNATA* Illig.
291. " *PUNCTICOLLIS* Kby. is *DISONYCHA TRIANGULARIS* Say.
292. *Galeruca OLIVIERI* Kby. is *PHYLLOBROTICA DECORATA* Say.
293. " *CANADENSIS* Kby. A *TRIRHABDA*, and Crotch thinks it a variety of *TOMENTOSA* Linn.
294. " *sagittariae* Gyll. This species and its allies form the genus *GALERUCELLA* Crotch.
295. " *BILINEATA* Kby. is a variety of *GALERUCELLA NOTULATA* Fab.
296. " *MARGINELLA* Kby. is a *GALERUCELLA*.
297. *Orsodacna TIBIALIS* Kby.
298. " *CHILDRENI* Kby. These two are considered identical, and the latter name adopted.
299. *Haemonia NIGRICORNIS* Kby. This seems to be the same as that subsequently described by Lacordaire as *Mel-sheimeri*. I have seen Canadian specimens which do not differ.
300. *Donacia FEMORALIS* Kby.
301. " *FLAVIPES* Kby.
302. " *AFFINIS* Kby. is *KIRBYI* Lac.
303. " *EMARGINATA* Kby.
304. " *PROXIMA* Kby.
305. " *CUPRÆA* Kby.

306. *Donacia* *HIRTICOLLIS* Kby.
 307. " *æqualis* Say.
 308. *Hispa* *bicolor* Oliv. is an *ODONTOTA*.
 309. *Coccinella* *EPISCOPALIS* Kby. is an *ANISOSTICTA*.
 310. " *tredecimpunctata* Linn. is a *HIPPODAMIA*.
 311. " *TRIDENS* Kby. is *HIPPODAMIA PARENTHESIS* Say.
 312. " *QUINQUESIGNATA* Kby. is a *HIPPODAMIA*.
 313. " *QUINQUENOTATA* Kby. In the revision of the *Coccinellidæ* Trans. Am. Ent. Soc., 1873, p. 370, Crotch allows the name to remain. In his general revision (published posthumously) London, 1874, the name is placed as a synonym of *TRANSVERSOGUTTATA*, which is probably correct.
 314. " *TRICUSPIS* Kby. In the London publication the name by Kirby is said to be pre-occupied and changed to *KIRBYI* by Crotch, but is allowed to remain in the American publication.
 315. " *INCARNATA* Kby. is *ANISOCALVIA DUODECIMMACULATA* Gebl.
 316. *Pimelia* *ALTERNATA* Kby. is *ELEODES TRICOSTATA* Say.
 317. *Upis* *ceramboides* Linn.
 318. *Tenebrio* *molitor* Linn.
 319. " *pensylvanicus* Kn. is a *NYCTOBATES*.
 320. *Diaperis* *bicornis* Ol. is a *HOPLOCEPHALA*.
 321. *Bolitophagus* *cornutus* Fab. is *BOLITOTHERUS BIFURCUS* Fab.
 322. " *OBCORDATUS* Kby. is a *PHELLOPSIS*.
 323. *MERACANTHA CANADENSIS* Kby. is *CONTRACTA* Beauv.
 324. *Arthromacra* *DONACIOIDES* Kby. is *AENEA* Say.
 325. *Cistela* *ERYTHROPA* Kby. is *ANDROCHIRUS luteipes* Lec., which is not rare in Canada.
 326. *Xylita* *buprestoides* Payk. *X. LAEVIGATA* Hellen. is an older name.
 327. *Notoxus* *monodon* Fab.
 328. *Cantharis* *UNICOLOR* Kby. is a *MACROBASIS*, *cinerea* || Fab. and *Fabricii* Lec. are its synonyms.
 329. *Meloe* *IMPRESSA* Kby.
 330. " *NIGRA* Kby.
 331. *Dasytes* *FOVEICOLLIS* Kby. is a *DOLICHOSOMA*.
 332. *Necrobia* *violacea* Linn. is a *CORYNETES*.

333. *Thanasimus ABDOMINALIS* Kby. is *nubilus* Klug, a variety of *UNDULATUS* Say.
334. *Cyphon FUSCICEPS* Kby.
335. *Telephorus ater* Linn. (Kby.) is erroneously determined and is *FRAXINI* Say.
336. " *WESTWOODII* Kby. The legs of this species are dark. It seems to me merely a variety of the next.
337. " *SAMOUELLII* Kby.
338. " *CURTISII* Kby. This and the preceding are the same.
339. " *PUNCTICOLLIS* Kby. is a *PODABRUS*.
340. " *LAEVICOLLIS* Kby. is a *PODABRUS*.
341. " *MANDIBULARIS* Kby. does not differ from *FRAXINI* Say.
342. " *BENNETHI* Kby. is *PODABRUS TRICOSTATUS* Say.
343. *Lampyris corrusca* Linn. is an *ELLYCHNIA*.

Synopsis of Kirby's Species.

Number of species described as new by Kirby.....	238
Those which retain Kirby's specific names and are known to us....	111
Number which must be considered synonyms	108
Specific names pre-occupied and a more recent name used.....	6
Species in doubt and undetermined by us.....	10
To be dropped (name pre-occupied and type lost in one instance). ..	2
Two species mixed under one name.....	2
Number of species quoted from previous authors.....	105
Of these there are correctly determined.....	68
Those which must be placed in synonymy on account of incorrect determination or otherwise.....	35
Uncertain and unknown to us.....	2
Australian species described in error.. . . .	1