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NEW
CHECK LIST
OF
NORTH AMERICAN
MOTHS

BY
AUG. R. GROTE
PRESIDENT NEW YORK ENTOMOLOGICAL CLUB

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MAY 1882

MR. GROTE'S WRITINGS.

1. GENESIS I., II. ; An Essay on the Bible Narrative of Creation. Second Edition. Revised, with additions. 1 vol., large 8vo. New York : Asa K. Butts, 1881.
2. THE NEW INFIDELITY. Geo. P. Putnam's Sons, New York, 1881. 1 vol., 8vo.
3. RIP VAN WINKLE: A Sun-myth, and other Poems. Kegan Paul, Trench & Co. London, 1882. 1 vol., small 8vo.
4. AN ILLUSTRATED ESSAY ON THE NOCTUIDE OF NORTH AMERICA. With "A Colony of Butterflies." Four Beautiful Colored Plates of rare or hitherto unfigured species. 1 vol., large 8vo. Van Voorst, London, 1882.
5. EDUCATION AND THE SUCCESSION OF EXPERIENCES. Vice-Presidential Address delivered before the Am. Ass. for the Advancement of Science. Pamphlet. Salem, 1878.
6. FOUR POPULAR SCIENCE LECTURES, delivered in the course before the Buffalo Society of Natural Sciences: "Plant and Animal Life, I., II.," two lectures published by the *Scientific American*; "Man and his Structural Affinities," and "Early Man in North America," published by the *Popular Science Monthly*.
7. CHECK LIST OF THE NOCTUIDE OF NORTH AMERICA. Buffalo : Reinecke & Zesch, 1876.

P R E F A C E .

The present list of names of described species of North American Moths, is as correct and complete as I can make it in the present state of our knowledge of the families here included. I have followed the name of the species with that of its author, without reference to the genus under which it was originally published. I have adopted such of Hubner's generic names as have been used by good authorities on the literature and structure of this group of insects. Only in a few instances (e. g. *Lithophane*) does this use originate with myself, and I have given special reasons for the procedure. In the case cited the name *Xylina* has been usually employed. This name, as I have shown in my "Check List" of the *Noctuidæ*, is originally proposed by Hubner for a species belonging to the genus *Hadenæ*. Ochsenheimer takes it from Hubner, citing him as authority, and uses it for a mixed assortment of species, including some Lithophanes and Hadenas, together with other European Noctuids now placed under different genera. In the meantime Hubner includes *Socia* under his genus *Lithophane*, and I have taken this as the type of the genus, properly rejecting *Xylina* as a synonym of *Hadenæ*. The name *Lithophane* is, thus, the correct one for the genus, and is quite euphonious and otherwise unobjectionable. Its signification is quite expressive of the appearance of the species for which it is used, and the same Greek word is taken (in a different connection) for a genus in the same group by Stephens (e. g. *Lithomia*). I have also restored Hubner's authority to genera like *Agrotis*, a name originally proposed by him, and credited to him by Ochsenheimer, but afterwards appropriated by various writers. There is nothing in my adoption of Hubner's names which can be fairly criticized, unless it be claimed that this writer should be totally ignored for genera. But no author whom I have studied has rejected Hubner entirely. His generic names have been used by all, so evidently proper have a number of them proved to be. So far as the number of genera here retained is concerned, I have not willingly adopted one not resting on real structural characters. Certain writers in effect overlook all characters which necessitate a close or microscopic examination. Their classification depends upon their arbitrary idea of what species belong to a genus. It would be impossible to draw up a diagnosis of the genus *Eudryas*, for instance, as arranged by them, and including in it the species of *Copidryas* and *Ciris*. If we examine the neuration, the mouth, the clypens, we will find that *Gloveri* dif-

fers as strongly from *Unio* and *Grata*, and by as tangible marks as characterize any two related genera in the order. The species must then be thrown together, in this instance, from general resemblances of size and color. Yet Hubner is blamed for depending in his diagnoses upon size and color. But it is not accurate to overlook the characters which separate *Copridryas* from *Eudryas*; and the close correspondence between the two species of *Eudryas*, in structure, lends force to an objection against their being brought together with *Gloveri*, in one and the same genus.

The present "List" takes the place of the List of 1868, and includes the various catalogues of single genera or families which I have drawn up since that time. There are very few changes which have not been explained by me elsewhere, and with the consciousness that I have spared no labor or thought to make it accurate, I leave it to its judges. The territory it covers is the North American Continent, north of Mexico and the West Indies. In the *Dryocampidae*, three species are added, hitherto only known from Mexico. Southwestern Texas will be found to have many species in common with Northern Mexico; and the extremity of the peninsula of Florida has several species found in Cuba. Dr. Le Conte's faunal map has shown itself correct so far, also, as the Lepidoptera are concerned. I have omitted from this List the signs of doubt as to the position of a species in a genus. In a number of cases this needs revision, yet the "List" will prove itself, I believe, more correct than its predecessors in this respect. As some changes are made for the first time, and the "List" is the result of my original work, it will have what authority I can give it as a contribution to a natural arrangement of the material it deals with. I have omitted also from this "List" the sign placed after names of species which I have not seen. The number of these instances has diminished since the List of 1868, while the number of species has greatly augmented.

Much has been done for Science and a knowledge of our species of Moths when they are named and catalogued correctly—listed so that their names express their qualities, and their position the relationship and ancestry of the different kinds. The amateur, the collector, the exact thinker, is encouraged and satisfied with these results, but the philosopher feels that the quest is but half begun. The lives of these idle moths call out no lessons of morality as the ant taught the Hebrew. But their wings, carelessly fluttering, caught the eye of the Greek, half poet and half philosopher, himself fond of the Sun and Nature, and they served him for proof of Immortality. The Hebrew, more severe, sought rules for his daily converse with other men; his soul was content within its dwelling. Afterwards one of his tribe was to write the belief that in his flesh he was to see God. In the meanwhile the Greek had turned Nature into Metaphysics, and had consoled himself with Psyche. Not in the flesh, but on

airy, all but impalpable wings, was he to join the Gods, a shade, a shadow, a breath. His Eternities became elastic, as his thoughts, playing around the facts of Nature perceived by him, made Deities out of Matter finely spun out in dreams. At length he perceived that this was an endless procession in which he was moving—in his clan or leading on horseback Homeric hosts. At the last we are expressed by chemical formulas, as other compounds of the materials of worlds. But what capabilities are not ours in Evolution! I hear the noises making all over the globe, as we are crowding together by increase of population. We are more brutal to each other and selfish under this struggle for existence than the Jews, and this despite our Christianity which we have taken from them, and which is so full of panaceas against the evils of overcrowding. That is the test of the practical value of belief, when it betters our condition. What a range of thought one can run over, catching butterflies along the hedge-rows. I come back to my first surprise, when, as a boy, I caught *Cicindelas* on the South beach of Staten Island. I saw that there were immense questions hanging about unsolved, as I was bottling my captures. These insects were part of a Universe with Stars and Suns. I could not understand the life I was taking; and then I felt the grief that arises when we become conscious of the rôle played by Destruction. I abandoned collecting insects, even walking carefully so as not to bruise the golden-rods and purple asters that fringed my path. This world became filled with pain, and I quarreled with a friend who pinned some delicately colored species alive, rather than risk the effects of anæsthetic poisons on their fugitive tints. I felt there was a certain selfishness in my enjoyment of Nature. How much, alas, we must do to get knowledge I was soon to discover in the dissecting room! Yet I cannot reconcile myself to, nor grasp the reasons for vivisection. If there is one thing that is hateful to my soul it is this. When, in after life, I found a man who, in order to exhibit himself before a mixed assemblage as is present at the meeting of the Association for the Advancement of Science, was willing to cut up a cat, I knew that I had before me a man deficient in moral sense, whom horrors attracted, who brought himself into note by the ease with which he moved among the miseries that he inflicted. The audience cannot be thus instructed; and the most sensible are probably only shocked at the exhibition and surprised to find themselves its witnesses. I feel somewhat guilty in having induced my reader to come this far, as I hope, through a little display of philosophy, to a lesson against cruelty. But, even in preparing insects for the cabinet, there is a great choice of means, and I hope that the enthusiasm of the student will not cause him to forget that these little creatures suffer and feel pain. Early in my entomological career I stopped collecting and joined the Battle of the Synonyms instead, and gave myself up to de-

scribing. But now we have such excellent means for taking these tiny lives without lengthly suffering, that Entomology is relieved of much of the odium that has properly clung to the study. Of most Lepidoptera the life in the perfect stage is brief, even when not invaded by birds and rodents. Entomologists kill a very minute proportion of the swarms of insect life, but they owe it to themselves to take their share humanely.

The present "New Check List" is founded on preceding Lists, published by myself and the late Mr. C. T. Robinson, or by myself alone. These cover the whole ground, commencing with the Synonymical Catalogue of Sphingidæ of 1865, down to the last list published by myself in the "Canadian Entomologist" or other of our periodical Entomological magazines. These sources are the foundations for future "Lists," simply because they are the first to be published, and contain original matter, and must be known and used by all later comers (like the "Brooklyn Check List") in the same field. By the List now offered to the student, I think that a collection of our moths can be naturally and scientifically arranged. In some cases there may be an unprejudiced difference of opinion as to certain genera adopted; for instance in the *Sphingidæ*, a group composed of such large and showy insects, that without a microscope an opinion on structure may be given. It must be remembered that I have been guided by the recently published monograph of Mr. Butler to some extent, considering that the very large material he has had before him will have led to more correct ideas as to the affinities of the different species. In this group the generic characters are mainly comparative, only *Amphonyx*, among the many genera I have examined, affording a single strong generic character. Yet in many instances the differences are sufficiently clear as to cause no reasonable doubts that we have to do with different generic types. In the palpi, neuriation, antennæ and abdomen, together with the whole habit, characters are afforded by *C. Juglandis*, for instance, which are as strong as those separating any two other genera in the group. So far as the study of geographical distribution is concerned, it is interesting to know that the ocellated western forms of *Smerinthus* agree in structure with the European, while our species from the Atlantic coast diverge from this type, but agree with another form from Asia Minor. The American species of *Ambulyx*, which do not, however, occur within the territory embraced by this List, so far as I know, may be distinguished from the Asiatic species (hitherto referred to this genus) by a sub-apical excision in the external margin of the forewings and by a reversal of the coloring of the tegulæ and thorax. In the American species the shoulder-covers are dark and the thorax pale. In describing *A. Sexoculata* from Brazil, I drew attention to the probable generic distinction between the two groups. I mention this here to show that close observation is necessary to bring out facts which have

a bearing upon wider questions than the separation of species, namely, geographical distribution and descent.

In the different families we are obliged to use different characters as the basis for genera, and even in different sections of the same family. Thus in a large number of genera in the *Noctuidæ*, it needs only a careful study to apprehend quite strong characters, such as armed tibiæ, hairy eyes, a pitted or roughened and tuberculate clypeus. But among several genera below *Homoptera* and among the Deltoids, the characters tend to become comparative. In this latter group the tibiæ are always unarmed and the eyes naked, and where we have simple antennæ and no peculiarities such as distinguish *Renia*, *Zanclognatha* and *Pallachira*, we have to take comparative differences. In *Capis*, for instance, a glistening, pyralidous Deltoid, we have merely the broader, squarer fore wings and the difference in the labial pulpi to distinguish it from *Sisyrrhynna*, which in habit it resembles; although it is probable that the male antennæ are also simple, and that there are some differences in the neuration which I have not worked out yet. I cite this merely as an example of the varying characters of genera in the group. In this list, then, I have most frequently adopted genera which I have studied, and, upon one ground or another, have been convinced of their validity. I hope the student, after arranging his material, will be tempted to investigate its structure and literature for himself. He will undoubtedly discover many new facts which will here and there lead to changes. Let him but compare this list with the Smithsonian catalogue and he will at first hardly recognize them as referring to the same fauna. It is hoped now that we are on the road to more accurate knowledge. It is a pity that in this study so much personal difference finds expression. Without having attained the ideal, I have held before my mind the picture of a student without prejudice and incapable of concealing the sources of his information; one who, in his interpretation of Nature, is courteous and fair towards all those engaged in the same quest.

I do not wish to allow my "New Check List" to go to the press without my acknowledgment that I have made, with most students, a great many mistakes. Considering the circumstances, and looking back over many years during which I had no one to help me with determinations, so that I was obliged to make out the genera and species as I could, I am surprised I did not make more. With regard to my species, though very numerous, I think they are very generally known; partly because I have determined for others so much, and partly, I hope, that my descriptions are recognizably written, to say nothing of the Plates which I have published illustrating the subject.

Mr. Henry Edwards has corrected the proofs of this list of the genus *Catocala*, and authorizes my retaining the names *Levettei*, *Anna* and *Adoptiva*, for the three species described by me. I need not say anything as to Mr. Edwards' knowledge of the species of *Catocala* and their literature. But I may say that he is thoroughly well acquainted with the facts in the controversy with regard to these species. It is admitted by Mr. Hulst, representing Mr. Strecker, that I gave the names first to these species, as also that Mr. Strecker antedated his number. I have shown reasons for the opinion that Mr. Strecker had sheets of my paper, printed in Philadelphia, and dated September, before him, when he put the incorrect date, "August," to his number which appeared in November.

I am also indebted to Mr. Henry Edwards for his careful revision of the proof sheets of the list of the *Egeriade*. I have received from the same Entomologist information as to the synonymy of certain Western *Sphingide*. In the *Geometride* I have followed Dr. Packard's admirable Monograph, with but few changes in the names or synonymy; the *Boarmine* are placed lower down, as they appear to me to occupy an inferior position in the family. I have not taken into the list the *Desiderata* of Dr. Packard, except in a few instances. I have restored the sequence of the *Geometridæ*, commencing with the highest genera, as is customary. It is odd that in the "Brooklyn Check List," where the intention evidently is to commence with the highest forms in a family, an exception is made with the *Geometridæ*, which are catalogued upside down.

The principal abbreviations used in this List are :

<i>G. & R.</i> for Grote and Robinson.	<i>Pack.</i> for Packard.
<i>Gr.</i> for Grote.	<i>Morr.</i> for Morrison.
<i>Guen.</i> for Guenee.	<i>Harv.</i> for Harvey.
<i>Hy. Edw.</i> for Henry Edwards.	<i>Led.</i> for Lederer.
<i>Edw.</i> for W. H. Edwards.	<i>Walk.</i> for Walker.
<i>Zell.</i> for Zeller.	<i>Fern.</i> for Fernald.

A. R. GROTE.

May, 1882.

CHECK LIST.

SPHINGIDÆ.

CAUDIBERBES.

Lepisesia, Gr.

- 1 Flavofasciata, *Barnst.*

Hemaris, Dalm.

- 2 Palpalis, *Gr.*
3 Thetis, *Bd.*
4 Cynoglossum, *Hy. Edw.*
5 Rubens, *Hy. Edw.*
6 Senta, *Strk.*
7 Aethra, *Strk.*
8 Tenuis, *Gr.*
 Fumosa, *Strk.*
9 Marginatis, *Gr.*
10 Axillaris, *G. & R.*
 Grotei, *Butl.*
11 Diffinis, *Boisd.*
 § *Chamæsesia*, *Gr.*
12 Gracilis, *G. & R.*
 § *Hæmorrhagia*, *G. & R.*
13 Thysbe, *Fabr.*
 var. Uniformis, *G. & R.*
 ? *Ruficaudis*, *Kby.*
 var. Floridensis, *G. & R.*
14 Buffaloensis, *G. & R.*
15 Fuscicaudis, *Boisd.*

Aellopos, Hubn.

- 16 Titan, *Cram.*
 Annulosum, *Swains.*
 Balteata, *Kirtl.*
17 Tantalus, *Linn.*

Euproscerpinus, G. & R.

- 18 Phæton, *G. & R.*
 Erato, *Boisd.*

Cautethia, Gr.*

- 19 Grotei, *Hy. Edw.*
 Noctuiformis, † *H.-S.*

Pogocolon, Boisd.

- 20 Gauræ, *Abb. & Sm.*
 var. Juanita, *Strk.*
21 Circeæ, *Hy. Edw.*
22 Clarkiæ, *Boisd.*
 Victoria, *Gr.*
23 Terlooii, *Hy. Edw.*

Amphion, Hubn.

- 24 Nessus, *Cram.*

Thyreus, Swains.

- 25 Abbotii, *Swains.*

Enyo, Hubn.

- 26 Lugubris, *Linn.*
26½ Camertus, *Cram.*

Deidamia, Clem.

- 27 Inscripta, *Harr.*

* Dr. Boisduval classes this genus among the Macroglossæ, as also Mr. Hy. Edwards.

Arctonotus, Boisd.28½ *Lucidus*, Boisd.

EUMORPHÆ.

Deilephila, Ochs.

- 29 *Chamænerii*, Harr.
Canadensis, Guen.
 30 *Lineata*, Fabr.
Daucus, Cram.

Philampelus, Harr.

- 31 *Vitis*, Drury.
 32 *Linnei*, G. & R.
 33 *Pandorus*, Hubn.
Satellitæ, † Harr.
Ampelophaga, Boisd.
 34 *Achemon*, Drury.

Argens, Hubn.35 *Labruscæ*, Linn.**Pachylia**, Walk.

- 36 *Ficus*, Linn.
Crameri, Menet.
 ? *Lynceæ*, Clem.

Chærocampa, Dup.

- 37 *Tersa*, Linn.
 38 *Procne*, Clem.

Everyx, Boisd.

- 39 *Chærilus*, Cram.
Azalcæ, A. & S.
 40 *Myron*, Cram.
Pampinatrix, A. & S.
var. Cnotus, Hubn.

Ampelophaga, Brem.41 *Versicolor*, Harr.

PHALÆNOIDES.

Smerinthus, Latr.

- 42 *Ophthalmicus*, Boisd.
var. Pallidulus, Hy. Edw.
 § *Eusmerinthus*, Gr.
 43 *Geminatus*, Say.
 44 *Cerisyi*, Kirby.

Paonias, Hubn.45 *Excæcatus*, A. & S.**Calasymbolus**, Gr.

- 46 *Myops*, A. & S.
 47 *Astylus*, Drury.
Io, Boisd.
Integerrima, Harr.

Triptogon, Bremer.

- 48 *Modesta*, Harr.
Princeps, Walk.
 49 *Occidentalis*, Hy. Edw.
Imperialis, Strk.
Cablei, Von Reiz.*

Cressonia, G. & R.

- 50 *Juglandis*, A. & S.
 ♀ *Pallens*, Strk.
Robinsonii, Butl.

MANDUCÆ.

Ceratomia, Harr.

- 51 *Amyntor*, Hubn.
Quadricornis, Harr.

Daremma, Walk.

- 52 *Undulosa*, Walk.
Brontes, † Boisd.
Repentinus, Clem.
 53 *Hageni*, Gr.
 54 *Catalpæ*, Boisd.

Diludia, G. & R.

- 55 *Jasminearum*, B. & LeC.
 56 *Leucophæata*, Clem.
 57 *Brontes*, Drury.

Amphonyx, Poey.58 *Antæus*, Drury.**Phlegthontius**, Hubn.

- 59 *Rustica*, Fabr.
 60 *Carolina*, Linn.
 61 *Celeus*, Hubn.
Quadrinaculata, Haw.
 62 *Cingulata*, Fabr.
var. Decolora Hy. Edw.

* This will probably turn out to be *Modesta*. The colored drawing of the larva of this Louisiana species differs from the descriptions of the caterpillar of *Modesta*; it is horned and feeds on water plants; the moth is very like *Modesta*, and I could not distinguish it clearly from the drawing.

Sphinx, Linn.

- 163 *Drupiferarum*, *Ab. & S.*
var. Utahensis, *Hy. Edw.*
 64 *Kalmiæ*, *A. & S.*
 65 *Chersis*, *Hubn.*
Cinerea, *Harr.*
 66 *Oreodaphne*, *Hy. Edw.*
 67 *Libocedrus*, *Hy. Edw.*
 68 *Perelegans*, *Hy. Edw.*
 69 *Vancouverensis*, *Hy. Edw.*
Vashti, *Strk.*
 70 *Canadensis*, *Boisd.*
Plota, *Strk.*
 71 *Albescens*, *Tepper.*
 72 *Gordius*, *Cram.*
 73 *Luscitiosa*, *Clem.*
 74 *Lugens*, *Walk.*
Eremitoides, *Strk.*
 75 *Eremitus*, *Hubn.*
 76 *Elsa*, *Strk.*
 77 *Dollii*, *Neum.*

Dolba, *Walk.*

- 78 *Hylæus*, *Drury.*
Dilophonota, *Burm.*
 79 *Ello*, *Linn.*
 80 *Melancholica*, *Gr.*
 81 *Meriana*, *Gr.*
 82 *Festa*, *Hy. Edw.*
 83 *Obscura*, *Fabr.*
 84 *Edwardsi*, *Butler.*
Nyloicus, *Hubn.*
 85 *Plebeius*, *Fabr.*
 86 *Sequoia*, *Boisd.*
 87 *Cupressi*, *Boisd.*

Eltema, *Clem.*

- 88 *Coniferarum*, *Ab. & S.*
 89 *Bombycoides*, *Walk.*
Harrisii, *Clem.*
 90 *Pineum*, *Lintn.*

Exedrium, *Gr.*

- 91 *Halicarnie*, *Strk.*

ÆGERIADÆ.

Melittia, *Hubn.*

- 1 *Ceto*, *Westw.*
Cucurbitæ, *Harr.*
Satyriniformis, *Hubn.*
 2 *Grandis*, *Streck.*
 3 *Amoena*, *Hy. Edw.*
 4 *Snowii*, *Hy. Edw.*
 5 *Gloriosa*, *Hy. Edw.*

Larunda, *Hy. Edw.*

- 6 *Solituda*, *Hy. Edw.*

Euhagena, *Hy. Edw.*

- 7 *Nebraskæ*, *Hy. Edw.*

Alcathoe, *Hy. Edw.*

- 8 *Caudatum*, *Harris.*

Phemonoc, *Hy. Edw.*

- Sospita*, † *Hy. Edw.*
 9 *Quinquecaudata*, *Ridings.*

Trochilium, *Scop.*

- 10 *Apiforme*, *L.*
 11 *Pacificum*, *Hy. Edw.*
 12 *Tibiale*, *Harris.*

Bembecia, *Hubn.*

- 13 *Marginata*, *Harr.*
Rubi, *Riley.*
Flavipes, *Hulst.*
 14 *Sequoia*, *Hy. Edw.*
 15 *Superba*, *Hy. Edw.*
 16 *Pleciæformis*, *Walk.*
 17 *Emphytifformis*, *Walk.*

Sciapteron, *Staud.*

- 18 *Robinia*, *Hy. Edw.*
 19 *Cupressi*, *Hy. Edw.*
 20 *Admirandus*, *Hy. Edw.*
 21 *Scepsiformis*, *Hy. Edw.*
 22 *Græfi*, *Hy. Edw.*
 23 *Simulans*, *Gr.*
 24 *Tricincta*, *Harris.*
 25 *Polistiformis*, *Harris.*
 25½ *Anthracipennis*, *Boisd.*

Fatua, *Hy. Edw.*

- 26 *Denudata*, *Harris.**

* The ♂ of this species seems to be *Sesia Asitipennis*, *Bois. Lepid. Heteroc.*, p. 391.

Harmonia, Hy. Edw.

- 27 Morrisonii, *Hy. Edw.*
28 Pini, *Kellicott.*

Podosesia, Mösch.

- 29 Syringæ, *Harris.*
Grotea Longipes, Mösch.
Troch. Bassiformis, Walk.

Albana, Hy. Edw.

- 30 Odyneripennis, *Walk.*
Rubescens, Hulst.
31 Hylotomiformis, *Walk.*
Tanacetii, Hy. Edw.
32 Pyramidalis, *Barnston.*
33 Artemisiæ, *Hy. Edw.*
34 Montana, *Hy. Edw.*
35 Vancouverensis, *Hy. Edw.*
36 Coloradensis, *Hy. Edw.**
37 Resplendens, *Hy. Edw.*
38 Rileyana, *Hy. Edw.*
39 Rutilans, *Hy. Edw.*
40 Torva, *Hy. Edw.*
41 Denotata, *Hy. Edw.*

Sannina, Walk.

- 42 Exitiosa, *Say.*
Uroceriformis, Walk. ♂
var. Fitchii, *Hy. Edw.*
Uroceriformis, Walk. ♀

Ægeria, Fabr.

- 43 Saxifragæ, *Hy. Edw.*
44 Fulvipes, *Harris.*
45 Henshawii, *Hy. Edw.*
46 Hospes, *Walsh.*
47 Pictipes, *G. & R.*
48 Scitula, *Harr.*
49 Pyri, *Harr.*
50 Acerni, *Clem.*
51 Corni, *Hy. Edw.*
52 Tipuliformis, *Lin.*
53 Asiliformis, *Rott.*
54 Verecunda, *Hy. Edw.*
55 Brunneipennis, *Hy. Edw.*
56 Rubrofascia, *Hy. Edw.*
57 Bollii, *Hy. Edw.*
58 Lupini, *Hy. Edw.*
59 Perplexa, *Hy. Edw.*
60 Impropria, *Hy. Edw.*
61 Sexfasciata, *Hy. Edw.*
62 Corusca, *Hy. Edw.*
63 Aureola, *Hy. Edw.*
64 Consimilis, *Hy. Edw.*

- 65 Hyperici, *Hy. Edw.*
66 Eupatorii, *Hy. Edw.*
67 Infirma, *Hy. Edw.*
68 Imitata, *Hy. Edw.*
69 Morula, *Hy. Edw.*
70 Kæbeleii, *Hy. Edw.*
71 Washingtonia, *Hy. Edw.*
72 Decipiens, *Hy. Edw.*
73 Neglecta, *Hy. Edw.*
74 Imperfecta, *Hy. Edw.*
75 Hemizonæ, *Hy. Edw.*
76 Senecioides, *Hy. Edw.*
77 Refulgens, *Hy. Edw.*
78 Opalescens, *Hy. Edw.*
79 Novaroensis, *Behrens.*
80 Gilix, *Hy. Edw.*
81 Minuli, *Hy. Edw.*
82 Madariæ, *Hy. Edw.*
83 Albicornis, *Hy. Edw.*
84 Proxima, *Hy. Edw.*
85 Inusitata, *Hy. Edw.*
86 Nicotianæ, *Hy. Edw.*
87 Tecta, *Hy. Edw.*
88 Lustrans, *Gr.*
89 Gallivora, *Westw.*

Pyrrhotenia, Gr.

- 90 Floridensis, *Gr.*
91 Polygoni, *Hy. Edw.*
92 Fragariæ, *Hy. Edw.*
93 Helianthi, *Hy. Edw.*
94 Achille, *Hy. Edw.*
95 Tepperi, *Hy. Edw.*
96 Eremocarpi, *Hy. Edw.*
97 Meadii, *Hy. Edw.*
98 Orthocarpi, *Hy. Edw.*
99 Texana, *Hy. Edw.*
100 Sapygeformis, *Walk.*
101 Geliformis, *Walk.*

Carmenta, Hy. Edw.

- 102 Pyralidiformis, *Walk.*
Nigella, Hulst.
103 Aureopurpurea, *Hy. Edw.*
104 Ruficornis, *Hy. Edw.*
105 Minuta, *Hy. Edw.*
106 Sanborni, *Hy. Edw.*
107 Fraxini, *Hy. Edw.*

Zenodoxus, G. & R.

- 108 Maculipes, *G. & R.*
109 Heuchere, *Hy. Edw.*
110 Potentillæ, *Hy. Edw.*
111 Canescens, *Hy. Edw.***

* It is probable that 34, 35, 36, are local forms of one species.

** Of this list I have never seen Emphytiformis, *Walk.*; Pleciæformis, *Walk.*; Geliformis, *Walk.*; Hospes, *Walsh.*; Gallivora, *Westw.* The rest are known by me. HY. EDWARDS.

THYRIDÆ.

THYRINI.

Thyris, Illig.

- 1 Maculata, *Harris*.
- 2 Montana, *Hy. Edw.*
- 3 Lugubris, *Boisd.*
var. Sepulchralis, Boisd.

PLATYTHYRINI.

Platythyris, G. & R.

- 4 Oculatana, *Clem.*
Fasciata, G. & R.

ZYGÆNIDÆ.

†HESPERI-SPHINGES.

Alypia, Hubn.

- 1 Octomaculata, *Fabr.*
- 2 Langtonii, *Coup.*
- 3 Mariposa, *G. & R.*
var. Lunata, Stretch.
- 4 Dipsaci, *G. & R.*
- 5 Sacramenti, *G. & R.*
- 6 Grotei, *Boisd.*
§ Androloma.
- 7 Lorquini, *G. & R.*
- 8 MacCullochii, *Kirby.*
- 9 Ridingsii, *Grote.*
- 10 Similis, *Stretch.*
- 11 Brannani, *Stretch.*

Pseudalypia, Hy. Edw.

- 12 Crotchii, *Hy. Edw.*

Edwardsia, Neum.

- 13 Brillians, *Neum.*

Psychomorpha, Harr.

- 14 Epimenis, *Drury.*

Copidryas, Gr.

- 15 Gloveri, *G. & R.*

Eudryas, Boisd.

- 16 Unio, *Hubn.*
Brevipennis, Str.
- 17 Grata, *Fabr.*
Assimilis, Boisd.
- 18 Stæ. Johannis, *Walk.*

Ciris, Gr.

- 19 Wilsonii, *Gr.*

GLAUCOPE.

Horama, Hubn.

- 20 Texana, *Gr.*

Didasys, Gr.

- 21 Belæ, *Gr.*

Læmocharis, H.-S.

- 22 Pertyi, *H.-S.*

Cosmosoma, Hubn.

- 23 Omphale, *Hubn.*

Syntomeida, Harris.

- 24 Ipomææ, *Harr.*

Scepsis, Walk.

- 25 Fulvicollis, *Hubn.*
- 26 Packardii, *Gr.*
- 27 Matthewi, *Hy. Edw.*
- 28 Edwardsii, *Gr.*

Ctenucha, Kirby.

- 29 Virginica, *Charp.*
Latrillianæ, Kby.
- 30 Cressonana, *Gr.*
§ Euctenucha.
- 31 Ochroscapus, *G. & R.*
- 32 Multifaria, *Walk.*
Rubroscapus, Meuet

33 Walsinghamii, *Hy. Edw.*34 Brunnea, *Stretch.*35 Sanguinaria, *Strk.*36 Venosa, *Walk.*37 Harrisii, *Boisd.**Pyrrhoura*, Hulst.38 Robinsonii, *Boisd.***Gnophæla**, Walk.39 Vermiculata, *G. & R.**var. Continua*, *Hy. Edw.*40 Hopfferi, *G. & R.*41 Latipennis, *Boisd.***Acoloithus**, Clem.42 Falsarius, *Clem.***Harrisina**, Pack.43 Americana, *Harr.*44 Coracina, *Clem.*45 Texana, *Stretch.***Triproceris**, Gr.46 Smithsonianus, *Clem.***Pyromorpha**, H.-S.47 Dimidiata, *H.-S.***Lycomorpha**, Harr.48 Pholus, *Drury.*49 Miniata, *Pack.*50 Palmerii, *Pack.*51 Constans, *Hy. Edw.*52 Desertus, *Hy. Edw.***Anatolmis**, Pack.53 Grotei, *Pack.*54 Fulgens, *Hy. Edw.*

CYDOSINÆ.

Cydosia, Westw.55 Aurivitta, *G. & R.**var. Imitella*, *Stretch.***Penthetria**, *Hy. Edw.*56 Majuscula, *Hy. Edw.*57 Parvula, *Hy. Edw.*

BOMBYCES.

LITHOSIÆ.

Nola, Leach.1 Ovilla, *Gr.*2 Sexmaculata, *Gr.*3 Minuscula, *Zell.*4 Fuscula, *Gr.*5 Melanopa, *Zell.***Argyrophyes**, Gr.6 Cilicoides, *Gr.*7 Nigrofasciata, *Zell.**Eustrotia Obaurata*, Morr.**Clemensia**, Pack.8 Albata, *Pack.*9 Umbrata, *Pack.*10 Irrorata, *Hy. Edw.***Crambidia**, Pack.11 Pallida, *Pack.***Hypoprepia**, Hbn.12 Fucosa, *Hbn.**Tricolor*, Fitch.*var. Miniata*, *Kirby.*13 Cadaverosa, *Strk.*14 Inculta, *Hy. Edw.***Cisthene**, Walk.15 Subjecta, *Walk.**Packardii*, Gr.*var. Unifascia*, *G. & R.**var. Tennifascia*, *Harr.***Byssophaga**, Behr.16 Nexa, *Boisd.**Grisea*, Pack.17 Faustina, *Boisd.**var. Fusca*, *Stretch.***Lithosia**, Fabr.18 Bicolor, *Gr.**Argillacea*, Pack.19 Cephalica, *G. & R.*20 Casta, *Sanborn.*21 Candida, *Hy. Edw.*

Euphanessa, Pack.

- 22 Mendica, *Walk.*
Biseriata, H.-S.

Ameria, Walk.

- 23 Unicolor, *Robinson.*

ARCTIDÆ.

Crocota, Hubn.*

- 24 Rubicundaria, *Hubn.*
25 Aurantiaca, *Hubn.*
26 Brevicornis, *Walk.*
27 Ferruginosa, *Walk.*
28 Quinaria, *Gr.*
Choroïna, Reak.
Bimaculata, Saund.
29 Opella, *Gr.*
30 Ostenta, *Hy. Edw.*
31 Treatii, *Gr.*
? Laeta, Bd. in Guer.
32 Fragilis, *Strk.*

Emydia, Boisd.

- 33 Ampla, *Gr.*

Utetheisa, Hubn.

- 34 Bella, *Linn.*
var. Ornatrix, L.

Callimorpha, Latr.

- 35 Clymene, *Esf.*
Carolina, Harr.
36 Interrupto-marginata, *DeB.*
Commæ, Walk.
37 Lecotei, *Boisd.*
Militaris, Harr.
Leucomelas, H.-S.
var. Confinis, *Walk.*
var. Contigua, *Walk.*
var. Fulvicosta, *Clem.*
var. Vestalis, *Pack.*
Tanada Conscita, Walk.

Epicallia, Hubn.

- 38 Virginalis, *Boisd.*
var. Guttata, *Boisd.*

Plataretia, Pack.

- 39 Parthenos, *Harr.*
40 Borealis, *Moeschl.*
41 Hyperborea, *Curt.*
42 Yarrowii, *Stretch.*

Euprepia, Germ.

- 43 Caja, *Linn.*
Americana, Harr.
44 Opulenta, *Hy. Edw.*

Callaretia, Pack.

- 45 Ornata, *Pack.*

Aretia, Schrank.

- 46 Virgo, *Linn.*
var. Parthenice, *Kirby.*
47 Saundersii, *Gr.*
Intermedia, *Stretch.*
48 Stretchii, *Gr.*
49 Achaia, *G. & R.*
var. Barda, *Hy. Edw.*
var. Ochracea, *Stretch.*
50 Blakei, *Gr.*
51 Incorrupta, *Hy. Edw.*
52 Rectilinea, *French.*
53 Phyllira, *Drury.*
54 Figurata, *Drury.*
55 Snowi, *Gr.*
56 Quadrinotata, *Strk.*
57 Celia, *Saund.*
58 Nais, *Drury.*
♂ Phalerata, Harris.
♂ Nais, Hubn.
59 Decorata, *Saund.*
Colorata, Walk.
60 Determinata, *Neum.*
61 F-Pallida, *Strk.*
62 Dahurica, *Boisd.*
63 Quenselii, *Geyer.*
64 Gelida, *Moeschl.*
65 Speciosissima, *Moeschl.*
66 Complicata, *Walk.*
67 Virguncula, *Kirby.*
68 Arizonensis, *Stretch.*
69 Bolanderi, *Stretch.*
70 Nevadensis, *G. & R.*
71 Superba, *Stretch.*
72 Geneura, *Strk.*
73 Williamsii, *Dodge.*
74 Edwardsii, *Stretch.*
75 Mexicana, *G. & R.*
? Antholea, Boisd.
76 Anna, *Gr.*
77 Persephone, *Gr.*
78 Arge, *Drury.*
Dione, Ab. & S.
79 Michabo, *Gr.*
80 Placencia, *A. & S.*
81 Flammea, *Neum.*
præc. var.?
82 Pallida, *Pack.*

* After examining a great many specimens, I cannot believe that Mr. Reakirt's descriptions cover different species from those registered here, and which antedated his paper.

Leptaretia, Stretch.

- 83 Decia, *Boisd.*
 84 Lena, *Boisd.*
Californicæ, Walk.
 85 Dimidiata, *Stretch.*

Kodiosoma, Stretch.

- 86 Fulva, *Stretch.*
 87 Nigra, *Stretch.*
 88 Tricolor, *Stretch.*
 89 Eavesii, *Stretch.*

Nemcophila, Steph.

- 90 Petrosa, *Walk.*
var. Cræspitis, *Boisd.*
var. Cichorii, *Boisd.*
var. Geometrica, *Gr.*
 91 Scudderi, *Pack.*
 92 Modesta, *Pack.*

Sciraretia, Pack.

- 93 Echo, *Abb. & Sm.*
 94 Clio, *Pack.*

Eclypia, Clem.

- 95 Bivittata, *Clem.*

Pyrrharetia, Pack.

- 96 Isabella, *Abb. & S.*
Californica, *Pack.*

Phragmatobia, Steph.

- 97 Rubricosa, *Harr.*

Antaretia, Hubn.

- 98 Vagans, *Boisd.*
Pteridis, *Hy. Edw.*
var. Rufula, *Boisd.*
 99 Punctata, *Pack.*
var. Proba, *Hy. Edw.*
 100 Rubra, *Neum.*

Lencaretia, Pack.

- 101 Acrea, *Drury.*
& Caprotina, *Drury.*
Californica, *Pack.*
 102 Albida, *Stretch.*

Spilosoma, Steph.

- 103 Virginica, *Fabr.*
 104 Vestalis, *Pack.*
 105 Latipennis, *Stretch.*

Hyphantria, Harris.

- 106 Cunea, *Drury.*
Punctatissima, *A. & S.*
Textor, *Harris.*
Punctata, *Fitch.*

Euchaetes, Harris.

- 107 Egle, *Drury.*
 108 Eglensis, *Clem.*
 109 Abdominalis, *Gr.*
Pygarcia Abd. *Gr.*
 110 Spraguei, *Gr.*
 111 Elegans, *Stretch.*
 112 Inopinatus, *Hy. Edw.*
 113 Oregonensis, *Stretch.*
 114 Collaris, *Fitch.*
Tanada Antica, *Walk.*

Vaenessodes, G. & R.

- 115 Clarus, *G. & R.*

Arachnis, Hubn.

- 116 Picta, *Pack.*

Euerythra, Harvey.

- 117 Phasma, *Harr.*

Ecpantheria, Hubn.

- 118 Scribonia, *Stoll.*
Oculatissima, *A. & S.*
Cuneigunda, *DeB.*
 119 Reducta, *Gr.*

Malisidota, Hubn.

- 120 Tessellata, *A. & S.*
Antiphola, *Walsh.*
Dimor. var. larv., *Harrisii W.*
 121 Cinctipes, *Gr.*
 122 Caryæ, *Harris.*
Annulifascia, *Walk.*
Porphyrina, *H.-S.*
 123 Agassizii, *Pack.*
var. Alni, *Hy. Edw.*
 124 Maculata, *Harris.*
Fulvoflava, *Walk.*
Guttifera, *H.-S.*
 125 Californica, *Walk.*
Angulifera, *Walk.*
 126 Edwardsii, *Pack.*
Translucida, *Walk.*
 127 Labecula, *Gr.*
 128 Argentata, *Pack.*
 129 Sobrina, *Stretch.*
 130 Davisii, *Hy. Edw.*

- 131 *Ingens*, Hy. Edw.
 132 *Ambigua*, Strk.
 133 *Roseata*, Walk.
 134 *Trigona*, Gr. §

Euhalisidota, Gr.

- 135 *Longa*, Gr.

DASYCHIRÆ.

Orgyia, Ochs.

- 136 *Nova*, Fitch.
 137 *Badia*, Hy. Edw.
 138 *Vetusta*, Boisd.
 139 *Gulosa*, Hy. Edw.
 140 *Cana*, Hy. Edw.
 141 *Definita*, Pack.
 142 *Leucosigma*, A. & S.

Parorgyia, Pack.

- 143 *Leucophæa*, A. & S.
 144 *Clintonii*, G. & R.
 145 *Achatina*, A. & S.
 146 *Parallela*, G. & R.
 147 *Obliquata*, G. & R.
 148 *Cinnamomea*, G. & R.
 149 *Basilava*, Pack.

Laria, Curt.

- 150 *Rossii*, Curt.

Dasychira, Steph.

- 151 *Lintneri*, Gr.

Carama, Walk.

- 152 *Cretata*, Gr.

Lagon, Harris.

- 153 *Crispata*, Pack.
 154 *Opercularis*, A. & S.
lanuginosa, Clem.
 155 *Pyxidifera*, A. & S.

COCHLIDIAÆ.

Euclea, Hubn.

- 156 *Querceti*, H.-S.
Cippus, † Harr.
Monitor, Pack.
 157 *Quercicola*, H.-S.
 158 *Bifida*, Pack.
 159 *Ferruginea*, Pack.
 160 *Pænulata*, Clem.
 161 *Incisa*, Harvey.

Parasa, Moore.

- 162 *Chloris*, H.-S.
Viridus, Reak.
Vernata, Pack.
 163 *Fraterna*, Gr.

Monoleuca, G. & R.

- 164 *Semifascia*, Walk.
 165 *Sulfurea*, Gr.

Nochelia, Clem.

- 166 *Tardigrada*, Clem.

Empretia, Clem.

- 167 *Stimulea*, Clem.

Phobotron, Hubn.

- 168 *Pithecium*, A. & S.
Abbotana, Hubn.
 169 *Hyalinum*, Walsh.
 170 *Nigricans*, Pack.

Limacodes, Latr.

- § *Eulimacodes*, Butl.
 171 *Scapha*, Harris.
Unifera, Walk.
 § *Limacodes*.
 172 *Trigona*, Hy. Edw.
 173 *Biguttata*, Pack.
 174 *Y-Inversa*, Pack.
 175 *Rectilinea*, G. & R.
Latomia, Harvey.
 § *Lithacodes*, Pack.
 176 *Fasciola*, H.-S.
Laticlavata, Clem.
 177 *Flexuosa*, Gr.
 178 *Caesonia*, Gr.

Sisyrosea, Gr.

- 179 *Inornata*, G. & R.
 180 *Nasoni*, Gr.
 ? *Ruic*, Hy Edw.

Adoneta, Clem.

- 181 *Spinuloides*, H.-S.
Voluta, Clem.
 182 *Leucosigma*, Pack.
 183 *Pygmæa*, G. & R.

Heuretes, G. & R.

- 184 *Picticornis*, G. & R.

Packardia, G. & R.

- 185 *Fusca, Pack.*
 186 *Ocellata, Gr.*
 187 *Geminata, Pack.*
 188 *Albipuncta, Pack.*
 189 *Goodellii, Gr.*
 190 *Nigripunctata, Good.*

Artaxa, Walk.

- 191 *Ingenita, Hy. Edw.*

Heterogenea, Knoch.

- 192 *Shurtleffii, Pack.*

Isa, Pack.

- 193 *Textula, H.-S.*

Tortricidia, Pack.

- 194 *Pallida, H.-S.*
 195 *Testacea, Pack.*
 196 *Flavula, H.-S.*

Kronaea, Reak.

- 197 *Minuta, Reak.*

PSYCHID.E.

Psyche, Ochs.

- 198 *Confederata, Gr.*
 199 *Fragmentella, Hy. Edw.*
 200 *Coniferella, Hy. Edw.*

Platæcticus, Pack.

- 201 *Gloveri, Pack.*

Thyridopteryx, Steph.

- 202 *Ephemereformis Steph.*
Coniferarum, Harr.
 203 *Meadii, Hy. Ed.*

Oiketicus, Guild.

- 204 *Abbotii, Gr.*
 205 *Davidsonii, Hy. Ed.*

Lacosoma, Grote.

- 206 *Chiridota, Gr.*

Perophora, Harr.

- 207 *Melsheimerii, Harr.*
Egenaria, Walk.

DIOPTID.E.

Phryganidia, Pack.

- 208 *Californica, Pack.*

PTILODONTES.

Ichthyura, Hubn.

- 209 *Inclusa, Hubn.*
Americana, Harr.
 209½ *Strigosa, Gr.*
 210 *Ornata, G. & R.*
 211 *Palla, French.*
 212 *Inversa, Pack.*
 213 *Indentata, Pack.*
 214 *Albosigma, Fitch.*
 215 *Vau, Fitch.*

Apatelodes, Pack.

- 216 *Torrefacta, A. & S.*
 217 *Angelica, Grote.*
Hyalinopuncta, Pack.

Datana, Walk.

- 218 *Ministra, Drury.*
 219 *Angusii, G. & R.*
 220 *Major, G. & R.*
 221 *Integerrima, G. & R.*
 222 *Floridana, Graef.*
 223 *Contracta, Walk.*
 224 *Perspicua, G. & R.*

Nadata, Walk.

- 225 *Gibbosa, A. & S.*
 226 *Doubledayi, Pack.*

Hyparpax, Hubn.

- 227 *Aurora, A. & S.*
 ♂ *Dnyocampa Venusta, Walk.*
 ♀ *Sangata Resca, Walk.*
Cosmia sp. Strk.

Glyphisia, Boisdu.

- 228 *Trilineata, Pack.*
 ? *Septentrionalis, Walk.*

Drynobia, Dup.

- 229 *Tortuosa, Tepper.*

Lophopteryx, Steph.

- 229½ *Americana, Harv.*

Notodonta, Ochs.

- 221 *Stragula, Gr.*
 222 *Basitriens, Walk.*
 223 *Simplaria, Graef.*

Lophodonta, Pack.

- 224 Ferruginea, *Pack.*
 225 Angulosa, *A. & S.*
 226 Georgica, *H.-S.*

Pheosia, Hubn.*

- 227 Rimosa, *Pack.*
 228 Dimidiata, *H.-S.*
 229 Californica, *Stretch.*

Nerice, Walk.

- 230 Bidentata, *Walk.*

Edema, Walk.

- 231 Albifrons, *A. & S.*
 232 Albicosta, *Hubn.*
 233 Packardii, *Morr.*

Ellida, Gr.

- 233½ Gelida, *Gr.*

Scirodonta, G. & R.

- 234 Bilineata, *Pack.*
Het. Turbida, Walk.
Ed. ? Associata, Walk.
Gluph. Ulmi, Harr.

Oedemasia, Pack.

- 235 Concinna, *A. & S.*
 236 Eximia, *Gr.*
 237 Nitida, *Pack.*
 238 Badia, *Pack.*
 238½ Salicis, *Hy. Edw.*

Dasylophia, Pack.

- 239 Anguina, *A. & S.*
 ♀ *Cucullifera*, *H.-S.*
Punctata, Walk.
 240 Interna, *Pack.*
Tripartita, Walk.

Schizura, Doubl.

- 241 Ipomeæ, *Doubl.*

Cœlodasys, Pack.

- 242 Unicornis, *A. & S.*
 242½ Conspecta, *Hy. Edw.*
 243 Edmandsii, *Pack.*
 244 Apicalis, *G. & R.*

- 245 Leptinoides, *Gr.*
 246 Mustelina, *Pack.*
 247 Biguttata, *Pack.*
Ducens, Walk.
Compta, Walk.
 ? *Corticea*, Walk.
var. Cinereofrons, *Pack.*
Ustipennis, Walk.
 248 Telifer, *Gr.*
 249 Harrisii, *Pack.*

Ianassa, Walk.

- 250 Lignicolor, *Walk.*
Virgata, *Pack.*
Transversata, Walk.
 ♀ *Lignigera*, Walk.

Heterocampa, Doubl.

- 251 Astarte, *Doubl.*
 ♀ *Varia*, Walk.
 252 Obliqua, *Pack.*
Var. ♀ Brunnea, *G. & R.*
 253 Trouvelotii, *Pack.* †
 254 Subrotata, *Harvey.*
 255 Celtiphaga, *Harvey.*
 256 Pulverea, *G. & R.*
 257 Marthesia, *Cram.*
Tessella, *Pack.*
 258 Elongata, *G. & R.*
 259 Guttivitta, *Walk.*
Biundata †, *Pack.*
Mucorea, *H.-S.*
 260 Biundata, *Walk.*
Olivata, *Pack.*
Semiplaga, Walk.
Viridescens, Walk.
 261 Umbrata, *Walk.*
 262 Cinerea, *Pack.*
Misogada Sobria, Walk.
 263 Unicolor, *Pack.*
 264 Marina, *Pack.*
 265 Subalbicans, *Gr.*
Tanada Cinerascens, Walk.
 ? *Lochmæus Manteo*, Doubl.
 266 Belfragei, *Gr.*
 267 Chapmanii, *Gr.*
 268 Thyatiroides, *Walk.*

Litodonta, Harvey.

- 269 Hydromeli, *Harv.*
var. Fusca, *Harv.*

* Perhaps these names will prove to refer to a form identical with the European species.

† Perhaps this is identical with the female variety of *Obliqua*, with a brown patch on primaries, figured by Abbot and ourselves and named *Brunnea*. From a photograph neither *Salicis* nor *Conspecta* belong to *Heterocampa*. I refer to Page xii, List, 1868, for notes on Abbot's unpublished Plates.

Cerura, Schrank.

- 270 Borealis, *Boisd.*
 271 Occidentalis, *Lintu.*
 272 Aquilonaris, *Lintu.*
 273 Cinerea, *Walk.*
 274 Scitiscrypta, *Walk.*
 275 Multiscripta, *Riley.*
 276 Candida, *Lintu.*

PLATYPTERICES.

Platypteryx, Lasp.

- 277 Siculifer, *Pack.*
 278 Arcuata, *Walk.*
Fabula, Gr.
 279 Genicula, *Gr.*

Prionia, Hubn.

- 280 Bilineata, *Pack.*

Dryopteris, Gr.

- 281 Rosea, *Walk.*
Formula, Gr.
Americana, H.-S.
var. Marginata, *Walk.*
 282 Irrorata, *Pack.*

ATTACI.

Actias, Leach.

- 283 Luna, *Linn.*
var. Dictynna, *Walk.*

Telea, Hubn.

- 284 Polyphemus, *Cram.*

Attaeus, Linn.

- 285 Splendidus, *DeB.*

Philosamia, Gr.

- 286 *Cynthia*, *Drury.*

Callosamia, Pack.

- 287 Promethea, *Drury.*
 288 Angulifera, *Walk.*

Platysamia, Gr.

- 289 Cecropia, *Linn.*
 290 Columbia, *Smith.*
 291 Gloveri, *Strk.*
 292 Ceanothi, *Behr.*
Californica, Gr.

Saturnia, Schrank.

- 293 Galbina, *Clem.*
 294 Mendocino, *Behrens.*

HEMILEUCINI.

Pseudohazis, G. & R.

- 295 Eglanterina, *Boisd.*
var. Shastaensis, *Behrens.*
var. Nuttallii, *Strk.*
 296 Hera, *Harris.*
Pica, *Walk.*

Hemileuca, Walk.

- 297 Maia, *Drury.*
var. Nevadensis, *Str.*
 298 Juno, *Pack.*
Diana, *Pack.*
 299 Yavapai, *Neum.*
 300 Grotei, *Hopffer.*
 301 Neumœgeni, *Hy. Edw.*

Euleucophaeus, Pack.

- 302 Tricolor, *Pack.*
 303 Sororius, *Hy. Edw.*

Hyperchiria, Hubn.

- 304 Io, *Fabr.*
Varia, *Walk.*
var. Liliith, *Strk.*
 305 Zelleri, *G. & R.*
 306 Pamina, *Neum.*
var. Aurosea, *Neum.*

Coloradia, Blake.

- 307 Pandora, *Blake.*

Quadrina, Gr.

- 308 Diazoma, *Gr.*

CERATOCAMPADÆ.

Eacles, Hubn.

- 309 Imperialis, *Drury.*
Imperatoria, A. & S.
var. Didyma, *DeB.*

Citheronia, Hubn.

- 310 Regalis, *Fabr.*
Regia, A. & S.
Laocoon†, *Stoll.*
 311 Mexicana, *G. & R.*
 312 Sepulcralis, *G. & R.*

Sphingicampa, Walsh.

- 313 Bicolor, *Harris*.
 ♀ *Bicolor*, Walsh.
 ♂ ♀ *Distigma*, Walsh.
 314 Bisecta, *Lintn.*
 315 Quadrilineata, *G. & R.*
 316 Albolineata, *G. & R.*
Raspa, Boisd.
 317 Heiligbrodti, *Harvey*.

Anisota, Hubn.

- 318 Stigma, *Fabr.*
 319 Senatoria, *A. & S.*
 320 Virginensis, *Drury*.
Pellucida, A. & S.

Dryocampa, Harris.

- 321 Rubicunda, *Fabr.*
var. Alba, *Grote*.

LACHNEIDES.

Thauma, *Hy. Edw.*

- 322 Ribesii, *Hy. Edw.*

Gloveria, Pack.

- 323 Arizonensis, *Pack*.

Clisiocampa, Curtis.

- 324 Californica, *Pack*.
Pseudoneustria, Boisd.
 325 Fragilis, *Stretch*.
 326 Constricta, *Stretch*.
 327 Strigosa, *Stretch*.
 328 Erosa, *Stretch*.
 329 Thoracica, *Stretch*.
 330 Americana, *Harris*.
Decipiens, Walk.
Frutetorum, Boisd.
 331 Disstria, *Hubn.*
Sylvatica, Harris.
Drupacearum, Boisd.

Gastropacha, Ochs.

- 332 Americana, *Harris*.
 333 Ferruginea, *Pack*.
 334 Carpinifolia, *Boisd*.
 335 Californica, *Pack*.
 336 Mildei, *Stretch*.

Heteropacha, Harvey.

- 337 Rileyana, *Harv.*

Artace, Walk.

- 338 Punctistriga, *Walk*.

Tolype, Hubn.

- 339 Velleda, *Stoll*.
 340 Laricis, *Fitch*.
 ♂ *Minuta*, Gr.

TEREDINES.

Hypopta, Hubn.

- 341 Bertholdi, *Gr.*

Cossus, Fabr.

- 342 Centerensis, *Lintn.*
 343 Reticulatus, *Lintn.*
 344 Undosus, *Lintn.*
 345 MacMurtriei, *Peale*.
Plagiatus, Walk.
 346 Populi, *Walk*.
 347 Angrezi, *Bailey*.

Prionoxystus, Gr.

- 348 Robiniae, *Peck*.
 ♀ *Crepera*, *Harr*.
 349 Querciperda, *Fitch*.

Zeuzera, Latr.

- 350 Canadensis, *H.-S.*

Cossula, Bailey.

- 351 Magnifica, *Bailey*.

HEPIALI.

Hepialus, Fabr.

- §
 352 Auratus, *Gr.*
 §
 353 Argenteomaculatus, *Harr*.
 354 Quadriguttatus, *Gr.*
Arg. † Harr. L. Sup
 355 Purpurascens, *Pack*.
 356 Argentata, *Pack*.
 357 Thule, *Strk*.
 358 Hyperboreus, *Moeschl*.
 359 Pulcher, *Gr.*
 360 Behrensii, *Stretch*.
var. Tacomæ, Hy. Eazw
var. Montanus, Stretch
 361 Mathewi, *Hy. Edw.*
 362 Rectus, *Hy. Edw.*
 363 Anceps, *Hy. Edw.*
 364 Sequoiolus, *Behrens*.
 365 Mendocinulus, *Behrens*.
 366 Baroni, *Behrens*.
 367 Californicus, *Boisd*.
 368 Hectoides, *Boisd*.
 369 Lenzi, *Behrens*.
 370 Labradoriensis, *Pack*.
 371 Mustelinus, *Pack*.
 372 Gracilis, *Gr.*
 373 Inutilis, *Hy. Edw*
 374 Desolatus, *Str.*
 375 Modestus, *Hy. Edw*

NOCTUÆ.

BOMBYCIÆ.

Leptina, Guen.

- 1 Dormitans, *Guen.*
- 2 Latebricola, *Gr.*
- 3 Ophthalmica, *Guen.*
- 4 Australis, *Gr.*
- 5 Doubledayi, *Guen.*

Bombycia, Hubn.

- 6 Improvisa, *Hy. Edw.*
- 7 Semicircularis, *Gr.*

Thyatira, Ochs.

- 8 Lorata, *Gr.*
- 9 Pudens, *Guen.*

Pseudothyatira, Gr.

- 10 Cymatophoroides, *Guen.*
var. Expultrix, Gr.

Habrosyne, Hubn.

- 11 Scripta, *Gosse.*
Abiassa, Guen.

NOCTUELITÆ.

(Nonfasciatæ.)

DICOPINÆ.

Entolype, Gr.

- 12 Rolandi, *Gr.*
Vernalis, Morr.

Dicopis, Gr.

- 13 Muralis, *Gr.*
- 14 Viridescens, *Walk.*
- 15 Electilis, *Morr.*
- 16 Depilis, *Gr.*
- 17 Thaxterianus, *Gr.*
- 18 Damalis, *Gr.*

Copipanolis, Gr.

- 19 Cubilis, *Gr.*

BOMBYCOIDEA.

Audela, Walk.

- 20 Acronyctoides, *Walk.*
Leucomelana, Morr.

Platycerura, Pack.

- 21 Furcilla, *Pack.*

Charadra, Walk.

- 22 Propinquilinea, *Gr.*
- 23 Deridens, *Guen.*
Contigua, Walk.
Circulifera, Walk.
- 24 Dispulsa, *Morr.*
- 25 Palata, *Gr.*

Raphia, Hubn.

- 26 Abrupta, *Gr.*
- 27 Frater, *Gr.*
Personata, Walk.

Feralia, Gr.

- 28 Jocosa, *Guen.*

Momaphana, Gr.

- 29 Comstocki, *Gr.*

Diphthera, Hubn.

- 30 Fallax, *H.-S.*

Apatela, Hubn.§ *Triaena.*

- 31 Vinnula, *Gr.*
- 32 Paupercula, *Gr.*
- 33 Exilis, *Gr.*
- 34 Grisea, *Walk.*
- 35 Tritona, *Hubn.*
- 36 Falcula, *Gr.*
- 37 Albarufa, *Gr.*
Walkeri, Andr.
- 38 Dentata, *Gr.*
- 39 Occidentalis, *G. & R.*
- 40 Telum, *Guen.*
- 41 Lobeliæ, *Guen.*
- 42 Morula, *G. & R.*
- 43 Furcifera, *Guen.*
- 44 Hasta, *Guen.*
- 45 Tota, *Gr.*
- 46 Thoracica, *Gr.*
- 47 Interrupta, *Boisd.*
- 48 Quadrata, *Gr.*
- 49 Radcliffei, *Harv.*
- 50 Spinigera, *Guen.*

§ *Focheaera*.
51 *Funeralis*, *G. & R.*
Americana, Scudd.

§
52 *Innotata*, *Guen.*
Graefii, *Gr.*
§ *Merolonche*.

53 *Spinea*, *Gr.*
54 *Lupini*, *Behr.*
§ *Acronycta*.
55 *Lepusculina*, *Guen.*
Populi, *Riley.*

56 *Felina*, *Gr.*
57 *Insita*, *Walk.*
§ *Megacronycta*.
58 *Americana*, *Harr.*

59 *Dactylina*, *Gr.*
60 *Hastulifera*, *A. & S.*
§ *Apatela*.
61 *Rubricoma*, *Guen.*
62 *Luteicoma*, *G. & R.*
63 *Pallidicoma*, *Gr.*

§
64 *Brumosa*, *Guen.*
Verrillii, *Gr.*
Fasciata, *Walk.*
Impressa, *Walk.*

65 *Distans*, *Gr.*
66 *Subochrea*, *Gr.*
67 *Noctivaga*, *Gr.*
68 *Superans*, *Guen.*
69 *Persuasa*, *Harv.*
70 *Perdita*, *Gr.*
71 *Afflicta*, *Gr.*
72 *Longa*, *Guen.*
73 *Harveyana*, *Gr.*
74 *Clarescens*, *Guen.*

§ *Lepitoreuma*.
75 *Ovata*, *Gr.*
76 *Hamamelis*, *Guen.*
77 *Haesitata*, *Gr.*
78 *Increta*, *Morr.*
79 *Dissecta*, *G. & R.*

§ *Arietomyscis*.
80 *Sperata*, *Gr.*
§ *Mastiphanes*.

81 *Edolata*, *Gr.*
82 *Xyliniformis*, *Guen.*
Xylinoides, *Guen.*

83 *Extricata*, *Gr.*
83½ *Lithospila*, *Gr.*
§ *Eulonche*.

84 *Oblinita*, *A. & S.*
85 *Lanceolaria*, *Gr.*
86 *Insolita*, *Gr.*

Arsilonche, *Led.*

87 *Albovenosa*, *G.*
Henrici, *Gr.*
var. Evanidum, *Gr.*
Abeerr. Fumosum, *Morr.*

Copablepharon, *Harv.*

88 *Absidum*, *Harv.*
Grandis, *Strk.*
89 *Album*, *Harv.*

Harrisimemna, *Gr.*

90 *Trisignata*, *Walk.*
Sexguttata, *Harris.*

Cerma, *Hubn.*

92 *Cora*, *Hubn.*

Polygrammate, *Hubn.*

93 *Hebraicum*, *Hubn.*

Microcelia, *Guen.*

94 *Fragilis*, *Guen.*
95 *Diphieroides*, *Guen.*
var. Obliterata, *Gr.*

Bryophila, *Tr.*

96 *Lepidula*, *Gr.*
97 *Corticosa*, *Guen.*
98 *Viridata*, *Harv.*
99 *Teratophora*, *H.-S.*
Inscripta, *Walk.*
100 *Nana*, *Hubn.*

Cyathissa, *Gr.**

101 *Percara*, *Morr.*

Chytonix, *Gr.*

102 *Palliaticula*, *Guen.*
§ *Faspis*, *Guen.*
103 *Sensilis*, *Gr.*

NOCTUINÆ.

Agrotis, *Hubn.*

104 *Chardinyi*, *Boisd.*
Gilvipennis, *Gr.*
105 *Badicollis*, *Gr.*
106 *Dilucida*, *Morr.*
107 *Janualis*, *Gr.*
108 *Pallidicollis*, *Gr.*
Cineveicollis †, *Gr.*
109 *Opacifrons*, *Gr.*
110 *Sigmoides*, *Guen.*
111 *Perattenta*, *Gr.*
112 *Attenta*, *Gr.*
113 *Stellaris*, *Gr.*
114 *Phyllophora*, *Gr.*
? Dahlia †, *Guen.*
115 *Rubifera*, *Gr.*
Rubi †, *Gr.*
116 *Conflua*, *Tr.*

* In form and vestiture near to *Polygrammate*, differing from all the *Bryophilid* genera in the cut on external margin below apices of the fore wings.

- 117 Perconflua, *Gr.*
 118 Rosaria, *Gr.*
 119 Viralis, *Gr.*
 120 Esurialis, *Gr.*
 121 Quarta, *Gr.*
 122 Hilliana, *Harv.*
 123 Elimata, *Guen.*
 124 Fishii, *Gr.*
 125 Baja, *S. V.*
 126 Normaniana, *Gr.*
 Triangulum †, *Auct.*
 Ohtusa, *Spey.*
 127 Conchis, *Gr.*
 128 Mirabilis, *Gr.*
 129 C-nigrum, *Linn.*
 130 Bicarnea, *Guen.*
 T. Ducens, *Walk.*
 M. Plagiata, *Walk.*
 131 Innotabilis, *Gr.*
 132 Washingtoniensis, *Gr.*
 133 Treatii, *Gr.*
 134 Juncta, *Gr.*
 135 Haruspica, *Gr.*
 Unimacula †, *Morr.*
 Grandis, *Spey.*
 136 Sierræ, *Harv.*
 137 Mercenaria, *Gr.*
 138 Inconcinna, *Harv.*
 139 Auxiliatis, *Gr.*
 var. Agrestis, *Gr.*
 var. Introferens, *Gr.*
 140 Perexcellens, *Gr.*
 Excellens †, *Gr.*
 141 Gularis, *Gr.*
 ♀ *Turris*, *Gr.*
 142 Dapsilis, *Gr.*
 143 Immixta, *Gr.*
 144 Wockei, *Moeschl.*
 145 Docilis, *Gr.*
 146 Okakensis, *Pack.*
 147 Umbrata, *Pack.*
 148 Spissa, *Guen.*
 149 Fennica, *Tausch.*
 150 Evanidalis, *Gr.*
 151 Subgothica, *Harv.*
 Jaculifera, *Guen.*
 152 Tricosa, *Lintn.**
 var. A. Jaculifera, *Guen.*
 153 Herilis, *Gr.*
 154 Plecta, *Linn.*
 155 Ochrogaster, *Guen.*
 156 Vittifrons, *Gr.*
 157 Obeliscoides, *Guen.*
 Sexatilis, *Gr.*
 158 Lacunosa, *Morr.*
 159 Insularis, *Gr.*
 160 Costata, *Gr.*
 161 Idahoensis, *Gr.*
 162 Formalis, *Gr.*
 163 Facula, *Gr.*
 164 Emarginata, *Gr.*
 165 Exsertistigma, *Morr.*
 166 Observabilis, *Gr.*
 167 Bicollaris, *Gr.*
 168 Lætula, *Gr.*
 169 Cupidissima, *Gr.*
 170 Cupida, *Gr.*
 var. Brunneipennis, *Gr.*
 171 Alternata, *Gr.*
 172 Variata, *Gr.*
 173 Varix, *Gr.*
 var. praec.?
 174 Orbis, *Gr.*
 175 Minimalis, *Gr.*
 176 Placida, *Gr.*
 177 Discoidalis, *Gr.*
 178 Brunneicollis, *Gr.*
 179 Clandestina, *Harris.*
 M. Unicolor, *Walk.*
 180 Havilæ, *Gr.*
 181 Messoria, *Harris.*
 182 Scandens, *Riley.*
 183 Murenula, *G. & R.*
 184 Bostoniensis, *Gr.*
 185 Dolis, *Gr.*
 186 Catenula, *Gr.*
 187 Choris, *Harv.*
 188 Atrifera, *Gr.*
 189 Vernilis, *Gr.*
 190 Imperita, *Hubn.*
 Comparata, *Moesch.*
 Saxigena, *Morr.*
 191 Speciosa, *Hubn.*
 Perquiritata, *Morr.*
 Baileyana, *Gr.*
 Acr. Mixta, *Walk.*
 192 Euroides, *Gr.*
 Perpura, *Morr.*
 193 Milleri, *Gr.*
 194 Vocalis, *Gr.*
 195 Hollemani, *Gr.*
 196 Silens, *Gr.*
 197 Albalis, *Gr.*
 198 Cloanthoides, *Gr.*
 199 Infimatis, *Gr.*
 200 Lagena, *Gr.*
 201 Biclavis, *Gr.*
 202 Pluralis, *Gr.*
 202½ Pleuritica, *Gr.*
 203 Brocha, *Morr.*
 Bochus, *Morr.*
 204 Pitychrous, *Gr.*
 Personata, *Morr.*
 205 Niveivenosa, *Gr.*
 206 Olivalis, *Gr.*
 207 Quadridentata, *G. & R.*
 208 Cicatricosa, *G. & R.*
 209 Recula, *Harv.*

* This form should, perhaps, bear Guenee's name, being later separated from Guenee's *Jaculifera* than *Herilis*. The typical form of *Jaculifera* exactly corresponds to *Subgothica* of Stephens.

- 210 Ridingsiana, *Gr.*
 211 Lewisii, *Gr.*
 212 Tessellata, *Harris.*
 Maizi, Fitch.
 var. Atropurpurea, *Gr.*
 213 Versipellis, *Gr.*
 214 Colata, *Gr.*
 215 Campestris, *Gr.*
 var. Decolor, *Morr.*
 ? *M. Declarata*, Walk.
 216 Albipennis, *Gr.*
 var. Nigripennis, *Gr.*
 217 Redimicula, *Morr.*
 218 Verticalis, *Gr.*
 218½ Tesselloides, *Gr.*
 219 Strigilis, *Gr.*
 220 Genuculata, *G. & R.*
 221 Collaris, *G. & R.*
 222 Badinodis, *Gr.*
 223 Apposita, *Gr.*
 224 Bollii, *Gr.*
 Hilaris†, *Gr.*
 225 Hero, *Morr.*
 226 Atrifrons, *Gr.*
 227 Piscipellis, *Gr.*
 228 Citricolor, *Gr.*
 229 Perpolita, *Morr.*
 230 Velleripennis, *Gr.*
 231 Pastoralis, *Gr.*
 232 Fauna, *Morr.*
 233 Balinitis, *Gr.*
 234 Cochranii, *Riley.*
 Repentis, *G. & R.* Guen. MS.
 235 Friabilis, *Gr.*
 236 Infracta, *Morr.*
 237 Fuscigera, *Gr.*
 238 Brunneigera, *Gr.*
 239 Rubefactalis, *Gr.*
 240 Satis, *Harv.*
 241 Micronyx, *Gr.*
 242 Plagigera, *Morr.*
 243 Fumalis, *Gr.*
 244 Comosa, *Morr.*
 245 Rilejana, *Morr.*
 246 Feniseca, *Harv.*
 247 Littoralis, *Pack.*
 248 Intrita, *Morr.*
 249 Carissima, *Harv.*
 250 Eriensis, *Gr.*
 251 Rava, *H.-S.*
 252 Fusca, *Boisd.*
 Septentrionalis, *M.*
 253 Oblata, *Morr.*
 254 Opipara, *Morr.**
 Islandica, *Moesch.*
 255 Dissona, *Moesch.*
 256 Worthingtoni, *Gr.*
 257 Sublatis, *Gr.*
 258 Munis, *Gr.*
 259 Violaris, *G. & R.*
 260 Wilsonii, *Gr.*
 261 Aequalis, *Harv.*
 262 Specialis, *Gr.*
 263 Basalis, *Gr.*
 264 Mimallonis, *Gr.*
 Rufipennis, *Gr.*
 265 Gagates, *Gr.*
 266 Catherina, *Gr.*
 Manifestolabes, *Morr.*
 267 Monochromatea, *Morr.*†
 268 Manifesta, *Morr.*
 269 Staudingeri, *Moeschl.*
 270 Westermanni, *Staud.*
 271 Drewseni, *Staud.*
 272 Olivia, *Morr.*
 273 Hortulana, *Morr.*
 274 Tristicula, *Morr.*
 275 Orthogonia, *Morr.*
 276 Fernaldi, *Morr.*
 277 Morrisoniana, *Riley.*
 278 Gladiaria, *Morr.*
 279 Acclivis, *Morr.*
 280 Venerabilis, *Walk.*
 Incallida, *Walk.*
 281 Volubilis, *Harv.* ††
 282 Stigmosa, *Morr.*
 283 Vancouverensis, *Gr.*
 284 Semiclarata, *Gr.*
 285 Gravis, *Gr.*
 286 Vapularis, *Gr.*
 287 Aeneipennis, *Gr.*
 288 Opaca, *Harv.*
 289 Nanalis, *Gr.*
 290 Clodiana, *Gr.*
 291 Annexa, *Tr.*
 292 Malefida, *Guen.*
 293 Ypsilon, *Rott.*
 Suffusa, *S. V.*
 Telifera, *Harr.*
 var. Idonea, *Cram.*

* This species from Mt. Washington is identical with the Labradorian species determined by Moeschler as *Islandica*. But I have doubts, since seeing an Icelandic specimen, as to whether Moeschler is right. In restoring *Opipara* for this species, I do not in the slightest way change my opinion as to the identity of the Mt. Washington and Labradorian species.

† I have seen the type of this species in coll. Bost. Soc. N. Hist. It is otherwise unknown to me: The description is slight (Proc. B.S. N. H 165, 1874). Afterwards I saw the type of *Mythimna Subporphyria*, Walk., in Brit. Mus., and it suggested this species of Mr. Morrison's.

†† Mr. Morrison was strongly of opinion that his *Stigmosa* is a distinct species, which I had doubted at first. Afterwards the differences seemed to me constant. *Stigmosa* is, however, of later publication than *Volubilis*, which latter name must stand for the species in case *Stigmosa* proves to be a variety. In fact, Mr. Morrison compares it in his original description with *Volubilis* and *Gravis*. This does not deter the authors of the Brooklyn Check List, who also place *Oncocnemis Chandleri* as a variety of *Riparia*, which latter was originally published as a variety of *Chandleri*.

- 294 Saucia, *Hubn.*
Inermis, Harr.
Ortonii, Pack.
var. Margaritosa, Harv.
- 295 Texana, *Gr.*
- 296 Pellucidalis, *Gr.*
- 297 Rudens, *Harv.*
 § *Anicla*, Gr.
- 298 Incivis, *Guen.*
Alabama, Gr.
- 299 Lubricans, *Guen.*
- 300 Caenis, *Gr.*
- 301 Simplaria, *Morr.*
Simplicius, Morr.
- 302 Nigrovittata, *Gr.*
- 302½ Digna, *Morr.*
 §
- 303 Pyrophiloides, *Harv.*
 § *Eurois*.
- 304 Trabalis, *Gr.*
- 305 Pressa, *Gr.*
- 306 Prasina, *Fabr.*
Herbida, Hubn.
- 307 Occulta, *Hubn.*
- 308 Astricta, *Morr.*
- 309 Praefixa, *Morr.*

Anytus, Gr.

- 310 Sculptus, *Gr.*

Ammocœnia, Led.

- 311 Sculptilis, *Harv.*
- 312 Chortalis, *Harv.*
- 314 Aratrix, *Harv.*
- 315 Parentalis, *Gr.*
- 316 Decipiens, *Gr.*

Pachnobia, Guen.

- 317 Alaskae, *Gr.*
- 318 Carnea, *Thunb.*
Scropulana, Morr.
- 319 Salicarum, *Barnst.*
Orilliana, Gr.
Claviformis, Morr.

Agrotiphila, Gr.

- 320 Montana, *Morr.*

Eucoptocnemis, Gr.

- 321 Fimbriaris, *Guen.*

Adita, Gr.

- 322 Chionanthi, *A. & S.*

HADENINÆ.

Fishia, Gr.

- 323 Enthea, *Gr.*

Polyphaenis, Boisd.

- 324 Herbacea, *Guen.*

Mamestra, Ochs.

- 325 Purpurissata, *Gr.*
- 326 Nimbosa, *Guen.*
- 327 Discalis, *Gr.*
- 328 Imbrifera, *Guen.*
- 329 Latex, *Guen.*
- 330 Conditia, *Guen.*
- 331 Adjuncta, *Boisd.*
- 332 Lubens, *Gr.*
Rufula, Morr.
- 333 Beanii, *Gr.*
- 334 Legitima, *Gr.*
- 335 Liquida, *Gr.*
- 336 Lilacina, *Harv.*
var. Illabefacta, Morr.
- 337 Noverca, *Gr.*
- 338 Goodellii, *Gr.*
- 339 Assimilis, *Morr.*
- 340 Rosea, *Harv.*
- 341 Congermana, *Morr.*
- 342 Vindemialis, *Guen.*
C. Rubefacta, Morr.
- 343 Picta, *Harris.*
C. Exusta, Guen.
M. Contraria, Walk.
- 344 W-album, *Guen.*
- 345 Farnhamii, *Gr.*
- 346 Grandis, *Boisd.*
- 347 Nevadae, *Gr.*
- 348 Subjuncta, *G. & R.*
- 349 Atlantica, *Gr.*
Discolor, Spey.
- 350 Dimmockii, *Gr.*
- 351 Distincta, *Hubn.*
Dicopsis Vitis, French.
- 352 Bisulca, *Gr.*
- 353 Mucens, *Hubn.*
- 354 Confusa, *Hubn.*
- 355 Crotchii, *Gr.*
- 356 Dodgei, *Morr.*
- 357 Trifolii, *Kott.*
Chenopodii, S. V.
Albifusa, Walk.
var. Oregonica, Gr.
var. Major, Spey.
- 358 Defessa, *Gr.*
- 359 Chartaria, *Gr.*
- 360 Pensilis, *Gr.*
- 361 Vicina, *Gr.*
Teligera, Morr.
- 362 Anguina, *Gr.*
- 363 Acutipennis, *Gr.*
- 364 Capsularis, *Guen.*
R. Propulsa, Walk.

- 365 Detracta, *Walk.*
Claviplena, Gr.
 366 Cuneata, Gr.
 367 Brachiolum, *Harv.*
 368 Marinitincta, *Harv.*
 369 Laudabilis, *Guen.*
var. Illaudabilis, Gr.
 370 Quadrilineata, Gr.
 371 Olivacea, *Morr.*
 372 Alboguttata, Gr.
 373 Comis, Gr.
 374 Sutrina, Gr.
 375 Lustralis, Gr.
 376 Meditata, Gr.
 377 Innexa, Gr.
 378 Renigera, *Steph.*
Herbimacula, *Guen.*
 379 Cinnabarina, Gr.
var. Ferrea, Gr.

- 380 Lorea, *Guen.*
 381 Niveiguttata, Gr.
 382 Leucogramma, Gr.
 383 Palilis, *Harv.*
 384 Repentina, *Morr.*
 385 Ectypa, *Morr.*
 386 Insolens, Gr.
♂ Arietis, Gr.
 387 Rogenhoferi, *Moeschl.*
 388 Subdita, *Moeschl.*
 389 Phoca, *Moeschl.*
 390 Quadrannulata, *Morr.*
 391 Rugosa, *Morr.*

Luceria, Von Hein.

- 392 Burgessii, *Morr.*
 393 Delicata, Gr.
Interna, Gr.
 394 Passer, *Guen.*
Loculata, *Morr.*
var. Conspicua, *Morr.*
 395 Relicina, *Morr.*

Hadena, Schrank.

- 396 Sommeri, *Lefb.*
 397 Exulis, *Lefb.*
 398 Ducta, Gr.
 399 Devastatrix (or), *Brace.*
Ordinaria, *Walk.*
Contenta, *Walk.*
 400 Separans, Gr.
 401 Castanea, Gr.
Cynosa, Gr.
var. Albina, Gr.
 402 Occidens, Gr.
 403 Arctica, *Boisd.*
Amputatrix, *Fitch.*
 404 Bridghamii, *G. & R.*
 405 Violacea, Gr.
 406 Exornata, *Moeschl.*
 407 Hulstii, Gr.
 408 Dubitans, *Walk.*
 409 Sputatrix (or), Gr.

- 410 Suffusca, *Morr.*
 411 Apamiformis, *Guen.*
 412 Vultuosa, Gr.
 413 Cristata, Gr.
 414 Lignicolor (a), *Guen.*
var. Quaesita, Gr.
 415 Genialis, Gr.
 416 Auranticolor, Gr.
 417 Cuculliformis, Gr.
 418 Verbascoides, *Guen.*
 419 Stipata, *Morr.*
 420 Cariosa, *Guen.*
 421 Sectilis, *Guen.*
 422 Vulgaris, *G. & R.*
 423 Idonea, Gr.
 424 Patina, *Harvey.*
 425 Semilunata, *Grote.*
 426 Inordinata, *Morr.*
 427 Remissa, *Hubn.*
 428 Finitima, *Guen.*
 429 Impulsa, *Guen.*
 430 Discors, Gr.
 431 Perpensa, Gr.
 432 Cinefacta, Gr.
 433 Leucoscelis, Gr.
 434 Olorina, Gr.
 435 Hillii, Gr.
 436 Algens, Gr.
 437 Vigilans, Gr.
 438 Senescens, Gr.
 439 Diversicolor, *Morr.*
 440 Mactata, *Guen.*
 441 Turbulenta, *Hubn.*
 442 Indirecta, Gr.
 443 Divesta, Gr.
 444 Tusa, Gr.
 445 Tonsa, Gr.
 446 Chryselectra, Gr.
 447 Characta, Gr.
 448 Genitrix, Gr.
 449 Adnixa, Gr.
 450 Binotata, *Walk.*
Curvata, Gr.
Pavio, *Behr.*
 451 Fumosa, Gr.
 452 Longula, Gr.
 453 Diversilineata, Gr.
 454 Tortilis, Gr.
 455 Marina, Gr.
 456 Miselioides, *Guen.*
 457 Chlorostigma, *Harvey.*
 458 Dunbari, *Harvey.*
 459 Modica, *Guen.*
 460 Vulgivaga, *Morr.*
 461 Fractilinea, Gr.
 462 Modiola, Gr.
 463 Misera, Gr.
 464 Cylindrica, Gr.

Pseudanarta, Hy. Edw.

- 465 Flava, Gr.
var. Crocea, *Hy. Edw.*
 466 Singula, Gr.

- 467 Flavidens, *Gr.*
468 Aurea, *Gr.*

Oligia, Hubn.

- 469 Chalcedonia, *Hubn.*
var. Tracta, Gr.
470 Versicolor, *Gr.*
471 Festivoides, *Guen.*
472 Arna, *Guen.*
473 Exesa, *Guen.*
474 Paginata, *Morr.*
475 Fuscimacula, *Gr.*

Perigea, Guen.

- 476 Iole, *Gr.*
477 Xanthioides, *Guen.*
var. Enixa, Gr.
478 Infelix, *Guen.*
Conjederata, Gr.
479 Luxa, *Gr.*
480 Fabricata, *Morr.*
481 Falsa, *Gr.*
482 Albolabes, *Gr.*
483 Loculosa, *Gr.*
484 Niveirena, *Harvey.*
485 Orbica, *Morr.*
486 Mersa, *Morr.*
487 Proxima, *Morr.*

Dipterygia, Steph.

- 488 Scabriuscula, *Linn.*
Pinastri, Linn.

Hyppa, Dup.

- 489 Xylinoides, *Guen.*
Contraria, Walk.
Ancociscanensis, Morr.

Valeria, Germ.

- 490 Grotei, *Morr.*
491 (?) Consorta, *Gr.*

Arthrochlora, Gr.

- 492 Februaria, *Gr.*

Homohadena, Gr.

- 493 Atrifasciata, *Morr.*
494 Chorda, *Gr.*
495 Badistriga, *Gr.*
496 Kappa, *Gr.*
Retroversa, Morr.
497 Figurata, *Harv.*
498 Induta, *Harv.*
499 Incomitata, *Harv.*
500 Fortis, *Gr.*
501 Pteina, *Gr.*

Oncocnemis, Led.

- 502 Hayesii, *Gr.*
503 Dayi, *Gr.*
504 Mirificalis, *Gr.*
505 Bchrensi, *Gr.*
506 Levis, *Gr.*
507 Glennyi, *Gr.*
508 Meadiana, *Morr.*
509 Homogena, *Gr.*
510 Oblita, *Gr.*
511 Augustus, *Harv.*
512 Chandleri, *Gr.*
513 Riparia, *Morr.*
514 Major, *Gr.*
515 Aqualis, *Gr.*
516 Cibalis, *Gr.*
517 Gracillima, *Gr.*
518 Saundersiana, *Gr.*
519 Occata, *Gr.*
520 Atticollaris, *Harv.*
521 Griseicollis, *Gr.*
522 Atrerrima, *Gr.*

Aporophyla, Guen.

- 523 (?) Yosemite, *Gr.*

Pachypolia, Gr.

- 524 Atricornis, *Gr.*

Polia, Tr.

- 525 Acutissima, *Gr.*
526 Medialis, *Gr.*
§
527 Illepada, *Gr.*
§
528 Contacta, *Walk.*
Aspera, Morr.
Diffusilis, Harv.
529 Pallifera, *Gr.*
530 Speciosa, *Morr.*
531 Confragosa, *Morr.*
§
532 Aedon, *Gr.*
533 Theodori, *Gr.*
534 Epichysis, *Gr.*

Dryobota, Led.

- 535 Stigmata, *Gr.*
536 Opina, *Gr.*

Actinotia, Hubn.

- 537 Ramosula, *Guen.*
538 Stewarti, *Gr.*

Laphygma, Guen.

- 539 Frugiperda, *A. & S.*
Autumnalis, Riley.
var. Fulvosa, Riley.
var. Obscura, Riley.

Prodenia, Guen.

- 540 Commelinæ, *A. & S.*
 541 Flavimedia, *Harv.*
 542 Lineatella, *Harv.*
 Commelinæ †, Riley.
 543 Præfica, *Gr.*
 544 Phytolacæ, *A. & S.*
 Derupta, Morr.
 545 Ornithogalli, *Guen.*

Eupsephopæctes, Gr.

- 546 Procinctus, *Gr.*

Conservula, Gr.

- 547 Anodonta, *Guen.*

Trigonophora, Hubn.

- 548 Periculosa, *Guen.*
 var. V-Brunneum, *Gr.*

Euplexia, Steph.

- 549 Lucipara, *Linn.*

Brotolomia, Led.

- 550 Iris, *Guen.*

Nephelodes, Guen.

- 551 Minians, *Guen.*
 var. Violans, *Guen.*

Tricholita, Gr.

- 552 Semiaperta, *Morr.*
 553 Fistula, *Harvey.*

Helotropha, Led.

- 554 Reniformis, *Gr.*
 var. Atra, *Gr.*

Apamea, Tr.

- 555 Purpuripennis, *Gr.*
 Baliola, Morr.
 556 Sera, *G. & R.*
 557 Juvenilis, *Gr.*
 558 Nictitans, *Bkh.*
 var. Erythrostigma, *Harv.*
 var. Lucens, *Tr.*
 559 Erepta, *Gr.*
 560 Immanis, *Guen.*
 561 Obliqua, *Harv.*
 562 Stramentosa, *Guen.*

Gortyna, Hubn.

- 563 Quærita, *G. & R.*
 564 Cærina, *Gr.*
 565 Rigida, *Gr.*
 566 Impecuniosa, *Gr.*
 567 Cataphracta, *Gr.*
 568 Purpurifascia, *G. & R.*
 569 Rutila, *Guen.*
 570 Harrisii, *Gr.*
 571 Spæciosissima, *G. & R.*
 572 Marginidens, *Guen.*
 573 Limpida, *Guen.*
 574 Cerussata, *Gr.*
 575 Appassionata, *Harvey.* †
 576 Nitela, *Guen.*
 var. Nebris, *Guen.*
 577 Necopina, *Gr.*
 var.
 578 Serrata, *Gr.*

Ochria, Hubn.

- 579 Sauzalitæ, *Gr.*
 580 Buffaloensis, *Gr.*

Achatodes, Guen.

- 581 Zæa, *Harris.*
 Sandix, *Guen.*

NONAGRIINÆ.

Sphida, Gr.

- 582 Obliquata, *G. & R.*
 Edema? Obliqua, Walk.

Arzama, Walk.

- 583 Densa, *Walk.*
 584 Vulnifica, *Gr.*
 585 Melanopyga, *Gr.*
 586 Diffusa, *Gr.*

Nonagria, Ochs.

- 587 Fodiens, *Guen.*
 588 Subflava, *Gr.*
 589 Inquinata, *Guen.*
 590 Enervata, *Guen.*
 591 Laeta, *Morr.*
 592 Oblonga, *Gr.*

Macronoctua, Gr.

- 593 Onusta, *Gr.*

Admetovis, Gr.

- 594 Oxy-morus, *Gr.*

Lathosea, Gr.

- 595 Pulla, *Gr.*

Euthisanotia, Gr.

- 596 Timais, *Cram.*
Regnatrix, Gr.

Scolecocampa, Guen.

- 597 Liburna, *Geyer.*
 598 Bipuncta, *Morr.*

Cilla, Gr.

- 599 Distema, *Gr.*

Amolita, Gr.

- 600 Fessa, *Gr.*

Doryodes, Guen.

- 601 Acutaria, *H.-S.*
 ? *Bistriaris*, *Geyer.*
 602 Spadaria, *Guen.*

Monodes, Guen.

- 603 Nucicolora, *Guen.*

Senta, Steph.

- 604 Defecta, *Gr.*

Platysenta, Gr.

- 605 Atriciliata, *Gr.*
 ? *Videns*, *Guen.*
 ? *Meskei*, *Spey.*
 ? *Indigenis*, *Walk.*
 606 Angustiorata, *Gr.*

Tapinostola, Led.

- 607 Variana, *Morr.*
 608 Orientalis, *Gr.*

Ommatostola, Gr.

- 609 Lintneri, *Gr.*

Heliophila, Hubn.

- 610 Pallens, *Linn.*
 611 Oxygala, *Gr.*
 612 Praegracilis, *Gr.*
 613 Patricia, *Gr.*
 614 Bicolorata, *Gr.*
 615 Pertracta, *Morr.*
 616 Rubripennis, *G. & R.*
 617 Nigrofasciata, *Hulst.*

- 618 Rufostrigata, *Pack.*

- 619 Albilinea, *Hubn.*
Harveyi, Gr.
Diffusa, *Walk.*

- 620 Ligata, *Gr.*
 621 Dia, *Gr.*
 622 Amygdalina, *Harv.*
 623 Lapidaria, *Gr.*
 624 Phragmitidicola, *Guen.*
 625 Adjuta, *Gr.*
 626 Farcta, *Gr.*
 627 Adonea, *Gr.*
 628 Commoides, *Guen.*
Multilinea, *Walk. i. l.*

- 629 Flabilis, *Gr.*
 630 Scirpicola, *Guen.*
 631 Juncicola, *Boisd.*
 632 Linita, *Guen.*
 633 Insueta, *Guen.*
 634 Extincta, *Guen.*
 635 Unipuncta, *Harv.*
Extranea, *Guen.*
 636 Subpunctata, *Harvey.*

- 637 Pilipalpis, *Gr.*
 638 Pseudargyria, *Guen.*
var. Callida, *Gr.*

- 639 Ebriosa, *Guen.*
 640 Obusta, *Guen.**

Zosteropoda, Gr.

- 641 Hirtipes, *Gr.*

Ufeus, Gr.

- 642 Satyricus, *Gr.*
 643 Plicatus, *Gr.*
 644 Unicolor, *Gr.*

Pteroseia, Morr.

- 645 Atrata, *Morr.*

PYROPHILINÆ.

Caradrina, Tr.

- 646 Tarda, *Guen.*
 647 Miranda, *Gr.*
 648 Meralis, *Morr.*
Bilunata, Gr.
 649 Derosa, *Morr.*
 650 Multifera, *Walk.*
Fidicularia, *Morr.*
 651 Flavimaculata, *Harv.*
 652 Clara, *Harv.*
 653 Subaquila, *Harv.*
 654 Conviva, *Harv.*

*In the B. Mus. the species of *Leucania* are badly arranged by Mr. Walker, whose species of *Mythimna* do not belong here, but to *Agrotis*, etc. The types (?) of Guenee's *Ebriosa* and *Obusta* do not refer to the red form (*Callida* m.) of *Pseudargyria*. Some of Guenee's species are probably cited under other names here; but I cannot identify any of the five here cited after *Flabilis*.

Pyrophila, Hubn.

- 655 *Tragopogonis*, Linn.
Repressus, Gr.
 656 *Glabella*, Morr.
 657 *Pyramidoides*, Guen.
var. Inornata, Gr.
aberr. Conspersa, Riley.

TENIOCAMPINÆ.

Orthodes, Guen.

- 658 *Infirmata*, Guen.
 659 *Cynica*, Guen.
Nimia, Guen.
Candens, Guen.
 660 *Encrvis*, Guen.
Favers, Guen.
var. Griseocincta, Harr.

Himella, Gr.

- 661 *Intractata*, Morr.
Fidelis, Gr.

Teniocampa, Guen.*

- 662 *Agrotiformis*, Gr.
 663 *Thecata*, Morr.
Contrahens, Walk, M.S.
 664 *Furfurata*, Gr.
 665 *Consopita*, Gr.
 666 *Rufula*, Gr.
 667 *Oviduca*, Guen.
 668 *Capsella*, Gr.
var. puer.
 669 *Orobia*, Harr.
 670 *Puerilis*, Gr.
 671 *Perbrunnea*, Gr.
 672 *Modesta*, Morr.
 673 *Earina*, Morr.
 674 *Revicta*, Morr.
 675 *Modifica*, Morr.
 676 *Incerta*, Hubn.
Alia, Guen.
Confluens, Morr.
 677 *Pacifica*, Harr.
 678 *Garmani*, Gr.
 679 *Arthrolita*, Harr.
 680 *Pulchella*, Harr.
 681 (?) *Vegeta*, Morr.

Perigrapha, Led.

- 682 *Normalis*, Gr.
 683 *Muricina*, Gr.
 684 *Behrensiana*, Gr.
 685 *Plusiiformis*, Hy. Edw.†

- 686 *Erythrolita*, Gr.
 686½ *Transparens*, Gr.
 687 *Praeses*, Gr.

Crocigrapha, Gr.

- 688 *Normani*, Gr.

Xylomiges, Guen.

- 689 *Himemalis*, Gr.
Californica, Behr.
 690 *Curialis*, Gr.
 691 *Crucialis*, Harr.
 692 *Patialis*, Gr.
 693 *Tabulata*, Gr.
 694 *Rubrica*, Harr.
 695 *Perlubens*, Gr.
 696 *Dolosa*, Gr.

Anehoceles, Guen.

- 697 *Digitalis*, Gr.

Morrisonia, Gr.

- 698 *Evicta*, Gr.
 699 *Vomerina*, Gr.
 700 *Infidelis*, Gr.
 701 *Peracuta*, Morr.

Parastichtis, Hubn.

- 702 *Gentilis*, Gr.
Discivaria, Walk.
 703 *Perbellis*, Gr.
 704 *Minuscula*, Morr.

ORTHOSIINÆ

Metalepsis, Gr.

- 705 *Cornuta*, Gr.

Pseudorthosia, Gr.

- 706 *Variabilis*, Gr.
 707 *Pectinata*, Gr.

Chocphora, G. & R.

- 708 *Fungorum*, G. & R.

Pseudoglea, Gr.

- 709 *Taedata*, Gr.
 710 *Blanda*, Gr.
 711 *Decrupta*, Gr.

Mythimna, Ochs.

- 712 *Culea*, Guen.

* This genus is identical with *Graphiphora* of Hubner as used by nys.-H. While I have no doubt that this is the correct designation for the genus, the fact that *Graphiphora* has been used in quite different senses by authors in the group, leads me to drop the term as liable to cause confusion.

† Under the name *Strecthia*, Mr. Hy. Edwards describes this as type of a new genus of *Notodontide*.

Zotheca, Gr.

- 713 Tranquilla, *Gr.*
var. Viridula, *Gr.*

Calymnia, Hubn.

- 714 Orina, *Guen.*
715 Calami, *Harr.*

Epimorphia, Hubn.

- 716 Pleonectusa, *Gr.*
717 Subvexa, *Gr.**

Cleoceris, Boisd.

- 718 Onychina, *Guen.*

Orthosia, Ochs.

- 719 Purpurea, *Gr.*
720 Crispa, *Harr.*
721 Decipiens, *Gr.*
722 Ferruginoides, *Guen.*
var. Bicolorago, *Guen.*
Spurcata, *Walk.*
723 Ralla, *G. & R.*
724 Euroa, *G. & R.*
Puta, *G. & R.*
725 Inops, *Gr.*
726 Aurantiago, *Guen.*
Illiterata, *Gr.*
Differta, *Morr.*
Illinoisensis, *French.*
726½ Americana, *Morr.*
727 Disticha, *Morr.*
728 Posticata, *Harr.*
729 Conradi, *Gr.*
730 Helva, *Gr.*
731 Lutosa, *Andrews.*
732 Belangeri, *Morr.*
733 Immaculata, *Morr.*
734 Chloropha, *Hubn.*

Cosmia, Hubn.

- 735 Infumata, *Gr.*
? Myth. Discolor, *Walk.*

Memoglaea, Morr.

- 736 Hircina, *Morr.*
737 Carnosa, *Gr.*

Glaea, Hubn.†

- 738 Viatica, *Gr.*
739 Inutta, *Gr.*
740 Olivata, *Harr.*
741 Anchoeciloides, *Guen.*
Signata, *French.*

Epiglaea, Gr.

- 742 Pastillicans, *Morr.*
743 Tremula, *Harr.*
744 Sericea, *Morr.*
Venustula, *Gr.*
745 Apiata, *Gr.*
746 Decliva, *Gr.*
747 Deleta, *Gr.*

Jodia, Hubn.

- 748 Rufago, *Hubn.*

Eucirraedia, Gr.

- 749 Pampina, *Guen.*

Scoliopteryx, Germ.

- 750 Libatrix, *Linn.*

Xanthia, Hubn.

- 751 Togata, *Esper.*
Silago, *Hubn.*

Scopelosoma, Curtis.

- 752 Pettiti, *Gr.*
753 Graefiana, *Gr.*
754 Moffatiana, *Gr.*
Graefiana†, *Gr. Ess.*
755 Ceromatica, *Gr.*
756 Devia, *Gr.*
757 Morrisoni, *Gr.*
758 Sidus, *Guen.*
var. Vinulenta, *Gr.*
var. Walkeri, *Gr.*
759 Tristigmata, *Gr.*

Litholomia, Gr.

- 760 Napæa, *Morr.*

Lithophane, Hubn.

- 761 Disposita, *Morr.*
762 Hemina, *Gr.*
763 Petulca, *Gr.*
764 Ferrealis, *Gr.*
765 Signosa, *Walk.*
766 Bethunei, *G. & R.*
767 Oriunda, *Gr.*
768 Semiusta, *Gr.*
769 Fagina, *Morr.*
770 Oregonensis, *Harr.*
771 Contenta, *Gr.*

* The type of *Intexta*, I think, will prove to be a European and not an American example. It is possible that the Southern form is only a variety of *Pleonectusa*.

† I follow Stephens in taking this older name instead of the equivalent term *Orrhodia* of the same author. Not only is *Glaea* more euphonious, but it has priority, while both names are Hubner's.

- 772 Georgii, *Gr.*
 773 Antennata, *Walk.*
 Cinerea, Riley.
 774 Laticinerea, *Gr.*
 775 Cinerosa, *Gr.*
 776 Unimoda, *Lintn.*
 777 Tepida, *Gr.*
 778 Baileyi, *Gr.*
 779 Viridipallens, *Gr.*
 780 Querquera, *Gr.*
 781 Lepida, *Lintn.*
 782 Pexata, *Gr.*
 783 Thaxteri, *Gr.*
 784 Capax, *G. & R.*
 785 (?) Carbonaria, *Harv.*

Lithomia, Hubn.

- 786 Germana, *Morr.*

Calocampa, Steph.

- 787 Nupera, *Lintn.*
 788 Cineritia, *Gr.*
 789 Curvimacula, *Morr.*

CUCULLINÆ.

Cleophana, Boisd.

- 790 Eulepis, *Gr.*
 791 Antipoda, *Strk.*

Cucullia, Schr.

- 792 Convexipennis, *G. & R.*
 793 Asteroides, *Guen.*
 794 Postera, *Guen.*
 795 Florea, *Guen.*
 796 Intermedia, *Spey.*
 797 Speyeri, *Lintn.*
 798 Lætifica, *Lintn.*
 799 Luna, *Morr.*
 800 Serraticornis, *Lintn.*
 Matricariæ, Behr.

NOLAPHANINÆ.

Adipsophanes, Gr.

- 801 Miscellus, *Gr.*

Crambodes, Guen.

- 802 Talidiformis, *Guen.*

Nolaphana, Gr.

- 803 Malana, *Fitch.*
 804 Triquetrana, *Fitch.*
 805 Zelleri, *Gr.*
 806 Labecula, *Gr.*

ANOMIINÆ.

Anomis, Hubn.

- 807 Erosa, *Hubn.*
 808 Luridula, *Guen.*
 809 Exacta, *Hubn.*

Pteratholix, Gr.

- 810 Bullula, *Gr.*

Chytoryza, Gr.

- 811 Tecta, *Gr.*

Aletia, Hubn.*

- 812 Argillacea, *Hubn.*
 Xylina, Say.
 813 Hostia, *Harvey.*

LITOPROSOPINÆ.

Litoprosopus, Gr.

- 814 Futilis, *G. & R.*
 815 Confligens, *Walk.*

EUTELIINÆ.

Eutelia, Hubn.

- 816 Pulcherrima, *Gr.*

Marasmalus, Gr.

- 817 Ventilator, *Gr.*
 818 Histrio, *Gr.*

INGURINÆ.

Ingura, Guen.

- 819 Abrostoloides, *Guen.*
 820 Delineata, *Guen.*
 821 Declinata, *Gr.*
 822 Pygmæa, *Hubn.*
 823 Præpilata, *Gr.*
 824 Oculatrix, *Guen.*
 825 Flabella, *Gr.*

* Prof. Riley doubts that Hubner's figure represents the Cotton Worm Moth, but the outline and color are accurate. The "white dots" are not distinct in caught specimens, and the discal marks, while inaccurately given by the engraver, are sufficiently suggestive of the real markings. It is disingenuous of Prof. Riley to quote a Bahía species as if he had the real *Argillacea*, but hesitates to make the identification. What does Hubner's figure cover, if not our species? The figure of *Albilinea*, although much more doubtful, is accepted; why is *Argillacea* rejected?

CALPINÆ.

Calpe, Tr.

- 826 Canadensis, *Beth.*
Purpurascens, Walk.
Sobria, Walk.

Plusiodonta, Guen.

- 827 Compressipalpis, *Guen.*

Basilodes, Guen.

- 828 Pepita, *Guen.*
 829 Chrysopsis, *Gr.*

Hemiceras, Guen.

- 830 Cadmia, *Guen.*

Phiprosopus, Grote.

- 831 Callitrichoides, *Gr.*
Nasutaria, Zell.

Hypsoropha, Hubn.

- 832 Monilis, *Fabr.*
 833 Hormos, *Hubn.*

PLUSINÆ.

Telesilla, H.-S.

- 834 Cinereola, *Guen.*
 835 Navia, *Harv.*

Diastema, Guen.

- 836 Tigrina, *Guen.*

Behrensia, Gr.

- 837 Conchiformis, *Gr.*

Abrostola, Ochs.

- 838 Ovalis, *Guen.*
 839 Urentis, *Guen.*

Deva, Walk.

- 840 Purpurigera, *Walk.*
 841 Palligera, *Gr.*

Plusia, Fabr.

- 842 Aerea, *Hubn.*
 843 Aereoides, *Gr.*
 844 Balluca, *Gey.*
 845 Metallica, *Gr.*

846 Contexta, *Gr.*

847 Putnami, *Gr.*

848 Striatella, *Gr.*

849 Formosa, *Gr.*

850 Thyatiroides, *Guen.*

851 Mappa, *G. & R.*

852 Bimaculata, *Steph.*

U-Brevis, *Guen.*

853 Biloba, *Steph.*

854 Howardi, *Hy. Ed.*

855 Verruca, *Fabr.*

856 Dyaus, *Gr.*

857 Precationis, *Guen.*

858 Latclavia, *Morr.*

859 Labrosa, *Gr.*

860 Monodon, *Gr.*

861 Pseudogamma, *Gr.*

862 Californica, *Spey.*

863 Ou, *Guen.*

864 Fratella, *Gr.*

865 Pedalis, *Gr.*

866 Ni, *Hubn.*

Brassica, *Riley.*

867 Oxygramma, *Gey.*

868 Celsa, *Hy. Edw.*

869 U-Aureum, *Boisd.*

870 Mortuorum, *Guen.*

871 Octoscripta, *Sanborn.*

872 Viridisignata, *Gr.*

873 Epigæa, *Gr.*

873¹ Surena, *Gr.*

874 Ampla, *Walk.*

875 Selecta, *Walk.*

876 Simplex, *Guen.*

877 Pasiphæia, *Gr.*

? *Echinocystis*, *Behr.*

878 Diasema, *Dalm.*

879 Patilis, *Hubn.*

880 Sackenii, *Gr.*

881 Alticola, *Walk.*

Iguæa, *Gr.*

882 Hochenwarthi, *Hoch.*

Divergens, *Fabr.*

883 Devergens, *Hubn.*³

Anarta, Ochs.

884 Acadiensis, *Beth.*

? *Myrtilli*, *L.*

885 Cordigera, *Thunb.*

Lutcola, *G. & R.*

886 Melaleuca, *Thunb.*

Bicycla, *Pack.*

887 Melanopa, *Thunb.*

Nigrolunata, *Pack.*

888 Quadrilunata, *Gr.*

889 Subfuscula, *Gr.*

890 Schœnherri, *Zett.*

Leucocycla, *Staud.*

*Other names which cannot be made out without an examination of types are *Omicron*, Linn. *Fulcigera* and *Rectangulum* of Kirby and *Indigna*, *Flagellum* and *Secedens* of Walker.

- 891 *Richardsoni*, *Curt.*
Algida, *Lefb.*
 892 *Promulsa*, *Morr.*
 893 *Nivaria*, *Gr.*
Mam. Curta, *Morr.*
Orth. Perpura, *Morr.*
 894 *Membranacea*, *Morr.*
 895 *Lapponica*, *Thunb.*
Amissa, *Lefb.*
 896 *Zetterstedtii*, *Staud.*
 897 *Kelloggii*, *Hy. Edw.*

Lepipolys, *Guen.*

- 898 *Perscripta*, *Guen.*

STIRIINÆ.

Stibadium, *Gr.*

- 899 *Spumosum*, *Gr.*
 900 *Aureolum*, *Hy. Edw.*

Stiria, *Gr.*

- 901 *Rugifrons*, *Gr.*

Acopa, *Harv.*

- 902 *Carina*, *Harv.*
 903 *Perpallida*, *Gr.*
 904 *Incana*, *Hy. Edw.*

Fala, *Gr.*

- 905 *Ptycophora*, *Gr.*

Plagiomimicus, *Gr.*

- 906 *Pityochromus*, *Gr.*
Schinia Media, *Morr.*
 907 *Tepperi*, *Morr.*

HELIOTHINÆ.

Schinia, *Hubn.*

- 908 *Trifascia*, *Hubn.*
 909 *Rectifascia*, *Gr.*
 910 *Gracilenta*, *Hubn.*
Olcagina, *Morr.*
Imperspicua, *Streck.*
 911 *Bifascia*, *Hubn.*
 912 *Buxea*, *Gr.*
 913 (?) *Gulnare*, *Strk.*

Tricopis, *Gr.*

- 914 *Chrysellus*, *Gr.*
 915 *Aleucis*, *Harv.*

Euleucyptera, *Gr.*

- 916 *Cumatilis*, *Gr.*
Sulmala, *Strk.*

Antaplaga, *Gr.*

- 917 *Dimidiata*, *Gr.*

Trioenemis, *Gr.*

- 918 *Saporis*, *Gr.*

Pippona, *Harvey.*

- 919 *Bimatrix*, *Harv.*

Epinyctis, *Gr.*

- 920 *Notatella*, *Gr.*

Grotella, *Harv.*

- 921 *Septempunctata*, *Harv.*
 922 *Sexseriata*, *Gr.*

Bessula, *Gr.*

- 923 *Luxa*, *Gr.*

Oxylos, *Gr.*

- 924 *Citrinellus*, *G. & R.*

Chloridea, *Westw.*

- 925 *Rhexiæ*, *Ab. & S.*
Spectanda, *Strk.*
 926 *Subflexa*, *Guen.*

Porrina, *Gr.*

- 927 *Sanguinea*, *Gey.*

Alaria, *Westw.*

- 928 *Gaurae*, *Ab. & Sm.*

Rhodophora, *Guen.*

- 929 *Florida*, *Guen.*

Rhododipsa, *Gr.*

- 930 *Volupia*, *Gr.*
 931 *Miniana*, *Gr.*

Derrima, *Walk.*

- 932 *Stellata*, *Walk.*
 933 *Henrietta*, *Gr.*

Tamila, *Guen.*

- 934 *Nundina*, *Drury.*
 935 *Meadii*, *Gr.*
 936 *Tertia*, *Gr.*
 937 *Velaris*, *Gr.*
 938 *Vanella*, *Gr.*

Melaporphyria, Gr.

939 Immortua, Gr.

Euros, Hy. Edw.

940 Proprius, Hy. Edw.

941 Celeris, Gr.

Heliolonche, Gr.

942 Modicella, Gr.

Heliophana, Gr.

943 Mitis, Gr.

Helioseca, Gr.

944 Pictipennis, Gr.

Adonisea, Gr.945 Pulchripennis, Gr.
var. Languida, Hy. Edw.**Melieleptria**, Hubn.

946 Nexilis, Morr.

947 Elaborata, Hy. Edw.

948 Perminuta, Hy. Edw.

949 Diminutiva, Gr.

950 Villosa, Gr.

Pauxilla, Gr.

951 Persimilis, Gr.

952 Sueta, Gr.

953 Californiensis, Gr.

954 Honesta, Gr.

955 Oregonica, Hy. Edw.

956 Fasciata, Hy. Edw.

957 Vacciniæ, Hy. Edw.

958 Prorupta, Gr.

Venusta, Hy. Edw.

959 Belladonna, Hy. Edw.

960 Hoyi, Gr.

Heliolithis, Hubn.

961 Armiger, Hubn.

Umbrosus, Gr.

962 Phlogophagus, G. & R.

var. Luteitinctus, Gr.

var. Interjacens, Gr.

963 Lupatus, Gr.

964 Cupes, Gr.

Crotchii, Hy. Edw.

965 Nuchalis, Gr.*

966 Lucens, Morr.

Heliochilus, Gr.

967 Paradoxus, Gr.

Lygranthœcia, Gr.

968 Rivulosa, Guen.

Marginata, Haw.*Divergens*, Walk.*Designata*, Walk.*Contracta*, Walk.

969 Thoreaui, G. & R.

970 Constricta, Hy. Edw.

971 Saturata, Gr.

Rubiginosa, Strk.

972 Ultima, Strk.

973 Walsinghamii, Hy. Edw.

974 Parmelhana, Hy. Edw.

975 Acutilinea, Gr.

976 Separata, Gr.

977 Coercita, Gr.

978 Regia, Strk.

979 Balba, Gr.

Anthœcia, Guen.

980 Roseitincta, Harv.

981 Tuberculum, Hubn.

982 Inclara, Strk.

983 Lynx, Guen.

984 Bina, Guen.

985 Brevis, Gr.

var. Atrites, Gr.

986 Limbalis, Gr.

987 Scissa, Gr.

988 Arcifera, Guen.

989 Spraguei, Gr.

990 Packardi, Gr.

991 Mortua, Gr.

992 Nobilis, Gr.

993 Jaguarina, Guen.

994 Meskeana, Gr.

Spectanda, Strk.

995 Rufimedia, Gr.

996 Tumida, Gr.

Pyrhia, Hubn.

997 Exprimens, Walk.

? Umbra, Hubn.

998 Angulata, Gr.

Exprimens, Spey.

999 Stilla, Gr.

Chariëlea, Kirby.

1000 Triangulifera, Gr.

Pretiosa, Morr.

1001 Pernana, Gr.

*When our species are compared with the European, it may result that *Phlogophagus*, and its yellow-winged variety *Luteitinctus*, is not different from the European *Dipsacca* and *Mari-tima*; also *Nuchalis* from *Scutosa*. *Cupes* and *Lupatus* are quite distinct from any European species I have seen; *Lucens* may not really belong to this genus.

Edophron, Led.1002 Snowi, *Gr.***Xanthobrix**, Hy. Edw.1003 Ranunculi, *Hy. Edw.***Euedwardsia**, Gr.1004 Neumœgeni, *Hy. Edw.*

EUSTROTHINÆ.

Axeus, Gr.1005 Arvalis, *Gr.**var. Ochraceus, Hy. Edw.**var. Amplus, Hy. Edw.***Annaphila**, Gr.1006 Diva, *Gr.*1007 Superba, *Hy. Edw.*1008 Divinula, *Gr.*1009 Germana, *Hy. Edw.*1010 Decia, *Gr.**Amicula, Hy. Edw.*1011 Depicta, *Gr.*1012 Salicis, *Hy. Edw.**Arvalis, Hy. Edw.*1013 Lithosina, *Hy. Edw.*1014 Mera, *Harv.*1015 Immerens, *Harv.*1016 Danistica, *Gr.*1017 Domina, *Hy. Edw.*1018 Pustulata, *Hy. Edw.*1019 (?) Aurantiaca, *Hy. Edw.***Trichotarache**, Gr.1020 Assimilis, *Gr.***Tarache**, Hubn.1021 Crustaria, *Morr.*1022 Flavipennis, *Gr.*1023 Aprica, *Hubn.**var. Biplaga, Guen.*1024 Abdominalis, *Gr.*1025 Lanceolata, *Gr.*1026 Angustipennis, *Gr.*1027 Sutrix, *Gr.*1028 Tenuicula, *Morr.*1029 Erastrioides, *Guen.*1030 Candefacta, *Hubn.*1031 Debilis, *Walk.*1032 Arizonae, *Hy. Edw.*1033 Elegantula, *Harv.**Semiopaca, Gr.*1034 Binocula, *Gr.*1035 Cretata, *G.-R.*1036 Lactipennis, *Harv.*1037 Delecta, *Walk.**Metallica, Gr.*1038 Terminimaculata, *Gr.*1039 Sedata, *Hy. Edw.***Thalpochares**, Led.1040 Carmelita, *Morr.*1041 Ætheria, *Gr.*1042 Patula, *Morr.**Patruelis, Gr.*1043 Mundula, *Zell.*1044 Orba, *Gr.***Lithacodia**, Hubn.1045 Bellicula, *Hubn.***Chamyris**, Guen.1046 Cerintha, *Tr.***Enstrotia**, Hubn.*1047 Malaca *Gr.*1048 Mitographa, *Gr.*1049 Albidula, *Guen.*1050 Secta, *Gr.*1051 Concinnimacula, *Guen.**var. Parvimagula, Gr.*1052 Synochitis, *G. & R.*1053 Olivula, *Guen.*1054 Musta, *G. & R.*1055 Muscosula, *Guen.*1056 Carneola, *Guen.*1057 Apicosa, *Harv.**Nigritula, Guen.**Undulifera, Walk.*1058 Retis, *Gr.*1059 Caduca, *Gr.*1060 Mariæ, *Gr.**Norma, Morr.**Penita, Morr.*1061 Æria, *Gr.*1062 Dividua, *Gr.***Tripudia**, Gr.1063 Flavofasciata, *Gr.**Versutus, Hy. Edw.*1064 Quadrifera, *Zell.*1065 Opipara, *Hy. Edw.*1066 Limbata, *Hy. Edw.*1066½ Basicinerea, *Gr.***Gyros**, Hy. Edw.1067 Muirii, *Hy. Edw.** I cannot use *Erastria* for this genus, because Hubner uses that term before Treitschke for a genus of *Geometridæ*.

Herrichia, Gr.*

- 1068 Mollissima, *Guen.*
Erast. Rubicunda, Walk.
 1069 Monetifera, *Guen.*
 1070 Granitosa, *Guen.*
 1071 Floridensis, *Guen.*
 1072 Argentilinea, *Walk.*

Spragucia, Gr.

- 1073 Onagrus, *Guen.*
 1074 Leo, *Guen.*
Onagrus, † H.-S.
 1075 Plumbifimbriata, *Gr.*
 1076 Obatra, *Morr.*
 1077 Pardalis, *Gr.*
 1078 Dama, *Guen.*
 1079 Funeralis, *Gr.*
 1080 Guttata, *Gr.*
 1081 Tortricina, *Zell.* †

Fruva, Gr.

- 1082 Fasciatella, *Gr.*
 1083 Acerba, *Hy. Edw.*
 1084 Obsoleta, *Gr.*
 1085 Apicella, *Gr.*
 ♀ *Truncatula*, *Zell.*
 ♂ ♀ *Accepta*, *Hy. Edw.*
 1086 Georgica, *Gr.*

Xanthoptera, *Guen.*

- 1087 Nigrofimbria, *Guen.*
 1088 Semiflava, *Guen.*

Exyra, Grote. †

- 1089 Semicrocea, *Guen.*
 1090 Ridingsii, *Riley.*
Nigrocaput, *Morr.*
 1091 Fax, *Grote.*
 1092 Rolandiana, *Gr.*

Prothymia, *Hubn.*

- 1093 Coccineifascia, *Gr.*
 1094 Rosalba, *Gr.*
 1095 Orgiæ, *Gr.*
Subolivacea, *Harv.*

Lepidomys, *Guen.*

- 1096 Irrenosa, *Guen.*

Metoponia, *Dup.*

- 1097 Obtusa, *H.-S.*
Obtusula, *Zell.*
 1098 Perflava, *Harv.*

Galgula, *Guen.*

- 1099 Heparâ, *Guen.*
 1100 Subpartita, *Guen.*
Vesca, *Morr.*

HYBLÆINÆ.

Hyblæa, *Fabr.*

- 1101 Puera, *Fabr.*
Aenigma Mir. *Strk.*

NOCTUO-PHALÆNIDI.

Brephos, *Hubn.*

- 1102 Infans, *Moeschl.*
Hamadryas, *Harr.*

Leucobrephos, *Gr.*

- 1103 Brephoides, *Walk.*
Resoluta, *Zell.*

(Fasciatæ.)

CATOCALINÆ.

Drasteria, *Hubn.*

- 1104 Erechtea, *Cram.*
 ♀ *Spadix*, *Cram.*
 ♀ *Mundula*, *G. & R.*
Crassiuscula, *Wood.*
Sobria, *Walk.*
Narrata, *Walk.*
Amplissima, *Walk.*
 var. Agricola, *G. & R.*
 var. Ochrea, *Gr.*
 1105 Erichto, *Guen.*
 1106 Cærulea, *Gr.*

* Dr. Herrich-Schaeffer, in his Correspondenz Blatt, has shown that this genus is not at all the equivalent of the European *Callopietria* (*Eriopus* Auct.), although the ornamentation resembles that genus, while our species are slender and have the habit of *Eustrotia*. Dr. Herrich-Schaeffer, while drawing attention to this fact, does not name the genus, which I call after one of the ablest of recent European Lepidopterists.

† The student is referred to Can. Ent. XI., 231, for a study of this and related genera. It is probable that the Florida species *Pardalis* will prove, with so many South Florida moths, to be West Indian also.

‡ The species of this genus are parasitic upon *Sarrecenia*, the Pitcher Plants.

Litosea, Gr.

- 1107 Convalescens, *Guen.*
1108 Adversa, *Gr.*

Hypocala, Guen.

- 1109 Hillii, *Lintu.*

Euclidia, Hubn.

- 1110 Cuspidea, *Hubn.*
1110½ Intercalaris, *Gr.*

Grammodes, Guen.

- 1111 Smithii, *Guen.*
1112 Similis, *Boisd.*
1113 Consobrina, *Guen.*

Panula, Guen.

- 1114 Inconstans, *Guen.*
1115 Remigipila, *Guen.*

Litocala, Harv.

- 1116 Sexsignata, *Harv.*
var. Deserta, Hy. Edw.

Syneda, Guen.

- 1117 Hudsonica, *G. & R.*
1118 Graphica, *Hubn.*
var. Media, Morr.
1119 Divergens, *Behr.*
1120 Capiticola, *Walk.*
1121 Petricola, *Walk.*
1122 Alleni, *Gr.*
Saxea, Hy. Edw.
1123 Adumbrata, *Behr.*
1124 Occulta, *Hy. Edw.*
1125 Seposita, *Hy. Edw.*
1126 Socia, *Behr.*
1127 Ochracea, *Behr.*
1128 Mirifica, *Hy. Edw.*
1129 Tejonica, *Behr.*
1130 Nubicola, *Behr.*
1131 Maculosa, *Behr.*
1132 Hastingsii, *Hy. Edw.*
var. Perpallida, Hy. Edw.
1133 Faceta, *Hy. Edw.*
1134 Howlandii, *Gr.*
1135 Ingeniculata, *Morr.*
1136 Edwardsii, *Behr.*

Cirrhobolina, Gr.

- 1137 Deducta, *Morr.*
♀ Pavitensis, Morr.
1138 Mexicana, *Behr.*
Incandescens, Gr.
var. Vulpina, Hy. Edw.
1139 Tetrica, *Hy. Edw.*

Melipotis, Hubn.

- 1140 Fasciolaris, *Hubn.*
1141 Sinualis, *Harv.*
1142 Hadeniformis, *Behr.*
1143 Agrotipennis, *Harv.*
1144 Nigrescens, *G. & R.*
1145 Ochreipennis, *Harv.*
♂ praece?
1146 Pallescens, *G. & R.*
1147 Perlata, *Hy. Edw.*
1148 Limbolaris, *Gey.*
1149 Tenella, *Hy. Edw.*

Stictoptera, Guen.

- 1050 Divaricata, *Gr.*

Catocala, Schrank.

- 1151 Epione, *Drury.*
1152 Sappho, *Streck.*
1153 Agrippina, *Strk.*
1154 Subviridis, *Harv.*
1155 Lacrymosa, *Guen.*
var. Paulina, Hy. Ed.
var. Emilia, Hy. Ed.
var. Zelica, Fch.
var. Evelina, Fch.
1156 Viduata, *Guen.*
1157 Desperata, *Guen.*
1158 Retecta, *Gr.*
1159 Flebilis, *Gr.*
1160 Ulalume, *Strk.*
1161 Robinsonii, *Gr.*
var. Curvata, Fch.
1162 Obscura, *Strk.*
var. Simulatrix, Gr.
1163 Insolabilis, *Guen.*
1164 Angusi, *Gr.*
1165 Residua, *Gr.*
1166 Levettei, *Gr.*
Judith, Strk.
1167 Miranda, *Hy. Edw.*
1168 Tristis, *Edw.*
1169 Relicta, *Walk.*
var. Bianca, Hy. Ed.
var. Phrynia, Hy. Ed.
1170 Californica, *Edw.*
var. Perdita, Hy. Edw.
var. Cleopatra, Hy. Ed.
1171 Nebraskæ, *Dodge.*
var. Somnus, Dodge.
1172 Luciana, *Hy. Ed.*
1173 Junctura, *Walk.*
Walshii, Edw.
1174 Arizona, *Gr.*
1174½ Aspasia, *Strk.*
1175 Augusta, *Hy. Ed.*
1176 Amatrix, *Hubn.*
Nurus, Walk.
1177 Cara, *Guen.*
var. Sylvia, Hy. Ed.
var. Carissima, Hulst.

- 1178 *Concumbens*, *Walk.*
var. *Diana*, *Hy. Edw.*
- 1179 *Meskei*, *Gr.*
- 1180 *Rosalinda*, *Hy. Edw.*
- 1181 *Unijuga*, *Walk.*
- 1182 *Beaniana*, *Gr.*
- 1183 *Grotiana*, *Bailey.*
- 1184 *Briseis*, *Edw.*
- 1185 *Pura*, *Hulst.*
- 1186 *Semirelecta*, *Gr.*
- 1187 *Irene*, *Behr.*
var. *Virgilia*, *Hy. Ed.*
var. *Volumnia*, *Hy. Ed.*
var. *Valeria*, *Hy. Ed.*
- 1188 *Faustina*, *Strk.*
var. *Zillah*, *Strk.*
- 1189 *Hermia*, *Hy. Ed.*
- 1190 *Mariana*, *Hy. Ed.*
var. *Francesca*, *Hy. Ed.*
- 1191 *Jessica*, *Hy. Ed.*
- 1192 *Portia*, *Hy. Ed.*
- 1193 *Cassandra*, *Hy. Edw.*
- 1194 *Stretchii*, *Behr.*
- 1195 *Hippolyta*, *Hy. Ed.*
- 1196 *Parta*, *Guen.*
var. *Perplexa*, *Strk.*
- 1197 *Coccinata*, *Gr.*
var. *Sinuosa*, *Gr.*
- 1198 *Circe*, *Strk.*
- 1199 *Violenta*, *Hy. Ed.*
- 1200 *Verrilliana*, *Gr.*
var. *Ophelia*, *Hy. Ed.*
- 1201 *Ultronia*, *Hubn.*
var. *Celia*, *Hy. Ed.*
var. *Mopsa*, *Hy. Ed.*
var. *Adriana*, *Hy. Ed.*
var. *Herodias*, *Strk.*
- 1202 *Aholibah*, *Strk.*
- 1203 *Marmorata*, *Edw.*
- 1204 *Ilia*, *Cram.*
var. *Zoe*, *Behr.*
var. *Uxor*, *Guen.*
- 1205 *Innubens*, *Guen.*
var. *Flavidalis*, *Gr.*
var. *Scintillans*, *Gr. & R.*
- 1206 *Adoptiva*, *Gr.*
Delilah, *Strk.*
- 1207 *Calphurnia*, *Hy. Ed.*
Sp. dist. aut aberr. ?
- 1208 *Desdemona*, *Hy. Edw.*
- 1209 *Cerogama*, *Guen.*
var. *Bunkerii*, *Gr.*
- 1210 *Neogama*, *Ab. & Sm.*
var. *Communis*, *Gr.*
Neogama, † *Guen.*
var. *Snowiana*, *Gr.*
- 1211 *Subnata*, *Gr.*
- 1212 *Piatrix*, *Gr.*
- 1213 *Palæogama*, *Guen.*
var. *Phalanga*, *Gr.*
var. *Annida*, *Fager.*
- 1214 *Habilis*, *Gr.*
var. *Basalis*, *Gr.*
- 1215 *Nebulosa*, *Edw.*
Ponderosa, *G. & R.*
- 1216 *Muliercula*, *Guen.*
- 1217 *Consors*, *Guen.*
- 1218 *Cœlebs*, *Gr.*
- 1219 *Badia*, *G. & R.*
- 1220 *Serena*, *Edw.*
- 1221 *Anna*, *Gr.*
Amestris, *Strk.*
var. *Westcottii*, *Gr.*
- 1222 *Clintonii*, *Gr.*
var. *Helene*, *Pilate.*
- 1223 *Illecta*, *Walk.*
Magdalena, *Strk.*
- 1224 *Frederici*, *Gr.*
- 1225 *Nuptialis*, *Walk.*
Myrrha, *Strk.*
- 1226 *Abbreviatella*, *Gr.*
- 1227 *Whitneyi*, *Dodge.*
- 1228 *Polygama*, *Guen.*
- 1229 *Cratægi*, *Saund.*
- 1230 *Pretiosa*, *Lintn.*
- 1231 *Mira*, *Gr.*
- 1232 *Cheidonia*, *Gr.*
- 1233 *Amasia*, *Ab. & Sm.*
- 1234 *Cordelia*, *Hy. Edw.*
- 1235 *Similis*, *Edw.*
Formula, *G. & R.*
var. *Aholah*, *Strk.*
var. *Isabella*, *Hy. Edw.*
- 1236 *Olivia*, *Hy. Edw.*
- 1237 *Fratricula*, *G. & R.*
var. *Gisella*, *May.*
var. *Atarah*, *Strk.*
var. *Jaquenetta*, *Hy. Edw.*
- 1238 *Præclara*, *G. & R.*
- 1239 *Dulciola*, *Gr.*
- 1240 *Grynea*, *Cram.*
Nuptula, *Walk.*
- 1241 *Alabamæ*, *Gr.*
- 1242 *Giacilis*, *Edw.*
var. *Sordida*, *Gr.*
- 1243 *Timandra*, *Hy. Edw.*
- 1244 *Minuta*, *Edw.*
var. *Parvula*, *Edw.*
- 1245 *Micronympha*, *Guen.*
- 1246 *Amica*, *Hubn.*
Androphila, *Guen.*
var. *Lineella*, *Gr.*
var. *Nerissa*, *Hy. Edw.*
- Allotria**, *Hubn.*
- 1247 *Elonympha*, *Hubn.*

Andrewsia, Gr.*

- 1248 Belfragiana, *Harvey*.
Jocaste, Strk.
 ? *Messalina*, Guen.

Parthenos, Hubn.

- 1249 Nubilis, *Hubn.*

OPHIDERINÆ.

Ophideres, Boisd.

- 1250 Materna, *Linn.*

TOXOCAMPINÆ.

Strenoloma, Gr.

- 1251 Lunilinea, *Gr.*

Toxocampa, Guen.

- 1252 Victoria, *Gr.*

Synedoida, Hy. Edw.

- 1253 Biformata, *Hy. Ed.*
 1254 Scrupulosa, *Hy. Ed.*
 1255 Inepta, *Hy. Ed.*
 1256 Morbosa, *Hy. Ed.*
 1257 Valens, *Hy. Ed.*
 1258 Sabulosa, *Hy. Ed.*

Phoberia, *Hubn.*

- 1259 Atomaris, *Hubn.*
Oithosioides, Guen.

Celiptera, Guen.

- 1260 Frustulum, *Guen.*
Elongatus, Gr.

Pseudolimacodes, Gr.

- 1261 Littera, *Guen.*
Niveicostatus, Gr.

Phurys, Guen.

- 1262 Vinculum, *Guen.*
 1263 Lima, *Guen.*
 1264 Bistrigata, *Hubn.*
 1265 Glans, *Gr.*

Parallelia, Hubn.

- 1266 Bistriaris, *Hubn.*

Agnomonía, Hubn.

- 1267 Anilis, *Drury*.
Sesquistriaris, Hubn.

Palindia, Guen.

- 1268 Dominicata, *Guen.*

Harveya, Gr.

- 1269 Auripennis, *Gr.*

Panopoda, Guen.

- 1270 Carneicosta, *Guen.*
 1271 Rufimargo, *Hubn.*
Rubricosta, Guen.
var. Roseicosta, *Guen.*

Pleonectyptera, Gr.

- 1272 Pyralis, *Hubn.*
 1273 Geometralis, *Gr.*
 1274 Phalænalis, *Gr.*
 1275 Immaculalis, *Harv.*

Remigia, Guen.

- 1276 Latipes, *Guen.*
var. Indentata, *Harv.*
 1277 Hexastylus, *Harv.*

Poaphila, Guen.

- 1278 Quadrifilaris, *Hubn.*
 1279 Obsoleta, *Gr.*
 1280 Sylvarum, *Guen.*
 1281 Deleta, *Guen.*
 1282 Erasa, *Guen.*
 1283 Herbicola, *Boisd.*
 1284 Contempta, *Boisd.*
 1285 Flavistriaria, *Hubn.*
 1286 Herbarum, *Guen.*
 1287 Irrorata, *Gr.*
 1288 Placata, *Gr.*

Trama, Harv.

- 1289 Arrosa, *Harv.*
 1290 Hinna, *Gey.*

Entoreuma, Gr.

- 1291 Tenuis, *Gr.*

Isogona, Guen.

- 1292 Natatrix, *Guen.*

* This genus has been indicated by Dr. Speyer, in letters, without naming it. I name it for the late William Valentine Andrews, of Brooklyn, an Entomologist whose obituary will be found Vol. X., C. E., 240. The moth has the forewings of a different shape from *Catocala*, less produced, the inner and costal margins more parallel, entire. The hind wings want the mesial band.

Capnodes, Guen.1293 Californica, *Behr.***Anticarsia**, Hubn.1294 Gemmatalis, *Hubn.***Antiblemma**, Hubn.1295 Canalis, *Gr.***Agassizia**, Behr.1296 Urbicola, *Behr.*

EREBIINÆ.

Erebus, Latr.1297 Odora, *Linn.***Thysania**, Dalm.1298 Zenobia, *Cram.***Zale**, Hubn.1299 Horrida, *Hubn.*
Calycanthata†, *Walk.***Pheocyma**, Hubn.1300 Lunifera, *Hubn.***Homoptera**, Boisd.1301 Edusa, *Drury.*
var. Saundersii, *Beth.*
var. Lunata, *Drury.*1302 Rosæ, *Behr.*1303 Rubi, *Hy. Edw.*1304 Minerea, *Guen.*1305 Calycanthata, *Ab. & S.*1306 Woodii, *Gr.*1307 Albofasciata, *Beth.*1308 Edusira, *Harv.*
var. Atritincta, *Harv.*1309 Galbanata, *Morr.*1310 Uniformis, *Morr.*1311 Cinerea, *Morr.*1312 Penna, *Morr.*1313 Unilineata, *Gr.*1314 Obliqua, *Guen.*1315 Duplicata, *Beth.*1316 Benesignata, *Harv.***Eubolina**, Harv.1317 Impartialis, *Harv.*1318 Stylobata, *Harv.*1319 Mima, *Harv.*1320 Meskei, *Ily. Edw.***Ypsia**, Guen.1321 Undularis, *Drury.*
var. Aeruginosa, *Guen.*
var. Umbripennis, *Gr.***Pseudanthroecia**, Gr.1322 Coracias, *Guen.*
Squamularis, *Drury.*
1323 Cornix, *Guen.***Selenis**, Guen.1324 Monotropia, *Gr.***Homopyralis**, Gr.1325 Discalis, *Gr.*1326 Tactus, *Gr.*1327 Tantillus, *Gr.*1328 Repentis, *Gr.***Matigramma**, Gr.1329 Pulverilinea, *Gr.*1330 Læna, *Harv.***Argillophora**, Gr.1331 Furcilla, *Gr.***Spargoloma**, Gr.1332 Sexpunctata, *Gr.*1333 Umbriefascia, *Gr.***Hexeris**, Gr.1334 Enhydriis, *Gr.*

BROTHINÆ.

Brotis, Hubn.1335 Vulneraria, *Hubn.*

PANGRAPTINÆ.

Sylectra, Hubn.1336 Erycata, *Cram.*
Mirandalis, *Hubn.***Pangrapta**, Hubn.1337 Decoralis, *Hubn.*
Elegantalis, *Fitch.***Phalenostola**, Gr1338 Larentioides, *Gr.*
var. Citima, *Gr.*

DELTOIDES.

Pseudaglossa, Gr1339 Lubricalis, *Gcy.*
Phcalis, *Guen.*
Surrectalis, *Walk.*1340 Denticularis, *Harv.*1341 Scobialis, *Gr.*

Epizeuxis, Hubn.

- 1342 *Aemula*, Hubn.
Absorptalis, Walk.
Mollifera, Walk.
 1343 *Americalis*, Guen.
Scriptipennis, Walk.

Megachyta, Gr.

- 1344 *Lituralis*, Hubn.
 1345 *Decepticalis*, Zell.
 1346 *Gypsalis*, Gr.

Litognatha, Gr.

- 1347 *Nubilifascia*, Gr.
 1348 *Litophora*, Gr.

Chytolita, Gr.

- 1349 *Morbidalis*, Guen.
 1350 *Petrealis*, Gr.

Pityolita, Gr.

- 1351 *Pedipilalis*, Guen.

Zanclognatha, Led.

- 1352 *Laevigata*, Gr.
 1353 *Ochreipennis*, Gr.
 1354 *Cruralis*, Guen.
 1355 *Marcidilinea*, Gr.
 1356 *Obscuripennis*, Gr.
 1357 *Minimalis*, Gr.

Cleptomita, Gr.

- 1358 *Atrilineella*, Gr.

Coptoemia, Zell.

- 1359 *Floccalis*, Zell.

Pallachira, Gr.

- 1360 *Bivittata*, Gr.

Philometra, Gr.

- 1361 *Longilabris*, Gr.
 1362 *Serraticornis*, Gr.

Salia, Hubn.

- 1363 *Interpuncta*, Gr.
Saligna, Zell.

Rivula, Guen.

- 1364 *Propinqualis*, Guen.

Palthis, Hubn.

- 1365 *Angulalis*, Hubn.
 1366 *Asopialis*, Guen.

Phalenophana, Gr.

- 1367 *Rurigena*, Gr.

Pseudorgyia, Harv.

- 1368 *Versuta*, Harv.

HYPENINÆ.

Sisyrhpena, Gr.

- 1369 *Pupillaris*, Gr.

Capis, Gr.

- 1370 *Curvata*, Gr.

Renia, Guen.

- 1371 *Discoloralis*, Guen.
Fallacialis, Walk.
 1372 *Brevirostralis*, Gr.
 1373 *Alutalis*, Gr.
 1374 *Restrictalis*, Gr.
 1375 *Centralis*, Gr.
 1376 *Larvalis*, Gr.
 1377 *Flavipunctalis*, Gey.
 1378 *Belfragei*, Gr.
Pastoralis, Gr.
 1379 (?) *Plenilinealis*, Gr.

Tetanolita, Gr.

- 1380 *Lixalis*, Gr.

Bleptina, Guen.

- 1381 *Caradrinalis*, Guen.
 1382 *Inferior*, Gr.

Hypenula, Gr.

- 1383 *Opacalis*, Gr.

Lomanaltes, Gr.

- 1384 *Laetulus*, Gr.

Hypena, Fabr.

- § *Bomolocha*.
 1385 *Baltimoralis*, Guen.
Laciniosa, Zell.
Benignalis, Walk.
 1386 *Scutellaris*, Gr.
 1387 *Manalis*, Walk.
 1388 *Bijugalis*, Walk.
Pallialis, Zell.

- 1389 *Facialis*, Gr.
 1390 *Abalienalis*, Walk.
 1391 *Albopunctata*, Tepper.
 1392 *Annulalis*, Gr.
 1393 *Incusalis*, Gr.
 1394 *Achatinalis*, Zell.
 1395 *Madefactalis*, Guen.
 §
 1396 *Citata*, Gr.
 Trituberalis, Zell.
 § *Euhypena*.
 1397 *Toreuta*, Gr.
 Internalis, † Rob.
 Albosignalis, Zell.
 1398 *Sordidula*, Gr.
 § *Macrhypena*.
 1399 *Profecta*, Gr.
 1400 *Deceptalis*, Walk.
 1401 *Perangulalis*, Harv.
 § *Meghypea*.
 1402 *Vellifera*, Gr.
- 1403 *Lentiginosa*, Gr.
 § *Hypena*.
 1404 *Evanidalis*, Rob.
 Humuli, † Fitch
 var. *Olivacea*, Gr.
 1405 *Californica*, Behr.
 § *Plathypena*.
 1406 *Scabra*, Fabr.
 Humuli, Harr.
 ♀ *Erectalis*, Guen.
 var. ♀ *Subrufalis*, Gr.
- Eulintneria**, Gr.
 1407 *Bifidalis*, Gr.
 ♀ *Indivisalis*, Gr.
- Dercetis**, Gr.
 1408 *Vitrea*, Gr.
 1409 *Pygmæa*, Gr.

GEOMETRIDÆ.

ENNOMINÆ.

Choerodes, Guen.

- 1 *Clemitaria*, A. ♂ S.
 2 *Transversata*, Drury.
 Incurvata, Guen.
 Goniata, Guen.
 3 *Furciferata*, Pack.
 4 *Nubilata*, Pack.
 5 *Falcata*, Pack.

Tetracis, Guen.

- 6 *Aegrotata*, Guen.
 7 *Truxaliata*, Guen.
 8 *Grotearia*, Pack.
 9 *Cervinaria*, Pack.
 10 *Aurantiacaria*, Pack.
 11 *Paralleliaria*, Pack.
 12 *Coloradaria*, Gr. & R.
 13 *Crocallata*, Guen.
 14 *Lorata*, Grote.
 15 *Trianguliferata*, Pack.

Metanema, Guen.

- 16 *Quercivoraria*, Guen.
 17 *Forficaria*, Guen.
 18 *Inatomaria*, Guen.
 19 *Carnaria*, Pack.

Drepanodes, Guen.

- 20 *Puber*, G. & R.
 21 *Varus*, G. & R.
 ♂ *Sesquilinea*, Gr.
 ♀ *Aquosus*, G. & R.
 Juniperaria, Pack.
 22 *Olyzonaria*, Walk.

Caberodes, Guen.

- 23 *Confusaria*, Hubn.*
 Metrocamparia, Guen.
 24 *Majoraria*, Guen.
 25 *Cayennaria*, Guen.
 26 *Cervinaria*, Pack.

Ennomos, Tr.

- 27 *Alniaria*, Linn.
 Magnaria, Guen.

Endalimia, Hubn.

- 28 *Subsignaria*, Hubn.

Selenia, Hubn.

- 29 *Kentaria*, G. & R.
 30 *Alciphearia*, Walk.

* This species has been redescribed nine or ten times, Pack. Mon., 534.

Azelina, Guen.

- 31 Hubnerata, *Guen.*
 32 Behrensata, *Pack.*
 33 Morrisonata, *Hy. Edw.*
 34 Zalissaria, *Walk.*
 35 Arizonaria, *Hy. Edw.*

Endropia, Guen.

- 36 Serrata, *Drury.*
 37 Obtusaria, *Hubn.*
 Tigrinaria, Guen.
 Muzaria, Walk.
 38 Effectaria, *Walk.*
 39 Pectinaria, *W. V.*
 40 Bilinearata, *Pack.*
 41 Armataria, *H.-S.*
 42 Amoenaria, *Guen.*
 var. Arefactaria, G. & R.
 43 Madusaria, *Walk.*
 Vinosaria, G. & R.
 44 Vinulentaria, G. & R.
 45 Marginata, *Minot.*
 46 Warneri, *Harvey.*
 Apictaria, Pack.
 47 Homuraria, G. & R.
 48 Hypochraria, *H.-S.*
 Refractaria, Guen.
 49 Duaria, *Guen.*
 Hamaria, Guen.
 50 Pilosaria, *Pack.*

Epirranthis, Hubn.

- 51 Obfirmaria, *Hubn.*

Therina, Hubn.

- 52 Fervidaria, *Hubn.*
 Fiscellaria, Guen.
 Flagitiaria, Guen.
 53 Endropiaria, G. & R.
 54 Bibularia, G. & R.
 ♀ *Pellucidaria*, G. & R.

Metrocampa, Guen.

- 55 Margaritata, *Linn.*
 Perlata, Guen.
 Viridoperlata, Pack.

Anagoga, Hubn.

- 56 Pulveraria, *Linn.*

Epione, Dup.

- 57 Mollicularia, *Zell.*

Antepione, Pack.

- 58 Depontanata, *Gr.*
 59 Sulphurata, *Pack.*

Sicya, Guen.

- 60 Macularia, *Harris.*
 Solfataria, Guen.
 Sublmaria, Guen.
 Truncataria, Guen.
 Crocearia, Pack.

Heterolocha, Led.

- 61 Edwardsata, *Pack.*

Hesperumia, Pack.

- 62 Ochreate, *Pack.*
 Sulphuraria, Pack.

Angerona, Dup.

- 63 Crocataria, *Fab.*
 Citrinaria, Hubn.

Nematocampa, Guen.

- 64 Filamentaria, *Guen.*
 Vestitaria, *H.-S.*
 65 Expunctaria, *Gr.*

Plagodis, Hubn.

- 66 Rosaria, G. & R.
 Serinaria, Pack.
 67 Floscularia, *Gr.*
 68 Excelsa, *Strk.*
 69 Keutzingaria, *Gr.*
 70 Fervidaria, *H.-S.*
 Emargataria, Guen.
 Excurvaria, Morr.
 71 Phlogosaria, *Guen.*
 72 Alcoolaria, *Guen.*

Hyperetis, Guen.

- 73 Amicaria, *H.-S.**

GEOMETRINÆ.

Geometra, Linn.

- 74 Iridaria, *Guen.*
 75 Rectaria, *Gr.*
 76 Inclusaria, *Walk.*

* For the lengthy synonymy of this species see Dr. Packard's Monograph, p. 461. I believe this name was the earliest published.

Anaplodes, Pack.

- 77 Pistacearia,
- Pack.*

Aplodes, Guen.

- 78 Latiaria, *Pack.*
 79 Approximaria, *Pack.*
 80 Juncolinearia, *Gracif.*
 81 Undinaria, *Strk.*
 82 Viridicaria, *Hulst.*
 83 Rubrolinearia, *Pack.*
 84 Rubromarginaria, *Pack.*
 85 Brunnearia, *Pack.*
 86 Mimosaria, *Guen.*
 Venustus, Walsh.
 87 Packardaria, *Gr.*
 Rach. Rubrifrontaria, † *Pack.*

Racheospila, Guen.

- 88 Lixaria, *Guen.*
 89 Cupedinaria, *Gr.*

Synchlora, Guen.

- 90 Rubivora, *Riley.*
 Albolineata, *Pack.*
 Gracilaria, *Pack.*
 91 Rubrifrontaria, *Pack.*

Chlorosea, Pack.

- 92 Nevadaria, *Pack.*
 93 Bistriaria, *Pack.*
 94 Perviridaria, *Pack.*

Anemoria, Pack.

- 95 Unitaria,
- Pack.*

Nemoria, Hubn.

- 96 Subcroceata, *Walk.*
 97 Gratata, *Walk.*
 98 Pistaciata, *Guen.*

Eucrostis, Hubn.

- 99 Chloroleucaria, *Guen.*
 100 Zelleraria, *Pack.*

Dyspteris, H.-S.

- 101 Abortivaria,
- H.-S.*

ACIDALIINÆ.

Euephyra, Pack.

- 102 Serrulata,
- Pack.*

Ephyra, Dup

- 103 Pendulinaria, *Guen.*
 104 Myrtaria, *Guen.*

Acidalia, Tr.

- 105 Ossularia, *Hubn.*
 106 Granitaria, *Pack.*
 107 Perirrorata, *Pack.*
 108 Longipennata, *Pack.*
 109 Peralbata, *Pack.*
 110 Lacteola, *Lintn.*
 111 Punctofimbriata, *Pack.*
 112 Productata, *Pack.*
 113 Insulsaria, *Guen.*
 Persimilata, *Gr.*
 114 Pannaria, *Guen.*
 Purpurissata, *Gr.*
 115 Albocostaliata, *Pack.*
 116 Rotundopennata, *Pack.*
 117 Nivosata, *Guen.*
 118 Rubromarginata, *Pack.*
 119 Quæsitata, *Hulst.*
 120 Inductata, *Guen.*
 Frigidaria, *Moeschl.*
 Okakaria, *Pack.*
 121 Pacificaria, *Pack.*
 Californiaria, *Pack.*
 122 Sentinaria, *Geyer.*
 Spyraria, *Chr.*
 123 Rubrolineata, *Pack.*
 124 Subalbaria, *Pack.*
 125 Quadrilineata, *Pack.*
 126 Cæcuminata, *Morr.*
 127 Eucleata, *Guen.*
 128 Quinquelineata, *Pack.*
 129 Ordinata, *Walk.*
 Candiaria, *Pack.*
 130 Magnetaria, *Guen.*
 131 Sideraria, *Guen.*
 132 Balistaria, *Guen.*
 133 Demissaria, *Hubn.*
 134 Purata, *Guen.*
 135 Myrmidonata, *Guen.*
 136 Temnaria, *Guen.*
 137 Hepaticaria, *Guen.*
 138 Sublataria, *Guen.*
 139 Placidaria, *Guen.*
 140 Ferruminaria, *Zell.*
 141 Minutularia, *Hulst.*

Asthena, Hubn.

- 142 Lucata, *Guen.*
 143 Albogilvaria, *Morr.*
 Triseriata, *Pack.*
 144 Brunneifasciata, *Pack.*

Ceratotalia, Pack.

- 145 Gueneata,
- Pack.*

Eois, Hubn.

- 146 Gemmata, *Pack.*
 147 Occidentata, *P. ck.*
 148 Ferrugata, *Pack.*

Enacidalia, Pack.

- 149 Sericeata, *Pack.*
 150 Floridata, *Pack.*

Calothysanis, Hubn.

- 151 Amaturaria, *Walk.*

Byssodes, Guen.

- 152 Obrussata, *Gr.*

GONIACIDALINÆ.

Calledapteryx, Gr.

- 153 Dryopterata, *Gr.*

Goniacidalia, Pack.

- 154 Furciferata, *Pack.*

Callizzia, Pack.

- 155 Amorata, *Pack.*

CABERINÆ.

Stegania, Guen.

- 156 Pustularia, *Guen.*

Gueneria, Pack.

- 157 Basiata, *Walk.*

Deilimia, Hubn.

- 158 Variolaria, *Guen.*
 159 Erythemaria, *Guen.*
 160 Pacificaria, *Pack.*
 161 (?) Glomeraria, *Gr.*
 162 (?) Septemlinearia, *Gr.*

Eudeilimia, Pack.

- 163 Herminiata, *Guen.*
Biseriata, *Pack.*

Corycia, Dup.

- 164 Vestaliata, *Guen.*
Functaria, *Walk.*
 165 Semiclarata, *Walk.*
Viatica, *Harv.*

FIDONINÆ.

Eumacaria, Pack.

- 166 Brunnearia, *Pack.*

Semiothisa, Hubn.

- 167 Distribuaria, *Hubn.*
 168 Contemptata, *Guen.*
 169 Præatomata, *Harv.*
Consimilata, *Zell.*
 170 Minorata, *Pack.*
 171 Bisignata, *Walk.*
Galbineata, *Zell.*
 172 Multilineata, *Pack.*
 173 Enotata, *Guen.*
Æmulataria, *Walk.*
Sectomaculata, *Morr.*
 174 Granitata, *Guen.*
Sexmaculata, *Pack.*
Unimodaria, *Moir.*
 175 Punctolineata, *Pack.*
 176 Ocellinata, *Guen.*
Duplicata, *Pack.*
 177 Dislocaria, *Pack.*
 178 Californiata, *Pack.*
Pallidata, *Pack.*
 179 Octosignata, *Pack.*
 180 Respersata, *Hulst.*
 181 Grassata, *Hulst.*
 182 Vellivolata, *Hulst.*
 183 Aquiferaria, *Walk.*
 184 Transitaria, *Walk.*
 185 Inextricata, *Walk.*
 186 Tractata, *Walk.*
 187 Latiferrugata, *Walk.*

Psammatodes, Guen.

- 188 Eremita, *Guen.*

Phasiæne, Dup.

- 189 Atrofasciata, *Pack.*
Orillata, † *Pack.*
 190 Orillata, *Walk.*
Excurvata, *Pack.*
 191 Nubiculata, *Pack.*
 192 Snoviata, *Pack.*
Subminiata, *Pack.*
 193 Curvata, *Gr.*
 194 Hypæthrata, *Gr.**
 195 Colata, *Gr.*
 196 Meadiata, *Pack.*
 197 Mellistrigata, *Gr.*
 198 Trifasciata, *Pack.*
 199 Sinuata, *Pack.*
 200 Subminiata, *Pack.*

* The type of this species, and that of *Colata* and *Curvata* are contained in the superb collection of Mr. B. Neumoegen.

- 201 Irrorata, *Pack.*
 202 Neptata, *Pack.*
 203 Hebetata, *Hulst.*

Marmopteryx, *Pack.*

- 204 Strigularia, *Minot.*
Oeneiformis, *Harvey.*
 205 Marmorata, *Pack.*
 206 Dryadata, *Hulst.*
 207 Formosata, *Strk.*
 208 Tessellata, *Pack.*

Thammonoma, *Led.*

- 209 Tripunctaria, *Pack.*
 210 Marcescaria, *Guen.*
Cinevaria, *Pack.*
 211 Guenearia, *Pack.*
 212 Quadrilinearia, *Pack.*
 213 Wavaria, *Linn.*
 214 Subcessaria, *Walk.*
 215 Sulphuraria, *Pack.*
 216 Brunneata, *Thun.*
Quinquaria, *Hubn.*
Pinctaria, *Hubn.*
Sylvaria, *Curtis.*
 217 Argillacearia, *Pack.*
 218 Flavicaria, *Pack.*

Lozogamma, *Steph.*

- 219 Lactispargata, *Walk.*
Disconventa, *Walk.*
 220 Detersata, *Guen.*
 221 Atropunctata, *Pack.*
Fernaldi, *Gr.*
 222 Defluata, *Walk.*
 223 Nigroseriata, *Pack.*
 224 Bifilata, *Hulst.*

Enfitchia, *Pack.*

- 225 Ribearia, *Fitch.*

Selidosema, *Led.*

- 226 Juturnaria, *Guen.*
Californiaria, *Pack.*

Orthofidonia, *Pack.*

- 227 Exornata, *Walk.*
Albifusata, *Walk.*

Caripeta, *Walk.*

- 228 Divisata, *Walk.*
 229 Angustiorata, *Walk.*
Piniaria, *Pack.*
 230 Latiorata, *Walk.*

Dasyfidonia, *Pack.*

- 231 Avuncularia, *Guen.*

Ematurga, *Led.*

- 232 Faxonii, *Minot.*

Fidonia, *Tr.*

- 233 Fimetaria, *G. ♂ R.*
Halesaria, *Zell.*
 234 Truncataria, *Walk.*
Tricoloraria, *Morr.*
 235 Notataria, *Walk.*
Bicoloraria, *Minot.*
Quadripunctata, *Morr.*
Discospilata, *Walk.*

Loxofidonia, *Pack.*

- 236 Acidaliata, *Pack.*

Lythria, *Hubn.*

- 237 Snoviaria, *Pack.*
 238 Chamæchrysiaria, *Gr.*
Rilevaria, *Pack.*

Hæmatopis, *Hubn.*

- 239 Grataria, *Fabr.**
Saniaria, *Hubn.*

Caterva, *Gr.*

- 240 Catenaria, *Drury.*
 241 Elegantaria, *Hy. Ed.*

Eucaterva, *Gr.*

- 242 Variaria, *Gr.*

Tornos, *Morr.*

- 243 Rubiginosus, *Morr.*
 244 Approximaria, *Pack.*
 245 Infumataria, *Gr.*

Meskea, *Gr.*

- 246 Dyspteraria, *Gr.*

* Of this species I have a lovely suffused specimen from Illinois. The red color largely obtains over the wings.

Stenaspilates, Pack.

- 247 Meskearia,
- Pack.*

Chloraspilates, Pack.

- 248 Bicoloraria,
- Pack.*
-
- 249 Arizonaria,
- Gr.*

Aspilates, Tr.

- 250 Viridirufaria,
- Neum.*
-
- 251 Gausaparia,
- Gr.*
-
- 252 Dissimilaria,
- Hubn.*
-
- 253 Lintneraria,
- Pack.*
-
- 254 Coloraria,
- Fab.*
-
- Accessaria*
- , Hubn.
-
- var. Spheromacharia*
- ,
- Harv.*
-
- 255 Pervaria,
- Pack.*
-
- var. Interminaria*
- ,
- Gr.*
-
- 256 Quadrifasciaria,
- Pack.*

Euaspilates, Pack.

- 257 Spinataria,
- Pack.*

Gorytodes, Guen.

- 258 Uncanaria,
- Guen.*
-
- Californiaria*
- , H.-S.
-
- 259 Personaria,
- Hy. Ed.*
-
- 260 Trilineararia,
- Pack.*
-
- 261 Dulcearia,
- Gr.*

BOARMINÆ.

Cleora, Curtis.

- 262 Pulchraria,
- Minot.*
-
- Piniaria*
- ,
- Pack.*
-
- Pellucidaria*
- ,
- Pack.*
-
- 263 Umbrosaria
- Pack.*
-
- 264 Nigrovenaria,
- Pack.*

Stenotrachelys, Guen.

- 265 Approximaria,
- Hubn.*
-
- 266 Permagnaria,
- Pack.*

Hemerophila, Steph.

- 267 Unitaria,
- H.-S.*
-
- 268 Latifasciaria,
- Pack.*

Gnophos, Tr.

- 269 Haydenata,
- Pack.*

Ceratomyx, Guen.

- 270 Satanaria,
- Guen.*

Epimecis, Hubn.

- 271 Hortaria,
- Fab.*
-
- Liriodendriaria*
- , A. & S.

Cymatophora, Hubn.

- 272 Pulmonaria,
- Gr.*
-
- 273 Californiaria,
- Pack.*
-
- 274 Umbrosaria,
- Hubn.*
-
- Gnopharia*
- , Guen.
-
- 275 Polygrammaria,
- Pack.*
-
- 276 Larvaria,
- Guen.*
-
- 277 Humaria,
- Guen.*
-
- Intraria*
- , Guen. '
-
- Defectaria*
- , Guen.
-
- 278 Pampinaria,
- Guen.*
-
- Frugaliaria*
- , Guen.
-
- Fraudulentaria*
- , Zell.
-
- 279 Quinquelinearia,
- Pack.*
-
- 280 Plumosaria,
- Pack.*
-
- 281 Psilogrammaria,
- Zell.*
-
- 282 Crepuscularia,
- Tr.*
-
- Occiduararia*
- , Guen.
-
- Fumataria*
- , Min.
-
- 283 Filaria,
- Walk.*
-
- 284 Divisaria,
- Walk.*

Tephrosia, Boisd.

- 285 Canadaria,
- Guen.*
-
- 286 Cognataria,
- Hubn.*
-
- 287 Californiaria,
- Pack.*
-
- 288 Falcataria,
- Pack.*
-
- 289 Anticaria,
- Walk.*
-
- 290 Cribrataria,
- Guen.*

Paraphia, Guen.

- 291 Subatomaria,
- Guen.*
-
- Nubecularia*
- , Guen.
-
- Macmurraria*
- , Guen.
-
- 292 Unipunctata,
- Harv.*
-
- 293 Deplanaria,
- Guen.*

Biston, Leach.

- 294 Ursarius,
- Walk.*
-
- 295 Virginarius,
- Gr.*

Enbyja, Hubn.

- 296 Cognataria,
- Guen.*
-
- 297 Cupidaria,
- Gr.*
-
- 298 Pænulataria,
- Gr.**
-
- 299 Quernaria,
- A. & S.*

Hybernia, Latr.

- 300 Tiliaria,
- Harv.*

* Pl. 2, fig. 3, Proc. Ent. Soc. Phil.; this species is not mentioned by Packard, nor have I again seen the type since April, 1863.

Phigalia, Dup.

- 301 Strigataria, *Minot.*
 302 Olivacearia, *Morr.*
 303 Cinctaria, *French.*

Anisopteryx, Steph.

- 304 Vernata, *Harris.*
 305 Antumnata, *Pack.*

Operophtera, Hubn.

- 306 Boreata, *Hubn.*

LARENTINÆ.

Lithostege, Hubn.

- 307 Triseriata, *Pack.*
 308 Rotundata, *Pack.*
 309 Virginata, *Gracif.*

Heterophteps, H.-S.

- 310 Harvejata, *Pack.*
 311 Triguttaria, *H.-S.*

Heliomata, Gr.

- 312 Infulata, *Gr.*
 313 Elaborata, *Gr.*
 314 Cycladata, *Gr.*

Baptria, Hubn.

- 315 Albofasciata, *Gr.**
 316 Albovittata, *Guen.*
 317 Californiata, *Pack.*

Carsia, Hubn.

- 318 Paludata, *Thun.*
 ♂ *Boreata*, *Pack.*
 ♀ *Alpinata*, *Pack.*

Lobophora, Curtis.

- 319 Geminata, *Gr.*
 320 Anguilineata, *Gr.*
 321 Vernata, *Pack.*
 322 Viridata, *Pack.*
 323 Montanata, *Pack.*
 324 Inequaliata, *Pack.*

Triphosa, Curt.

- 325 Indubitata, *Gr.*
Dubitata, † *Harv.*

Philereme, Hubn.

- 326 Albosignata, *Pack.*
 327 Californiata, *Pack.*
 328 Meadiata, *Pack.*

Hydria, Hubn.

- 329 Undulata, *L.*

Phibalapteryx, Steph.

- 330 Latirupta, *Walk.*
Lascinata, *Zell.*
 331 Intestinata, *Guen.*

Anticlea, Steph.

- 332 Vasaliata, *Guen.*

Rheumaptera, Hubn.

- 333 Brunneicillata, *Pack.*
 334 Ruficillata, *Guen.*
 335 Basaliata, *Walk.*
 336 Parinotata, *Zell.*
 337 Fluctuata, *Linn.*
 338 Intermediata, *Guen.*
 339 Lacustrata, *Guen.*
 340 Unangulata, *Harv.*
 341 Lugubrata, *Schiff.*
 342 Tristata, *Linn.*
 343 Hastata, *Linn.*

Ochyria, Hubn.

- 344 Convallaria, *Guen.*
 345 Defensaria, *Guen.*
 346 Ferrugata, *Linn.*
 347 Designata, *Hubn.*
 348 Lucteata, *Pack.*
 349 Rubrosuffusata, *Pack.*
 350 Carneata, *Pack.*
 351 Gueneata, *Pack.*
 352 Abrasaria, *H.-S.*
Nigrofasciata, *Pack.*
 353 Lignicolorata, *Pack.*
 354 Munitata, *Hubn.*
Californiata, *Pack.*
var. Labradorensis, *Pack.*

Petrophora, Hubn.

- 355 Flavicata, *Pack.*
 356 Diversilineata, *Hubn.*
var. Gracilineata, *Guen.*
 357 Packardata, *Linn.*
Populata, † *Pack.*
 358 Testata, *Linn.*

* I have not seen the type since it was figured in 1863. I hardly believe the insect is a *Baptria*; we may have to do with a form of *Hastata*.

- 359 Leoninata, *Pack.*
 360 Prunata, *Linn.*
 361 Atricolorata, *G. & R.*
 362 Cunigerata, *Walk.*
 363 Albolineata, *Pack.*
 364 Mancipata, *Guen.*
 Subochreata, *Pack.*
 365 Hersiliata, *Guen.*
 366 Truncata, *Hufn.*

Hydriomena, Hubn.

- 367 Trifasciata, *Borkh.*
 Impluviata, *W. V.*
 368 Speciosata, *Pack.*
 369 Sordidata, *Fabr.*
 Nubilofasciata, *Pack.*
 Albifasciata, *Pack.*
 Californiata, *Pack.*
 Bistriolata, *Zell.*
 Glaucata, *Pack.*
 Quinquefasciata, *Pack.*

Thera, Steph.

- 370 Contractata, *Pack.*

Epirria, Hubn.

- 371 Perlineata, *Pack.*
 372 Cambricaria, *Curtis.*
 373 Dilutata, *Borkh.*
 374 Duodecemlineata, *Pack.*

Plemyria, Hubn.

- 375 Fluviata, *Hubn.*
 376 Multiferata, *Walk.*

Glaucopteryx, Hubn.

- 377 Phocata, *Moeschl.*
 378 Sabinii, *Curtis.*

- 379 Polata, *Duf.*
 380 Implicata, *Guen.*
 Multilineata, *Pack.*
 381 Cumatilis, *G. & R.**
 Magnoliata, *Pack.*
 Quadrifasciata, *Pack.*
 382 Cæsiata, *Borkh.*

Eupethecia, Curtis.

- 383 Cretaceata, *Pack.*
 384 Subapicata, *Guen.*
 Occidentaliata, *Pack.*
 385 Nevadata, *Pack.*
 386 Ravocostaliata, *Pack.*
 387 Behrensata, *Pack.*
 388 Strattonata, *Pack.*
 389 Rotundopunctata, *Pack.*
 390 Miserulata, *Grote.*
 391 Interruptofasciata, *Pack.*
 392 Zygadeniata, *Pack.*
 393 Absynthiata, *Linn.*
 394 Albicapitata, *Pack.*
 395 Tenuata, *Hufn.*
 396 Gelidata, *Moeschl.*
 397 Implicata, *Walk.*
 398 Explanata, *Walk.*
 399 Anticaria, *Walk.*

Exelis, Guen.

- 400 Pyrolaria, *Guen.*

Lepiodes, Guen.

- 401 Scolopacinaria, *Guen.*

EMPLOCINÆ.

Emplocia, H.-S.

- 402 Cephisaria, *Grote.*
 403 Fervefactaria, *Grote.*

PYRALIDÆ.

PYRALIDIDÆ.

Paraedis.†

- 1 Funalis, *Gr.*
 2 Simulatilis, *Gr.*

Prorasea, Gr.

- 3 Simalis, *Gr.*

Stemmatophora, Guen.

- 4 Nicalis, *Gr.*

* Dr. Packard calls this species Guenée's *Magnoliata*. Guenée's desc., X, 455, calls the fore wings "White, with black lines dividing the wing in five spaces," with a "thick cellular spot." The hind wings are called "white," and there is no "green" mentioned.

† This genus is established by me under the name *Ædis*; it appears it is too near *Ædia* to avoid confusion, and I change it.

Omphalocera, Led.

- 5 Cariosa, *Led.*
6 Dentosa, *Gr.*

Aglossa, Latr.

- 7 Domalis, *Guen.*

Asopia, Tr.

- 8 Farinalis, *Linn.*
9 Costalis, *Fabr.*
Fimbrialis, S. V.
10 Olinalis, *Guen.*
Trentonalis, Led.
11 Binodulalis, *Zell.*
12 Cohortalis, *Gr.*
13 Himonialis, *Zell.*
14 Devialis, *Gr.*
15 Planalis, *Gr.*
16 Squamealis, *Gr.*

Arta, Gr.

- 17 Statalis, *Gr.*
18 Olivalis, *Gr.*

Condylolomia, Gr.

- 19 Participialis, *Gr.*

Cordylopeza, Zell.

- 20 Nigrinodis, *Zell.*

Siparocera, Rob.

- 21 Nobilis, *Rob.*

Ocetoperia, Zell.

- 22 Sincera, *Zell.*

Melanomma, Gr.

- 23 Auricinctaria, *Gr.*

Chalcoela, Zell.

- 24 Aurifera, *Zell.*
25 Robinsonii, *Gr.*

Dicynolomia, Zell.

- 26 Decora, *Zell.*

Emprepes, Led.

- 27 Novalis, *Gr.*
28 Nuchalis, *Gr.*

Scoparia, Haw.

- 29 Centuriella, *S. V.*
30 Libella, *Gr.*

Theleteria, Led.

- 31 Pupula, *Hubn.*

Botis, Schrank.

- 32 Cardinalis, *Guen.*
33 Octomaculata, *Linn.*
Glomeralis, Walk.
34 Flavinotalis, *Gr.*
35 Californicalis, *Pack.*
36 Insequalis, *Guen.*
Subsequalis, *Guen.*
37 Generosa, *G.-R.*
38 Borealis, *Pack.*
Matronalis, *Gr.*
39 Dapalis, *Gr.*
40 Unimacula, *G.-R.*
41 Augustalis, *Gr.*
42 Volupialis, *Gr.*
43 Signatalis, *Walk.*
Vinulenta, *G.-R.*
44 Norocalis, *Walk.*
45 Diffissa, *G.-R.*
46 Similalis, *Led.*
47 Phœnicealis, *Hubn.*
48 Toralis, *Gr.*
49 Tyralis, *Guen.*
50 Flavofascialis, *Gr.*
51 Laticlavata, *G.-R.*
var. Cinerosa, *G.-R.*
52 Ruffimbrialis, *Gr.*
53 Sumptuosalis, *Walk.*
Haruspica, *G.-R.*
Proceralis, Led.
54 Onythesalis, *Walk.*
55 Vibicalis, *Zell.*
56 Nasonialis, *Zell.*
57 Sesquialteralis, *Zell.*
58 Atropurpuralis, *Gr.*
59 Lethalis, *Gr.*
60 Commortalis, *Gr.*
[§]
61 Rubigalis, *Guen.*
61½ Harveyana, *Gr.*
(?) an sp. praec.
62 Posticata, *G.-R.*
63 Profundalis, *Pack.*
64 Badipennis, *Gr.*
65 Teneralis, *Led.*
66 Plumbofascialis, *Led.*
67 Tatalis, *Gr.*
68 Allectalis, *Gr.*
69 Albiceralis, *Gr.*
70 Turmalis, *Gr.*
71 Mustelinalis, *Pack.*
Catenulalis, *Gr.*
72 Fodinalis, *Led.*
73 Socialis, *Gr.*

- 74 Annaphilalis, *Gr.*
 75 Washingtonalis, *Gr.*
 76 Reversalis, *Guen.*
 77 Penitalis, *Gr.*
 78 Erectalis, *Gr.*
 79 Coloradensis, *G.-R.*
 80 Plumbicostalis, *Gr.*
 81 Flavidalis, *Guen.*
 Cinctipedalis, *Walk.*
 82 Oxydalis, *Guen.*
 83 Langdonalis, *Gr.*
 84 Capitalis, *Gr.*
 85 Flavidissimalis, *Gr.*
 86 Trimaculalis, *Gr.*
 87 Fuscimaculalis, *Gr.*
 88 Principialis, *Led.*
 89 Flavicoloralis, *Gr.*
 90 Citrina, *G.-R.*
 91 Inconciannalis, *Led.*
 92 Futilialis, *Led.*
 93 Marculenta, *G.-R.*
 94 Submedialis, *Gr.*
 Dissectalis, *Gr.*
 95 Opilalis, *Gr.*
 96 Oscitalis, *Gr.*
 97 Mancalis, *Led.*
 98 Pertextalis, *Led.*
 99 Gentilis, *Gr.*
 (?) *Thesealis*, *Zell.*
 100 Thesealis, *Walk.*
 101 Intricalis, *Led.*
 102 Fumalis, *Guen.*
 103 Magistralis, *Gr.*
 104 Quinquelinealis, *Gr.*
 105 Fissalis, *Gr.*
 106 Feudalis, *Gr.*
 107 Terrealis, *Tr.*
 108 Repetitalis, *Gr.*
 109 Penumbrales, *Gr.*
 110 Tertialis, *Guen.*
 111 Singularis, *Led.*
 112 Crocatalis, *Gr.**
 113 Obunbratalis, *Led.*
 114 Dasconalis, *Walk.*
 115 Vacunalis, *Gr.*
 116 Venalis, *Gr.*
 117 Magniferalis, *Walk.*
 Euphasalis, *Walk.*
 (?) *Subjectalis*, *Led.*
 118 Ilribalis, *Hubn.*
 119 Oblunalis, *Led.*
 120 Extricalis, *Guen.*
 121 Obscuralis, *Led.*
 122 Fluctuosalis, *Led.*
 123 Spoliatalis, *Led.*
 124 Perrubralis, *Pack.*
 125 Semirubralis, *Pack.*
 126 Syringicola, *Pack.*
 127 Plectilis, *G.-R.*

- 128 Adipaloides, *G.-R.*
 129 Talis, *Gr.*
 §
 130 Subolivatis, *Pack.*
 Hircinalis, *Gr.*
 (?) *Unifascialis*, *Pack.*
 131 Niveiciliialis, *Gr.*
 132 Stenopteralis, *Gr.*
 §
 133 Ventralis, *G.-R.*
 134 Argyralis, *Hubn.*
 135 Fracturalis, *Zell.*

Enrycreon, Led.

- 136 Sticticalis, *Linn.*
 137 Cerealis, *Zell.*
 138 Anartalis, *Gr.*
 139 Chortalis, *Gr.*
 140 Elautalis, *Gr.*
 141 Rantalis, *Guen.*
 Crinitalis, *Led.*
 Communis, *Gr.*
 Occidentalis, *Pack.*

Nomophila, Hubn.

- 142 Noctuella, *S. V.*

Orobena, Guen.

- 143 Octonalis, *Zell.*
 Sexmaculalis, *Gr.*

Samea, Guen.

- 144 Huronalis, *Guen.*
 145 Ecclesiialis, *Guen.*
 146 Castellalis, *Guen.*
 147 Ebulealis, *Guen.*

Mesographe, Hubn.

- 148 Rimosalis, *Guen.*
 149 Stramentalis, *Hubn.*

Crocidophora, Led.

- 150 Tuberculalis, *Led.*
 151 Pustuliferalis, *Led.*
 152 Serratissimalis, *Zell.*
 Subdentalis, *Gr.*
 153 Anticostalis, *Gr.*

Perispasta, Zell.

- 154 Caeculalis, *Zell.*
 155 Immaculalis, *Gr.*

* This species must be near to *Singularis*. It is white beneath, and thus I cannot think it identical. Lederer says of his species, "the whole insect yellowish flesh color, faintly iridescent."

Pantographa, Led.156 *Limata*, G.-R.**Stenophyes**, Led.157 *Serinalis*, Walk.**Blepharomastix**, Led.158 *Ranalis*, Guen.
Gracilis, G.-R.
Septalis, Schl. i. l.**Eudiotis**, Hubn.159 *Hyalinata*, Linn.
160 *Nitidalis*, Cram.**Desmia**, Westw.161 *Maculalis*, Westw.
162 *Subdivisalis*, Gr.**Hyalca**, Guen.163 *Dividalis*, Hubn.**Zinckenia**, Zell.164 *Perspectalis*, Hubn.**Cindaphia**, Led.165 *Bicoloralis*, Guen.**Conchylodes**, Guen.166 *Pantheralis*, Hubn.
167 *Platinalis*, Guen.**Isopteryx**, Guen.168 *Magnalis*, Guen.
169 *Stenialis*, Guen.
170 *Ochropteralis*, Guen.
171 *Apicalis*, Guen.**Parthenodes**, Guen.172 *Xantholeucalis*, Guen.**Clineodes**, Guen.173 *Opilalis*, Guen.**Margarodes**, Guen.174 *Quadrastigmatalis*, Guen.**Metrea**, Gr.175 *Ostreonalis*, Gr.

HYDROCAMPINÆ.

Oligostigma, Guen.176 *Albalis*, Rob.
177 *Obscuralis*, Gr.**Hydrocampa**, Guen.178 *Genuinalis*, Led.
Genuialis, Led.
179 *Pacalis*, Gr.
180 *Ekthlipsis*, Gr.
181 *Formosalis*, Clem.**Chrysendeton**, Gr.182 *Medicinalis*, Gr.
183 *Helopalis*, Clem.**Cataclysta**, Hubn.184 *Fulicalis*, Clem.
185 *Angulatalis*, Led.
186 *Bifascialis*, Rob.
187 *Opulentalis*, Led.
188 *Moniligeralis*, Led.**Paraponyx**, Hubn.189 *Plenilinealis*, Gr.
190 *Cretacealis*, Led.
191 *Aptalis*, Led.
192 *Tedyuscongalis*, Clem.
193 *Maculalis*, Clem.**Nymphacella**, Gr.194 *Dispar*, Gr.

HOMOPHYSIDÆ.

Lipocosma, Led.195 *Sicalis*, Walk.**Homophysa**, Guen.196 *Fulminalis*, Led.
197 *Glaphyralis*, Guen.
198 *Albolineata*, G.-R.
199 *Sesquistrialis*, Hubn.
200 *Lentiflualis*, Zell.
201 *Reniculalis*, Zell.
202 *Eripalis*, Gr.
203 *Peremptalis*, Gr.

EPIPASCHLÆ.

Epipaschia, Clem.204 *Superatalis*, Clem.
Borealis, Gr.

Mochlocera, Zell.205 Zelleri, *Gr.***Cacozelia**, Gr.206 Basiochrealis, *Gr.***Toripalpus**, Gr.207 Breviornatalis, *Gr.*208 Trabalis, *Gr.***Tetralopha**, Zell.209 Militella, *Zell.*210 Robustella, *Zell.*211 Platanella, *Clem.*212 Asperatella, *Clem.*213 Melanogrammos, *Zell.*214 Diluculella, *Gr.*

PHYCIDÆ

Nephoteryx, Hubn.215 Ovalis, *Pack.*♀ *Latifasciella*, *Pack.*216 Scobiella, *Gr.*217 Consobrinella, *Zell.*218 Basilaris, *Zell.*219 Fenestrella, *Pack.*220 Leoninella, *Pack.*

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221 Undulatella, *Clem.*222 Ulmi-arrosorella, *Clem.*223 Edmandsii, *Pack.***Pyla**, Gr.224 Scintillans, *Gr.***Pinipestis**, Gr.225 Zimmermani, *Gr.*226 Reniculella, *Gr.*227 Abietivorella, *Pack.***Phycis**, Haw.228 Exulella, *Zell.*229 Rubrifasciella, *Pack.*230 Tricolorella, *Gr.*231 Indiginella, *Zell.**Nebulo*, Walsh.var. *Juglandis*, *LeBar.*232 Angusella, *Gr.*233 Demotella, *Gr.*234 Caryæ, *Gr.***Salebria**, Zell.235 Fusca, *Haw.*236 Contatella, *Gr.*var. *5-punctella*, *Gr.***Meroptera**, Gr.237 Pravella, *Gr.***Pempelia**, Hubn.238 Lignosella, *Zell.**Incautella*, *Zell.*239 Petrella, *Zell.*240 Tartarella, *Zell.*241 Virgatella, *Clem.*242 Subcæsiella, *Clem.*243 Hammondi, *Riley.*244 Gleditschiella, *Fernald.***Dakruma**, Gr.245 Convolutella, *Hubn.**Grossulariæ*, *Pack.**Turbatella*, *Gr.*246 Coccidivora, *Comst.*247 Pallida, *Comst.***Homcosoma**, Curt.248 Stypticella, *Gr.***Megaphycis**, Gr.249 Bollii, *Zell.*250 Dentata, *Gr.***Myelois**, Zell.251 Albiplagiata, *Pack.***Honora**, Gr.252 Mellinella, *Gr.***Epischnia**, Hubn.253 Farrella, *Curt.***Anerastia**, Hubn.254 Hæmatica, *Zell.**Roscatella*, *Pack.*255 Tetradella, *Zell.*256 Glareosella, *Zell.*257 Binotella, *Zell.***Ephesia**, Guen.258 Elutella, *Hubn.*259 Ostrinella, *Clem.*260 Interpunctella, *Hubn.**Zew*, Fitch.261 Ochrifrontella, *Zell.*262 Hospitella, *Zell.*

CRAMBIDÆ.

Argyria, Hubn.

- 263 Nivalis, *Drury*.
Argentata, † Gr.
Nummulalis, † Zell.
Microchrysellus, Walk.
 204 Nummulalis, *Hubn.*
Fuscipes, Zell.
Subænescens, Walk.
 265 Auratella, *Clem.*
 266 Pulchella, *Walk.*
 267 Rufisignella, *Zell.*

Crambus, Fabr.

- 268 Girardellus, *Clem.*
 269 Sericinellus, *Zell.*
var. Inornatellus, Clem.
 270 Satrapellus, *Zinck.*
 271 Præfectellus, *Zinck.*
 272 Quinqueareatus, *Zell.*
 273 Occidentalis, *Gr.*
 274 Leachellus, *Zinck.*
Involutellus, Clem.
Pulchellus, Zell.
 275 Floridus, *Zell.*
 276 Labradoriensis, *Christoph.*
 277 Agitatellus, *Clem.*
var. Alboclavellus, Schl.
 278 Saltuellus, *Zell.*
 279 Bidens, *Zell.*
 280 Minimellus, *Rob.*
 281 Argillaceellus, *Pack.*
 282 Albellus, *Clem.*
 283 Bipunctellus, *Zell.*
 284 Laqueatellus, *Clem.*
 285 Topiarius, *Zell.*
 286 Plejadellus, *Zinck.*
Goodellianus, Gr.
 287 Decorellus, *Zinck.*
Polyactinellus, Koll.
 288 Teterellus, *Zinck.*
Camurellus, Clem.
Terrellus, Zell.
 289 Elegans, *Clem.*
Terminellus, Zell.
 290 Oregonicus, *Gr.*
 291 Trichostomus, *Christoph.*
 292 Interruptus, *Gr.*
 293 Dissectus, *Gr.*
 294 Unistriatellus, *Pack.*
Exesus, Gr.
 295 Exsiccatus, *Zell.*
 296 Undatus, *Gr.*
 297 Laciniellus, *Gr.*
 298 Anceps, *Gr.*
 299 Caliginosellus, *Clem.*

- 300 Duplicatus, *Gr.*
 301 Fuscicostellus, *Zell.*
(?) Mutabilis, Clem.
 302 Attenuatus, *Gr.*
 303 Hemiochrellus, *Zell.*
(?) Lutcollellus, Clem.
 304 Ruricollellus, *Zell.*
 305 Vulgivagellus, *Clem.*
Chalybirostris, Zell.

Propexus, Gr.

- 306 Edonis, *Gr.*
 307 Pexellus, *Kad.*
 308 Pectinifer, *Zell.*
 309 Repandus, *Gr.*

Eromene, Hubn.

- 310 Texana, *Rob.*
 311 Californicalis, *Pack.*

Prionopteryx, Steph.

- 312 Olivella, *Gr.*
 313 Achatina, *Koll.*
 314 Incertella, *Zinck.*

Diphryx, Gr.

- 315 Prolatella, *Gr.*

Diaractria, Guild.

- 316 Saccharalis, *Fabr.*
 317 Crambidoides, *Gr.*

Schoenobius, Dup.

- 318 Macrinellus, *Zell.*
 319 Sordidellus, *Zinck.*
 320 Longirostrellus, *Clem.*
 321 Melinellus, *Rob.*
 322 Clemensellus, *Rob.*
Aquilellus, Clem.
 323 Dispersellus, *Rob.*
 324 Unipunctellus, *Rob.*
 325 Tripunctellus, *Rob.*

Scirpophaga, Tr.

- 326 Vestaliella, *Zell.*

TORTRICIDÆ.†

TORTRICINÆ.

Teras, Tr.

- 1 Efractana, *Fröl*
 2 Peculiana, *Zell*.
 3 Subnivana, *Walk*.
 Deflectana, Robs.
 4 Trisignana, *Robs*.
 5 Scabrana, *Curt*.
 Placidana, Robs.
 6 Niveana, *Fab*.
 7 Nigrolinea, *Robs*.
 Senescens, Zell.
 8 Ferruginiguttana, *Fern*.
 9 Brewsteriana, *Robs*.
 10 Celiana, *Robs*.
 11 Hastiana, *Linn*.
 var. Divisana, *Hubn*.
 var. Flavivittana, *Clem*.
 var. Peispicuana, *Robs*.
 var. Maculidorsana, *Clem*.
 var. Inana, *Robs*.
 12 Pulverosana, *Walk*.
 13 Maccana, *Tr*.
 14 Logiana, *Schiff*.
 var. Viburnana, *Clem*.
 var. Famula, *Zell*.
 15 Permutana, *Duf*.
 16 Nivisellana, *Wlsm*.††
 17 Schalleriana, *Linn*.
 18 Ferrugana, *Schiff*.
 19 Simpliciana, *Wlsm*.
 20 Oxycoccana, *Pack*.
 21 Cinderella, *Riley*.
 22 Malivorana, *Le-B*.
 23 Vacciniivorana, *Pack*.
 24 Minuta, *Robs*.
 Variolana, *Zell*.
 25 Foliana, *Wlsm*.
 26 Fishian, *Fern*.
 27 Chalybeana, *Fern*.
 28 Cervinana, *Fern*.
 29 Americana, *Fern*.

Caccæcia, Hubn.

- 30 Rosaceana, *Harris*.
 Gossypiana, *Pack*.
 Arctica, *Moesch*.

- 31 Purpurana, *Clem*.
 ♀ *Gurgitana*, *Robs*.
 var. ♀ Lintneriana, *Gr*.
 32 Infumatana, *Zell*.
 33 Rosana, *Linn*.
 34 Cerasivorana, *Fitch*.
 35 Rileyana, *Grote*.
 Fervidana, || *Walk*.
 36 Parallela, *Robs*.
 37 Zapulata, *Robs*.
 38 Obsoletana, *Walk*.
 ♂ *Vesperana*, *Clem*.
 39 Transitorana, *Walk*.
 ♀ *Sanborniana*, *Robs*.
 40 Argyrospila, *Walk*.
 Furvana, *Robs*.
 V.-signatana, *Pack*.
 41 Semiferana, *Walk*.
 Flaccidana, *Robs*.
 42 Fervidana, *Clem*.
 Paludana, *Robs*.
 43 Georgiana, *Gr*.
 44 Fractivittana, *Clem*.
 ♀ *Fumosa*, *Robs*.
 45 Grisea, *Robs*.

Loxotænia, Steph.

- 46 Afflicta, *Walk*.
 Fuscolincana, *Robs*.
 47 Musculana, *Hubn*.
 48 Virescana, *Clem*.
 Sescuplana, *Zell*.
 49 Glaucana, *Wlsm*.
 50 Clemensiana, *Fern*.

Ptycholoma, Steph.

- 51 Persicana, *Fitch*.
 Blandana, *Clem*.
 Fragariana, *Pack*.
 Comigerana, *Zell*.
 52 Melaleucana, *Walk*.
 Semifuscana, *Clem*.
 53 Dissitana, *Grote*.

Pandemis, Hubn.

- 54 Limitata, *Robs*.
 55 Lamprosana, *Robs*.
 56 Albaniana, *Walk*.

† This list is taken from advance sheets of a Synonymical Catalogue of the Family by my kind friend Professor C. H. Fernald, and which is a most carefully written and valuable scientific work for which entomologists cannot be too grateful.

†† This abbreviation is used instead of the full name of Lord Walsingham, whose works on North American Microlepidoptera are of great value from their thoroughness and reliability. From a condition of obscurity, the subject of North American *Tortricidæ* has become comparatively clear from the labors of Lord Walsingham, Professor Zeller and Professor Fernald.

Lophoderus, Steph.

- 57 Ministrana, *Linn.*
 58 Quadrifasciana, *Fern.*
 59 Juglandana, *Fern.*
 60 Triferana, *Walk.*
Incertana, Clem.
 61 Politana, *Harw.*
 62 Velutinana, *Walk.*
Lutosana, Clem.
 63 Gloverana, *Wlsm.*
 64 Coloradana, *Fern.*
 65 Mariana, *Fern.*

Sciaphila, Tr.

- 66 Osseana, *Scop.*
 67 Niveosana, *Pack.*
 68 Argentana, *Clerck.*
 69 Basiplagana, *Wlsm.*
 70 Trigonana, *Wlsm.*
 71 Horariana, *Wlsm.*
 72 Mœschleriana, *Wocke.*
Algidana, Mœschl.
Gelidana, Mœschl.

Tortrix, Linn.

- 73 Alleniana, *Fern.*
 74 Pallorana, *Rob.*
 75 Lata, *Rob.*
 76 Houstonana, *Grote.*
Retana, Wlsm.
 77 Quercifoliana, *Fitch.*
Trifurculana, Zell.
 78 Albicomana, *Clem.*
 79 Bergmanniana, *Linn.*
 80 Peritana, *Clem.*
 81 Franciscana, *Wlsm.*
 82 Fucana, *Wlsm.*
 83 Semicirculana, *Fern.*
 84 Alisellana, *Rob.*
 85 Fumiferana, *Clem.*
Nigridia, Robs.
 86 Conflictana, *Walk.*

Amorbia, Clem.

- 87 Humerosana, *Clem.*
 88 Cuneana, *Wlsm.*
var. Adumbrana, *Wlsm.*

Synnoma, Wlsm.

- 89 Linosyrana, *Wlsm.*

Enectra, Guen.

- 90 Pilleriana, *Schiff.*
 91 Rudana, *Wlsm.*

- 92 Senecionana, *Wlsm.*
 93 Puritana, *Rob.*†
Unifasciana, Clem.
 94 Xanthoides, *Walk.*
Breviornatana, Clem.
 95 Irrorea, *Rob.*
 96 Inconditana, *Wlsm.*
 97 Violaceana, *Rob.*
 98 Flavibasana, *Fern.*

Cenopsis, Zell.

- 99 Quercana, *Fern.*
 100 Reticulatana, *Clem.*
var. Mecospila, Zell.
 101 Pettitana, *Rob.*
 102 Diluticostana, *Wlsm.*
 103 Groteana, *Fern.*
 104 Testulana, *Zell.*
 105 Cana, *Rob.*

Dichelia, Guen.

- 106 Pulcherrimana, *Wlsm.*
 107 Caryæ, *Rob.*
 108 Sulfureana, *Clem.*
Virginiana, Clem.
Galivorana, Clem.
Fulvroseana, Clem.
var. Belfragiana, Zell.
Gracilana, Wlsm.
 109 Demissana, *Wlsm.*
 110 Californiana, *Wlsm.*
 111 Tunicana, *Wlsm.*

Amphisa, Curt.

- 112 Discopunctana, *Clem.*

Capua, Steph.

- 113 Furcatana, *Walk.*
 114 Lentiginosana, *Wlsm.*

Platynota, Clem.

- 115 Flavedana, *Clem.*
Laterana, Robs.
 116 Rostrana, *Walk.*
 117 Tinctana, *Walk.*
 118 Labiosana, *Zell.*
 119 Exasperatana, *Zell.*
 120 Sentana, *Clem.*

CONCHYLINÆ.

Idiographis, Led.

- 121 Inopiana, *Harw.*
 122 Fulvuplicana, *Wlsm.*
 123 Ægrana, *Wlsm.*

† This is the only change I make from Professor Fernald's synonymy. When a name has been once rightly changed because preoccupied at the time in the genus, the new name should be respected afterwards, even when the generic position of the insect is altered. See Preface to Staudinger's catalogue.

Conchylis, Tr. emend.

- 124 Floccosana, *Walk.*
Confusana, Robs.
125 Vitellinana, *Zell.*
126 Saxicolana, *Wlsm.*
127 Sartana, *Hubn.*
Bimaculana, Robs.
128 Straminoides, *Grote.*
129 Scissana, *Walk.*
130 Smeathmanniana, *Fab.*
131 Kindermanniana, *Tr.*
132 Deutschiana, *Zett.*
Fuscostrigana, Clem.
Chalcana, Pack.
133 Rutilana, *Hubn.*
134 Dorsimaculana, *Robs.*
Angustana, || Clem.
135 Promptana, *Robs.*
136 Fernaldana, *Wlsm.*
137 Seriatana, *Zell.*
138 Intactana, *Wlsm.*
139 Angulatana, *Robs.*
140 Argentilimitana, *Robs.*
141 Parallellana, *Wlsm.*
142 Transversana, *Wlsm.*
143 Labeculana, *Robs.*
144 Lepidana, *Clem.*
145 Interruptofasciata, *Robs.*
146 Bunteana, *Robs.*
147 Enotherana, *Riley.*
148 Erigeronana, *Riley.*
149 Latipunctana, *Wlsm.*
150 Dilutana, *Wlsm.*
151 Nana, *Harw.*
152 Campicolana, *Wlsm.*
153 Parvimaculana, *Wlsm.*
154 Glaucofuscana, *Zell.*
155 Dubitana, *Hubn.*

GRAPHOLITHINÆ.

Retinia, Guen.

- 156 Frustrana, *Scudd.*
157 Rigidana, *Fern.*
158 Comstockiana, *Fern.*
159 Turionana, *Hubn.*
160 Duplana, *Hubn.*
161 Sylvestrana, *Curt.*
162 Pinivorana, *Zell.*
var. Scuirana, *Tengs.*
163 Subcervinana, *Wlsm.*

Eudemis, Hubn.

- 164 Botrana, *Schiff.*
Viteana, Clem.
Vitivorana, Pack.

Bactra, Steph.

- 165 Lanceolana, *Hubn.*
166 Furfurana, *Harw.*

Eccopsis, Zell.

- 167 Fagigemmxæana, *Ch.*
168 Nitidana, *Clem.*
169 Ferrugineana, *Riley.*
170 Monetiferana, *Riley.*
171 Sericorana, *Wlsm.*
172 Zelleriana, *Fern.*
Nitidantium, || Zell.
173 Permudana, *Clem.*
174 Olivaceana, *Fern.*
175 Concinnana, *Clem.*
176 Versicolorana, *Clem.*
177 Punctana, *Wlsm.*
178 Atrodentana, *Fern.*
179 Fasciatana, *Clem.*
180 Corylana, *Fern.*
181 Exoleta, *Zell.*
182 Inornatana, *Clem.*
Quadrifidum, Zell.
183 Malana, *Fern.*
184 Footiana, *Fern.**
185 Feriferana, *Walk.*
Gratiosana, Clem.
Usticana, Zell.

Penthina, Tr.

- 186 Intermistana, *Clem.*
Tessellana, Pack.
187 Septentrionana, *Curt.*
Fulvifrontana, Pack.
188 Frigidana, *Pack.*
189 Nimbatana, *Clem.*
190 Consanguinana, *Wlsm.*
191 Capreana, *Hubn.*
192 Dimidiana, *Schiff.*
193 Hartmanniana, *Linn.*
var. Albeolana, Zell.
194 Griseoalbana, *Wlsm.*
195 Conditana, *Wlsm.*
196 Hebesana, *Walk.*
Fulcrea, Riley.
197 Cyanana, *Murtfeldt.*
198 Interruptolineana, *Fern.*
199 Hemidesma, *Zell.*
200 Murina, *Pack.*
201 Osmundana, *Fern.*
202 Malachitana, *Zell.*
203 Roseomaculana, *H.-S.*
204 Costimaculana, *Fern.*
205 Chionosema, *Zell.*

* At my request Prof. Fernald kindly retained this name, given in manuscript to the species by Mr. Robinson for his friend Mr. Foot.

Sericoris, Tr.

- 206 Nubilana, *Clem.*
 207 Velulana, *Wlsm.*
 208 Auricapitana, *Wlsm.*
 209 Agilana, *Clem.*
 210 Albiciliana, *Fern.*
 211 Chalybeana, *Wlsm.*
 212 Coruscana, *Clem.*
 213 Argyroelana, *Zell.*
 214 Constellatana, *Zell.*
 215 Rivulana, *Scop.*
 216 Urticana, *Hubn.*
 217 Astrologana, *Zell.*
 218 Puncticostana, *Walk.*
 219 Instrutana, *Clem.*
 Poana, Zell.
 220 Turfosana, *H.-S.*
 221 Campestrana, *Zell.*
 222 Fuscalbana, *Zell.*
 223 Glaciana, *Moeschl.*
 224 Dealbana, *Walk.*
 225 Dilutifuscana, *Wlsm.*
 226 Bipartitana, *Clem.*
 Casiabana, Zell.
 227 Similiana, *Walk.*
 228 Inquietana, *Walk.*
 229 Niveiguttana, *Grote.*
 230 Schulziana, *Fab.*

Phacasiophora, Grote.

- 231 Confixana, *Walk.*
 Mutabilana, Clem.

Pedisea, Tr.

- 232 Circulana, *Hubn.*
 Scintillana, Clem.
 Dodecana, Zell.
 233 Quinquemaculana, *Robs.*
 234 Robinsonana, *Grote.*
 Quintana, Zell.
 235 Bolanderana, *Wlsm.*
 236 Agassizii, *Robs.*
 237 Ridingsana, *Robs.*
 var. Argentifurcatana, Gr.
 var. Hipeana, Gr.
 238 Fernaldana, *Grote.*
 239 Crambitana, *Wlsm.*
 240 Monogrammana, *Zell.*
 241 Larana, *Wlsm.*
 242 Luridana, *Wlsm.*
 243 Argentialbana, *Wlsm.*
 244 Albiguttana, *Zell.*
 245 Atomosana, *Wlsm.*
 246 Agricolana, *Wlsm.*
 247 Basipunctana, *Wlsm.*
 248 Subplicana, *Wlsm.*
 249 Primulana, *Wlsm.*
 250 Cataclystiana, *Walk.*
 251 Comatulana, *Zell.*
 252 Occipitana, *Zell.*

- 253 Numerosana, *Zell.*
 254 Giganteana, *Riley.*
 255 Perdricana, *Wlsm.*
 256 Glomerana, *Wlsm.*
 257 Fulminana, *Wlsm.*
 258 Irroratana, *Wlsm.*
 259 Bipunctella, *Walk.*
 260 Grandiflavana, *Wlsm.*
 261 Subflavana, *Wlsm.*
 262 Shastana, *Wlsm.*
 263 Biquadrana, *Wlsm.*
 264 Maculatana, *Wlsm.*
 265 Palpana, *Wlsm.*
 266 Radicana, *Wlsm.*
 267 Passerana, *Wlsm.*
 268 Canana, *Wlsm.*
 269 Culminana, *Wlsm.*
 270 Rectiplicana, *Wlsm.*
 271 Terracoctana, *Wlsm.*
 272 Juncitciliana, *Wlsm.*
 273 Pulveratana, *Wlsm.*
 274 Nigralbana, *Wlsm.*
 275 Abbreviatana, *Wlsm.*
 276 Constrictana, *Zell.*
 277 Abruptana, *Zell.*
 278 Solicitana, *Walk.*
 279 Transmissana, *Walk.*
 280 Strenuana, *Walk.*
 281 Hirsutana, *Wlsm.*
 282 Trigemmiana, *Zell.*
 283 Vertummana, *Zell.*
 284 Celtisana, *Riley.*
 285 Matutina, *Grote.*
 286 Illotana, *Wlsm.*
 287 Scudderiana, *Clem.*
 288 Desertana, *Zell.*
 289 Tripartitana, *Zell.*
 290 Otiosana, *Clem.*
 291 Similana, *Hubn.*
 292 Dorsisignatana, *Clem.*

Hystriophora, Wlsm.

- 293 Leonana, *Wlsm.*
 var. Aurantiana, Wlsm.

Semasia, Steph.

- 294 Radiatana, *Wlsm.*
 295 Olivaceana, *Riley.*
 296 Formosana, *Clem.*
 297 Corculana, *Zell.*
 298 Aspidiscana, *Hubn.*
 299 Ferruginana, *Fern.*
 300 Succedana, *Schiff.*
 301 Roesslereri, *Zell.*
 302 Vestaliana, *Zell.*
 303 Elongana, *Wlsm.*
 304 Tarandana, *Moeschl.*
 305 Artemisiana, *Wlsm.*
 306 Argenticostana, *Wlsm.*
 307 Spiculana, *Zell.*

- 308 Striatana, *Clem.*
 309 Tenuiana, *Wlsm.*
 310 Clavana, *Fern.*
 311 Pallidicostana, *Wlsm.*
 312 Griseocapitana, *Wlsm.*
 313 Taleana, *Grote.*
 314 Perangustana, *Wlsm.*
 315 Amphorana, *Wlsm.*
 316 Decempunctana, *Wlsm.*
 317 Helianthana, *Riley.*
 318 Columbiana, *Wlsm.*
 319 Scalana, *Wlsm.*
 320 Signatana, *Clem.*
 Variana, *Clem.*
 Subnisana, *Zell.*
 321 Argutana, *Clem.*
 Allutana, *Zell.*
 322 Lapidana, *Wlsm.*
 323 Sublapidana, *Wlsm.*
 324 Parvana, *Wlsm.*
 325 Stranmeana, *Wlsm.*
 326 Minimana, *Wlsm.*
 327 Infusana, *Wlsm.*
 328 Refusana, *Walk.*
 329 Perstruciana, *Walk.*

Exentera, *Grote.*

- 330 Apriliana, *Grote.*

Proteopteryx, *Wlsm.*

- 331 Emarginana, *Wlsm.*
 332 Oregonana, *Wlsm.*
 333 Cressoniana, *Clem.*
 334 Deludana, *Clem.*
 335 Spoliana, *Clem.*
 336 Resumptana, *Walk.*
 337 Costomaculana, *Clem.*

Proteoteras, *Riley.*

- 338 Aesculana, *Riley.*

Steganoptycha, *Steph.*

- 339 Incarnana, *Haw.*
 340 Fasciolana, *Clem.*
 Blakeana, *Robs.*
 341 Lagopana, *Wlsm.*
 342 Liturana, *Wlsm.*
 343 Purpuriciliana, *Wlsm.*
 344 Salicicolana, *Clem.*
 345 Saliciana, *Clem.*
 346 Crispana, *Clem.*
 347 Augustana, *Hüb.*
 348 Pinicolana, *Zell.*
 349 Biangulana, *Wlsm.*
 350 Nebulosana, *Pack.*

Tmetœera, *Led.*

- 351 Ocellana, *Schiff.*
 Oculana, *Harris.*
 Pyrifoliana, *Clem.*

Rhopobota, *Led.*

- 352 Vacciniana, *Pack.*

Phoxopterus, *Tr.*

- 353 Mediofasciana, *Clem.*
 354 Nubeculana, *Clem.*
 355 Subcequana, *Zell.*
 356 Discigerana, *Walk.*
 357 Semiovana, *Zell.*
 358 Murtfeldtiana, *Riley.*
 359 Lundana, *Fab.*
 360 Spireæfoliana, *Clem.*
 361 Laciniana, *Zell.*
 362 Burgessiana, *Zell.*
 363 Dubiana, *Clem.*
 364 Floridana, *Zell.*
 365 Amblygona, *Zell.*
 366 Comptana, *Frol.*
 367 Fragarice, *Walsh.*
 368 Angulifasciana, *Zell.*
 369 Platanana, *Clem.*
 Marcidana, *Zell.*
 370 Divisana, *Walk.*
 371 Apicana, *Walk.*
 372 Cornifoliana, *Riley.*
 373 Muricana, *Wlsm.*
 374 Uncana, *Hüb.*
 375 Biarcuana, *Steph.*
 376 Goodelliana, *Fern.*
 377 Plagosana, *Clem.*
 378 Pacificana, *Clem.*
 379 Cometana, *Wlsm.*
 380 Loricana, *Grote.*
 381 Tineana, *Hüb.*
 Ocellana, *Clem.*
 Leucophaleratana, *Pack.*

Grapholitha, *Tr.*

- 382 Caryana, *Fitch.*
 Carye, *Shimer.*
 383 Prunivora, *Walsh.*
 384 Interstinctana, *Clem.*
 Distema, *Gr.*
 385 Bracteatana, *Fern.*
 386 Conversana, *Wlsm.*
 387 Albimaculana, *Fern.*
 388 Lunatana, *Wlsm.*
 389 Tristrigana, *Clem.*
 390 Americana, *Wlsm.*
 391 Carulana, *Wlsm.*
 392 Vitrana, *Wlsm.*
 393 Tautana, *Clem.*
 Perfluana, *Zell.*
 394 Galke-saliciana, *Riley.*
 395 Trossulana, *Wlsm.*

Ecdytolopha, Zell.396 *Insiticiana*, Zell.**Carpocapsa**, Tr.397 *Pomonella*, Linn.398 *Saltitans*, Westw.399 *Toreuta*, Grote.**Mellisopus**, Riley.400 *Latiferreana*, Wlsm.**Phthoroblastis**, Led.401 *Texanana*, Wlsm.**Dichrorampha**, Guen.402 *Incanana*, Clem.403 *Simulana*, Clem.*Aurisignana*, Zell.404 *Alpinana*, Treits.405 *Plumbana*, Scop.406 *Radicicolana*, Wlsm.

NOTES, ERRORS AND OMISSIONS.

Page 4, line 2, for "order" read "sub-order."

Page 7, line 15, for "pulpi" read "palpi."

Page 7, last paragraph, for "I do not wish to" read "I cannot."

Page 9, add "Metathetis, *Butl.*," to the genus *Hemaris*.

Page 10, the species "Proene" is probably East Indian; the type has been unfortunately abstracted from the collection of the Academy of Natural Sciences of Philadelphia.

Page 13, last line, for "Meuet," read "Ménét."

Page 13, between Nos. 27 and 28 insert "§ *Echeta*."

Page 14, between Nos. 35 and 36 insert "§ *Philoros*."

Page 14, between Nos. 36 and 37 insert "§."

Page 15, after No. 70, *Nevadensis*, insert *Behrii*, Str., as a synonym. Also No. 68 is probably the same as No. 75.

Page 16, Nos. 91 and 92 may be forms of *Leptarectia*; Nos. 94 and 95 may not be different; if the same, then 94 is a synonym of 95, but the two genera are different; I have examined both Echo and Bivittata; 123, 125 and 128 may be the same species.

Page 17, No. 178 hardly belongs to the generic group to which I have referred it; I should now rather regard it as belonging to *Tortricidia*; the singular shading on primaries vaguely takes the shade of the "Dog's Head" on the fore wings of the butterfly of that name. American species of several genera of the COCHLIDÆ are not known to me in nature, as *Isa*, *Heterogenea*, *Nochelia* and *Kronæa*, and some of these may not be different.

Page 18, for "*Dryocampa*" read "*Dryocampa*" in the synonymy of No. 227. On the same page the printer has repeated ten numbers by mistake.

Page 18. *Moeschler* not *Butler* is, I believe, the right authority for *Eulimacodes*, but I have not been able to see the paper in which the name is proposed.

Page 21. I have substituted *Prionoxystus* for *Xystus*, Grote, preoccupied. Dr. Bailey's *Angrezi* may belong here when the ♂ is known.

Page 21. On the authority of Mr. Henry Edwards I keep No. 359, Pulcher, *Gr.*, from Colorado, as distinct from No. 358, *Hyperboreus*, *Moeschl.*, from Labrador.

Page 22. The divisions in the *Noctuidæ* are mostly based on general resemblance and comparative characters. They have no absolute scientific value, except in the case of the "BOMBYCÆ" and "NOCTUO-PHALENIDÆ" of Hubner and Boisduval. I have kept (in the Bombyces, etc.) the older collective terms which I found, but I agree with Lord Walsingham's remarks in his instructive article on page 77 of PAPHIO, vol. 2, to which I refer the student for the rules governing the termination of family and sub-family names.

Page 22. Whether we have any other species of the genus *Habrosyne*, except "Gosse's Arches," is doubtful. Mr. Henry Edwards thinks that the European species occur on the west coast. Mr. Butler was kind enough to point out to me the curious difference in the number of undulations in the transverse lines on the primaries, which divides the Japanese species from the European. The genus is an example of the kind I have called *Progenera*, in a paper published by the Geological Survey at Washington; although here slight modifications are concomitant with geographical disassociation.

Page 22. The genus *Momaphana* differs from *Feralia* by the presence of ocelli, the smoother and thinner vestiture, the more prominent head and larger compound eyes. From *Diphthera Fallax* by the pectinate antennæ and wider clypeus. The delicate green species, easily faded, may be known by the pale secondaries being also tinted with green, tender and somewhat transparent. Early in the spring the moth has been found by Professor Kellicott about Buffalo. The genus *Charadra* of Mr. Walker is different from *Trichosea*, the type of which is the European *Ludifica*. The structural differences between these three green Noctuidæ are very strong, though, in addition to the color, the ornamentation of *Comstocki* and *Fallax* is very similar on the primaries above. *Jocosa* differs in design, and varies by becoming suffused with black over the upper surface of the front wings. *Fallax* is found further south than either of the other two species. The Californian *Arthrochlora Februialis*, I refer to the *Hadenina*. *Diphthera Fallax* will, I think, be found to resemble Guenée's *Innotata* in the larval stages; the moths have much in common; I unfortunately redescribed the species in one of my earlier papers, published about twenty years ago, as a *Diphthera*. *Innotata* belongs to a distinct section of *Apatela*.

Page 22. The species "50½ Connecta, Gr., must be added to *Apatela*.

Page 23. The characters given by Dr. Speyer between *Funeralis* and *Alni* I have verified. The singular larvæ are apparently much more alike than the moths which they produce. The divisions of *Apatela* are probably of generic value.

Page 25, sixth line from the bottom, for "distinct" read "distinct."

Page 26. The following species of *Agrotis* have not been examined by me: *Præfixa*, *Digna*, *Acclivis*, *Tristicula*, *Hortulana*, *Olveia*, *Drewnseni*, *Westermanni*, *Staudingeri*, *Manifesta*, *Oblata*, *Infracta*, *Fauna*, *Hero*, *Umbrata*, *Okakensis*, *Elimata*, *Spissa* and *Messoria* as distinct from *Repentis*. It is possible that *Specialis* is a red form of *Wilsonii* and *Parentalis* of *Decipiens*. Also *Chortalis* and *Anatrix* may be forms of one species.

Page 28. "*Oncocnemis Gracillima*" is given by printer's mistake as "*Gracillinea*" in Can. Ent. XIII., 231. Several of my papers published in that journal at about the same time, and during my absence, were not revised by me. In this way "*Hadena Perpensæ*" was printed "*Perpenoa*."

Page 29. The genus *Conservula* differs from its allies *Brotolomia* and *Trigonophora* by the even, entire margin of the primary wings. It is nearer to the latter, agreeing with it in the principal characters, but differing, besides the form of the fore wings, in the body tuftings and the shorter, more pointed males' genitalia. If we follow Lederer in the disintegration of *Phlogophora*, this genus is necessary, its characters being in fact stronger than those separating its allies.

Page 30, first line, for "Gr." read "Hubn."

Page 31, No. 676, for "Hubn" read "Hufn."

Page 33. A number of specimens sent to me as typical of *Cinerea* by Prof. Riley, were all *Antennata*. Prof. Comstock has reared it from larvæ destructive to green apples in Niagara County. No *Cinerea* or *Laticinerea* occurred among his specimens. The larva eats large holes in the immature fruit, according to Prof. Comstock's account; it transforms in a cell in the ground, in July, one to three inches below the surface. The moth discloses in September and hibernates. No *Cinerea* were noticed by me in Prof. Riley's collection, and I cannot accept his views on these forms. The relationship between *Cinerea* and *Laticinerea* may be closer, but I regard *Antennata* as a valid species. I suppose I was the first to define *Cinerea* and *Laticinerea* in naming them.

Page 34, No. 836, for "Tigrina" read "Tigris." The genus may be used for this species alone, the European *Virgo* not being generically separable from *Telesilla* according to other Authorities.

Page 34. The genera *Anarta* and *Lepipolys* should be transferred to p. 36, after *Meliclectria*.

Page 36. Add No. "966½ Spinosæ, Guen."

Page 37. The genus *Euedwardsia* is characterized by a frontal projection below an irregular, exserted, cup-like excavation. The vestiture is hairy; the tibiæ unarmed. The wings short and broad, with the apices of primaries produced. The eyes are naked. The genus, which I separate from *Xanthothrix*, has affinities with *Chariclea*.

Page 37. To No. 1034 add: "var. *Virginalis*, Gr."

Page 38. The species *Monetifera* of Guenée I take as the type of the genus *Herrichia*, which has been confounded with the European *Eriopus*. Form slender; abdomen not exceeding the secondaries, tufted on the dorsal line at base, and especially on third segment. Eyes naked, unlashd. Ocelli. Tibiæ unarmed. Vestiture consisting of flattened scales mixed with hair. Wings broad, entire; fore wings with the apices a little pointed; outer margin sinuate subapically, full at submedian nervules; 12-veined; a distinct accessory cell; 9 out of 8 to apices, about half the length of 8; cell open; 3 twice further from 4 than 4 from 5 at base. Hind wings 8-veined; cell open; 3 and 4 together from extremity of submedian vein; 5 a little weaker, removed at base for about one-fifth the breadth of cell; indistinctly connected with the submedian series. The neurulation warrants Dr. Herrich-Schaeffer's inference of the distinctness of the genus, and I think places it near *Thalpocharis* and *Eustrotia*. The species have bright brown primaries, ornamented often with splashes or lines of silver. The hind wings and abdomen are light gray, contrasting with the richly colored thorax and primaries.

I refer the student to my Illustrated Essay, Van Voorst, London, 1882, for a recapitulation of the characters of generic value in the *Noctuidæ*; in my "Check List," 1876, and in different papers these are also given. Secondary sexual characteristics are, as a rule, of generic value throughout the Suborder. Those who will compare the Genera as established by Guenée, Walker and in Stainton's Manual, with the descriptions I have published, will see that I have used more characters, following all that has been published in Germany on the subject. My diagnoses have been copied without acknowledgement by a recent writer, who, in the "Can. Entomologist," has likewise used my generalizations in the same way, mixing them with some erroneous statements of his own.

Page 33. *Brephos*, Hubn. This term originates with Hubner, and is older than *Archicrisis*, Hubn., which Zeller proposed to restore. The species described by Boisduval from California probably do not belong to this genus and I have not included them. From the figure of *Amphidasys Miltendorfi*, Lep. Sib., Tab. V., fig. 9, I would refer the species to *Leucobrephos*. I have not been able to re-examine *Brephoides* since my original notice of the species.

Page 39. *Catocala*, Schrank. In my original paper (1872) on the species of this genus I identified and re-described the two kinds established by Guenée under the names of *Vidua*, A. & S. (changed by Guenée to *Vidua*, because there was an earlier *Vidua* in the family) and *Desperata*. From a study of Abbot's figures, I showed that the *Vidua* of this author was not that of Guenée, but probably Guenée's *Desperata*. On the strength of these observations Mr. Hulst proposed to restore Abbot's name for *Desperata*, and this without any additional knowledge of the species figured by Abbot. In fact, there is no evidence throughout Mr. Hulst's paper that any original sources had been consulted by him; the whole argument is carried on from traditional or unwritten opinions current among the Brooklyn Entomologists, or dictated by a Pennsylvanian collector whose prejudices replace proper judgment and knowledge. My own study of the species, published ten years since, is also freely used without acknowledgement, while an appearance of originality is shed over the whole, by inverting the usual sequence of the species and giving some irrelevant remarks by way of preface before attacking, most unwarrantably, my work in the genus. In the present case I adhere to my original decision with regard to the names of the two forms. Mr. Hulst's proposal would make confusion; Guenée's original objection to *Vidua* remains, while, until Southern material has been thoroughly studied, Abbot's species must be a subject of more or less uncertainty.

Page 40, No. 1186, for "Semirelecta" read "Semirelecta." *id.* The European *Nupta* is given as American by some authors, but I have not yet recognized the species. If so, it is the only form common to both continents. *id.* For "Guen." read "A. & S." as authority to No. 1217. *id.* Insert No. 1217½ *Antitympha*, Hubn. *id.* Add "*var.* *Hinda*, *Brench*," to *Innabens*. *id.* The description of *Dijecta* is so vague that I have not included the name. *Utalume*, equally poorly described. I have included, on the strength of two typical specimens in my collection purchased as such from Mr. Peck, and which appear to me distinct. There is additional uncertainty cast over these two names by the remarks in the "Brooklyn Bulletin" which go to show that the original determination of "*Utalume*" has been changed, so that I am not certain which name is the correct one for my material. I think that there is nothing gained by adopting any names proposed by the author of these two, who has antedated his publications and has made an excessive number of redescriptions, under new names, of previously published species. With the above corrections, I think that this list of our species of *Catocala* is more accurate than any yet published, and that the value assigned to the different names as designating varieties or species will prove in most cases the true one.

Page 42, for "*Spargoloma*" read "*Spargaloma*."

Page 45, add No. "44½ *Textinaria*, G. & R."

Page 45, add: "*Caulostoma*, Led. 62½ *Occiduaria*, Pack."

Page 47. *Byssodes Obrussata*, Grote, Can., Ent., June, 1832, p. III, is the correct reference for this species, also described in the June number of PAPILO, under the name "*Cerussaria*," which is a printer's error for "*Obrussaria*" of my *Mss.* No proofs of any of my papers in that number of "PAPILIO" were furnished me, which accounts for this mistake, besides one or two others of lesser importance.

Page 48. The diagnosis of *Caterva* is given by Dr. Packard on page 216 of his "Monograph" under the name "*Zerene*, Tr." The type of Treitschke's genus is a European moth not congeneric with *Catenaria*.

Page 50, No. 305 for "Autumnata" read "Autumnata."

Page 50, No. 346, for "Ferruata," read "Ferrugata."

Names on this list not numbered (*i. e.* in *Hyphantria*) are considered to be of doubtful value. I have omitted from this list the names of a few unidentified species of M. Guenée's; chiefly, in the *Noctuide*, of those species described from Abbot's figures, which latter are sufficiently coarse as to make the identification difficult without the plates at hand. Many of Mr. Walker's are not included, as they must be doubtful until his types are worked over. The species in Dr. Harris's correspondence are not included, as the data are not sufficient to identify them at present. I have tried to include all else, and while I have undoubtedly missed some names, I have purposely left out a very few of different authors, from their being described under genera not adopted here, or because no comparison with known forms accompanied the published account of them. Some synonyms have also been omitted, but this mostly in the case of well-known species, and for the purpose of diminishing the bulk of the list. In the *Geometridæ* and *Tortricidæ*, I have given mainly the synonyms occurring in American publications as of most importance to the student.

The full synonymy, as far as ascertained, of the species enumerated will be found in other works, accessible to the special student of the literature of the subject. My aim has been to produce a good working "Check List," and not a full "Synonymical Catalogue." But I have endeavored chiefly to present a reliable Nomenclature; to give the right generic and specific names as far as possible and in every case. The condition of my health prevented my working as continuously as I wished upon the manuscript; a work of this kind demands steady and patient labor.

With regard to the "Brooklyn Check List," it is for the most part a verbal copy of my earlier lists of the moths, while the species described since are very often neglected. It does not give me credit, while taking my various catalogues as its guide, in the *Zygenidae* and *Bombycidae* no less than in the *Noctuidae*; in one instance a printer's error is copied, and it can be easily shown not to have been compiled from the original descriptions of the species. The mistakes are excessive, and where whole genera, numerous in species, are taken from my publications, *i. e.*, *Agrotis*, *Hadena*, *Mamestra*, etc., the printers seem to have set up from my printed papers. The statement of its authors, that they have attempted any sorting of Hubner's genera, can be shown to be a false one, quite independent of the fact that they have, too evidently, neither the knowledge of the subject or its literature to undertake such a task. After appropriating my work in this manner, they ask the Entomological public to consider their List as the foundation for future Lists! This is impossible, because the foundation of future Lists is the source which the Brooklyn Check List drew upon so generously, *viz.*, my former Lists and Catalogues. I hope the Entomological public in England and elsewhere will not be misled by the "preface" of the "Brooklyn Check List," but will judge it by the facts. While our nomenclature is yet forming, such work is most mischievous, owing to the obligations of the law of priority. Were our species all properly described and named, such publications as those of the Brooklyn Committee would be passed over in merited silence. It is hardly necessary to repeat that, since 1875, I have published separate Lists of the principal genera of *Noctuidae*, restoring the name of the describer of the species. This the Brooklyn committee claim the credit of doing.

The principal Catalogues and Lists of N. Am. Lepidoptera are as follows. The Butterflies have been catalogued by Mr. W. H. Edwards and Mr. Scudder. The Catalogue of the latter, published in the Bulletin of the Buffalo Society of Natural Sciences, is yet unfinished. Beyond these two important Lists, which only concern the Butterflies, the others are here given:

1. Smithsonian Catalogue of North Am. Lepidoptera, by J. G. Morris, Washington, 1860.
2. Synonymical Catalogue of North American Sphingidae, by A. R. Grote and C. T. Robinson, Phila., 1865.
3. List of the Lepidoptera of North America, by A. R. Grote and C. T. Robinson, I., 1868. (Sphingidae to Bombycidae.)
4. List of the Sphingidae, Aegeriidae, Zygaenidae and Bombycidae of Cuba, by A. R. Grote, Phila., 1869.
5. List of North American Tortricidae, Part I., by C. T. Robinson, New York, 1869.
6. Catalogue of the Sphingidae of North America, by A. R. Grote, Buffalo, 1873.
7. Catalogue of the Zygaenidae of North America, by A. R. Grote, Buffalo, 1873.
8. List of the Noctuidae of North America, by A. R. Grote, Buffalo, 1874.

From the 2d Vol. of the Bulletin of the Society of Natural Sciences, which also contains two papers with additions to the List.

9. List of the North American Platypterices, Attaci, Hemileucini, Ceratocampidae, Lachneides, Teredines and Hepiali, with Notes by A. R. Grote, Am. Philosophical Society, Phila., 1874.
10. Check List of North American Noctuidae, by A. R. Grote, Buffalo, 1875 to 1876.
11. Check List of North American Sphingides, by A. R. Grote, Buffalo, 1875.
12. New Check List of North American Sphingidae, by A. R. Grote, Buffalo, 1877.
13. A Synonymical Catalogue of the described Tortricidae of North America, North of Mexico, by C. H. Fernald, A. M., Phila., 1882.

P. S.—The present List was commenced to be printed in May, but owing to delays, arising in part from the nature of the work and the number of proofs, it was not finished by the printer until August, 1882.

In the present list the following generic names are used for the first time: *Exedrium*, *Prionoxystus*, (*Xystus*; n. b. l.), *Andresasia*, *Herrichia*, *Fyla* and *Paradis* (for *Edis*, a name too near *Edia*). The name "Packardaria" is used for *Racheospila Rubrifrontaria* of Dr. Packard, the specific name being used in a very closely allied genus and thus liable to cause confusion. The variety *Callida* is proposed to designate the reddish form of *Pseudargyria*; Guenée's *Ebriosa* and *Obusta* seem much redder and different; it is not certain that they are Heliophilae.

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8. THE NORTH AMERICAN ENTOMOLOGIST. One vol., 8vo., pp. 104. July, 1879, to June, 1880. Edited by A. R. Grote; published by Reinecke & Zesch. Contains articles by Prof. Fernald, Dr. Le Conte, Prof. Comstock, Dr. Hagen, Miss Emily A. Smith, Prof. Kellicott and Dr. Bailey.

9. NEW CHECK LIST OF NORTH AMERICAN MOTHS. Uniform with "Papilio." New York, May, 1882. To be had of Mr. Henry Edwards, Secretary of the New York Entomological Club. Price \$1.00. Contains the Sphingidæ, Ægeriadæ, Thyridæ, Zyganidæ, Bombycidæ, Noctuidæ, Geometridæ, Pyralidæ and Tortricidæ of North America.

10. ENTOMOLOGICAL PAPERS PUBLISHED BY THE DEPARTMENT OF THE INTERIOR, IN THE BULLETIN OF THE GEOLOGICAL SURVEY, WASHINGTON. *a*, Appendix to Uhler's Report of Insects collected in Colorado, 1877; *b*, Notes on a Collection of Noctuid Moths made in Colorado in 1875, by Dr. A. S. Packard, Jr., 1877; *c*, Descriptions of Noctuidæ chiefly from California, 1878; *d*, Preliminary Studies of North American Pyralidæ, 1878; *e*, On Lithophane and new Noctuidæ, 1879; *f*, Preliminary List of the North American species of Agrotis, with Descriptions, 1881; *g*, North American Moths, with a preliminary catalogue of species of Hadenæ and Polia, 1881; *h*, New Moths, with partial catalogue of Noctuæ, 1882; *i*, New Moths, principally collected by Mr. Roland Thaxter in Maine, with notes on Noxious species and Remarks on Classification, 1882.

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