

Vol. II

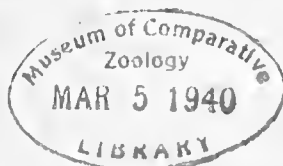
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MEMOIRS

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Check List of the Lepidoptera of Canada
and the United States of America

PART II

MICROLEPIDOPTERA

by J. McDUNNOUGH, Ph.D.

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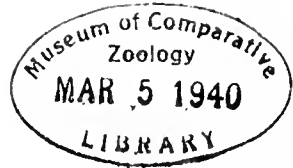


By
J. McDUNNOUGH, Ph.D.

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INTRODUCTION

IN this second and final portion of the "List", dealing with the so-called "Microlepidoptera" practically no attempt has been made, as was done in Part I, to study the genitalia of the genotypes and base the arrangement of the species in the genera and the genera in the families or subfamilies on similarities found in these organs. The impossibility of securing sufficient material for such a study and furthermore the lack of knowledge on the part of the writer of many of the groups, rendered such a course inadvisable. In the main, therefore, the latest revisions of the various groups have been pretty closely followed and in cases where no revision has been made since the publication of the 1917 Check List the arrangement of genera and species remains much the same as in this list, although it is fully recognized that in certain families, notably in the Pyralidoidea, there is considerable need for revision.

Every effort has been made, by a comprehensive study of the literature, to bring the sequence of families in accord with the latest views on the subject and to include all species published to the end of 1938; just how far this effort has been successful remains for the specialists to decide.

A list of corrections to Part I is inserted and it is hoped that any further errors discovered from time to time will be brought to the author's attention. The general arrangement of the present Part follows that of the previous one.

Superfamily **ZYGAENOIDEA**

LIMACODIDAE

Sibine H. S.

- 5230 *stimulea* Clem.
ephippiatus Harr.

Parasa Moore

- 5231 *indetermina* Bdv.
vernata Pack.
- 5232 *chloris* H. S.
viridis Reak.
fraterna Grt.
a huachuca Dyar

Euclea Hbn.

- 5233 *nanina* Dyar
†nana Dyar
- 5234 *delphinii* Bdv.
strigata Bdv.
quercicola H. S.
tardigrada Clem.
ferruginea Pack.
argentatus Weth.
form querceti H. S.
bifida Pack.
form interjecta Dyar
form viridiclava Wlk.
monitor Pack.
form ellioti Pears.
form paenulata Clem.
excisa Wlk.

- 5235 *incisa* Harv.
mira Dyar

- 5236 *flava* B. & McD.

- 5237 *dolliana* Dyar
a spadicis Grossb.

Monoleuca G. & R.

- 5238 *subdentosa* Dyar
- 5239 *angustilinea* Dyar
- 5240 *semifascia* Wlk.
a sulfurea Grt.

- 5241 *obliqua* Hy. Edw.

- 5242 *erectifascia* Dyar

- 5243 *occidentalis* B. & McD.

- 5244 *fieldi* B. & B.

- 5245 *disconcolorata* B. & B.

Adoneta Clem.

- 5246 *spinuloides* H. S.
voluta Clem.
ferrigera Wlk.
ruptilinea Wlk.
nebulosus Weth.
form leucosigma Pack.

- 5247 *bicaudata* Dyar

- 5248 *pygmaea* G. & R.

- 5249 *gemina* Dyar

Sisyrosea Grt.

- 5250 *textula* H. S.
inornata G. & R.
- 5251 *schaefferana* Dyar

Natada Wlk.

- 5252 *nasoni* Grt.
daona Druce
rude Hy. Edw.
- 5253 *nigripuncta* B. & McD.

Phobetron Hbn.

- 5254 *pithecium* A. & S.
abbotana Hbn.
nigricans Pack.
hyalinus Walsh
tetradactylus Walsh
nondescriptus Weth.
- 5255 *dyari* B. & B.

Isochaetes Dyar

- 5256 *beutenmuelleri* Hy. Edw.

Cryptophobetron Dyar5257 *oropeso Barnes***Alarodia Moesch.**5258 *slossoniae Pack.***Cnidocampa Dyar**5259 *flavescens Wlk.***Prolimacodes Schaus**5260 *badia Hbn.*
scapha Harr.
undifera Wlk.
*a argentimacula B. & McD.*5261 *trigona Hy. Edw.*
telligii Barnes
*filifera Dyar***Limacodes Latr.**5262 *biguttata Pack.*
*tetraspilaris Wlk.*5263 *rectilinea G. & R.*
*a latomia Harv.*5264 *y-inversa Pack.*
*a parallela Hy. Edw.*5265 *maxima Dyar***Lithacodes Pack.**5266 *fasciola H. S.*
laticlavia Clem.
divergens Wlk.
*a belfragei Dyar*5267 *gracea Dyar*5268 *fiskeana Dyar*5269 *graefi Pack.***Packardia G. & R.**5270 *elegans Pack.*
nigripunctata Goodell
*a fusca Pack.*5271 *ceanothi Dyar*5272 *geminata Pack.*5273 *albipunctata Pack.*
goodelli Grt.
*a ocellata Grt.***Heterogenea Knoch**5274 *shurtleffi Pack.***Kronaea Reak.**5275 *minuta Reak.***Slossonella Dyar**5276 *tenebrosa Dyar***Tortricidia Pack.**5277 *flexuosa Grt.*
*form caesonina Grt.*5278 *pallida H. S.*
*a flavula H. S.*5279 *testacea Pack.*
*a crypta Dyar***Epiperola Dyar**5279, 1 *perornata Dyar***MEGALOPYGIDAE****Norape Wlk.**5280 *ovina Sepp*
*cretata Grt.*5281 *virgo Butl.*5282 *tener Druce.*
*achriogelos Dyar***Megalopyge Hbn.**5283 *opercularis A. & S.*
lanuginosa Clem.
*subcitrina Wlk.*5284 *bissesa Dyar*5285 *lapena Schaus*
a heteropuncta B. & McD.

Lagoa Harris5286 *crispata* Pack.
ab. grisea B. & McD.5287 *laceyi* B. & McD.5288 *pyxidifera* A. & S.5289 *immaculata* Cass.**Trosia** Hbn.5290 *obsolescens* Dyar**DALCERIDAE****Dalcerides** N. & D.5291 *ingenita* Hy. Edw.**EPIPYROPIDAE****Epipyrops** Westw.5292 *barberiana* Dyar**Oedonia** Kirby5292,1 *exigua* Hy. Edw.**ZYGAENIDAE****Malthaca** Clem.5293 *dimidiata* H. S.
perlucidula Clem.5294 *centralis* Wlk.
notha Hy. Edw.5295 *rata* Hy. Edw.5296 *fusca* Hy. Edw.
landia Druce5297 *marteni* Frch.
barnea Druce*sanborni* Pack.
ruficollis Druce5303 *novarius* B. & McD.5304 *rectarius* Dyar**Seryda** Wlk.5305 *constans* Hy. Edw.
form sancta N. & D.5306 *basirei* Druce**Harrisina** Pack.5307 *americana* Guer.
a texana Stretch
b australis Stretch5308 *metallica* Stretch5309 *coracina* Clem.
nigrina Graef5310 *brillians* B. & McD.5311 *lustrans* Beut.5312 *cyanea* B. & McD.5313 *aversus* Hy. Edw.**Tetraclonia** Jordan5298 *latercula* Hy. Edw.5299 *dyari* Jord.
‡laterculae Dyar**Triplocris** Grt.5300 *smithsonianus* Clem.5301 *yampai* Barnes**Acoloithus** Clem.5302 *falsarius* Clem.

Superfamily **PYRALIDOIDEA**

THYRIDIDAE

Thyris Lasp.

- 5314 *maculata* Harris
perspicua Wlk.
 5315 *lugubris* Bdv.
sepulchralis Bdv.
margaritana Clem.
nevadae Oberth.

Dysodia Clem.

- 5316 *vitrina* Bdv.
 5317 *oculatana* Clem.
plena Wlk.
fasciata G. & R.
montana Hy. Edw.
aurea Pag.
 5318 *granulata* Neum.
a igualensis Dyar

- 5319 *speculifera* Sepp
aequalis Wlk.
 5320 *flagrata* Wlk.
floridana Hlst.

Hexeris Grt.

- 5321 *enhydris* Grt.
reticulina Beut.

Belnoptera H. S.

- 5322 *fratercula* Pag.

Meskea Grt.

- 5323 *dyspteraria* Grt.

Thyridopyralis Dyar

- 5324 *gallaerandialis* Dyar

PYRALIDAE

GLAPHYRIINAE

Glaphyria Hbn.

- 5325 *glaphyralis* Gn.
stipatalis Wlk.
albolineata G. & R.
 5326 *sesquistrictialis* Hbn.
dimotalis Wlk.
 5327 *invisalis* Gn.
lentiflualis Zell.
 5328 *psychialis* Hlst.
 5329 *reluctalis* Hlst.
form remellalis Druce
 5330 *fulminalis* Led.
 5331 *peremptalis* Grt.
 5332 *basiflavalis* B. & McD.
 5333 *dualis* B. & McD.
 5334 *periculosalis* Dyar

Scybalista Led.

- 5335 *restionalis* Led.

Egesta Rag.

- Symphysa* Hamp.
 5336 *reniculalis* Zell.
 5337 *simplicialis* Kft.
 5338 *eripalis* Grt.
a salutalis Hlst.
ochralis Haim.
 5339 *minutalis* Walt.

Lipocosma Led.

- 5340 *sicalis* Wlk.
perfusalis Wlk.
 5341 *diabata* Dyar
 5342 *fuliginosalis* Fern.
 5343 *intermedialis* B. & McD.

5344 *adelalis* Kft.

5345 *albibasalis* B. & McD.

Chalcoela Zell.

5346 *iphitalis* Wlk.
aurifera Zell.

Dicymolomia Zell.

5347 *julianalis* Wlk.
decora Zell.

5348 *opuntialis* Dyar

5349 *metalliferalis* Pack.
sauberi Hed.

5350 *pegasalis* Wlk.
principalis Wlk.
egressalis Wlk.
robinsoni Grt.

PYRAUSTINAE

Sufetula Wlk.

5351 *diminutalis* Wlk.
dematricalis Druce

5352 *philogelos* Dyar

Hymenia Hbn.

5353 *perspectalis* Hbn.

5354 *fascialis* Cram.
recurvalis Fabr.

Desmia West.

5355 *funeralis* Hbn.
maculalis West.
♀ *subdivisalis* Grt.
nominabilis Her.

5356 *tages* Cram.
propinqualis Moesch.

Synclera Led.

5357 *traducalis* Zell.
jarbusalis Wlk.
cottalis Wlk.

Ercta Wlk.

5358 *ornatalis* Dup.

5359 *desmialis* B. & McD.
kaeberalis Haim.

Marasmia Led.

5360 *cochrusalis* Wlk.
azionalis Wlk.
ruptalis Wlk.

5361 *trapezalis* Gn.
creonalis Wlk.
bifurcalis Snell.

5362 *floridalis* Fern.

Anania Hbn.

5363 *florella* Cram.

Eurrhyarodes Snell.

5364 *lygdamis* Druce

Samea Gn.

5365 *ecclesialis* Gn.
castellalis Gn.
lucusalis Wlk.
disertalis Wlk.

5366 *multiplicalis* Gn.
discessalis Wlk.
nicaeusalis Wlk.

Diastictis Hbn.

5367 *argyralis* Hbn.
form ventralis G. & R.

5368 *fracturalis* Zell.

5369 *caecalis* Warr.

5370 *talis* Grt.
florepecta Dyar

Pilocrocis Led.

5371 *ramentalis* Led.
perfuscalis Hlst.

5372 *tripunctata* Fabr.
 campalis Gn.
 cubanalisis Gn.
 memmialis Wlk.

5373 *plumbicostalis* Grt.

5374 *inguinalis* Gn.
 thoasalis Wlk.
 anticostalis Grt.
 levalis Hlst.

5375 *tristigmalis* Hamp.

Conchylodes Gn.

5376 *diphtheralis* Gey.
5377 *salamisalis* Druce
5378 *ovulalis* Gn.
 concinna Hamp.

Dichogama Led.

5379 *redtenbacheri* Led.
5380 *amabilis* Moesch.
5381 *bergi* Moesch.

Lamprosema Hbn.

5382 *lunulalis* Hbn.
5383 *victoriae* Dyar
5384 *subbasalis* Dyar

Hedylepta Led.

5385 *indicata* Fabr.
 vulgalis Gn.
 connexalis Wlk.
5386 *futilalis* B. & McD.

Blepharomastix Led.

5387 *ebulealis* Gn.
5388 *apicalis* Gn.
 xeniolalis Hlst.
5389 *rehamalis* Dyar
5390 *acutangulalis* Snell.
 santatalis B. & McD.

5391 *magualis* Gn.
 medealis Wlk.
 belusalis Wlk.
 curtalis Wlk.

5392 *ranalis* Gn.
 archasialis Wlk.
 ofellusalis Wlk.
 olliusalis Wlk.
 strictalis Wlk.
 gracilis G. & R.
a *datisalis* Druce
 occidentalis Haim.

5393 *stenialis* Gn.
 acestealis Wlk.
 phaerusalis Wlk.

Nacoleia Wlk.

5394 *hampsoni* B. & McD.

Asciodes Gn.

5395 *gordialis* Gn.
 quietalis Wlk.
 confusalis Hlst.
5396 *anormalis* Gn.
 alvinalis Gn.
 helcitalis Wlk.
 orphnealis Wlk.
 dracusalis Wlk.
 subaequalis Wlk.

Pantographa Led.

5397 *limata* G. & R.

Sylepta Hbn.

5398 *penumbralis* Grt.
5399 *fluctuosalis* Led.
5400 *silicalis* Gn.
 sublutalis Druce
5401 *obscuralis* Led.
5402 *masculinalis* B. & McD.
5403 *brumalis* B. & McD.
5404 *elevata* Fabr.

5405 miamialis Dyar

5406 pimalis B. & B.

Lygropia Led.

5407 rivulalis Hamp.
nymphulalis Haim.

5408 stictigrama Hamp.

5409 chromalis Gn.
principalis Led.

Agathodes Gn.

5410 designalis Gn.
floridalis Hlst.

5411 monstralis Gn.

Glyphodes Gn.

5412 pyloalis Wlk.

Paradosis Zell.

5413 flegia Cram.
phantasmalis Gn.
villosalis Zell.

Diaphania Hbn.

5414 olealis Feld.

5415 nitidalis Stoll
vitralis Hbn.
fumosalis Gn.
praxialis Druce

5416 infimalis Gn.

5417 arguta Led.

5418 hyalinata Linn.
marginalis Stoll
lucernalis Hbn.
ab. niveocilia Hamp.

5419 quadristigmalis Gn.

5420 sibillalis Wlk.
batesi Feld.
alitalis Hlst.

Metrea Grt.

5421 ostreonalis Grt.
urticaloides Fyles

Ommatospila Led.

5422 narcaeusalis Wlk.
nummulalis Led.

Hellula Gn.

5423 undalis Fabr.
rogatalis Hlst.

5424 phidilealis Wlk.

5425 aqualis B. & McD.

Sameodes Snell.

5426 subcostalis Hamp.

5427 elealis Wlk.
taedialis Wlk.
phyllisalis Wlk.
adipaloides G. & R.

5428 trimaculalis Grt.

5429 mopsalis Wlk.

Mimorista Warr.

5430 flavidissimalis Grt.

Terastia Gn.

5431 meticulosalis Gn.
subjectalis Led.
coeligenalis Hlst.

Laniifera Hamp.

5432 cyclades Druce

Evergestis Hbn.

5433 funalis Grt.

5434 insulalis B. & McD.

5435 obliqualis Grt.

5436 subterminalis B. & McD.

5437 triangulalis B. & McD.

5438 *simulatalis* Grt.
brunneogrisea Hy. Edw.

5439 *vinctalis* B. & McD.

5440 *eurekalis* B. & McD.

5441 *obscuralis* B. & McD.

5442 *rimosalis* Gn.

5443 *consimilis* Warr.

5444 *aridalis* B. & McD.

5445 *lunulalis* B. & McD.

5446 *straminalis* Hbn.
eunusalis Wlk.

Azochis Wlk.

5447 *rufidiscalis* Hamp.

Crocidophora Led.

5448 *serrattissimalis* Zell.
subdentalis Grt.

5449 *pustuliferalis* Led.

5450 *palindialis* Gn.
dyaralis Fern.

5451 *tuberculalis* Led.

Stenophyes Led.

5452 *huronalis* Gn.
zinghalis Wlk.
serinalis Wlk.

Polygrammodes Gn.

5453 *capitalis* Grt.

5454 *hirtalis* Gn.
lybialis Wlk.
amatalis Wlk.

Nomophila Hbn.

5455 *noctuella* D. & S.

Pachyzancla Meyr.

5456 *periusalis* Wlk.

5457 *bipunctalis* Fabr.
detritalis Gn.
lycialis Wlk.

5458 *repetitalis* Grt.

5459 *phaeopteralis* Gn.
cellatalis Wlk.

Loxostege Hbn.

5460 *dasconalis* Wlk.

5461 *coloradensis* G. & R.
pergilvalis Hlst.

5462 *chortalis* Grt.

5463 *aureolalis* Hlst.
cyralis Druce

5464 *obliteralis* Wlk.
marculenta G. & R.

5465 *kearfottalis* Walt.

5466 *unipunctalis* Walt.

5467 *mancalis* Led.

5468 *helvialis* Wlk.
thycesalis Wlk.
apertalis Wlk.
citrina G. & R.

5469 *bifidalis* Fabr.
inornatalis Wlk.

5470 *flavalis* Fern.

5471 *similalis* Gn.
licealis Gn.
crinialis Wlk.
diotimealis Wlk.
communis Grt.
caffreii F. & M.
form rantalis Gn.
siriusalis Wlk.
murcialis Wlk.
intractella Wlk.
posticata G. & R.
occidentalis Pack.

5472 *typhonalis* B. & McD.

5473 *allectalis* Grt.
perplexalis Fern.

- 5474 *lepidalis* *Hlst.*
 5475 *terpnalis* *B. & McD.*
 5476 *plana* *Grt.*
 roseiterminalis *B. & McD.*
 5477 *baccatalis* *Hlst.*
 5478 *sticticalis* *Linn.*
 5479 *commixtalis* *Wlk.*
 indotatellus *Wlk.*
 cereralis *Zell.*
 5480 *offumalis* *Hlst.*
 5481 *thrallophyllalis* *Hlst.*
 5482 *indentalis* *Grt.*
 5483 *albiceralis* *Grt.*
 a floridalis *B. & McD.*
 5484 *oberthuralis* *Fern.*
 5485 *labeculalis* *Hlst.*
 5486 *annaphilalis* *Grt.*
 5487 *anartalis* *Grt.*
 a lulualis *Hlst.*
 5488 *albertalis* *B. & McD.*
 5489 *saxicolalis* *B. & McD.*
 5490 *flavifimbrialis* *Warr.*
 5491 *succandidalis* *Hlst.*
 simplex *Warr.*
 5492 *ophionalis* *Wlk.*
 nasonialis *Zell.*
 5493 *sesquialteralis* *Zell.*
 5494 *vibicalis* *Zell.*
 5495 *parvipicta* *B. & McD.*
 5496 *unilinealis* *B. & McD.*

Sericoplaga *Warr.*

- 5497 *macluræ* *Riley*
 externalis *Warr.*

Diasemia *Hbn.*

- 5498 *ramburialis* *Dup.*
 leodocusalis *Wlk.*

- 5499 *nigralis* *Fern.*
 5500 *janassialis* *Wlk.*
 hariolalis *Hlst.*
 5501 *plumbosignalis* *Fern.*
 5502 *zephyralis* *B. & McD.*
 5503 *roseopennalis* *Hlst.*
 chromaphila *Dyar*
 5504 *magdalena* *Fern.*
 5505 *elegantalis* *Warr.*
 argalis *Fern.*
 5506 *disputalis* *B. & McD.*
 5507 *leucosalis* *B. & McD.*
 5508 *alaskalis* *Gibs.*

Gonocausta *Led.*

- 5509 *sabinalis* *Dyar*

Antigastra *Led.*

- 5510 *catalaunalis* *Dup.*

Liopasia *Moesch.*

- 5511 *teneralis* *Led.*

Condylorrhiza *Led.*

- 5512 *vestigialis* *Gn.*
 a tritealis *Wlk.*
 mestoralis *Wlk.*
 oratalis *Hlst.*

Microcausta *Hamp.*

- 5513 *flavipunctalis* *B. & McD.*
 5514 *bipunctalis* *B. & McD.*

Tholeria *Hbn.*

- 5515 *reversalis* *Gn.*
 5516 *pyraustalis* *Dyar*

Calamochrous *Led.*

- 5517 *straminea* *Warr.*

Boeotarcha Meyr.

- 5518 demantrialis *Druce*
 5519 stigmosalis *Warr.*

Cybalomia Led.

- 5520 extorris *Warr.*
 quadristrigalis *Fern.*

Gyros Hy. Edw.

- 5521 muii *Hy. Edw.*
 rubralis *Warr.*
 5522 atripennalis *B. & McD.*

Autocosmia *Warr.*

- 5523 concinna *Warr.*
 5524 nexalis *Hlst.*

Maroa *B. & McD.*

- 5525 unicoloralis *B. & McD.*

Edia *Dyar*

- 5526 semiluna *Sm.*
 bidentalis *B. & McD.*
 microstagma *Dyar*
 5527 minutissima *Sm.*
 coolidgei *Dyar*

Orenia *Dup.*

- 5528 coloradalis *B. & McD.*
 5529 trivialis *B. & McD.*

Titanio *Hbn.*

- 5530 pollinalis *Schiff.*
 flavinotalis *Grt.*
 5531 ehippialis *Zett.*
 5532 alticolalis *B. & McD.*
 5533 subargentalis *B. & McD.*
 5534 dapalis *Grt.*
 5535 proximalis *Fern.*

- 5536 triumphalis *Grt.*
 5537 immerens *Harv.*
 5538 helianthialis *Murt.*
 5539 murmuralis *Dyar*

- 5540 belialis *Druce*
 5541 lutosalis *B. & McD.*
 5542 laetalis *B. & McD.*

Chrismania *B. & McD.*

- 5543 pictipennalis *B. & McD.*

Polingia *B. & McD.*

- 5544 quaestoralis *B. & McD.*

Perispasta *Zell.*

- 5545 caeculalis *Zell.*
 ♀ *immixtalis* *Grt.*

Phlyctaenia *Hbn.*

- 5546 rubigalis *Gn.*
 oblunalis *Led.*
 harveyana *Grt.*
 5547 profundalis *Pack.*
 5548 desistalis *Wlk.*
 5549 inquinatalis *Zell.*
 glacialis *Pack.*
 5550 nordeggensis *McD.*
 5551 sheppardi *McD.*
 5552 rusticalis *B. & McD.*
 5553 itysalis *Wlk.*
 variegata *Wlk.*
 turmalis *Grt.*
 hyperborealis *Moesch.*
 tillialis *Dyar*
 5554 saxifragae *McD.*
 5555 washingtonalis *Grt.*
 invinctalis *Hlst.*
 5556 angustalis *B. & McD.*

5557 *berberalis* B. & McD.

5558 *radiosalis* Moesch.

5559 *indistinctalis* Warr.

5560 *acutella* Wlk.
venalis Grt.

5561 *terrealis* Tr.
mysippusalis Wlk.
humilalis Led.

5562 *extricalis* Gn.
dionalis Wlk.
nisoecalis Wlk.
intricatalis Led.
oppilalis Grt.

5563 *helvalis* Wlk.
oscitalis Grt.
gyralis Hlst.
botys Strand

5564 *tertialis* Gn.
plectilis G. & R.
syringicola Pack.

Cindaphia Led.

5565 *bicoloralis* Gn.
julialis Wlk.
incensalis Led.
amiculatalis Berg.
pulchripictalis Hamp.

5566 *augustalis* F. & R.

Epicorsia Hbn.

5567 *mellinalis* Hbn.
oedipodalis Gn.
butyrosa Butl.

Pyrausta Schrank

5568 *sartoralis* B. & McD.

5569 *pilatealis* B. & McD.

5570 *napaealis* Hlst.

5571 *linealis* Fern.

5572 *ochreicostalis* B. & McD.

5573 *zonalis* B. & McD.

5574 *galactalis* Dyar

5575 *vacunalis* Grt.

5576 *pertextalis* Led.
genitalis Grt.
thesealis Zell.

5577 *fissalis* Grt.

5578 *aeglealis* Wlk.
quinquelinealis Grt.

5579 *thestealis* Wlk.
magistralis Grt.
gulosalis Hlst.

5580 *abdominalis* Zell.

5581 *theseusalis* Wlk.
feudalis Grt.

5582 *langdonalis* Grt.

5583 *oxydalis* Gn.

5584 *flavidalis* Gn.
laeoalis Wlk.
cinctipedalis Wlk.

5585 *fuscimaculalis* Grt.
flavicoloralis Grt.
confovealis Hlst.

5586 *submedialis* Grt.
dissectalis Grt.
pilalis Hlst.

5587 *gracilalis* Hlst.
atrisquamalis Hamp.

5588 *haedulalis* Hlst.

5589 *illibalis* Hbn.

5590 *arsaltealis* Wlk.
euphaesalis Wlk.
guttulosa Wlk.
fascialis Wlk.
subjectalis Led.
magniferalis Wlk.

5591 *pseudoranal* B. & McD.

5592 *potentalis* B. & McD.

5593 *venalalis* Hlst.

5594 *penitalis* Grt.
nelumbialis Sm.

- 5595 *ainsliei* *Heinr.*
- 5596 *obumbratalis* *Led.*
- 5597 *beddeci* *Dyar*
- 5598 *fumalis* *Gn.*
orasusalis *Wlk.*
badipennis *Grt.*
- 5599 *fumipennis* *Warr.*
- 5600 *inconcinnalis* *Led.*
crocotalis *Grt.*
festalis *Hlst.*
- 5601 *futilalis* *Led.*
erectalis *Grt.*
- 5602 *fumoferalis* *Hlst.*
- 5603 *singularis* *Led.*
- 5604 *octosignalis* *Hlst.*
- 5605 *mustelinalis* *Pack.*
catenulalis *Grt.*
monulalis *Hlst.*
- 5606 *luscitalis* *B. & McD.*
- 5607 *unifascialis* *Pack.*
obnigralis *Hlst.*
a subolivalis *Pack.*
hircinalis *Grt.*
- 5608 *torvalis* *Moesch.*
gelida *McLach.*
- 5609 *fodinalis* *Led.*
socialis *Grt.*
- 5610 *semirubralis* *Pack.*
- 5611 *achroalis* *Hamp.*
- 5612 *perrubralis* *Pack.*
a scurralis *Hlst.*
postrubralis *Hamp.*
- 5613 *phoenicealis* *Hbn.*
flegialis *Wlk.*
noraxalis *Wlk.*
- 5614 *taeniolalis* *Gn.*
- 5615 *onythesalis* *Wlk.*
- 5616 *acrionalis* *Wlk.*
acuphisalis *Wlk.*
- proceralis* *Lea.*
sumptuosalis *Wlk.*
haruspica *G. & R.*
form rufifimbrialis *Grt.*
- 5617 *pythialis* *B. & McD.*
- 5618 *inveterascalis* *B. & McD.*
- 5619 *rubricalis* *Hbn.*
similalis *Led.*
nescalis *Wlk.*
californicalis *Pack.*
- 5620 *tatalis* *Grt.*
- 5621 *borealis* *Pack.*
madetesalis *Wlk.*
efficialis *Wlk.*
repletalis *Wlk.*
- 5622 *subsequalis* *Gn.*
insequalis *Gn.*
matronalis *Grt.*
a plagalis *Haim.*
- 5623 *orphisalis* *Wlk.*
- 5624 *generosa* *G. & R.*
- 5625 *ochosalis* *Dyar*
- 5626 *tuolumnalis* *B. & McD.*
- 5627 *flavofascialis* *Grt.*
- 5628 *laticlavata* *G. & R.*
form cinerosa *G. & R.*
- 5629 *tyralis* *Gn.*
erosnealis *Wlk.*
diffissa *G. & R.*
bellulalis *Hlst.*
- 5630 *coccinea* *Warr.*
- 5631 *costimaculalis* *Fern.*
- 5632 *inornatalis* *Fern.*
rosa *Druce*
- 5633 *signatalis* *Wlk.*
vinulenta *G. & R.*
- 5634 *volupialis* *Grt.*
- 5635 *corinthalis* *B. & McD.*
- 5636 *augustalis* *Grt.*

- 5637 *liopasialis* Dyar
 5638 *nicalis* Grt.
 uxorculalis Hlst.
 5639 *subnicalis* Warr.
 5640 *morenalis* Dyar
 5641 *atropurpuralis* Grt.
 5642 *lethalis* Grt.
 5643 *unimacula* G. & R.
 5644 *versicolor* Warr.
 5645 *marginalis* Wlk.
 stenopteralis Grt.
 5646 *niveicillialis* Grt.
 5647 *funnebris* Strom.
 octomaculata Linn.
 glomeralis Wlk.

Loxostegopsis Dyar

- 5648 *xanthocrypta* Dyar
 5649 *merrickalis* B. & McD.
 5650 *emigralis* B. & McD.
 5651 *polle* Dyar
 5652 *curialis* B. & McD.

Eustixia Hbn.

- 5653 *pupula* Hbn.
 5654 *octonalis* Zell.
 sexmaculalis Grt.

Cornifrons Led.

- 5655 *simalis* Grt.
 a sideralis Dyar
 b praeia Dyar
 5656 *pulveralis* Warr.
 5657 *phasma* Dyar
 a chlorophasma Dyar
 5658 *actualis* B. & McD.

Noctuelia Gn.

- 5659 *rufofascialis* Steph.
 thalialis Wlk.
 a novalis Grt.
 form decorata Druce
 b nuchalis Grt.
 5660 *castanealis* Hlst.
 jativa Barnes
 5661 *elautalis* Grt.
 magnalis Hlst.
 5662 *puertalis* B. & McD.
 5663 *palmalis* B. & McD.
 5664 *commortalis* Grt.
 minima Dyar
 5665 *pandoralis* B. & McD.
 5666 *aridalis* B. & B.
 5667 *virula* B. & McD.
 5668 *bububattalis* Hlst.
 tectalis B. & McD.
 5669 *achemonalis* B. & McD.
 a pulcharalis B. & B.
 5670 *rhea* Druce
 5671 *costipunctalis* B. & McD.
 5672 *unicoloralis* B. & McD.

Lineodes Gn.

- 5673 *contortalis* Gn.
 5674 *integra* Zell.
 5675 *interrupta* Zell.
 5676 *triangulalis* Moesch.

Stenoptycha Zell.

- 5677 *solanalisis* B. & McD.

Chlorobapta B. & McD.

- 5678 *rufistrigalis* B. & McD.

Scissolia B. & McD.

- 5679 *harlequinialis* B. & McD.

NYMPHULINAE

Nymphula Schrank

5680 maculalis Clem.
seminivella Wlk.
dispar Grt.
ab. ♂ foeminalis Dyar
ab. ♀ masculinalis Dyar

5681 allionealis Wlk.
aptalis Led.
plenilinealis Grt.
ab. itealis Wlk.
cretacealis Led.

5682 obscuralis Grt.

5683 seminealis Wlk.
tedyuscongalis Clem.

5684 badiusalis Wlk.
curviferalis Wlk.
albalis Rob.

5685 vittatalis Dyar

5686 obliteralis Wlk.
obscuralis Moesch.
proprialis Fern.

5687 nomophilalis Dyar

5688 gyralis Hlst.
dentilinea Hamp.

5689 serralinealis B. & B.

5690 nebulosalis Fern.

5691 icciusalis Wlk.
faulalis Wlk.
formosalis Clem.
genuialis Led.
pacalis Grt.

5692 ekthlipsis Grt.

Ambia Wlk.

5693 striatalis Dyar

Cataclysta Hbn.

5694 brunnildalis Dyar

5695 bifascialis Rob.
a kearfottalis Dyar

5696 drumalis Dyar

5697 claudialis Wlk.
a medicinalis Grt.

5698 slossonalis Dyar

5699 magnificalis Hbn.
lamialis Wlk.
helopalis Clem.

5700 fulicalis Clem.
? angulatalis Led.

5701 confusalis Wlk.

5702 cronialis Druce

5703 schaefferalis Dyar

5704 avernalis Grt.
confusalis B. & McD.

5705 daemonalis Dyar

5706 cryptalis Druce

5707 imitabilis Dyar

5708 satanalis Dyar

5709 truckeealis Dyar

5710 cancellalis Dyar

5711 irroratalis Dyar

5712 plevie Dyar

5713 longipennis Hamp.

Oxyelophila Forbes

5714 callista Forbes

Hydropionea Hamp.

5715 oblectalis Hlst.
eumoros Dyar

5716 fenestralis B. & McD.

Geshna Dyar

5717 cannalis Quaint.

5718 primordialis Dyar

Diathrausta Led.

- 5719 *reconditalis* Wlk.
minuialis Wlk.
octomaculalis Fern.
a harlequinialis Dyar
montana Haim.
5720 *daeckealis* Haim.

Steniodes Snell.

- 5721 *gelliasalis* Wlk.
lutealis Snell.

Piletocera Led.

- 5722 *bufalis* Gn.
stercoralis Moesch.
5723 *simplicialis* B. & McD.

Eurrhypara Hbn.

- 5724 *urticata* Linn.

SCOPARIINAE

Scoparia Haw.

- 5725 *centuriella* D. & S.
caecalis Wlk.
caliginosalis Wlk.
a ninguidalis Hlst.
5726 *normalis* Dyar
5727 *delphusa* Druce
5728 *tricoloralis* Dyar
5729 *torniplagalis* Dyar
5730 *rectilinea* Zell.
refugalis Hlst.
5731 *commortalis* Dyar
5732 *expallidalis* Dyar
5733 *rigidalis* B. & McD.
5734 *penumbralis* Dyar
5735 *strigalis* Dyar
5736 *cinereomedia* Dyar
5737 *truncatalis* McD.

- 5738 *schwarzalis* Dyar
5739 *leucophthalma* Dyar
5740 *echo* Dyar
5741 *bronzalis* B. & B.
5742 *lugubralis* Wlk.
nominatalis Hlst.
5743 *spaldingalis* B. & McD.
5744 *denigata* Dyar
5745 *albertalis* Dyar
5746 *phycitinalis* Dyar
5747 *basalis* Wlk.
biplagiialis Wlk.
libella Grt.
a palloralis Dyar
b fernaldalis Dyar
c obispalis Dyar
d pacificalis Dyar
5748 *alaskalis* B. & B.
5749 *cervalis* McD.
5750 *alialis* B. & McD.
5751 *sabura* Druce

PYRALINAE

Aglossa Latr.

- 5752 *cuprealis* Hbn.
domalis Gn.
enthealis Hlst.
5753 *cuprina* Zell.
5754 *acallalis* Dyar
5755 *baba* Dyar
5756 *gigantalis* B. & B.
5757 *furva* Heinr.

Pyrallis Linn.

- 5758 *farinalis* Linn.
5759 *costiferalis* Wlk.
costigeralis Wlk.

5760 *disciferalis* Dyar

5761 *electalis* Hlst.

5762 *cacamica* Dyar

5763 *manihotalis* Gn.

Hypsopygia Hbn.

5764 *costalis* Fabr.

fimbrialis D. & S.

a *hyllalis* Wlk.

Herculia Wlk.

5765 *planalis* Grt.

anniculalis Hlst.

occidentalis Hlst.

5766 *intermedialis* Wlk.

sodalis Wlk.

squamealis Grt.

5767 *phoezalis* Dyar

5768 *cohortalis* Grt.

5769 *florencealis* Blkmre.

5770 *thymetusalis* Wlk.

devialis Grt.

5771 *binodulalis* Zell.

5772 *sordidalis* B. & McD.

5773 *infimbrialis* Dyar

5774 *olinalis* Gn.

trentonalis Led.

ab. *himonialis* Zell.

Uscodys Dyar

5775 *cestalis* Hlst.

5776 *atalis* Dyar

Omphalocera Led.

5777 *cariosa* Led.

5778 *dentosa* Grt.

5779 *occidentalis* B. & B.

CHRYSAUGINAE

Galasa Wlk.

5780 *nigrinodis* Zell.

5781 *nigripunctalis* B. & McD.
fulvusana Halm.

Negalasa B. & McD.

5782 *fumalis* B. & McD.

5783 *rubralis* B. & McD.

Tosale Wlk.

5784 *oviplagalis* Wlk.

nobilis Grt.

anthoecioides G. & R.

5785 *similalis* B. & B.

5786 *aucta* Hamp.

Lepidomys Gn.

Chalinitis Rag.

5787 *irrenosa* Gn.

olealis Rag.

Anemosella Dyar

5788 *viridalis* B. & McD.

5789 *obliquata* Hy. Edw.

albistrigalis B. & McD.

5790 *polingalis* B. & B.

5791 *nevalis* B. & B.

Salobrena Wlk.

5792 *sincera* Zell.

Clydonopteron Riley

5793 *tecomae* Riley

Xantippides Dyar

5794 *descansalis* Dyar

Arta Grt.

5795 *statalis* Grt.

5796 *epicoenalis* Rag.

5797 *olivalis* Grt.

Heliades Rag.

5798 *mulleolella* Hlst.
huachucalis Haim.

Caphys Wlk.

5799 *bilinea* Wlk.

Satole Dyar

5800 *ligniperdalis* Dyar

Xantippe Rag.

5801 *uranides* Dyar

5802 *beatifica* Dyar

Parachma Wlk.

Artopsis Dyar

5803 *ochracealis* Wlk.
auratalis Wlk.
a culiculalis Hlst.
nua Dyar

5804 *borregalis* Dyar

Acallis Rag.

5805 *gripalis* Hlst.
fernaldi Rag.
angustipennis Warr.

5806 *centralis* Dyar

5807 *mitchelli* Dyar

Polloccia Dyar

5808 *alticolalis* Dyar

Condylolomia Grt.

5809 *participialis* Grt.

Penthesilea Rag.

5810 *sacculalis* Rag.

SCHOENOBIINAE

Patissa Moore

5811 *xantholeucalis* Gn.
fasciella Fern.

5812 *flavicostella* Fern.

5813 *flavifascialis* B. & McD.

5814 *parthenialis* Dyar

5815 *chrysozona* Dyar

5816 *sordidalis* B. & McD.

5817 *vestaliella* Zell.

Topeutis Hbn.

Scirpophaga Tr.

5818 *perstrialis* Hbn.
semiradiellus Wlk.
macrinellus Zell.

5819 *repugnatalis* Wlk.
consortalis Dyar

Rupela Wlk.

Storteria B. & McD.

5820 *nivea* Wlk.

5821 *tinctella* Wlk.
holophaealis Hamp.
unicolor B. & McD.

5822 *segrega* Heinr.

5823 *sejuncta* Heinr.

Schoenobius Dup.

5824 *sordidellus* Zinck.

5825 *unipunctellus* Rob.

5826 *tripunctellus* Rob.

5827 *melinellus* Clem.
a dispersellus Rob.
b albicostellus Fern.
c uniformellus Dyar

5828 *clemensellus* Rob.
‡aquilellus Clem.

5829 *pallulellus* B. & McD.

- 5830 forficellus *Thun.*
longirostellus Clem.
 5831 amblyptepennis *Dyar*
 5832 roscidellus *Dyar*
 5833 nitidellus *Dyar*
 5834 uxorialis *Dyar*
 5835 maximellus *Fern.*

CRAMBINAE

Surattha Wlk.

- 5836 santella *Kft.*
 5837 indentella *Kft.*

Mesolia Rag.

- 5838 baboquivariella *Kft.*
 5839 oraculella *Kft.*
 5840 huachucaella *Kft.*

Prionapteryx Steph.

- 5841 nebulifera *Steph.*
 5842 achatina *Zell.*
 5843 cuneolalis *Hlst.*
 5844 serpentella *Kft.*

Eugrotea Fern.

- 5845 incertella *Zinck.*
dentella Fern.
 5846 olivella *Grt.*
 5847 yavapai *Kft.*

Pseudoschoenobius Fern.

- 5848 opalescalis *Hlst.*
griseosparsa Hamp.
saganella Hlst.

Raphiptera Hamp.

- 5849 minimella *Rob.*
 5850 argillaceella *Pack.*

Crambus Fabr.

- 5851 satrapellus *Zinck.*
aculeitellus Wlk.
elegantellus Wlk.
 5852 hastiferellus *Wlk.*
 5853 quinquareatus *Zell.*
extorralis Hlst.
 5854 occidentalis *Grt.*
agricolellus Dyar
 5855 hamellus *Thun.*
ensigerella Hbn.
 5856 cypridalis *Hlst.*
 5857 pascuellus *Linn.*
floridus Zell.
 5858 lyonsellus *Haim.*
 5859 daeckellus *Haim.*
 5860 girardellus *Clem.*
nivihumellus Wlk.
 5861 leachellus *Zinck.*
pulchellus Zell.
 5862 unistriatellus *Pack.*
exesus Grt.
 5863 praefectellus *Zinck.*
involutellus Clem.
 5864 carpenterellus *Pack.*
 5865 oslarellus *Haim.*
 5866 youngellus *Kft.*
 5867 bidens *Zell.*
 5868 labradoriensis *Christ.*
 5869 dissectus *Grt.*
 5870 tutillus *McD.*
 5871 dumetellus *Hbn.*
pratella Hbn.
 5872 trichusalis *Hlst.*
 5873 cockleellus *Kft.*
 5874 alboclavellus *Zell.*
 5875 carolinellus *Haim.*

- 5876 *agitatellus* Clem.
saltuellus Zell.
- 5877 *awemellus* McD.
- 5878 *myellus* Hbn.
latiradiellus Wlk.
interruptus Grt.
- 5879 *luctuellus* H. S.
- 5880 *laqueatellus* Clem.
semifusellus Wlk.
- 5881 *gausapalis* Hlst.
- 5882 *multilinellus* Fern.
- 5883 *hortuellus* Hbn.
a *topiarius* Zell.
b *vachellellus* Kft.
- 5884 *albellus* Clem.
- 5885 *pusionellus* Zell.
- 5886 *biguttellus* Forbes
- 5887 *innotatellus* Wlk.
sericinellus Zell.
inornatellus Clem.
- 5888 *turbatellus* Wlk.
bipunctellus Zell.
- 5889 *elegans* Clem.
- 5890 *immunellus* Zell.
a *minor* Forbes
- 5891 *polingi* Kft.
- 5892 *vulgivagellus* Clem.
aurifimbrialis Wlk.
chalybistrostris Zell.
- 5893 *plumbifimbriellus* Dyar
- 5894 *dorsipunctellus* Kft.
- 5895 *ruricolellus* Zell.
a *canadellus* Haim.
- 5896 *teterrellus* Zinck.
camurellus Clem.
terrellus Zell.
- 5897 *decorellus* Zinck.
polyactinellus Zell.
goodellianus Grt.
bonusculalis Hlst.
- 5898 *coloradellus* Fern.
- 5899 *bolterellus* Fern.
- 5900 *hulstellus* Fern.
- 5901 *attenuatus* Grt.
- 5902 *biothanatalis* Hlst.
behrensellus Fern.
- 5903 *albineellus* Fern.
- 5904 *truncatellus* Zett.
abtrusellus Wlk.
rufinalis Wlk.
- 5905 *trichostomus* Christ.
albisinuatella Pack.
- 5906 *paganellus* McD.
- 5907 *oregonicus* Grt.
- 5908 *bartellus* B. & McD.
- 5909 *bonifatellus* Hlst.
- 5910 *mutabilis* Clem.
fuscicostellus Zell.
- 5911 *murellus* Dyar
- 5912 *hemiochrellus* Zell.
- 5913 *haytiellus* Zinck.
- 5914 *intermedius* Kft.
- 5915 *nevadellus* Kft.
- 5916 *undatus* Grt.
- 5917 *ericellus* B. & McD.
- 5918 *anceps* Grt.
- 5919 *trisectus* Wlk.
interminellus Wlk.
exsiccatus Zell.
biliturellus Zell.
- 5920 *inornatellus* Wlk.
- 5921 *laciniellus* Grt.
- 5922 *edmontellus* McD.
- 5923 *simpliciellus* Kft.
- 5924 *dimidiatellus* Grt.

- 5925 *caliginosellus* Clem.
 5926 *modestellus* B. & McD.
 5927 *zeellus* Fern.
 refotalis Hlst.
 5928 *luteolellus* Clem.
 duplicatus Grt.
 a ulae Ckll.
 5929 *chiloidellus* B. & McD.
 5930 *angulatus* B. & McD.
 diegonellus Dyar
 5931 *costalipartella* Dyar
 5932 *tripsacas* Dyar

Thaumatopsis Morr.

- 5933 *magnificus* Fern.
 5934 *pexellus* Zell
 ♀ *macropterellus* Zell.
 longipalpus Morr.
 a coloradellus Kft.
 5935 *gibsonellus* Kft.
 5936 *edonis* Grt.
 5937 *fernaldellus* Kft.
 a nortellus Kft.
 5938 *floridellus* B. & McD.
 5939 *lagunellus* Dyar
 5940 *atomosellus* Kft.
 5941 *fieldellus* B. & McD.
 5942 *repandus* Grt.
 5943 *crenulatellus* Kft.
 5944 *striatellus* Fern.
 5945 *daeckeellus* Kft.
 5946 *pectinfer* Zell.
 5947 *actuellus* B. & McD.

Loxocrambus Forbes

- 5948 *canellus* Forbes

- 5949 *mohaviellus* Forbes
 5950 *awemensis* McD.

Eufernaldia Hlst.

- 5951 *cadarella* Druce
 argenteonervella Hlst.

Ommatopteryx Kirby

- 5952 *texana* Rob.
 ocellea Auct.
 californicalis Pack.
 5953 *virescens* Hlst.

Argyria Hbn.

- 5954 *nivalis* Dru.
 argentata Emm.
 microchrysell Wlk.
 nummulalis Zell.
 5955 *argentana* Martyn
 nummulalis Hbn.
 subaenescens Wlk.
 fuscipes Zell.
 5956 *rileyella* Dyar
 5957 *auratella* Clem.
 pulchella Wlk.
 critica Forbes
 5958 *lacteella* Fabr.
 pussillalis Hbn.
 rufisignella Zell.

Iesta Dyar

- 5959 *lisetta* Dyar

Diatraea Guild.

- 5960 *saccharalis* Fabr.
 5961 *evanescens* Dyar
 sobrinalis Schaus
 5962 *crambidoides* Grt.
 zeacolella Dyar
 tripsacicola Dyar
 5963 *venosalis* Dyar
 5964 *grandiosella* Dyar

Hemiplatytes B. & B.

- 5965 *epia* Dyar
damon B. & McD.

Haimbachia Dyar

- 5966 *placidella* Haim.
 5967 *squamulella* Zell.
 5968 *prosenes* Dyar

Alamogordia Dyar & Heinr.

- 5969 *parallela* Kft.

Diatraenopsis Dyar & Heinr.

- 5970 *differentialis* Fern.
 5971 *idalis* Fern.

Chilo Zinck.

- 5972 *multipunctellus* Kft.
 5973 *puritellus* Kft.
dinephalalis Dyar
 5974 *opinionellus* Dyar
 5975 *loftini* Dyar
 5976 *plejadellus* Zinck.
sabulifera Wlk.
prolatella Grt.
oryzaeellus Riley

- 5977 *forbesellus* Fern.

- 5978 *fernaldalis* Dyar & Heinr.

Occidentalia Dyar & Heinr.

- 5979 *comptulatalis* Hlst.

Platytes Gn.

- 5980 *punctilineella* B. & McD.
 5981 *multilineatella* Hlst.
 5982 *acerata* Dyar
 5983 *panalope* Dyar
 5984 *vobisne* Dyar

- 5985 *aenigmatica* Heinr.

- 5986 *alleni* Fern.

Eoreuma Ely

- 5987 *densellus* Zell.

Xubida Schaus

- 5988 *dentilineatella* B. & McD.

GALLERIINAE

Galleria Fabr.

- 5989 *mellonella* Linn.
cereana Linn.
obliquella Wlk.

Aphomia Hbn.

- 5990 *sociella* Linn.
colonella Linn.
tribunella D. & S.

Paralipsa Butl.

- 5991 *terrenella* Zell.
furellus Zell.
 5992 *fulminalis* Zell.
 5993 *decorella* Hlst.

Melissoblaptis Zell.

- 5994 *fuscolimbellus* Rag.

Achroia Hbn.

- 5995 *grisella* Fabr.
cinereola Hbn.

Corcyra Rag.

- Tineopsis* Dyar
 5996 *cephalonica* Staint.
theobromae Dyar

MACROTRECINAE

Macrotheca Rag.

- 5997 *interalbicalis* Rag.
vulnifica Dyar

- 5998 *bilinealis* B. & McD.
 5999 *angulalis* B. & McD.
 6000 *unicoloralis* B. & McD.
 6001 *unipuncta* Dyar
 6002 *ponda* Dyar
 6003 *nigrocinereella* Hlst.
 6004 *flexilinealis* Dyar
 6005 *leucocope* Dyar
 6006 *lecerfialis* B. & B.

Alpheias Rag.

- 6007 *vicarilis* Dyar
 6008 *transferens* Dyar
 6009 *querula* Dyar
 6010 *oculiferalis* Rag.

Alpheioides B. & McD.

- 6011 *parvulalis* B. & McD.

Decaturia B. & McD.

- 6012 *pectinalis* B. & McD.

EPIPASCHIINAE

Macalla Wlk.

- 6013 *thyrsisalis* Wlk.

Epipaschia Clem.

- 6014 *superatalis* Clem.
 borealis Grt.
 olivalis Hlst.
 6015 *albomedialis* B. & B.
 6016 *zelleri* Grt.

Cacozelia Grt.

- 6017 *basiochrealis* Grt.
 6018 *alboplagialis* Dyar

Jocara Wlk.

- 6019 *incrustalis* Hlst.
 6020 *perseella* B. & McD.
 6021 *breviornatalis* Grt.
 6022 *trabalis* Grt.
 adulatalis Hlst.
 6023 *interruptella* Rag.
 dentilineella Hlst.
 6024 *elegans* Schaus

Oneida Hlst.

- 6025 *lunulalis* Hlst.
 6026 *luniferella* Hlst.
 a pallidalis B. & B.

Tallula Hlst.

- 6027 *atrifascialis* Hlst.
 6028 *watsoni* B. & McD.
 6029 *baboquivarialis* B. & B.
 6030 *fieldi* B. & McD.

Tetralopha Zell.

- 6031 *robustella* Zell.
 diluculella Grt.
 6032 *scortealis* Led.
 6033 *slossoni* Hlst.
 6034 *melanogrammos* Zell.
 6035 *texanella* Rag.
 6036 *callipeplella* Hlst.
 6037 *speciosella* Hlst.
 6038 *floridella* Hlst.
 6039 *subcanalis* Wlk.
 taleolalis Hlst.
 querciella B. & McD.
 6040 *militella* Zell.
 platanella Clem.

6041 asperatella *Clem.*
expandens Wlk.
form nephelotella Hlst.
clemensalis Dyar

6042 aplastella *Hlst.*

6043 spaldingella *B. & B.*

6044 dolorosella *B. & B.*

6045 provoella *B. & B.*

6046 arizonella *B. & B.*

6047 thoracicella *B. & B.*

6048 griseella *B. & B.*

6049 fuscolotella *Rag.*

6050 tiltella *Hlst.*

6051 humerella *Rag.*
formosella Hlst.

6052 tertiella *Dyar*

6053 baptisiella *Fern.*

6054 euphemella *Hlst.*
variella *Rag.*
melanographella *Rag.*

Dyaria Neum.

6055 singularis *Neum.*

ENDOTRICHIIINAE

Neodavisia *B. & McD.*

‡*Davisia* *B. & McD.*

6056 singularis *B. & McD.*

PHYCITINAE

Trachycera *Rag.*

6057 pallicornella *Rag.*

Myelois *Hbn.*

6058 transitella *Wlk.*
notatalis *Wlk.*

6059 duplipunctella *Rag.*

6060 fragilella *Dyar*

6061 piazzella *Dyar*

6062 subtetricella *Rag.*

6063 obnupsella *Hlst.*

6064 minutularia *Hlst.*

6065 oporedestella *Dyar*

6066 zonulella *Rag.*

6067 bistriatella *Hlst.*
bilineatella *Rag.*

6068 immundella *Hlst.*

6069 grossipunctella *Rag.*

6070 alatella *Hlst.*
rectistrigella *Rag.*

6071 coniella *Rag.*

6072 caliginoidella *Dyar*

Rhodophaea *Gn.*

6073 hystriculella *Hlst.*

6074 annuliferella *Dyar*

6075 intransitella *Dyar*

6076 exsulella *Zell.*

6077 bicolorella *B. & McD.*

Acrocaula *Hlst.*

6078 comacornella *Hlst.*

Acrobasis *Zell.*

6079 kearfottella *Dyar*

6080 feltella *Dyar*

6081 caryalbella *Ely*

6082 juglandis *Le Bar*
palliolella *Rag.*
albocapitella *Hlst.*

6083 secundella *Ely*

6084 ostryella *Ely*

6085 hebescella *Hlst.*

6086 *evanescentella* Dyar
 6087 *caryivorella* Rag.
 6088 *minimella* Rag.
 nigrosignella Hlst.
 6089 *stigmella* Dyar
 6090 *aurorella* Ely
 6091 *angusella* Grt.
 eliella Dyar
 6092 *demotella* Grt.
 6093 *malipennella* Dyar
 6094 *sylviella* Ely
 6095 *irrubriella* Ely
 6096 *latifasciella* Dyar
 6097 *normella* Dyar
 6098 *coryliella* Dyar
 6099 *dyarella* Ely
 6100 *caryae* Grt.
 6101 *betulella* Hlst.
 6102 *cunulae* Dyar
 6103 *rubrifasciella* Pack.
 alnella McD.
 6104 *comptoniella* Hlst.
 6105 *myricella* B. & McD.
 6106 *peplifera* Dyar
 6107 *septentrionella* Dyar
 6108 *slossonella* Hlst.
 tenuella B. & McD.
 6109 *cirroferella* Hlst.

Mineola Hlst.
 6110 *scitulella* Hlst.
 6111 *tricolorella* Grt.
 6112 *amplexella* Rag.
 6113 *caliginella* Hlst.
 comptella Rag.
 6114 *vaccinii* Riley

6115 *indigenella* Zell.
 nebulosa Walsh
 zelatella Hlst.
 6116 *grossbecki* B. & McD.

Ulophora Rag.

6117 *grotei* Rag.
 6118 *tephrosiella* Dyar

Eucardinia Dyar

6119 *caricae* Dyar

Sarasota Hlst.

6120 *plumigerella* Hlst.
 6121 *subrufella* Hlst.
 6122 *filiolella* Hlst.

Nasutes Hamp.

6123 *venata* Hamp.

Phycitopsis Rag.

6124 *flavicornella* Rag.

Dioryctria Zell.

6125 *clarioralis* Wlk.
 brunneella Dyar
 6126 *auranticella* Grt.
 a *miniatella* Rag.
 6127 *xanthoenobares* Dyar
 6128 *erythropasa* Dyar
 6129 *abietella* D. & S.
 abietivorella Grt.
 a *elegantella* Hlst.
 6130 *ponderosae* Dyar
 6131 *reniculella* Grt.
 6132 *actualis* Hlst.

Pinipestis Grt.

6133 *zimmermanni* Grt.
 austriana Cosens

6134 *delectella* *Hlst.*

6135 *amatella* *Hlst.*

6136 *pygmaeella* *Rag.*

6137 *cambiicola* *Dyar*

6138 *albovittella* *Hlst.*

6139 *gulosella* *Hlst.*

Bertelia *B. & McD.*

6140 *grisella* *B. & McD.*

Monoptilota *Hlst.*

6141 *pergratialis* *Hlst.*

nubilella *Hlst.*

grotella *Rag.*

Tacoma *Hlst.*

6142 *feriella* *Hlst.*

6143 *texanella* *Hlst.*

dulciella *Hlst.*

6144 *submedianella* *Dyar*

Dasypyga *Rag.*

6145 *alternosquamella* *Rag.*

a stictophorella *Rag.*

Promylea *Rag.*

6146 *lunigerella* *Rag.*

6147 *glendella* *Dyar*

Glyptocera *Rag.*

6148 *consobrinella* *Zell.*

busckella *Dyar*

Ortholepis *Rag.*

6149 *jugosella* *Rag.*

Polopeustis *Rag.*

6150 *annulatella* *Zett.*

altensis *Wocke*

a arctiella *Gib.*

Acroncosa *B. & McD.*

6151 *albiflavella* *B. & McD.*

a castrella *B. & McD.*

6152 *similella* *B. & McD.*

Ambesa *Grt.*

6153 *walsinghami* *Rag.*

6154 *monodon* *Dyar*

6155 *mirabella* *Dyar*

6156 *laetella* *Grt.*

6157 *niviella* *Hlst.*

6158 *denticulella* *Rag.*

6159 *columbiella* *McD.*

Nephoptyx *Hbn.*

6160 *lallatalis* *Hlst.*

a brucei *Hlst.*

6161 *scobiella* *Grt.*

decimerella *Hlst.*

6162 *decipientella* *Dyar*

6163 *ovalis* *Pack.*

♀ *latifasciatella* *Pack.*

modestella *Hlst.*

a geminipunctella *Rag.*

6164 *crataegella* *B. & McD.*

6165 *rhypodella* *Hlst.*

6166 *curvatella* *Rag.*

6167 *fasciolalis* *Hlst.*

6168 *hypochalciella* *Rag.*

6169 *rubrisparsella* *Rag.*

rufibasella *Rag.*

croceella *Hlst.*

6170 *crassifasciella* *Rag.*

6171 *inquilinella* *Rag.*

6172 *gilvibasella* *Hlst.*

lacteella *Hlst.*

6173 *rubescensella* *Hlst.*

6174 *nyssaecolella* Dyar

6175 *subtinctella* Rag.

Anegcephalesis Dyar

6176 *catheretes* Dyar

Tlascala Hlst.

6177 *finitella* Wlk
melanella Hlst.

6178 *umbripennis* Hlst.
gillettella Dyar

6179 *oregonella* B. & McD.

6180 *reductella* Wlk.
gleditschiella Fern.

Emmerita Hamp.

6181 *mirandella* Rag.

Meroptera Grt.

6182 *cviatella* Dyar

6183 *uvinella* Rag.

6184 *pravella* Grt.

6185 *nebulella* Riley
unicolorella Hlst.
leucophaeella Hlst.

6186 *canescentella* Hlst.

Immyrta Dyar

6187 *nigrovittella* Dyar

6188 *bumeliella* B. & McD.

6189 *pasadamia* Dyar

Salebria Zell.

6190 *pumilella* Rag.

6191 *nubiferella* Rag.

6192 *heinrichalis* Dyar

6193 *funerella* Dyar

6194 *yuconella* Dyar

6195 *engeli* Dyar

6196 *turpidella* Rag.

6197 *annulosella* Rag.

6198 *ademptandella* Dyar

6199 *tenebrosella* Hlst.
quercicolella Rag.

6200 *afflictella* Hlst.
liquidambarella Dyar

6201 *nigricans* Hlst.

6202 *ochripunctella* Dyar

6203 *fructetella* Hlst.
rectistrigella Dyar

6204 *carneella* Hlst.

6205 *virgatella* Clem.
quinquepunctella Grt.
a subcaesiella Clem.
contatella Grt.
b inconditella Rag.

6206 *celtidella* Hlst.

6207 *levigatella* Hlst.

6208 *pudibundella* Rag.

6209 *basilaris* Zell.

6210 *georgiella* Hlst.

6211 *robustella* Dyar

6212 *semiobscurella* Hlst.

6213 *subfuscella* Rag.

6214 *bifasciella* Hlst.

6215 *nogalesella* Dyar

6216 *furciferella* Dyar

6217 *aliculella* Hlst.
oberthuriella Rag.

6218 *yumaella* Dyar

6219 *odiosella* Hlst.

6220 *bakerella* Dyar

Passadena Hlst.

6221 *flavidorsella* Rag.
constantella Hlst.

6222 *cinctella* Hlst.

Myrllaea Rag.

6223 *tarmitalis* Hlst.

6224 *vetustella* Dyar

6225 *delassalis* Hlst.
purpurella Hlst.

6226 *fernaldi* Rag.

Laodamia Rag.

6227 *fusca* Haw.

moestella Wlk.

prosellariana Wlk.

cacabella Hlst.

triplagiella Dyar

a frigidella Pack.

Elasmopalpus Blanch.

6228 *decoloralis* Wlk.

metagrammalis Wlk.

6229 *petrellus* Zell.

rubiginella Wlk.

rufinalis Wlk.

hapsella Hlst.

obsipella Hlst.

6230 *furfurellus* Hlst.

floridellus Hlst.

6231 *lignosellus* Zell.

angustellus Blanch.

form incautellus Zell.

form tartarellus Zell.

carbonellus Hlst.

Selagia Hbn.

6232 *australella* Hlst.

6233 *lithosella* Rag.

luteella Hlst.

Psammia Hamp.

6234 *flavipicta* Hamp.

Pyla Grt.

6235 *scintillans* Grt.

6236 *metallicella* Hlst.

6237 *aeneoviridella* Rag.

6238 *bistriatella* Hlst.

6239 *hanhamella* Dyar

6240 *incoruscilla* Hlst.

6241 *criddlella* Dyar

6242 *aeneella* Hlst.

6243 *rainierella* Dyar

6244 *fasciella* B. & McD.

6245 *viridisuffusella* B. & McD.

6246 *sylphiella* Dyar

6247 *feella* Dyar

6248 *blackmorella* Dyar

Epischnia Hbn.

6249 *runderella* Rag.

6250 *parkerella* Schaus

6251 *boisduvaliella* Gn.
a albiplagiatella Pack.

6252 *fosterella* Hlst.

6253 *fulvirugella* Rag.

6254 *albocostialialis* Hlst.

6255 *subcostella* Rag.

6256 *vividella* McD.

6257 *incanella* Hlst.

6258 *granitella* Rag.

piperella Dyar

Megasis Gn.

6259 *edwardsialis* Hlst.

polyphemella Rag.

6260 *excantalis* Hlst.

pullatella Rag.

6261 *caudellella* Dyar

6262 *aridella* Dyar

6263 *atrella* Hlst.

6264 rubrithoracella *B. & McD.*

6265 indianella *Dyar*

Sarata Rag.

6266 nigrifasciella *Rag.*

6267 rhoiella *Dyar*

6268 tephrella *Rag.*

6269 perfuscalis *Hlst.*
dnopherella *Rag.*

6270 umbrella *Dyar*

6271 cinereella *Hlst.*

Lipographis Rag.

6272 fenestrella *Pack.*
a humilis *Rag.*

6273 leoninella *Pack.*
pallidella *Dyar*

Etiella Zell.

6274 zinckenella *Tr.*
a rubribasella *Hlst.*
b schisticolor *Zell.*
villosella *Hlst.*

Hypochoalcia Hbn.

6275 hulstiella *Rag.*

6276 truncatella *Wgt.*

Melitara Wlk.

6277 prodenialis *Wlk.*
a bolli *Zell.*

6278 dentata *Grt.*

6279 parabates *Dyar*

6280 doddalis *Dyar*

Olycella Dyar

6281 junctolineella *Hlst.*
pectinatella *Hamp.*

6282 nephelepasa *Dyar*
subumbrella *Dyar*

Cactobrosis Dyar

6283 fernaldialis *Hlst.*
gigantella *Rag.*
cinereella *Hlst.*
longipennella *Rag.*
elongatella *Hamp.*

6284 ponderosella *B. & McD.*

6285 phoenicis *Dyar*

6286 interstitialis *Dyar*

6287 strigalis *B. & McD.*

6288 leuconips *Dyar*

6289 creabates *Dyar*

Ozamia Rag.

6290 lucidalis *Wlk.*

6291 thallassophila *Dyar*

6292 clarefacta *Dyar*
a heliophila *Dyar*

Yosemitia Rag.

6293 graciella *Hlst.*

6294 longipennella *Hlst.*

Eumysia Dyar

6295 mysiella *Dyar*

6296 aureomaculella *Dyar*

6297 maidella *Dyar*

6298 fuscateella *Hlst.*

6299 perdubiella *Dyar*

6300 stigmella *Dyar*
a maculicula *Dyar*

6301 bihinda *Dyar*

6302 bidentella *Dyar*

Zophodia Hbn.

6303 grossulariae *Riley*
turbatella *Grt.*

a franconiella *Hlst.*
bella *Hlst.*

b ihouna *Dyar*

c dilativitta *Dyar*

d magnificans *Dyar*

6304 purgatoria *Dyar*

6305 packardella *Rag.*

6306 pallidipennella *Hlst.*

6307 orobanchella *Dyar*

6308 holochlora *Dyar*

6309 dilatifasciella *Rag.*

6310 fieldiella *Dyar*

6311 glaucatella *Hlst.*

6312 polingella *Dyar*

6313 epischnioides *Hlst.*

Euzophera *Zell.*

6314 placidella *Dyar*

6315 nigricantella *Rag.*

6316 aglaeella *Rag.*

6317 semifuneralis *Wlk.*
impletella *Zell.*
pallulella *Hlst.*

6318 ochifrontella *Zell.*
ferruginella *Rag.*

6319 ostricolorella *Hlst.*

6320 fuscomaculella *Wgt.*

Hyphantidium *Scott*

6321 tumidulella *Rag.*

Mescinia *Rag.*

6322 estrella *B. & McD.*

Vitula *Rag.*

6323 edmandsi *Pack.*
dentosella *Rag.*

6324 serratilineella *Rag.*

6325 basimaculatella *Rag.*

Laetilia *Rag.*

6326 ephestiella *Rag.*
lustrella *Dyar*

6327 zamacrella *Dyar*

6328 coccidivora *Comst.*
pallida *Comst.*
a *hulsti* *Ckll.*

6329 eremiella *Dyar*

6330 myersella *Dyar*

6331 fiskeella *Dyar*

Canarsia *Hlst.*

Canarsiana *Strand*

6332 ulmiarrosorella *Clem.*
pneumatella *Hlst.*
ulmella *Rag.*
fuscatella *Hlst.*
discocellularis *Strand*

6333 gracilella *Hlst.*

6334 feliculella *Dyar*

Psorosina *Dyar*

6335 hammondi *Riley*

6336 angulella *Dyar*

Staudingeria *Rag.*

6337 albipenella *Hlst.*
a *olivacella* *Dyar*
b *perluteella* *Dyar*

Heterographis *Rag.*

6338 ignistrigella *Rag.*

6339 morrisonella *Rag.*
olbiella *Hlst.*
form *coloradensis* *Rag.*

6340 arizonella *Hlst.*

Hulstia *Rag.*

6341 undulatella *Clem.*
propriella *Wlk.*

6342 *texanella* Hlst.

Honora Grt.

6343 *mellinella* Grt.
ochrimaculella Rag.

6344 *palloricostella* Walt.

6345 *dotella* Dyar

6346 *sciurella* Rag.

6347 *subsciurella* Rag.

6348 *montinatatella* Hlst.
canicostella Rag.

6349 *dulciella* Hlst.

6350 *fumosella* Hlst.

Dolichorrhinia Rag.

6351 *aureofasciella* Rag.

Valdivia Rag.

6352 *lativittella* Rag.

6353 *mirabilicornella* Dyar

6354 *albocostella* Hlst.

Divitiaca B. & McD.

6355 *parvulella* B. & McD.

6356 *simulella* B. & McD.

6357 *ochrella* B. & McD.

Diviana Rag.

6358 *eudoreella* Rag.

Ocala Hlst.

6359 *dryadella* Hlst.
platanella Grossb.

Palatka Hlst.

6360 *nymphaeella* Hlst.
verecuntella Grossb.

Eurythmidia Rag.

6361 *ignidorsella* Rag.

Wunderia Grosb.

6361, 1 *neaeriatella* Grossb.

Dannemora Hlst.

6362 *edentella* Hlst.

Homoeosoma Curt.

6363 *impressale* Hlst.

6364 *uncanale* Hlst.

6365 *elongellum* Dyar

6366 *illuvjellum* Rag.
candidellum Hlst.

6367 *striatellum* Dyar

6368 *albescentellum* Rag.

6369 *inornatellum* Hlst.

6370 *mucidellum* Rag.

6371 *stypticellum* Grt.

6372 *reliquellum* Dyar

6373 *oslarellum* Dyar

6374 *electellum* Hlst.
a texanellum Rag.
differtellum B. & McD.

6375 *opalescellum* Hlst.
tenuipunctellum Rag.

Caudellia Dyar

6376 *apyrella* Dyar

6377 *albovittella* Dyar

Unadilla Hlst.

6378 *erronella* Zell.
nasutella Hlst.

Ephestiodes Rag.

6379 *gilvescentella* Rag.

- 6380 infimella *Rag.*
 6381 mignonella *Dyar*
 6382 nigrella *Hlst.*
 6383 benjaminella *Dyar*
 6384 erythrella *Rag.*

Eurythmia *Rag.*

- 6385 hospitella *Zell.*
 quantulella *Hlst.*
 6386 parvulella *Ely*
 6387 angulella *Ely*
 6388 diffusella *Ely*
 6389 furnella *Ely*
 6390 coloradella *Hlst.*
 6391 spaldingella *Dyar*
 6392 yavapaella *Dyar*
 6393 thurberiae *Dyar*
 6394 anthophila *Dyar*

Moodna *Hlst.*

- 6395 lugubrella *Rag.*
 6396 ostrinella *Clem.*
 obtusangulella *Rag.*
 pelviculella *Hlst.*
 6397 nigrella *Hlst.*
 6398 setonella *McD.*

Ephestia *Gn.*

- 6399 kuehniella *Zell.*
 fuscofasciella *Rag.*
 gitonella *Druce*
 6400 rileyella *Rag.*
 6401 elutella *Hbn.*
 amarella *Dyar*
 6402 figulilella *Greg.*
 6403 cautella *Wlk.*

- 6404 nonparilella *Dyar*
 6405 arizonella *Walt.*

Varneria *Dyar*

- 6406 postremella *Dyar*
 6407 atrifasciella *B. & McD.*

Plodia *Gn.*

- 6408 interpunctella *Hbn.*
 zeae *Fitch*

ANERASTIINAE

Uinta *Hlst.*

- 6409 oreadella *Hlst.*

Ragonotia *Grt.*

- 6410 dotalis *Hlst.*
 discigerella *Rag.*
 olivella *Hlst.*

Aurora *Rag.*

- 6411 longipalpella *Rag.*

Tolima *Rag.*

- 6412 roseopennella *Hlst.*
 6413 opacella *Hlst.*
 6414 cincaidella *Dyar*

Parramatta *Hamp.*

- 6415 placidella *B. & McD.*

Pectinigeria *Rag.*

- 6416 ardiferella *Hlst.*
 nigromaculella *Hlst.*
 6417 pamponerella *Dyar*
 6418 gemmatella *Hlst.*
 6419 bistriatella *Hlst.*
 discostrigella *Dyar*

Poujadia Rag.

- 6420 glareosella *Zell.*
bicolorella Hlst.
 6421 pimella *Dyar*
 6422 quadricolorella *Dyar*
 6423 floscella *Hlst.*

Ollia Dyar

- 6424 holoponerella *Dyar*
 6425 santaritella *Dyar*
 6426 parvella *Dyar*

Cabnia Dyar

- 6427 myronella *Dyar*

Saluria Rag.

- 6428 ostreella *Rag.*
 6429 tetradella *Zell.*
 6430 rostrella *Rag.*
 6431 dichroeella *Rag.*

Martia Rag.

Urula Hlst.

- 6432 arizonella *Rag.*
incongruella Hlst.

Navasota Rag.

- 6433 hebetella *Rag.*

Alamosa Rag.

- 6434 piperatella *Rag.*
 6435 bipunctella *B. & McD.*

Hypsotropa Zell.

- 6436 luteicostella *Rag.*
nodosella Hlst.
 6437 cremoricosta *Hamp.*

Peoria Rag.

- 6438 bipartitella *Rag.*

- 6439 approximella *Wlk.*
haematica Zell.
roseatella Pack.

- 6439, 1 albicostella *Grossb.*

- 6440 albidella *Hlst.*

Barberia Dyar

- 6441 affinitella *Dyar*

Anerastia Hbn.

- 6442 ella *Hlst.*
 6443 conspersella *Rag.*
 6444 lobella *Hbn.*

Bandera Rag.

- 6445 binotella *Zell.*
 6446 carneella *B. & McD.*
 6447 virginella *Dyar*
 6448 cupidinella *Hlst.*
 6449 subluteella *Rag.*

Tampa Rag.

- 6450 dimediatella *Rag.*

Statina Rag.

- 6451 gaudiella *Hlst.*
 6452 roseotinctella *Rag.*
 6453 bifasciella *Hamp.*

Calera Rag.

- 6454 punctilimbella *Rag.*

Coenochroa Rag.

- 6455 illibella *Hlst.*
puricostella Rag.
 6456 inspergella *Rag.*
 6457 californiella *Rag.*

Chipeta Hlst.

- 6458 perlepidella *Hlst.*

PTEROPHORIDAE

- Trichoptilus** *Wlsh.*
 6459 *parvulus* *B. & L.*
 6460 *defectalis* *Wlk.*
 congrualis *Wlk.*
 oxydactylus *Wlk.*
 ochrodactylus *Fish*
 centetes *Meyr.*
 6461 *californicus* *Wlsh.*
 wrightii *Grin.*
 6462 *pygmaeus* *Wlsh.*
 6463 *lobidactylus* *Fitch*
- Pterophorus** *Geoff.*
Oxyptilus *Zell.*
 6464 *periscelidactylus* *Fitch*
 6465 *ontario* *McD.*
 6466 *evansi* *McD.*
 6467 *tenuidactylus* *Fitch*
 nigrociliatus *Zell.*
 cygnus *B. & L.*
 6468 *buscki* *McD.*
 6469 *raptor* *Meyr.*
 6470 *ningoris* *Wlsh.*
 bernardinus *Grin.*
 6471 *delawaricus* *Zell.*
 finitimus *Grin.*
- Platyptilia** *Hbn.*
 6472 *rhododactyla* *D. & S.*
 6473 *fuscicornis* *Zell.*
 marmarodactyla *Dyar*
 pasadenensis *Grin.*
 6474 *tesseradactyla* *Linn.*
 fischeri *Zell.*
 6475 *washburnensis* *McD.*
 6476 *pallidactyla* *Haw.*
 marginidactylus *Fitch*
 nebulaedactylus *Fitch*
 bertrami *Roess.*
 bischoffi *Zell.*
 cervinidactylus *Pack.*
 adusta *Wlsh.*
- 6477 *carduidactyla* *Riley*
 cardui *Zell.*
 hesperis *Grin.*
 6478 *percnodactyla* *Wlsh.*
 6479 *williamsii* *Grin.*
 6480 *ardua* *McD.*
 6481 *albicans* *Fish*
 6482 *albertae* *B. & L.*
 6483 *brachymorpha* *Meyr.*
 crenulata *B. & McD.*
 6484 *punctidactyla* *Haw.*
 cosmodactyla *Hbn.*
 ulodactyla *Zett.*
 monticola *Grin.*
 6485 *pica* *Wlsh.*
 6486 *acanthodactyla* *Hbn.*
 6487 *grandis* *Wlsh.*
 6488 *carolina* *Kft.*
 6489 *auriga* *B. & L.*
 6490 *edwardsii* *Fish*
 6491 *albiciliata* *Wlsh.*
 a canadensis *McD.*
 6492 *nana* *McD.*
 6493 *shastae* *Wlsh.*
 6494 *albida* *Wlsh.*
 6495 *orthocarpi* *Wlsh.*
 6496 *fragilis* *Wlsh.*
 6497 *albidorsella* *Wlsh.*
 6498 *maea* *B. & L.*
 6499 *cooleyi* *Fern.*
 schwarzi *Dyar*
 6500 *xylopsamma* *Meyr.*
 gorgoniensis *Grin.*
 6501 *modesta* *Wlsh.*
 6502 *petrodactyla* *Wlk.*
- Exelastis** *Meyr.*
 6503 *cervinicolor* *B. & McD.*

Marasmarcha Meyr.

- 6504 *pumilio* Zell.
liophanes Meyr.

Stenoptilia Hbn.

- 6505 *rhynchosiae* Dyar
6506 *parva* *Wlshm.*
6507 *pterodactyla* Linn.
ptilodactyla Hbn.
6508 *zophodactyla* Dup.
semicostatus Zell.
6509 *pallistriga* B. & McD.
6510 *mengeli* Fern.
6511 *bowmani* McD.
6512 *exclamationis* *Wlshm.*
6513 *coloradensis* Fern.
6514 *columbia* McD.

Aciptilia Hbn.

- 6515 *walsinghami* Fern.

Pselnophorus Wallen.

- 6516 *belfragei* Fish

Adaina Tutt

- 6517 *bipunctata* Moesch.
simplicius Gross.
6518 *zephyria* B. & L.
6519 *montana* *Wlshm.*
form declivis Meyr.
6520 *cinerascens* *Wlshm.*
6521 *buscki* B. & L.
6522 *ambrosiae* Murt.
perplexus Grossb.

Oidaematophorus Wallen.

- 6523 *occidentalis* *Wlshm.*
californica Grin.
6524 *cretidactylus* Fitch
gypsodactylus *Wlshm.*
6525 *downesi* McD.

- 6526 *guttatus* *Wlshm.*
6527 *mathewianus* Zell.
gorgoniensis Grin.
hilda Grin.
6528 *fishii* Fern.
6529 *eupatorii* Fern.
6530 *alaskensis* B. & L.
6531 *phaceliae* McD.
6532 *grisescens* *Wlshm.*
acrias Meyr.
behrii Grin.
6533 *cineraceus* Fish
lugubris Fish
6534 *rileyi* Fern.
6535 *lindseyi* McD.
6536 *baroni* Fish
6537 *castor* B. & L.
6538 *pollux* B. & L.
6539 *mizar* B. & L.
6540 *meyricki* B. & L.
6541 *gratiosus* Fish
6542 *fieldi* Wgt.
6543 *confusus* Brn.
6544 *citrites* Meyr.
6545 *brucei* Fern.
chionastes Meyr.
6546 *inquinatus* Zell.
6547 *eros* B. & L.
6548 *pan* B. & L.
6549 *phoebus* B. & L.
6550 *triton* B. & L.
6551 *integratus* Meyr.
6552 *auster* B. & L.
6553 *medius* B. & L.
6554 *lienigianus* Zell
linus B. & L.
6555 *cadmus* B. & L.
6556 *iobates* B. & L.

- | | | | |
|------|---|------|--|
| 6557 | <i>cochise</i> B. & L. | 6575 | <i>costatus</i> B. & L. |
| 6558 | <i>ares</i> B. & L. | 6576 | <i>falsus</i> B. & L. |
| 6559 | <i>tinctus</i> <i>Wlsh.</i> | 6577 | <i>varius</i> B. & L. |
| 6560 | <i>helianthi</i> <i>Wlsh.</i> | 6578 | <i>corvus</i> B. & L. |
| 6561 | <i>homodactylus</i> <i>Wlk.</i> | 6579 | <i>perditus</i> B. & L. |
| 6562 | <i>elliottii</i> <i>Fern.</i> | 6580 | <i>simplicissimus</i> <i>McD.</i> |
| 6563 | <i>stramineus</i> <i>Wlsh.</i> | 6581 | <i>unicolor</i> B. & <i>McD.</i> |
| 6564 | <i>angustus</i> <i>Wlsh.</i> | 6582 | <i>inconditus</i> <i>Wlsh.</i> |
| 6565 | <i>paleaceus</i> <i>Zell.</i>
<i>sericidactylus</i> <i>Murt.</i> | 6583 | <i>caudelli</i> <i>Dyar</i> |
| 6566 | <i>venapunctus</i> B. & L. | 6584 | <i>rigidus</i> <i>McD.</i> |
| 6567 | <i>luteolus</i> B. & L. | 6585 | <i>contortus</i> <i>McD.</i> |
| 6568 | <i>lacteodactylus</i> <i>Cham.</i>
<i>form kellicottii</i> <i>Fish</i>
<i>chlorias</i> <i>Meyr.</i> | 6586 | <i>catalinae</i> <i>Grin.</i> |
| 6569 | <i>balanotes</i> <i>Meyr.</i>
<i>aquila</i> <i>Meyr.</i> | 6587 | <i>arion</i> B. & L. |
| 6570 | <i>grandis</i> <i>Fish</i>
<i>baccharides</i> <i>Grin.</i> | 6588 | <i>monodactylus</i> <i>Linn.</i>
<i>cineridactylus</i> <i>Fitch</i>
<i>naevosidactylus</i> <i>Fitch</i>
<i>pergracilidactylus</i> <i>Pack.</i>
<i>barberi</i> <i>Dyar</i>
<i>pictipennis</i> <i>Grin.</i> |
| 6571 | <i>subochraceus</i> <i>Wlsh.</i> | 6589 | <i>longifrons</i> <i>Wlsh.</i> |
| 6572 | <i>sulphureodactylus</i> <i>Pack.</i> | | Agdistis <i>Hbn.</i> |
| 6573 | <i>serenus</i> <i>Meyr.</i> | | 6590 <i>americana</i> B. & L. |
| 6574 | <i>australis</i> <i>Grin.</i> | | |

ALUCITIDAE

Alucita *Linn.*

6591 *huebneri* *Wallen.*

montana *Ckll.*

‡*hexadactyla* *Auct.*

Superfamily **TORTRICOIDEA**

OLETHREUTIDAE

OLETHREUTINAE

Episimus *Wlsh.*

6592 *argutanus* *Clem.*

hamameliella *Clem.*

allutana *Zell.*

6593 *augmentanus* *Zell.*

6594 *tyrius* *Heinr.*

Bactra *Steph.*

6595 *lanceolana* *Hbn.*

6596 *furfurana* *Haw.*

6597 *verutana* *Zell.*

a albipuncta *Heinr.*

b chrysea *Heinr.*

6598 *maiorina* *Heinr.*

6599 *priapeia* *Heinr.*

6600 *sinistra* *Heinr.*

Polychrosis Rag.

6601 *liriodendrana* *Kft.*
magnoliana *Kft.*

6602 *viteana* *Clem.*
vitivorana *Pack.*
†botrana *Fern.*

6603 *monotropana* *Heinr.*

6604 *cypripediana* *Forbes*

6605 *rhoifractana* *Kft.*

6606 *yaracana* *Kft.*
signifera *Meyr.*

6607 *spiraeifoliana* *Heinr.*

6608 *exasperana* *McD.*

6609 *palliolana* *McD.*

6610 *aemulana* *Heinr.*

6611 *vernoniana* *Kft.*
ambrosiana *Kft.*

6612 *aruncana* *Kft.*

6613 *slingerlandana* *Kft.*

6614 *carduana* *Busck.*

6615 *blandula* *Heinr.*

6616 *cyclopiana* *Heinr.*

6617 *spiraeae* *McD.*

Ahmosia *Heinr.*

6618 *galbinea* *Heinr.*

6619 *aspasiana* *McD.*

Endothenia *Steph.*

6620 *montanana* *Kft.*
kingi *McD.*

6621 *heinrichi* *McD.*

6622 *rubipunctana* *Kft.*

6623 *sordulenta* *Heinr.*

6624 *melanosticta* *Wlsh.*
flavillana *Dyar*

6625 *hebesana* *Wlk.*
inexpertana *Wlk.*
fullerea *Riley*

6626 *daeckeana* *Kft.*

6627 *conditana* *Wlsh.*

6628 *infuscata* *Heinr.*

6629 *antiquana* *Hbn.*
a nubilana *Clem.*
vetulana *Wlsh.*

Taniva *Heinr.*

6630 *albolineana* *Kft.*
abietana *Fern.*
piceae *Busck*

Tia *Heinr.*

6631 *vulgana* *McD.*

Hulda *Heinr.*

6632 *impudens* *Wlsh.*

Esia *Heinr.*

6633 *approximana* *Heinr.*

Eumarozia *Heinr.*

6634 *malachitana* *Zell.*

Zomaria *Heinr.*

6635 *interruptolineana* *Fern.*

6636 *rosaochreana* *Kft.*

6637 *andromedana* *B. & McD.*

Aphania *Hbn.*

6638 *capreana* *Hbn.*
funerea *Meyr.*

6639 *youngana* *McD.*

6640 *frigidana* Pack.
moeschleri Ken.

6641 *spinulana* McD.

6642 *brevicornutana* McD.

6643 *tertiana* McD.

6644 *bifida* McD.

6645 *afficticia* Heinr.

6646 *strigosa* Heinr.

6647 *albeolana* Zell.

6648 *apateticana* McD.
‡deceptana McD.

6649 *deceptana* Kft.

6650 *dextrana* McD.

6651 *infida* Heinr.

6652 *removana* Kft.

Sciaphila Treit.

6653 *duplex* Wlshm.
form thallasana McD.

Badebecia Heinr.

6654 *urticana* Hbn.
campestrana Zell.
dilutifusca Wlshm.

Phaecasiophora Grt.

6655 *confixana* Wlk.
perductana Wlk.
mutabilana Clem.

6656 *niveiguttana* Grt.

6657 *inspersa* Heinr.

Exartema Clem.

6658 *monetiferanum* Riley
6659 *nitidanum* Clem.
6660 *foedanum* Clem.
concinnanum Fern.

6661 *furfuranum* McD.

6662 *olivaceanum* Fern.
bolandanum McD.

6663 *fraternanum* McD.

6664 *subnubilum* Heinr.

6665 *electrofusum* Heinr.

6666 *rusticanum* McD.

6667 *zellerianum* Fern.
‡nitidanum Zell.

6668 *footianum* Fern.

6669 *atrodontanum* Fern.

6670 *punctanum* Wlshm.
cornanum Heinr.

6671 *connectum* McD.

6672 *inornatanum* Clem.

6673 *clavanum* Wlk.

6674 *mediopartitum* Heinr.

6675 *exoletum* Zell.

6676 *bicoloranum* McD.

6677 *tenebricum* Heinr.

6678 *quadrifidum* Zell.

6679 *tilianum* Heinr.

6680 *sciotanum* Heinr.

6681 *trepidulum* Heinr.

6682 *nigranum* Heinr.

6683 *viburnanum* McD.

6684 *hippocastanum* Kft.

6685 *merrickanum* Kft.

6686 *corylanum* Fern.

6687 *ochrosuffusanum* Heinr.

6688 *brunneopurpuratum* Heinr.

6689 *ferrugineanum* Riley

6690 *fagigemmeanum* Cham.

6691 *sericoranum* Wlshm.

6692 *melanomesum* Heinr.

- 6693 valdanum *McD.*
micantanum Forbes
- 6694 versicoloranum *Clem.*
- 6695 brevirostratum *Heinr.*
- 6696 permundanum *Clem.*
meanderana Wlk.
- 6697 submissanum *McD.*
- 6698 nananum *McD.*
quebecense Heinr.
- 6699 malanum *Fern.*
- 6700 appendiceum *Zell.*
- 6701 concinnanum *Clem.*
form terminanum *McD.*
- 6702 fasciatanum *Clem.*
decisana Wlk.
albofasciatum Zell.
- 6703 troglodanum *McD.*
- 6704 exaeresimum *Heinr.*
- 6705 ferriferanum *Wlk.*
gratiosana *Clem.*
usticana Zell.
- Hedia** Hbn.
- 6706 separatana *Kft.*
‡*dimidiana* *Fern.*
- 6707 ochroleucana *Hbn.*
nimbatana *Clem.*
contrariana Wlk.
consanguinana *Wlsh.*
- 6708 variegana *Hbn.*
- 6709 chionosema *Zell.*
- 6710 cyanana *Murt.*
- Tsinilla** Heinr.
- 6711 lineana *Fern.*
- Olethreutes** Hbn.
Argyroploce Hbn.
- 6712 griseoalbana *Wlsh.*
- 6713 osmundana *Fern.*
ochromediana *Kft.*
- 6714 auricapitana *Wlsh.*
- 6715 agilana *Clem.*
- 6716 albiciliana *Fern.*
- 6717 *siderana *Treit.*
a chalybeana *Wlsh.*
- 6718 sordidana *McD.*
- 6719 galaxana *Kft.*
a glitranana *Kft.*
- 6720 constellatana *Zell.*
- 6721 astrologana *Zell.*
a coronana *Kft.*
- 6722 coruscana *Clem.*
ferrolineana Wlk.
argyroelana Zell.
- 6723 puncticostana *Wlk.*
a murina *Pack.*
b major *Wlsh.*
- 6724 nordeggana *McD.*
- 6725 heinrichana *McD.*
- 6726 minaki *McD.*
- 6727 deprecatoria *Heinr.*
- 6728 cespitana *Hbn.*
flavofasciana West. &
Humph.
instrutana *Clem.*
poana Zell.
- 6729 carolana *McD.*
- 6730 polluxana *McD.*
- 6731 glaciana *Moesch.*
dealbana Wlk.
fuscalbana Zell.
castorana *McD.*
- 6732 bipartitana *Clem.*
similisana Wlk.
caesialbana Zell.
- 6733 trinitana *McD.*
- 6734 schulziana *Fabr.*
bentleyana Curt.

- 6735 *intermistana* Clem.
‡*turfosana* Moesch.
tessellana Pack.
- 6736 *septentrionana* Curt.
? *primariana* Wlk.
? *fulvifrontana* Pack.
- 6737 *inquietana* Wlk.
‡*septentrionana* Moesch.
boreana Rebel
- 6738 *bowmanana* McD.
- 6739 *mengelana* Fern.
groenlandicana B.-H.
- 6740 *costimaculana* Fern.
- 6741 *devotana* Kft.
- 6742 *buckellana* McD.
a albidula Heinr.

Evora Heinr.

- 6743 *hemidesma* Zell.

EUCOSMINAE

Pseudogalleria Rag.

- 6744 *inimicella* Zell.

Rhyacionia Hbn.

Retinia Gn.

- 6745 *buoliana* Schiff.
- 6746 *neomexicana* Dyar
‡*offectalis* Ckll.
- 6747 *pasadenana* Kft.
- 6748 *busckana* Heinr.
- 6749 *adana* Heinr.
- 6750 *zozana* Kft.
matutina Meyr.
a montana Busck.
- 6751 *rigidana* Fern.
- 6752 *frustrana* Comst.
a bushnelli Busck
- 6753 *subcervinana* Wlsh.

Petrova Heinr.

- 6754 *comstockiana* Fern.
- 6755 *virginiana* Busck
- 6756 *albicapitana* Busck
a arizonensis Heinr.
- 6757 *metallica* Busck
- 6758 *luculentana* Heinr.
- 6759 *sabiniana* Kft.
- 6760 *edemoidana* Dyar
- 6761 *monophylliana* Kft.
- 6762 *gemistrigulana* Kft.
- 6763 *pallipennis* McD.
- 6764 *burkeana* Kft.
- 6765 *picicolana* Dyar

Barbara Heinr.

- 6766 *colfaxiana* Kft.
a siskiyouana Kft.
b coloradensis Heinr.
c taxifoliella Busck
- 6767 *ulteriorana* Heinr.

Spilonota Steph.

- 6768 *ocellana* D. & S.
pyrifoliana Clem.
oculana Harr.
form lariciana Heinr.

Strepsicrates Meyr.

Phthinolophus Dyar

- 6769 *smithiana* Wlsh.
a indentana Dyar

Thiodia Hbn.

- 6770 *radiatana* Wlsh.
- 6771 *albertana* McD.
- 6772 *essexana* Kft.
- 6773 *awemeana* Kft.

- 6774 *indeterminana* McD.
6775 *umbrastriana* Kft.
6776 *roseotermianana* Kft.
6777 *ferruginana* Fern.
6778 *formosana* Clem.
 sagittana Wlk.
 stercoreana Zell.
 a subcandida Heinr.
6779 *altana* McD.
6780 *corculana* Zell.
 aspidiscana Wlsh. m.
6781 *annetteana* Kft.
6782 *refusana* Wlk.
6783 *amphorana* Wlsh. m.
6784 *decempunctana* Wlsh. m.
6785 *ochrocephala* Wlsh. m.
6786 *raracana* Kft.
 fastidiosa Meyr.
6787 *ochroterminana* Kft.
6788 *perfuscana* Heinr.
6789 *crispana* Clem.
6790 *alterana* Heinr.
6791 *marmontana* Kft.
6792 *sinestrigana* McD.
6793 *oregonensis* Heinr.
6794 *tomonana* Kft.
 limigena Meyr.
6795 *modernana* McD.
6796 *fasciculatana* McD.
6797 *convergana* McD.
6798 *mormonensis* Heinr.
6799 *delphinus* Heinr.
6800 *latens* Heinr.
6801 *columbiana* Wlsh. m.
6802 *insignata* Heinr.
6803 *apacheana* Wlsh. m.
6804 *influana* Heinr.
6805 *sublapidana* Wlsh. m.
6806 *lapidana* Wlsh. m.
6807 *kokana* Kft.
 chortaea Meyr.
 a sororiana Heinr.
6808 *ornatula* Heinr.
6809 *elongana* Wlsh. m.
6810 *rupestrana* McD.
6811 *transversa* Wlsh. m.
6812 *tarandana* Moesch.
6813 *nepotinana* Heinr.
6814 *complicana* McD.
6815 *spectana* McD.
6816 *tenuiana* Wlsh. m.
6817 *migratana* Heinr.
6818 *cinereolineana* Heinr.
6819 *misturana* Heinr.
6820 *parvana* Wlsh. m.
6821 *fertoriana* Heinr.
6822 *crassana* McD.
6823 *alatana* McD.
6824 *clavana* Fern.
6825 *indagatricana* Heinr.
6826 *argenticostana* Wlsh. m.
6827 *spiculana* Zell.
6828 *dorsiatomana* Kft.
6829 *striatana* Clem.
 albicepsana Wlk.
 trivittana Zell.
 a occidentalis Heinr.
6830 *implicata* Heinr.

- 6831 delphinoides *Heinr.*
6832 pallidarcis *Heinr.*
6833 modicellana *Heinr.*
6834 minimana *Wlshm.*
6835 subminimana *Heinr.*
6836 pallidicostana *Wlshm.*
6837 perangustana *Wlshm.*
6838 kiscana *Kft.*
speculigera *Meyr.*
6839 salmicolorana *Heinr.*
6840 artemisiana *Wlshm.*
6841 infimbriana *Dyar*
a candidula *Heinr.*
6842 octopunctana *Wlshm.*
6843 youngi *McD.*
6844 setonana *McD.*
6845 scalana *Wlshm.*
6846 festivana *Heinr.*
6847 segregata *Heinr.*
6848 castrensis *McD.*
6849 camdenana *McD.*
6850 montanana *Wlshm.*
triangulana *Kft.*
6851 benjamini *Heinr.*
6852 griseocapitana *Wlshm.*
6853 pastigiata *Heinr.*
6854 olivaceana *Riley*
6855 verniochreana *Heinr.*
6856 imbridana *Fern.*
6857 granulata *Kft.*
6858 grindeliana *Busck*
6859 stramineana *Wlshm.*
6860 umbraticana *Heinr.*
6861 offectalis *Hlst.*
obliterana *Wlshm.*
- 6862 bucephaloides *Wlshm.*
6863 southamptonensis *Heinr.*
- Eucosma** *Hbn.*
- 6864 quinquemaculana *Rob.*
6865 robinsonana *Grt.*
quintana *Zell.*
tryonana *Kft.*
6866 hazelana *Klots*
6867 crambitana *Wlshm.*
6868 fandana *Kft.*
argyraula *Meyr.*
6869 canariana *Kft.*
6870 ridingsana *Rob.*
argentifurcatana *Grt.*
hipeana *Grt.*
6871 fernaldana *Grt.*
6872 magnidicana *Heinr.*
6873 caniceps *Wlshm.*
6874 gandana *Kft.*
chloroleuca *Meyr.*
6875 avalona *McD.*
6876 adamantana *Gn.*
6877 spaldingana *Kft.*
6878 sandiego *Kft.*
6879 gilletteana *Dyar*
6880 optimana *Dyar*
6881 agassizii *Rob.*
6882 laticurva *Heinr.*
6883 dapsilis *Heinr.*
6884 bolanderana *Wlshm.*
6885 argenteana *Wlshm.*
6886 idahoana *Kft.*
6887 ragonoti *Wlshm.*
ab. barnesiana *Dyar*
6888 serpentana *Wlshm.*

- 6889 *ophionana* McD.
6890 *heathiana* Kft.
6891 *argentialbana* Wlsh.
 smithiana Wlsh.
 a britana McD.
6892 *morrisoni* Wlsh.
6893 *lathamii* Forbes
6894 *pergandeana* Fern.
 a flavana Fern.
6895 *agricolana* Wlsh.
6896 *costastrigulana* Kft.
6897 *comatulana* Zell.
6898 *vagana* McD.
6899 *albiguttana* Zell.
6900 *graciliana* Kft.
6901 *galenapunctana* Kft.
6902 *monogrammana* Zell.
6903 *atomosana* Wlsh.
6904 *serapicana* Heinr.
6905 *watertonana* McD.
6906 *glomerana* Wlsh.
6907 *sandana* Kft.
 griphodes Meyr.
6908 *circulana* Hbn.
 a gemellana Heinr.
6909 *scintillana* Clem.
 dodecana Zell.
 ‡*circulana* Fern.
 a randana Kft.
 paraglypta Meyr.
6910 *fratrueis* Heinr.
6911 *fraudabilis* Heinr.
6912 *pallidipalpana* Kft.
6913 *perdricana* Wlsh.
 kandana Kft.
 argillacea Meyr.
6914 *russeola* Heinr.
6915 *luridana* Wlsh.
6916 *consociana* Heinr.
6917 *irroratana* Wlsh.
6918 *subflavana* Wlsh.
6919 *handana* Kft.
 ceramitis Meyr.
6920 *sepulchrana* Meyr.
6921 *immaculana* Kft.
6922 *maculatana* Wlsh.
6923 *sonomana* Kft.
6924 *gloriola* Heinr.
6925 *bobana* Kft.
 antichroma Meyr.
6926 *cocana* Kft.
 rhodophaea Meyr.
6927 *rescissoriana* Heinr.
6928 *monitorana* Heinr.
6929 *tocullionana* Heinr.
6930 *momana* Kft.
 metaschista Meyr.
6931 *grotiana* Kft.
6932 *palabundana* Heinr.
6933 *lolana* Kft.
 leucomalla Meyr.
6934 *dodana* Kft.
 spilophora Meyr.
6935 *fofana* Kft.
 annulata Meyr.
6936 *invicta* Wlsh.
6937 *eburata* Heinr.
6938 *subinvicta* Kft.
6939 *snyderana* Kft.
6940 *emaciatana* Wlsh.
6941 *totana* Kft.
 spodias Meyr.

- 6942 *persolita* *Heinr.*
- 6943 *popana* *Kft.*
carcharias *Meyr.*
- 6944 *matutina* *Grt.*
- 6945 *larana* *Wlsh.*
- 6946 *excluseriana* *Heinr.*
- 6947 *daemoniana* *Heinr.*
- 6948 *heinrichi* *McD.*
- 6949 *occipitana* *Zell.*
- 6950 *reversana* *Kft.*
- 6951 *perpropinqua* *Heinr.*
- 6952 *tahoensis* *Heinr.*
a subditiva *Heinr.*
- 6953 *shastana* *Wlsh.*
- 6954 *palpana* *Wlsh.*
- 6955 *grandiflavana* *Wlsh.*
- 6956 *hyponomeutana* *Wlsh.*
- 6957 *giganteana* *Riley*
a minorata *Heinr.*
- 6958 *bipunctella* *Wlk.*
worthingtoniana *Fern.*
- 6959 *bilineana* *Kft.*
- 6960 *denverana* *Kft.*
- 6961 *fuscosparsa* *Wlsh.*
- 6962 *mediostriata* *Wlsh.*
- 6963 *excerptionana* *Heinr.*
- 6964 *abstemia* *Meyr.*
‡bactrana *Heinr.*
- 6965 *diplagata* *Wlsh.*
- 6966 *primulana* *Wlsh.*
- 6967 *gomonana* *Kft.*
discipula *Meyr.*
- 6968 *dilatana* *Wlsh.*
- 6969 *nandana* *Kft.*
chersaea *Meyr.*
- 6970 *landana* *Kft.*
isospora *Meyr.*
- 6971 *simplex* *McD.*
- 6972 *dorsisignatana* *Clem.*
distigmata *Wlk.*
clavana *Zell.*
a diffusana *Kft.*
b similana *Clem.*
confluana *Kft.*
c engelana *Kft.*
- 6973 *graduatana* *Wlsh.*
- 6974 *juncticiliana* *Wlsh.*
- 6975 *derelicta* *Heinr.*
- 6976 *excusabilis* *Heinr.*
- 6977 *eumaea* *Meyr.*
wandana *Kft.*
- 6978 *mandana* *Kft.*
amanda *Meyr.*
- 6979 *fulminana* *Wlsh.*
- 6980 *rusticana* *Kft.*
- 6981 *mobilensis* *Heinr.*
- 6982 *sombreana* *Kft.*
phlaeodes *Meyr.*
- 6983 *pandana* *Kft.*
sardiopa *Meyr.*
- 6984 *fiskeana* *Kft.*
- 6985 *corosana* *Wlsh.*
- 6986 *nuntia* *Heinr.*
- 6987 *inquadrana* *Wlsh.*
- 6988 *pulveratana* *Wlsh.*
- 6989 *consobrinana* *Heinr.*
- 6990 *aspidana* *Wlsh.*
- 6991 *hohona* *Kft.*
syrtodes *Meyr.*
- 6992 *biquadrana* *Wlsh.*
- 6993 *palousana* *Kft.*
- 6994 *mirosignata* *Heinr.*

6995 suadana *Heinr.*
 6996 canana *Wlsh.*
 6997 expolitana *Heinr.*
 6998 rorana *Kft.*
 sceletopa *Meyr.*
 6999 metariana *Heinr.*
 7000 passerana *Wlsh.*
 7001 zomonana *Kft.*
 explosa *Meyr.*
 7002 womonana *Kft.*
 semnitis *Meyr.*
 7003 vandana *Kft.*
 pholas *Meyr.*
 7004 cataclystiana *Wlk.*
 ochreana *Clem.*
 7005 conspiciendana *Heinr.*
 7006 floridana *Kft.*
 7007 petalonota *Meyr.*
 7008 urnigera *Meyr.*
 7009 fuscana *Kft.*
 7010 resumptana *Wlk.*
 7011 liturana *Wlsh.*

Epiblema *Hbn.*

7012 boxcana *Kft.*
 aspista *Meyr.*
 7013 serangias *Meyr.*
 vomonana *Kft.*
 7014 strenuana *Wlk.*
 exvagana *Wlk.*
 flavocellana *Clem.*
 subversana *Zell.*
 minutana *Kft.*
 antaxia *Meyr.*
 7015 abruptana *Wlsh.*
 7016 numerosana *Zell.*
 7017 grossbecki *Heinr.*

7018 praesumptiosa *Heinr.*
 a separationis *Heinr.*
 7019 deflexana *Heinr.*
 7020 ochraceana *Fern.*
 7021 sosana *Kft.*
 pelina *Meyr.*
 7022 insidiosana *Heinr.*
 7023 symbolaspis *Meyr.*
 7024 exacerbatricana *Heinr.*
 7025 tripartitana *Zell.*
 7026 benignata *McD.*
 7027 scudderiana *Clem.*
 saligneana *Clem.*
 affusana *Zell.*
 7028 kennebecana *Kft.*
 7029 discretivana *Heinr.*
 7030 obfusca *Dyar*
 7031 desertana *Zell.*
 7032 carolinana *Wlsh.*
 7033 hirsutana *Wlsh.*
 7034 purpurissatana *Heinr.*
 gratuitana *Heinr.*
 7035 walsinghami *Kft.*
 7036 periculosana *Heinr.*
 7037 iowana *McD.*
 7038 lyallana *McD.*
 7039 infelix *Heinr.*
 7040 suffusana *Zell.*
 7041 dorsisuffusana *Kft.*
 7042 illotana *Wlsh.*
 7043 culminana *Wlsh.*
 7044 otiosana *Clem.*
 inclinana *Zell.*
 7045 brightonana *Kft.*
 7046 tandana *Kft.*
 trapezitis *Meyr.*

7047 abbreviatana *Wlshm.*

Suleima Heinr.

7048 helianthana *Riley*

7049 daracana *Kft.*
profana Meyr.

7050 skinnerana *Heinr.*

7051 lagopana *Wlshm.*

7052 baracana *Kft.*
caracana Kft.
oxyleuca Meyr.
famosa Meyr.

7053 cinerodorsana *Heinr.*

Sonia Heinr.

7054 constrictana *Zell.*

7055 canadana *McD.*

7056 vovana *Kft.*
fraternana Busck
typicodes Meyr.

7057 filiana *Busck*

Gypsonoma Meyr.

7058 fasciolana *Clem.*
blakeana Grt.

7059 nebulosana *Pack.*

7060 parryana *Curt.*

7061 haimbachiana *Kft.*

7062 substitutionis *Heinr.*

7063 salicicolana *Clem.*
saliciana Clem.

7064 adjuncta *Heinr.*

Proteoteras Riley

7065 aesculana *Riley*

7066 implicata *Heinr.*

7067 willingana *Kft.*

7068 crescentana *Kft.*

7069 naracana *Kft.*
praesinospila Meyr.

7070 moffatiana *Fern.*

7071 arizonae *Kft.*

7072 obnigrana *Heinr.*

Zeiraphera Treit.

7073 claypoleana *Riley*
†instrutana Clay.

7074 ratzeburgiana *Ratz.*

7075 diniana *Gn.*
pinicolana Zell.
pseudotsugana Kft.

7076 vancouverana *McD.*

7077 fortunana *Kft.*

Exentera Grt.

7078 improbana *Wlk.*
diffinana Wlk.
cressoniana Clem.
apriliana Grt.
a oregonana *Wlshm.*

7079 senatrix *Heinr.*

7080 spoliانا *Clem.*
? destitutana Wlk.

7081 perstructana *Wlk.*

7082 haracana *Kft.*
resoluta Meyr.

7083 faracana *Kft.*
ultrix Meyr.

7084 maracana *Kft.*
praescripta Meyr.

7085 habrosana *Heinr.*

7086 costumaculana *Clem.*
bipustulana Wlk.

7087 virginiana *Clem.*

Gretchena Heinr.

7088 deludana *Clem.*

7089 concubitana *Heinr.*

7090 watchungana *Kft.*

7091 dulciana *Heinr.*

7092 bolliana *Sling.*

7093 amatana *Heinr.*

7094 delicatana *Heinr.*

7095 biangulana *Wlshm.*

7096 semialba *McD.*

Griselda *Heinr.*

7097 radicana *Wlshm.*

7098 pennsylvaniana *Kft.*

7099 gerulae *Heinr.*

Gwendolina *Heinr.*

7100 concitaticana *Heinr.*

Crociosema *Zell.*

7101 plebeiana *Zell.*

Norma *Heinr.*

7102 dietziana *Kft.*

Kundrya *Heinr.*

7103 finitimana *Heinr.*

Hendecaneura *Wlshm.*

7104 shawiana *Kft.*

Rhopobota *Led.*

7105 naevana *Hbn.*

ilicifoliana *Kft.*

a geminana *Steph.*

vacciniana *Pack.*

luctiferana *Wlk.*

Epinotia *Hbn.*

7106 similana *Hbn.*

bimaculana *Don.*

7107 sperana *McD.*

7108 myricana *McD.*

7109 solandriana *Linn.*

7110 ethnica *Heinr.*

7111 pulsatillana *Dyar*
a siskiyouensis *Heinr.*

7112 medioviridana *Kft.*

7113 perplexana *Fern.*

7114 castaneana *Wlshm.*

7115 johnsonana *Kft.*

7116 madderana *Kft.*

7117 laracana *Kft.*
navalis *Meyr.*

7118 vertumnana *Zell.*
celtisana *Riley*

7119 zandana *Kft.*
peristicta *Meyr.*

7120 xandana *Kft.*
yandana *Kft.*
atacta *Meyr.*
nothrodes *Meyr.*

7121 albicapitana *Kft.*

7122 hopkinsana *Kft.*
a cupressi *Heinr.*

7123 subviridis *Heinr.*

7124 fumoviridana *Heinr.*

7125 subplicana *Wlshm.*

7126 improvisana *Heinr.*

7127 basipunctana *Wlshm.*

7128 rectiplicana *Wlshm.*

7129 corylana *McD.*

7130 solicitana *Wlk.*
packardiana *Clem.*
tephrinana *Zell.*

7131 hamptonana *Kft.*

7132 nisella *Clerck*
form criddleana *Kft.*

- 7133 *albangulana* *Wlsh.*
7134 *walkerana* *Kft.*
7135 *transmissana* *Wlk.*
7136 *removana* *McD.*
7137 *momonana* *Kft.*
 sanifica *Meyr.*
7138 *terracoctana* *Wlsh.*
7139 *miscana* *Kft.*
 semalea *Meyr.*
7140 *silvertoniensis* *Heinr.*
7141 *marmoreana* *Heinr.*
7142 *digitana* *Heinr.*
7143 *nigralbanoidana* *McD.*
7144 *nigralbana* *Wlsh.*
7145 *ruidosana* *Heinr.*
7146 *heucherana* *Heinr.*
7147 *sagittana* *McD.*
7148 *emarginana* *Wlsh.*
7149 *crenana* *Hbn.*
 columbia *Kft.*
 form albidorsana *Kft.*
 form mediotriana *Kft.*
7150 *cercocarpana* *Dyar*
7151 *bigemina* *Heinr.*
7152 *bicordana* *Heinr.*
7153 *arctostaphylana* *Kft.*
7154 *keiferana* *Lange*
7155 *unica* *Heinr.*
7156 *infusca* *Wlsh.*
7157 *timidella* *Clem.*
7158 *acriella* *Clem.*
 signatana *Clem.*
 variana *Clem.*
 subnisana *Zell.*
7159 *nonana* *Kft.*
 carphologa *Meyr.*
- 7160 *normanana* *Kft.*
7161 *nanana* *Treit.*
 domonana *Kft.*
 piceafoliana *Kft.*
 efficax *Meyr.*
7162 *meritana* *Heinr.*
7163 *lomonana* *Kft.*
 veneratrix *Meyr.*
7164 *purpuriciliana* *Wlsh.*
7165 *medioplagata* *Wlsh.*
7166 *plumbolineana* *Kft.*
 a russata *Heinr.*
7167 *cruciana* *Linn.*
 augustana *Hbn.*
 direptana *Wlk.*
 vilisana *Wlk.*
 cockleana *Kft.*
 a alaskae *Heinr.*
 b lepida *Heinr.*
7168 *septemberana* *Kft.*
7169 *vagana* *Heinr.*
7170 *seorsa* *Heinr.*
7171 *kasloana* *McD.*
7172 *lindana* *Fern.*
7173 *trossulana* *Wlsh.*
7174 *signiferana* *Heinr.*
- Anchylopera** *Steph.*
7175 *nubeculana* *Clem.*
7176 *subaequana* *Zell.*
 a kincaidiana *Fern.*
7177 *lamiana* *Clem.*
 ‡*discigerana* *Auct.*
7178 *discigerana* *Wlk.*
 metamelana *Wlk.*
 discoferana *Wlk.*
 ‡*spireaefoliana* *Auct.*
7179 *tenebrica* *Heinr.*
7180 *semiovana* *Zell.*

- 7181 *angulifasciana* Zell.
 intermediana Kft.
- 7182 *maritima* Dyar
- 7183 *spireaefoliana* Clem.
- 7184 *burgessiana* Zell.
 murtfeldtiana Riley
 a pruni Heinr.
- 7185 *mira* Heinr.
- 7186 *furvescens* Heinr.
- 7187 *laciniana* Zell.
- 7188 *fuscociliana* Clem.
 dubiana Clem.
- 7189 *platanana* Clem.
 marcidana Zell.
- 7190 *pulchellana* Clem.
- 7191 *brauni* Heinr.
- 7192 *definitivana* Heinr.

Ancylis Hbn.

- 7193 *comptana* Froh.
 conflexana Wlk.
 a cometana Wlsh.
 b fragariae Walsh & Riley
 amblygona Zell.
 c floridana Zell.
- 7194 *divisana* Wlk.
- 7195 *apicana* Wlk.
- 7196 *muricana* Wlsh.
 a cornifoliana Riley
- 7197 *carbonana* Heinr.
 ‡uncana Auct.
- 7198 *diminutana* Haw.
 diminuatana Kft.
- 7199 *goodelliana* Fern.
- 7200 *albfascia* Heinr.
- 7201 *unguicella* Linn.
 plagosana Clem.
- 7202 *pacificana* Wlsh.

- 7203 *mediofasciana* Clem.
- 7204 *torontana* Kft.
- 7205 *tineana* Hbn.
 ocellana Clem.
 leucophaleratana Pack.
- 7206 *albacostana* Kft.

Hystriophora Wlsh.

- 7207 *leonana* Wlsh.
 a aurantiana Wlsh.
- 7208 *paradisiae* Heinr.
- 7209 *stygiana* Dyar
 a californiae Heinr.
- 7210 *roessleri* Zell.
- 7211 *ostentatrix* Heinr.
- 7212 *asphodelana* Kft.
 a seraphicana Heinr.
- 7213 *taleana* Grt.
- 7214 *ochreicostana* Wlsh.
- 7215 *loricana* Grt.
- 7216 *decorosa* Heinr.
- 7217 *vestaliana* Zell.

LASPEYRESIINAE

Goditha Heinr.

- 7218 *bumeliana* Heinr.

Dichrorampha Gn.

- 7219 *kana* Busck
 planiloqua Meyr.
- 7220 *capitana* Busck
- 7221 *britana* Busck
 ‡alpinana Fern.
- 7222 *simulana* Clem.
 aurisignana Zell.
- 7223 *bittana* Busck
- 7224 *incanana* Clem.
 nigromaculana Kft.

- 7225 *vancouverana* McD.
 7226 *radicicolana* Wlsh.
 7227 *banana* Busck
 sordescens Meyr.
 7228 *piperana* Busck
 7229 *sedatana* Busck
 †*plumbana* Fern.
 7230 *dana* Kft.
 aequorea Meyr.
 a bradorensis McD.
 7231 *leopardana* Busck

Satronia Heinr.

- 7232 *tantilla* Heinr.

Ricula Heinr.

- 7233 *maculana* Fern.

Talponia Heinr.

- 7234 *plummeriana* Busck

Hemimene Hbn.

- 7235 *oclifera* Heinr.
 7236 *felicitata* Heinr.
 7237 *signifera* Heinr.
 7238 *paula* Heinr.
 7239 *bowmanana* McD.

Ethelgoda Heinr.

- 7240 *texanana* Wlsh.

Sereda Heinr.

- 7241 *lautana* Clem.
 perfluana Zell.

Grapholitha Treit.

- 7242 *molesta* Busck
 7243 *libertina* Heinr.
 7244 *packardi* Zell.
 pyricolana Murt.

- 7245 *prunivora* Walsh.
 7246 *angleseana* Kft.
 7247 *caeruleana* Wlsh.
 zana Kft.
 vana Kft.
 xanthospora Meyr.
 eoleuca Meyr.
 7248 *vitrana* Wlsh.
 7249 *fana* Kft.
 oenochroa Meyr.
 7250 *conversana* Wlsh.
 wana Kft.
 cupida Meyr.
 7251 *imitativa* Heinr.
 7252 *lunatana* Wlsh.
 7253 *eclipsana* Zell.
 7254 *interstinctana* Clem.
 scitana Wlk.
 distema Grt.
 7255 *edwardsiana* Kft.
 7256 *lana* Kft.
 placera Kft.
 vancouverana Kft.
 chrysotypa Meyr.
 7257 *dyarana* Kft.
 7258 *tristrigana* Clem.
 saundersana Kft.

Ofatulena Heinr.

- 7259 *duodecemstriata* Wlsh.
 7260 *luminosa* Heinr.

Laspeyresia Hbn.

- 7261 *bracteatana* Fern.
 pallidibasalis Heinr.
 a cornutana Dyar
 7262 *laricana* Busck
 7263 *rana* Forbes
 7264 *inopiosa* Heinr.
 7265 *confusana* McD.
 7266 *obnisa* Heinr.

7267 *parmatana* Clem.
 7268 *larimana* Wlshm.
 7269 *garacana* Kft.
 septicola Meyr.
 7270 *membrosa* Heinr.
 7271 *multilineana* Kft.
 7272 *ingrata* Heinr.
 7273 *albimaculana* Fern.
 articulatana Kft.
 7274 *palmetum* Heinr.
 7275 *populana* Busck
 7276 *youngana* Kft.
 7277 *nigricana* Steph.
 dandana Kft.
 ratifera Meyr.
 novimundi Heinr.
 7278 *candana* Forbes
 7279 *grandicula* Heinr.
 7280 *caryana* Fitch
 caryae Shimer
 7281 *fletcherana* Kft.
 7282 *tana* Kft.
 cirrhos Meyr.
 7283 *cupressana* Kft.
 7284 *prosperana* Kft.
 †*succedana* Wlshm.
 7285 *costastrigulana* McD.
 7286 *leucobasis* Busck
 7287 *gallaesaliciana* Riley
 7288 *lautiuscula* Heinr.
 7289 *flexiloqua* Heinr.

7290 *americana* Wlshm.
 7291 *flavicollis* Wlshm.
 7292 *ninana* Dyar
 7293 *colorana* Kft.
 7294 *erotella* Heinr.
 7295 *toreuta* Grt.
 7296 *ingens* Heinr.
 7297 *piparana* Kft.
 7298 *miscitata* Heinr.

Hedulia Heinr.

7299 *injectiva* Heinr.

Melissopus Riley

7300 *latiferreanus* Wlshm.
 aurichalceana Riley
 inquilina Kft.

Carpocapsa Treit.

7301 *pomonella* Linn.
 pomonana Treit.
 a simpsoni Busck

Gymnandrosoma Dyar

7302 *punctidiscanum* Dyar
 7303 *desotanum* Heinr.

Ecdytolopha Zell.

7304 *insiticihana* Zell.
 7305 *mana* Kft.
 thaliastis Meyr.
 7306 *islandana* Kft.
 insulicola Meyr.

TORTRICIDAE

Coelostathma Clem.

7307 *discopunctana* Clem.

Adoxophyes Meyr.

7308 *furcatana* Wlk.
 7309 *negundana* McD.

Homona Wlk.

- 7310 fervidana Wlk.
rileyana Grt.
 7311 patulana Wlk.
audaculana Busck

Amorbia Clem.

- 7312 cuneana Wlsh.
a adumbrana Wlsh.
 7313 synneurana B. & Bsk.
 7314 humerosana Clem.
 7315 essigana Busck

Synnoma Wlsh.

- 7316 lynosyrana Wlsh.

Sparganothis Hbn.

- 7317 pettitana Rob.
 7318 groteana Fern.
 7319 niveana Wlsh.
 7320 albicaudana Busck
 7321 pulcherrimana Wlsh.
 7322 karacana Kft.
tempestriva Meyr.
 7323 reticulatana Clem.
subauratana Wlk.
a mesospila Zell.
 7324 ferreana Busck
 7325 diluticostana Wlsh.
quercana Fern.
 7326 directana Wlk.
 7327 testulana Zell.
 7328 distincta Wlsh.
 7329 saracana Kft.
austera Meyr.
 7330 demissana Wlsh.

- 7331 chambersana Kft.
 7332 cana Rob.
 7333 irrorea Rob.
 7334 xanthoides Wlk.
a breviornatana Clem.
 7335 flavibasana Fern.
 7336 violaceana Rob.
 7337 unifasciana Clem.
puritana Rob.
 7338 vocaridorsana Kft.
 7339 machimiana B. & Bsk.
 7340 hydeana Klots
 7341 inconditana Wlsh.
 7342 rudana Wlsh.
 7343 senecionana Wlsh.
 7344 umbrana B. & Bsk.
 7345 californiana Wlsh.
 7346 pilleriana Schiff.
luteolana Hbn.
 7347 tunicana Wlsh.
 7348 caryae Rob.
 7349 sulfureana Clem.
gratana Wlk.
fulvoroseana Clem.
virginiana Clem.
gallivorana Clem.
gracilana Wlsh.
a belfrageana Zell.
 7350 euphronopa Meyr.
 7351 lycopodiana Kft.
 7352 taracana Kft.
procax Meyr.
 7353 yumana Kft.
 7354 striata Wlsh.
 7355 bistriata Kft.
 7356 tristriata Kft.

Platynota Clem.*Phylacteritis* Meyr.

- 7357 flavedana Clem.
conkursana Wlk.
laterana Rob.
- 7358 tinctana Wlk.
- 7359 semiustana Wlsh.
Wlsh.
- 7360 labiosana Zell.
- 7361 rostrana Wlk.
- 7362 nigrocervina Wlsh.
Wlsh.
- 7363 wenzelana Haim.
- 7364 metallicana Wlsh.
Wlsh.
- 7365 iridana B. & Bsk.
- 7366 viridana B. & Bsk.
- 7367 stultana Wlsh.
chiquitana B. & Bsk.
- 7368 exasperatana Zell.
- 7369 idaeusalis Wlk.
sentana Clem.
dioptrica Meyr.

Pandemis Hbn.

- 7370 canadana Kft.
- 7371 pyrusana Kft.
pyrana Meyr.
- 7372 albaniana Wlk.
obliquana Kft.
- 7373 limitata Rob.
- 7374 lamprosana Rob.

Chrysoxena Meyr.

- 7375 auriferana Busck

Capua Steph.

- 7376 lentiginosana Wlsh.
Wlsh.

Archips Hbn.*Cacoecia* Hbn.

- 7377 dissitana Grt.

- 7378 persicana Fitch
blandana Clem.
fragariana Pack.
conigerana Zell.
? schreberiana Steph.

- 7379 infumatana Zell.

- 7380 brauniana Kft.

- 7381 obsoletana Wlk.
transiturana Wlk.
vesperana Clem.
sanbornana Rob.

- 7382 seminolana Kft.

- 7383 fervidana Clem.
paludana Rob.

- 7384 cerasivorana Fitch

- 7385 georgiana Wlk.

- 7386 houstonana Grt.
retana Wlsh.

- 7387 retiniana Wlsh.

- 7388 argyrospila Wlk.
furvana Rob.
v-signatana Pack.
a vividana Dyar
b columbiana McD.

- 7389 mortuana Kft.

- 7390 eleagnana McD.

- 7391 myricana McD.

- 7392 carnana B. & Bsk.

- 7393 semiferana Wlk.
flaccidana Rob.

- 7394 negundana Dyar

- 7395 lambertiana Busck

- 7396 fractivittana Clem.
fumosa Rob.

- 7397 melaleucana Wlk.
inverana Wlk.
semifuscana Clem.
? biustulana Steph.

- 7398 rosana Linn.
hewittana Bsk.

- 7399 *purpurana* Clem.
 gurgitana Rob.
 linteriana Grt.
- 7400 *magnoliana* Fern.
- 7401 *parallela* Rob.
- 7402 *zapulata* Rob.
- 7403 *symphoricarpana* Kft.
- 7404 *arctica* Moesch.
 kukakana Kft.
- 7405 *rosaceana* Harris
 vicariana Wlk.
 gossypiana Pack.
- 7406 *striana* Fern.
- 7407 *conflictana* Wlk.
- 7408 *fumiferana* Clem.
 nigridia Rob.

Tortrix Linn.

- 7409 *lata* Rob.
- 7410 *pallorana* Rob.
- 7411 *clemensiana* Fern.
 nervosana Kft.
- 7412 *dimorphana* B. & Bsk.
- 7413 *victoriana* Bsk.
- 7414 *citrana* Fern.
- 7415 *alleniana* Fern.
 trentonana McD.
- 7416 *flavidana* McD.
- 7417 *lomonana* Kft.
 veneratrix Meyr.
- 7418 *packardiana* Fern.
- 7419 *ivana* Fern.
- 7420 *peritana* Clem.
 inconclusana Wlk.
- 7421 *purata* Meyr.
- 7422 *baboquavariana* Kft.
- 7423 *virescana* Clem.
 sescuplana Zell.

- 7424 *glaucana* Wlshm.
- 7425 *busckana* Keif.
- 7426 *franciscana* Wlshm.
- 7427 *triangulana* Kft.
- 7428 *wellingtoniana* Kft.
- 7429 *gogana* Kft.
 crepuscularis Meyr.
- 7430 *provana* Kft.
 invidana B. & Bsk.
- 7431 *cockerellana* Kft.
- 7432 *dorsalana* Dyar
- 7433 *fucana* Wlshm.
- 7434 *semicirculana* Fern.
- 7435 *peroneana* B. & Bsk.
- 7436 *musculana* Hbn.
- 7437 *moeschleriana* Wocke
 algidana Moesch.
 gelidana Moesch.
- 7438 *grisea* Rob.
- 7439 *afflictana* Wlk.
 fuscolineana Clem.
- 7440 *alberta* McD.

Batodes Gn.

- 7441 *angustiorana* Haw.

Eulia Hbn.

- 7442 *ministrana* Linn.
 ferrugana Hbn.
 subfascianus Steph.

Argyrotaenia Hbn.

- 7443 *velutinana* Wlk.
 triferana Wlk.
 incertana Clem.
- 7444 *lutosana* Clem.
- 7445 *pinatubana* Kft.

- 7446 *amatana* Dyar
 7447 *coloradana* Fern.
 7448 *gloverana* Wlsh. m.
 7449 *niscana* Kft.
 camerata Meyr.
 7450 *mariana* Fern.
 7451 *alisellana* Rob.
 7452 *quercifoliana* Fitch
 trifurculana Zell.
 7453 *quadrifasciana* Fern.
 7454 *juglandana* Fern.

Tortricodes Gn.

- 7455 *horariana* Wlsh. m.
 7456 *fragariana* Bsk.
 elapsa Meyr.

Acroplectis Meyr.

- 7457 *haemanthes* Meyr.

Cnephasia Curt.

- 7458 *osseana* Scop.
 a niveosana Pack.
 7459 *argentana* Cl.
 georgiella Hlst.
 7460 *fernaldana* Wlsh. m.
 7461 *arizonana* Wlsh. m.
 7462 *ednana* Kft.
 7463 *listerana* Kft.
 7464 *basiplagana* Wlsh. m.
 7465 *indivisana* Wlk.
 7466 *oleraceana* Gib.

Argyrotoxa Steph.

- 7467 *chioccana* Kft.
 chiococcana Meyr.
 7468 *bergmanniana* Linn.
 rosana Hbn.

- 7469 *albicomana* Clem.
 7470 *semipurpurana* Kft.
 form dorsipurpurana Kft.
 7471 *curvalana* Kft.

Peronea Curt.

- 7472 *emargana* Fabr.
 caudana Fabr.
 7473 *maccana* Tr.
 fishiana Fern.
 7474 *ptychogrammos* Zell.
 7475 *nigrolinea* Rob.
 a ferruginiguttana Fern.
 7476 *maximana* B. & B.
 7477 *caliginosana* Wlk.
 7478 *latifasciana* Haw.
 ‡*shalleriana* Auct.
 a comparana Hbn.
 7479 *schalleriana* Linn.
 ‡*logiana* Auct.
 viburnana Clem.
 famula Zell.
 7480 *oxycoccana* Pack.
 7481 *variana* Fern.
 a angusana Fern.
 7482 *chalybeana* Fern.
 7483 *senescens* Zell.
 7484 *hastiana* Linn.
 7485 *celiana* Rob.
 form albilineana Kft.
 7486 *pulverosana* Wlk.
 7487 *walkerana* McD.
 7488 *caryosphena* Meyr.
 7489 *variegana* Schiff.
 7490 *robinsoniana* Forbes
 ‡*flavivittana* Rob.
 form clemensiana Kft.
 7491 *flavivittana* Clem.
 form perspicuana Rob.

- 7492 *youngana* McD.
7493 *britannia* Kft.
7494 *fragariana* Kft.
7495 *inana* Rob.
7496 *busckana* McD.
7497 *maculidorsana* Clem.
hypericana Ely..
7498 *scabrana* D. & S.
7499 *lipsiana* D. & S.
7500 *hudsoniana* Wlk.
♀ *implexana* Wlk.
brewsteriana Rob.
7501 *bowmanana* McD.
7502 *minuta* Rob.
vacciniivorana Pack.
malivorana LeB.
variolana Zell.
form cinderella Riley
7503 *logiana* Linn.
niveana Fabr.
placidana Rob.
form trisignana Rob.
tripunctana Shel.
7504 *nivisellana* Wlsh. m.
7505 *cervinana* Fern.
form americana Fern.
7506 *comandrana* Fern.
7507 *subnivana* Wlk.
deflectana Rob.
peculiana Zell.
7508 *braunana* McD.
7509 *kearfottana* McD.
7510 *simpliciana* Wlsh. m.
7511 *forbesana* McD.
7512 *fusca* B. & Bsk.
7513 *ferrugana* D. & S.
7514 *semiannula* Rob.
stadiana B. & Bsk.
7515 *gallicolana* Clem.
form heindelana Fern.
7516 *cornana* McD.
7517 *contaminana* Hbn.
reticulata Pierce & Met.
7518 *foliana* Wlsh. m.

PHALONIIDAE

- Phalonia** Hbn.
7519 *floccosana* Wlk.
confusana Rob.
7520 *atomosana* Busck.
7521 *spartinana* B. & McD.
7522 *hospes* Wlsh. m.
7523 *straminoides* Grt.
7524 *zaracana* Kft.
7525 *schwarziana* Busck
7526 *plummeriana* Busck
7527 *scissana* Wlk.
7528 *smeathmanniana* Fabr.
7529 *kindermannana* Tr.
7530 *deutschiana* Zett.
fuscostrigana Clem.
chalcana Pack.
7531 *felix* Wlsh. m.
7532 *romonana* Kft.
officiosa Meyr.
7533 *louisiana* Busck
7534 *formonana* Kft.
myrinitis Meyr.
7535 *cephalanthana* Heinr.
7536 *rutilana* Hbn.
7537 *seriatana* Zell.
7538 *intactana* Wlsh. m.
7539 *angustana* Clem.
dorsimaculana Rob.

- | | | | |
|------|---|-------|---|
| 7540 | <i>promptana</i> Rob. | 7567 | <i>oenotherana</i> Riley |
| 7541 | <i>obliquana</i> Kft. | 7568 | <i>latipunctana</i> Wlshm. |
| 7542 | <i>angulatana</i> Rob. | 7569 | <i>dilutana</i> Wlshm. |
| 7543 | <i>bomonana</i> Kft.
<i>cyamitis</i> Meyr. | 7570 | <i>nana</i> Haw.
<i>carneana</i> Gn.
<i>ochreoalbana</i> Wlk. |
| 7544 | <i>rana</i> Busck
<i>funesta</i> Meyr. | 7571 | <i>campicolana</i> Wlshm. |
| 7545 | <i>argentilimitana</i> Rob. | 7572 | <i>parvimaculana</i> Wlshm. |
| 7546 | <i>labeculana</i> Rob. | 7573 | <i>vachelliana</i> Kft. |
| 7547 | <i>parallelana</i> Wlshm. | 7574 | <i>hubbardana</i> Busck |
| 7548 | <i>transversana</i> Wlshm. | 7575 | <i>leguminana</i> Busck |
| 7549 | <i>pimana</i> Busck | 7576 | <i>glaucofuscana</i> Zell. |
| 7550 | <i>lepidana</i> Clem. | 7577 | <i>dorsistriatana</i> Wlshm. |
| 7551 | <i>sublepidana</i> Kft. | 7578 | <i>edwardsiana</i> Wlshm. |
| 7552 | <i>biscana</i> Kft.
<i>ixeuta</i> Meyr.
<i>a giscana</i> Kft. | 7579 | <i>fulvotinctana</i> Wlshm. |
| 7553 | <i>maiana</i> Kft. | 7580 | <i>nomonana</i> Kft.
<i>voluntaria</i> Meyr. |
| 7554 | <i>gunniana</i> Busck | 7581 | <i>temerana</i> Busck
<i>cinnatana</i> Kft. |
| 7555 | <i>voxcana</i> Kft.
<i>omphacitis</i> Meyr. | 7582 | <i>discana</i> Kft.
<i>cricota</i> Meyr. |
| 7556 | <i>interruptofasciana</i> Rob. | 7583 | <i>foxcana</i> Kft.
<i>liquida</i> Meyr. |
| 7557 | <i>aureana</i> Busck | *7584 | <i>albidana</i> Wlk.
<i>winniana</i> Kft. |
| 7558 | <i>bunteana</i> Rob. | 7586 | <i>grandis</i> Busck |
| 7559 | <i>hollandana</i> Kft. | 7587 | <i>yuccatana</i> Busck |
| 7560 | <i>viscana</i> Kft.
<i>peganitis</i> Meyr. | 7588 | <i>ziscana</i> Kft.
<i>fabicola</i> Meyr. |
| 7561 | <i>aurorana</i> Kft. | 7589 | <i>carmelana</i> Kft.
<i>a obispoana</i> Kft. |
| 7562 | <i>marloffiana</i> Busck
<i>nonlavana</i> Kft. | 7590 | <i>wiscana</i> Kft.
<i>acropeda</i> Meyr. |
| 7563 | <i>toxcana</i> Kft.
<i>baryzela</i> Meyr. | 7591 | <i>elderana</i> Kft.
<i>helonoma</i> Meyr. |
| 7564 | <i>lavana</i> Busck | | |
| 7565 | <i>punctadiscana</i> Kft. | | |
| 7566 | <i>zoxcana</i> Kft.
<i>telifera</i> Meyr. | | |

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*No number 7585

7592 basiochreana *Kft.*

7593 hoffmanana *Kft.*

Commophila Hbn.

7594 macrocarpana *Wlshm.*

7595 infernalis *Heinr.*

7596 comes *Wlshm.*

7597 fuscodorsana *Kft.*

7598 saxicolana *Wlshm.*

7599 contrastana *Kft.*

7600 bana *Kft.*
rhodites *Meyr.*

7601 huachucana *Kft.*

7602 umbrabasana *Kft.*

Pharmacis Hbn.

7603 sartana *Hbn.*

7604 bimaculana *Rob.*

7605 erigeronana *Riley*

7606 deceptana *Busck*

7607 mexicana *Busck*

7608 vitellinana *Zell.*

7609 argyoplaca *Meyr.*

Hysterosia Steph.

7610 fulviplacana *Wlshm.*
aegrana *Wlshm.*
homonana *Kft.*
refuga *Meyr.*
komonana *Kft.*
fermentata *Meyr.*

7611 aureoalbida *Wlshm.*

7612 canariana *B. & Bsk.*

7613 waracana *Kft.*
dicax *Meyr.*

7614 villana *Busck*

7615 cartwrightana *Kft.*

7616 terminana *Busck*
merrickana *Kft.*

7617 perspicuana *B. & Bsk.*

7618 birdana *Busck*

7619 riscana *Kft.*
vincta *Meyr.*

7620 pecosana *Kft.*

7621 baracana *Busck*
tiscana *Kft.*
vigilans *Meyr.*

7622 modestana *Busck*

CARPOSINIDAE

Bondia Newm.

7623 fidelis *Meyr.*

7624 crescentella *Wlshm.*

7626 nicholsana *Forbes*

7627 fernaldana *Busck*

7628 comonana *Kft.*
euryleuca *Meyr.*

Carposina H. S.

7625 ottawana *Kft.*

Tesuquea Klots

7629 hawleyana *Klots*

COSSIDAE

Inguromorpha Hy. Edw.

Pomeria *B. & McD.*

7630 itzalana *Stkr.*

7631 arcifera *Dyar*
gabriel *Dyar*

7632 basalis *Wlk.*
slossoni *Hy. Edw.*

Givira Wlk.

- 7633 *mucida* Hy. Edw.
 7634 *arbeloides* Dyar
 a rufescens B. & McD.
 7635 *theodori* Dyar
 kunzei Dyar
 7636 *durangona* Schaus
 7637 *carla* Dyar
 7638 *cornelia* N. & D.
 caerulea Dalla T.
 7639 *lucretia* B. & McD.
 7640 *ethela* N. & D.
 7641 *anna* Dyar
 7642 *marga* B. & McD.
 7643 *lotta* B. & McD.
 7644 *francesca* Dyar
 7645 *minuta* B. & McD.
 7646 *cleopatra* B. & McD.

Hypopta Hbn.

- 7647 *palmata* B. & McD.

Zeuzera Latr.

- 7648 *pyrina* L.

Hamilcara B. & McD.

- 7649 *ramuscula* Dyar
 7650 *atra* B. & McD.
 7651 *gilensis* B. & McD.

Cossula Bailey

- 7652 *magnifica* Stkr.
 magnifica Bailey

Toronia B. & McD.

- 7653 *perplexa* N. & D.
 7654 *luzena* Barnes

Fania B. & McD.

- 7655 *nanus* Stkr.

Heterocoma B. & McD.

- 7656 *albistriga* B. & McD.

Comadia B. & McD.

- 7657 *engelhardti* B. & B.
 7658 *dolli* B. & B.
 7659 *stabilis* B. & B.
 7660 *subterminata* B. & B.
 7661 *bertholdi* Grt.
 a fusca B. & B.
 b edwardi N. & D.
 7662 *intrusa* B. & B.
 7663 *polingi* B. & B.
 7664 *manfredi* Neum.
 7665 *henrici* Grt.

Acossus Dyar

- 7666 *centerensis* Lint.
 7667 *populi* Wlk.
 a angrezi Bailcy
 b orc Stkr.
 gencrosa Dyar
 7668 *undosus* Lint.
 brucei Frch.
 7669 *connectus* B. & McD.

Prionoxystus Grt.

- 7670 *robiniae* Peck
 ♀ *plagiatus* Wlk.
 ♂ *crepera* Harr.
 ab. ♀ *reticulatus* Lint.
 ab. ♀ *quercus* Ehrm.
 a zabolicus Stkr.
 b mixtus B. & B.
 c subnigrus B. & B.
 d flavotinctus B. & B.
 7671 *macmurtrei* Guer.
 querciperda Fitch

Superfamily **GELECHIOIDEA**

COSMOPTERYGIDAE

Synallagma Busck

7672 busckiella *Engel*

Chrysoclista Staint.

7673 vilrella *Busck*

Cosmopteryx Hbn.

7674 pulcherrimella *Cham.*

7675 clemensella *Staint.*

7676 gemmiferella *Clem.*

7677 attenuatella *Wlk.*
lespedezae *Wlsh.*

7678 ipomoeae *Busck*

7679 unicolorella *Wlsh.*

7680 quadrilineella *Cham.*

7681 opulenta *Braun*

7682 chalybaeella *Wlsh.*

7683 delicatella *Wlsh.*

7684 minutella *Beut.*

7685 fernaldella *Wlsh.*
floridanella *Beut.*
nigrapunctella *Busck*

7686 montisella *Cham.*

7687 nitens *Wlsh.*

7688 clandestinella *Busck*

7689 hermodora *Meyr.*

7690 magophila *Meyr.*

Tanygona Braun

7691 lignicolorella *Braun*

7692 albalineella *Cham.*

Periploca Braun

7693 purpuriella *Braun*

Teladoma Busck

7694 helianthi *Busck*

Batrachedra Staint.

Aetia *Cham.*

7695 bipunctella *Cham.*

7696 praeangusta *Haw.*
striolata *Zell.*
pulvella *Cham.*
clemensella *Cham.*

7697 concors *Meyr.*

7698 concitata *Meyr.*

7699 enormis *Meyr.*

7700 salicipomonella *Clem.*

7701 trichella *Busck*

7702 placendiella *Busck*

7703 mathesoni *Busck*

7704 knabi *Wlsh.*

Blastodacna Wocke

7705 curvilineella *Cham.*
bicristatella *Cham.*

Chrysopeleia Cham.

7706 ostryaella *Cham.*

7707 purpuriella *Cham.*

Amaurogramma Braun

7708 quadricristatella *Cham.*

7709 extensa *Braun*

Cystioecetes Braun

7710 nimbosus *Braun*

Ithome Cham.

‡*Eriphia* *Cham.*

7711 unimaculella *Cham.*

7712 concolorella *Cham.*

7713 nigrilineella *Cham.*

Stagmatophora H. S.

7714 ceanothiella *Cosens*

7715 iridella *Busck*

7716 sexnotella *Cham.*

7717 wyattella *B. & B.*

7718 niphochrysa *Meyr.*

7719 gleditschiaella *Cham.*

Perimede Cham.

7720 erransella *Cham.*

7721 particornella *Busck*

7722 falcata *Braun*

Pyroderces H. S.

7723 rileyi *Wlshm.*

Psacaphora H. S.

7724 cambiella *Busck*

7725 purpuriella *Busck*

7726 edithella *B. & B.*

7727 terminella *Westw.*
engelella *Busck*

7728 deceptella *Braun*

7729 sexstrigella *Braun*

7730 annulata *Braun*

7731 difficilis *Braun*

7732 communis *Braun*

7733 argentimaculella *Murt.*

7734 luciferella *Clem.*

7735 cephalanthiella *Cham.*

Homaledra Busck

7736 heptathalama *Busck*

7737 sabalella *Cham.*

Cyphophora H. S.

7738 tricristatella *Cham.*

grandisella *Cham.*

subiridescens *Wlshm.*

7739 passerella *Busck*

7740 eloisella *Clem.*

magnatella *Zell.*

oenotheraeella *Cham.*

lyonetiella *Cham.*

Stilbosis Clem.

7741 tesquella *Clem.*

quinquecristatella *Cham.*

Colonophora Meyr.

7742 sublustris *Meyr.*

Walshia Clem.

7743 amorphella *Clem.*

miscecalonella *Cham.*

Lymnaecia Staint.

7744 phragmitella *Staint.*

Mompha Hbn.

7745 albella *Cham.*

7746 albopalpella *Cham.*

7747 bifasciella *Cham.*

7748 brevivittella *Clem.*

oenotherivorella *Cham.*

oenotheraeseminella *Cham.*

7749 stellella *Busck*

7750 circumscriptella *Zell.*

7751 pecosella *Busck*

7752 coloradella *Cham.*

7753 definitella *Zell.*

unicristatella *Cham.*

7754 ignobilisella *Cham.*

- 7755 claudiella *Kft.*
 7756 minimella *Cham.*
 7757 murtfeldtella *Cham.*
 albocapitella *Cham.*
 grissaeella *Cham.*
 obscurusella *Cham.*
 parvicristatella *Cham.*
 7758 unifasciella *Cham.*

- 7759 rufocristatella *Cham.*
 7760 punctiferella *Busck*
 7761 nuptialis *Meyr.*
 7762 conturbatella *Hbn.*

Chaetocampa *Busck*

- 7763 crotonella *Bott.*

EPERMENIDAE

Epermenia *Hbn.*

- 7764 ramapoella *Kft.*
 7765 albapunetella *Busck*
 7766 canicinctella *Clem.*
 7767 pimpinella *Murt.*
 7768 cicutaella *Kft.*
 7769 alameda *Braun*

- 7770 infracta *Braun*
 7771 bidentata *Braun*
 7772 imperialella *Busck*
 7773 metrothetis *Meyr.*

Acanthodra *Meyr.*

- 7774 stolidota *Meyr.*

GELECHIIDAE

Nealyda *Dietz*

- 7775 pisoniae *Busck*
 7776 kinzelella *Busck*
 7777 bifidella *Dietz*

Neodactylota *Busck*

- 7778 snellenella *Cham.*
 7779 barberella *Busck*

Metzneria *Zell.*

- 7780 lappella *Linn.*

Megacraspedas *Zell.*

Autoneda *Busck*

- 7781 plutella *Cham.*

Isophrictis *Meyr.*

- 7782 tanacetella *Schr.*
 striatella *Hbn.*

- 7783 pallidistrigella *Cham.*
 7784 magnella *Busck*
 7785 cillialineella *Cham.*
 7786 pennella *Busck*
 7787 dietziella *Busck*
 7788 canicostella *Wlsh.*
 7789 actiella *B. & Bsk.*
 7790 occidentalis *Braun*
 7791 actinopa *Meyr.*
 7792 anteliella *Busck*
 7793 sabulella *Wlsh.*
 7794 similiella *Cham.*
 †*solaniella* *Cham.*
 piscipellis *Zell.*
 7795 rudbeckiella *Bott.*
 form denotata *Bott.*
 7796 tophella *Wlsh.*

7797 pallidella Cham.

7798 modesta Wlshn.

Stereomita Braun

7799 andropogonis Braun

Ptycerata Ely

7800 busckella Ely

Sitotroga Heinr.

7801 cerealella Oliv.

Aristotelia Hbn.

7802 perterrita Meyr

7803 monactis Meyr.

7804 placidella Zell.
natalella Busck

7805 disconotella Cham.

7806 angustipennella Clem.
kearfottella Busck

7807 gilvolineella Cham.

7808 harrisonella Busck

7809 discriminata Meyr.

7810 robusta Braun

7811 pullusella Cham.
minimella Cham.

7812 melanaphra Meyr.

7813 fragariae Busck

7814 absconditella Wlk.
palpiannulella Cham.

7815 physaliella Cham.

7816 palpialbella Cham.

7817 quinquepunctella Busck

7818 rubidella Clem.
cassella Wlk.

7819 calens Meyr.

7820 callirrhoda Meyr.

7821 lespedezae Braun

7822 salicifungiella Clem.

7823 fungivorella Clem.

7824 planitia Braun

7825 ivae Busck

7826 molestella Zell.

7827 pudibundella Zell.

7828 intermediella Cham.
rubensella Cham.

7829 urbaurea Keif.

7830 rhamnina Keif.

7831 adenostomae Keif.

7832 eldorado Keif.

7833 eumeris Meyr.

7834 roseosuffusella Clem.
bellula Wlk.

7835 devexella Braun

7836 psoraleae Braun

7837 rhoisella Busck

7838 adceanotha Keif.

7839 amelanchierella Braun

7840 bifasciella Busck

7841 lindanella B. & B.

7842 aquosa Meyr.
‡suffusella Cham.

7843 cockerella Busck

7844 elegantella Cham.
superbella Cham.

7845 monilella B. & Bsk.

7846 argentifera Busck

7847 primipilana Meyr.

7848 ochroxysta Meyr.

7849 hexacopa Meyr.

7850 iospora Meyr.

- 7851 *isopelta* *Meyr.*
 7852 *nigrobasiella* *Clarke*
 7853 *atacta* *Meyer.*

Chrysopora *Clem.*

- 7854 *lingulacella* *Clem.*
 ‡*hermannella* *Cham.*
 armeniella *F. & B.*
 7855 *hermannella* *Fabr.*
 7856 *versicolorella* *Kft.*

Enchrysa *Zell.*

- 7857 *dissectella* *Zell.*
 youngella *Kft.*

Numata *Busck*

- 7858 *bipunctella* *Busck*

Glauce *Cham.*

- 7859 *pectenalaella* *Cham.*

Leuce *Cham.*

- 7860 *fuscocristatella* *Cham.*
 belfragesella *Cham.*

Helice *Cham.*

Theisoa *Cham.*

- 7861 *pallidochrella* *Cham.*
 gleditschiaella *Cham.*
 permolestella *Busck*
 7862 *constrictella* *Zell.*
 bifasciella *Cham.*
 7863 *multifasciella* *Cham.*

Tosca *Heinr.*

- 7864 *plutonella* *Heinr.*
 7865 *pollostella* *Busck*
 7866 *elachistella* *Busck*

Evippe *Cham.*

- 7867 *prunifoliella* *Cham.*

- 7868 *leuconota* *Zell.*
 plutella *Cham.*

- 7869 *abdita* *Braun*

Agnippe *Cham.*

- 7870 *bicolorella* *Cham.*
 7871 *fuscopulvella* *Cham.*
 7872 *evippeella* *Busck*
 7873 *crinella* *Keif.*

Argyrolacia *Keif.*

- 7874 *bifida* *Keif.*

Recurvaria *Haw.*

- 7875 *obliquistrigella* *Cham.*
 7876 *juniperella* *Kft.*
 7877 *robiniella* *Fitch*
 fuscopallidella *Cham.*
 robiniaefoliella *Cham.*
 7878 *argentialbella* *Cham.*
 7879 *variella* *Cham.*
 7880 *apicitripunctella* *Clem.*
 atritella *Wlk.*
 abietisella *Pack.*
 7881 *eryngiella* *Bott.*
 7882 *colubrinae* *Busck*
 7883 *cristatella* *Cham.*
 7884 *citriella* *Cham.*
 7885 *moreonella* *Heinr.*
 7886 *milleri* *Busck*
 7887 *thujaella* *Kft.*
 7888 *coniferella* *Kft.*
 7889 *stanfordia* *Keif.*
 7890 *pinella* *Busck*
 7891 *condignella* *Busck*
 7892 *piceaella* *Kft.*
 form obscurella *Kft.*
 ‡*nigra* *Kft.*

- 7893 *gibsonella* Kft.
 7894 *alnifruetella* Busck
 7895 *dorsivittella* Zell.
 vagatioella Cham.
 7896 *quercivorella* Cham.
 gilviscopella Zell.
 7897 *invictella* Busck
 7898 *nanella* Hbn.
 crataegella Busck
 7899 *ceanothiella* Braun
 7900 *francisca* Keif.
 7901 *nigra* Busck
 7902 *consimilis* Braun
 7903 *graphicella* Busck
 7904 *bacchariella* Keif.
 7905 *stibomorpha* Meyr.
 7906 *vestigata* Meyr.
 7907 *taphiopis* Meyr.

Eucordylea Dietz

- 7908 *atrupictella* Dietz
 7909 *gallicola* Busck
 7910 *elucidella* B. & B.
 7911 *mackiei* Keif.
 7912 *huntella* Keif.

Exoteleia Wlgn.

- Paralechia* Busck
 7913 *pinifoliella* Cham.
 7914 *californica* Busck
 7915 *burkei* Keif.
 7916 *dodecella* Linn.

Trypanisma Clem.

- 7917 *prudens* Clem.
 quinqueannulella Cham.

- 7918 *fagella* Busck

Besciva Busck

- 7919 *longitudinella* Busck

Epithectis Meyr.

- 7920 *citrinella* B. & B.
 7921 *saundersella* Cham.
 7922 *gallaegenitella* Clem.
 geminella Riley
 7923 *attributella* Wlk.
 difficilisella Cham.
 7924 *sylvicolella* Busck
 7925 *bicostomaculella* Cham.
 thoracella Wlsh.
 7926 *osteosema* Meyr.
 7927 *oxymeris* Meyr.

Leucogonia Meyr.

- 7928 *subsimella* Clem.
 7929 *californica* Keif.
 7930 *distincta* Keif.

Arogalea Wlsh.

- 7931 *cristifasciella* Cham.
 inscripta Wlsh.

Telphusa Cham.

- 7932 *aethiops* Westw.
 quinquecristatella Cham.
 7933 *sedulitella* Busck
 agrifolia Braun
 7934 *basifasciella* Zell.
 7935 *glandiferella* Zell.
 sella Cham.
 7936 *betulella* Busck
 7937 *belangerella* Cham.
 oronella Wlsh.

7938 palliderosacella Cham.

7939 basistrigella Zell.

7940 caryaevorella Pack.

7941 quercinigracella Cham.
fragmentella Zell.

7942 querciella Cham.

7943 fasciella Cham.

7944 lophosella Busck

7945 sequax Haw.

7946 baldiana B. & Bsk.

7947 fuscopunctella Clem.

7948 amelanchierella Braun

7949 praefixa Braun

7950 acaciella Busck

7951 longifasciella Clem.
curvistrigella Cham.
obliquifasciella Cham.
lutraula Meyr.

7952 latifasciella Cham.

7953 alexandriaeella Cham.

7954 bicostomaculella Cham.
quercifoliella Cham.

7955 mariona Heinr.

Xenolechia Meyr.

7956 velatella Busck

7957 querciphaga Keif.

7958 ontariensis Keif.

Cremona Busck

7959 cotoneastri Busck

Gelechia Hbn.

7960 branella Busck

7961 metallica Braun

7962 clandestina Meyr.

7963 ceanothiella Busck
marinensis Keif.

7964 paralogella Busck

7965 trialbamaculella Cham.
epigaeella Cham.

7966 minimaculella Cham.

7967 argentipunctella Ely

7968 thoracealbella Cham.

7969 leucanieella Busck

7970 paraplutella Busck

7971 cercerisella Cham.
olympiadella Zell.

7972 quinella Zell.

7973 arizonella Busck

7974 lipatiella Busck

7975 bimaculella Cham.
ternariella Zell.
sylvaecolella Cham.

7976 coloradensis Busck

7977 viduella Fabr.
labradoriella Clem.

7978 fulmenella Busck
prorepta Meyr.

7979 albilorella Zell.
trifasciella Cham.

7980 lugubrella Fabr.

7981 dentella Busck

7982 sistrella Busck

7983 abdominella Busck

7984 xanthophilella B. & Bsk.

7985 coticola Busck

7986 depuratella Busck

7987 dromicella Busck

7988 triangulella Busck

7989 packardella Cham.

- 7990 unifasciella *Busck*
7991 paulella *Busck*
7992 kincaidella *Busck*
7993 catalinella *Busck*
7994 panella *Busck*
7995 aristella *Busck*
7996 morenella *Busck*
7997 ribesella *Cham.*
7998 mandella *Busck*
7999 nanodella *Busck*
8000 dyariella *Busck*
8001 albisparsella *Cham.*
platanella Cham.
8002 periculella *Busck*
8003 neotrophella *Heinr.*
8004 trophella *Busck*
8005 continuella *Zell.*
trimaculella Pack.
albomaculella Cham.
8006 unistrigella *Cham.*
8007 chloroschema *Meyr.*
8008 fructuaria *Braun*
8009 discostrigella *Cham.*
8010 trachycosma *Meyr.*
8011 bimorella *Busck*
8012 pseudofondella *Busck*
8013 fondella *Busck*
8014 terminimaculella *Kft.*
8015 clistrodoma *Meyr.*
8016 inaequalis *Busck*
8017 benitella *B. & Bsk.*
8018 malindella *Busck*
8019 lindenella *Busck*
8020 mediofuscella *Clem.*
vagella Wlk.
fuscochrella Cham.
lituroSELLa Zell.
rhedaria Meyr.
8021 walsinghami *Dietz*
8022 pennsylvanica *Dietz*
8023 longicornis *Curt.*
alternatella Kft.
8024 arenella *Forbes*
8025 petulans *Braun*
8026 abella *Busck*
8027 fuscotaeniaella *Cham.*
8028 texanella *Cham.*
chambersella Dyar
8029 invariabilis *Kft.*
8030 barnesiella *Busck*
8031 puertella *Busck*
8032 variabilis *Busck*
8033 diversella *Busck*
8034 striatella *Busck*
8035 rectistrigella *B. & Bsk.*
8036 figurella *Busck*
8037 bigella *Busck*
8038 bispiculata *Meyr.*
8039 bistrigella *Cham.*
8040 xyloglypta *Meyr.*
8041 flavicorporella *Wlsh.*
8042 desiliens *Meyr.*
8043 ochreosuffusella *Cham.*
depressostrigella Cham.
8044 ochrefuscella *Cham.*
8045 ochreostrigella *Cham.*
8046 mimella *Clem.*
8047 spilosella *B. & Bsk.*

- | | | | |
|-------|---|------|--|
| 8048 | <i>hibiscella</i> Busck | 8077 | <i>negundella</i> Heinr. |
| 8049 | <i>wacoella</i> Cham. | 8078 | <i>nigrimaculella</i> Busck |
| 8050 | <i>cockerelli</i> Busck | 8079 | <i>flexurella</i> Clem. |
| 8051 | <i>discoocellella</i> Cham.
<i>violaceofusca</i> Zell. | 8080 | <i>maculimarginella</i> Cham. |
| 8052 | <i>capiteochrella</i> Cham. | 8081 | <i>gilvomaculella</i> Clem.
<i>biminimaculella</i> Cham. |
| 8053 | <i>pravinominella</i> Cham.
‡ <i>quadrinaculella</i> Cham. | 8082 | <i>serotinella</i> Busck |
| 8054 | <i>inquilinella</i> Busck | 8083 | <i>monotaeniella</i> Bott. |
| 8055 | <i>retiniella</i> B. & Bsk.
<i>langei</i> Keif. | 8084 | <i>pseudoacaciella</i> Cham.
<i>caecella</i> Zell. |
| 8056 | <i>decemmaculella</i> Cham. | 8085 | <i>thoraceochrella</i> Cham.
<i>obscuraella</i> Cham.
<i>perobscuraella</i> Wlshm. |
| 8057 | <i>rileyella</i> Cham. | 8086 | <i>thoracestrigeella</i> Cham. |
| 8058 | <i>pallidegrisseella</i> Cham. | 8087 | <i>obscurusella</i> Cham.
<i>fuscopulvella</i> Cham. |
| 8059 | <i>glycyrrhizaeella</i> Cham. | 8088 | <i>fuscomaculella</i> Cham. |
| 8060 | <i>fuscoluteella</i> Cham. | 8089 | <i>vernella</i> Murt.
‡ <i>formosella</i> Murt. |
| 8061 | <i>nundinella</i> Zell.
<i>beneficentella</i> Murt. | 8090 | <i>brumella</i> Clem. |
| 8062 | <i>monumentella</i> Cham. | 8091 | <i>trilineella</i> Cham. |
| 8063 | <i>obscurosuffusella</i> Cham.
? <i>canopulvella</i> Cham. | 8092 | <i>natalis</i> Heinr. |
| 8064 | <i>conspersa</i> Braun | 8093 | <i>trichostola</i> Meyr. |
| 8065 | <i>versutella</i> Zell. | 8094 | <i>acrina</i> Keif. |
| 8066 | <i>lynceella</i> Zell. | 8095 | <i>ornatifimbriella</i> Clem.
<i>unctulella</i> Zell. |
| 8067 | <i>obsкуроocelella</i> Cham. | 8096 | <i>seculaella</i> Clarke |
| 8068 | <i>occidentella</i> Cham. | 8097 | <i>aulaea</i> Clarke |
| 8069 | <i>vanduzeei</i> Keif. | 8098 | <i>abactella</i> Clarke |
| *8071 | <i>chrysopyla</i> Keif. | 8099 | <i>braunella</i> Keif.
<i>a arborei</i> Keif. |
| 8072 | <i>erigonella</i> Clarke | 8100 | <i>caudatae</i> Clarke |
| 8073 | <i>rigidae</i> Clarke | 8101 | <i>lepidotae</i> Clarke |
| 8074 | <i>eldorada</i> Keif. | 8102 | <i>amorphaeella</i> Cham. |
| 8075 | <i>luteogeminata</i> Clarke | 8103 | <i>abradescens</i> Braun |
| 8076 | <i>dammersi</i> Keif. | | |

*No number 8070

8104 psiloptera *B. & Bsk.*
 8105 persicaeella *Murt.*
 confusella *Cham.*
 8106 fluvialella *Busck.*
 8107 scabrella *Busck*
 8108 arbutina *Keif.*
 8109 manzanitae *Keif.*
 8110 badiomaculella *Cham.*
 8111 griseaeella *Cham.*
 8112 griseochrella *Cham.*
 8113 liturella *Wlk.*
 8114 maculatusella *Cham.*
 *8116 demissae *Keif.*
 8117 saliciphaga *Keif.*
 8118 frugalis *Braun*
 8119 prognosticata *Braun*
 8120 nigrobarbata *Braun*
 8121 occlusa *Braun*
 8122 permacta *Braun*
 8123 albifemorella *Clarke*
 8124 sarcochlora *Meyr.*
 8125 helicosticta *Meyr.*
 8126 fuliginea *Meyr.*
 8127 notochlora *Meyr.*
 8128 pinguicula *Meyr.*
 8129 speculifera *Meyr.*
 8130 camptogramma *Meyr.*
 8131 promonitrix *Meyr.*
 8132 hemicrossa *Meyr.*
 8133 isocrossa *Meyr.*
 8134 xanthuris *Meyr.*
 8135 normifera *Meyr.*

*No number 8115

8136 catacrossa *Meyr.*
 8137 chlorocrana *Meyr.*
 8138 hipposaris *Meyr.*
 8139 acharnaea *Meyr.*
 8140 rivulata *Meyr.*
 8141 collinearis *Meyr.*
 8142 asbolodes *Meyr.*
 8143 agriodes *Meyr.*
 8144 halycopa *Meyr.*
 8145 gomphopis *Meyr.*
 8146 monopa *Meyr.*
 8147 epigypsa *Meyr.*

Stegasta *Meyr.*

8148 bosqueella *Cham.*
 basqueella *Cham.* (laps.
 cal.)
 costipunctella *Moesch.*

Gnorimoschema *Busck*

8149 serratipalpella *Cham.*
 8150 dudiella *Busck*
 8151 septentrionella *Fyles*
 8152 gibsoniella *Busck*
 8153 gallaesolidaginis *Riley*
 8154 salinaris *Busck*
 8155 laguna *Busck*
 8156 gallaeasteriella *Kell.*
 caesiella *Brodie*
 8157 gallaediplopappi *Fyles*
 8158 washingtoniella *Busck*
 8159 baccharisella *Busck*
 8160 petrella *Busck*
 8161 neopetrella *Keif.*
 8162 subterranea *Busck*

- 8163 coquilletella *Busck*
8164 ericameriae *Keif.*
8165 busckiella *Kft.*
8166 chiquitella *Busck*
8167 tetradymiella *Busck*
8168 miscitatella *Clarke*
8169 alaricella *Busck*
8170 banksiella *Busck*
8171 contraria *Braun*
8172 albimarginella *Cham.*
8173 semicyclionella *Busck*
8174 terracottella *Busck*
8175 pedmontella *Cham.*
8176 faustella *Busck*
8177 collinusella *Cham.*
8178 atriplex *Busck*
8179 pallidochrella *Cham.*
? *versicolorella* *Cham.*
8180 ochreostrigella *Cham.*
henshawiella *Busck*
8181 potentella *Keif.*
8182 triocellella *Cham.*
8183 albangulata *Braun*
8184 octomaculella *Cham.*
8185 princeps *Busck*
8186 radiatella *Busck*
8187 saphirinella *Cham.*
8188 splendoriferella *Busck*
8189 florella *Busck*
8190 vastifica *Braun*
8191 batanella *Busck*
8192 macromaculata *Braun*
8193 erigeronella *Braun*
8194 detersella *Clem.*
brackenridgella *Busck*
8195 scutellariaeella *Cham.*
8196 lavernella *Cham.*
physalivorella *Cham.*
8197 ambrosiaeella *Cham.*
8198 artemisiella *Kft.*
axenopsis *Meyr.*
8199 polemoniella *Braun*
8200 sacculicola *Braun*
8201 lutescella *Clarke*
8202 consueta *Braun*
8203 compsomorpha *Meyr.*
8204 sporomachla *Meyr.*
8205 lectulifera *Meyr.*
8206 fercularia *Meyr.*
8207 semirosea *Meyr.*
8208 eucausta *Meyr.*
- Phthorimaea** *Meyr.*
8209 subtractella *Wlk.*
8210 inexperta *Meyr.*
‡*simpliciella* *Cham.*
8211 striatella *Murt.*
8212 minor *Busck*
8213 glochinella *Zell.*
solaniella *Cham.*
cinerella *Murt.*
inconspicueella *Murt.*
8214 operculella *Zell.*
solanella *Bdv.*
tabacella *Rag.*
8215 lycopersicella *Busck*
8216 elmorei *Keif.*
8217 plaesiosema *Turn.*
8218 altisolani *Keif.*

- 8219 *chenopodiella* Busck
 8220 *obsoletella* Roestl.
 8221 *emancipata* Meyr.
 ‡*marmorella* Cham.
 8222 *discomaculella* Cham.
 aurimaculella Cham.
 8223 *laudatella* Wlsh. m.
 8224 *grisella* Cham.
 8225 *milleriella* Cham.
 8226 *ochroschista* Meyr.
 8227 *charcoti* Meyr.

Nothris Hbn.

- 8228 *nephanthes* Meyr.
 8229 *thymiata* Meyr.
 8230 *tephrinopa* Meyr.
 8231 *melanchlora* Meyr.
 8232 *diaconalis* Meyr.
 8233 *gracula* Meyr.
 8234 *mundata* Meyr.
 8235 *sabinella* Zell.
 bianulella Cham.
 ocellella Cham.
 8236 *notandella* Busck
 8237 *anarsiella* Cham.
 8238 *monella* Busck

Polyhymno Cham.

- 8239 *luteostrigella* Cham.
 fuscostrigella Cham.
 8240 *acaciella* Busck
 8241 *sexstrigella* Cham.

Calliprora Meyr.

- 8242 *thermogramma* Meyr.

Sophronia Hbn.

- 8243 *primella* Busck
 8244 *roseicrinella* Busck
 8245 *teretracma* Meyr.

Stomopteryx Hein.

Aproaerema Durr.

- 8246 *anthyllidella* Hbn.
 palpilineella Busck (*nec.*
 Cham.)
 8247 *nigrella* Cham.
 8248 *palpilineella* Cham.
 8249 *adversa* Braun
 8250 *crotalariella* Busck
 8251 *iobapta* Meyr.
 8252 *metadesma* Meyr.

Untomia Busck

- 8253 *untomiella* Busck
 8254 *albistrigella* Cham.

Duvita Busck

- 8255 *vittella* Busck
 8256 *pasadenae* Keif.
 8257 *cyclella* Busck
 8258 *nigratomella* Clem.
 apicilinella Clem.
 apicistrigella Cham.
 concinusella Cham.
 8259 *tahavusella* Forbes

Compsolechia Meyr.

- 8260 *coverdalella* Kft.
 8261 *paltodoriella* Busck
 8262 *levipedella* Clem.
 8263 *fullonella* Zell.
 rufusella Cham.
 subruberella Cham.
 rubescens Wlsh. m.

- 8264 lagunculariella *Busck*
 8265 lupinella *Busck*
 8266 fragariella *Busck*
 8267 psoraliella *B. & Bsk.*
 8268 crescentifasciella *Cham.*
 8269 rhoifruetella *Clem.*
 consonella *Zell.*
 quadrinaculella *Cham.*
 ochreocostella *Cham.*
 8270 lacteusochrella *Cham.*
 8271 argyrothamniella *Busck*
 8272 niveopulvella *Cham.*
 8273 nonstrigella *Busck*
 8274 tristrigella *Wlsh.*
 8275 agrimoniella *Clem.*
 aduncella *Zell.*
 aderusella *Riley*
 8276 kearfottella *Busck*
 8277 sacramenta *Keif.*
 8278 comparanda *Meyr.*

Anacampsis *Curt.*

- 8279 conclusella *Wlk.*
 tephriasella *Cham.*
 grissefasciella *Cham.*
 8280 innocuella *Zell.*

Strobisia *Clem.*

- 8281 irridipennella *Clem.*
 aphroditella *Cham.*
 8282 proserpinella *F. & B.*

Hoplophysis *Wlsh.*

- 8283 emblemella *Clem.*
 venustella *Cham.*

Onebala *Wlk.*

- 8284 alacella *Clem.*
 ochripalpella *Zell.*
 goodellella *Cham.*

Thelyasceta *Meyr.*

- 8285 nonstrigella *Cham.*
 purpureofusca *Wlsh.*

Prostomeus *Busck*

- 8286 brunneus *Busck*

Acompsia *Hbn.*

- 8287 labradorica *Moesch.*

Anarsia *Zell.*

- 8288 lineatella *Zell.*
 pruniella *Clem.*

Hypatima *Hbn.*

- Chelaria* *Haw.*
 8289 zesticopa *Meyr.*

Telephila *Meyr.*

- 8290 vacciniella *Busck*
 8291 delotella *Busck*

Dichomeris *Hbn.*

- 8292 trimaculella *Cham.*
 touceyella *Busck*
 8293 rustica *Wlsh.*
 8294 citrifoliella *Cham.*
 8295 hirculella *Busck*
 8296 ligulella *Hbn.*
 contubernatella *Fitch*
 malifoliella *Fitch*
 flavivittella *Clem.*
 quercipomonella *Cham.*
 form pometella *Harr.*
 pauciguttella *Clem.*
 reedella *Cham.*
 8297 trinotella *Coq.*
 8298 ventrella *Fitch*
 unicipunctella *Clem.*
 quercicella *Cham.*
 8299 marginella *Fabr.*

- 8300 *caryaefoliella* Cham.
 8301 *suffusella* Cham.
 8302 *mollis* B. & Bsk.
 8303 *georgiella* Wlk.
 roseocostella Wlsh. m.
 8304 *punctidiscella* Clem.
 stramineella Cham.
 8305 *punctipennella* Clem.
 gracilella Cham.
 8306 *bipunctella* Wlsh. m.
 8307 *deflecta* Busck
 8308 *bimaculella* Cham.

Deoclona Busck

- 8309 *yuccasella* Busck

Epicorthylis Zell.

- 8310 *inversella* Zell.

Trichotaphe Clem.

- 8311 *griseella* Cham.
 8312 *bidiscomaculella* Cham.
 8313 *trimaculella* Cham.
 8314 *fernaldella* Busck
 8315 *serrativitella* Zell.
 plutella Cham.
 8316 *barnesiella* Busck
 8317 *simpliciella* Busck
 8318 *inserrata* Wlsh. m.
 8319 *flavocostella* Clem.
 8320 *eupatoriella* Cham.
 dolabella Zell.
 8321 *hemiclina* Meyr.
 8322 *setosella* Clem.
 costolutella Cham.
 bilobella Zell.
 8323 *stipendiaria* Braun

- 8324 *costarufocella* Cham.
 8325 *washingtoniella* Busck
 8326 *condaliavorella* Busck
 8327 *melantherella* Busck
 8328 *trinotella* Busck
 8329 *leuconotella* Busck
 8330 *juncidella* Clem.
 pallipalpis Wlk.
 dubitella Cham.
 8331 *levisella* Fyles

Oegoconia Staint.

- 8332 *quadripuncta* Haw.
 novimundi Busck

Mnesistega Meyr.

- 8333 *telemacha* Meyr.

Brachmia Hbn.

- 8334 *hystricella* Braun
 8335 *subalbusella* Cham.
 parvipulvella Cham.
 chambersella Murt.
 inaequapulvella Cham.
 8336 *badia* Braun
 8337 *discoannulella* Cham.
 8338 *pullifimbriella* Cham.
 8339 *casca* Braun
 8340 *melanocarpa* Meyr.

Sceptia Wlsh. m.

- 8341 *aberratella* Busck

Glyphidocera Wlsh. m.

- 8342 *lactiflosella* Cham.
 8343 *dimorphella* Busck
 8344 *meyrickella* Busck

- 8345 speratella *Busck*
 8346 septentrionella *Busck*
 8347 aequapulvella *Cham.*
 8348 floridanella *Busck*

Dasycera Steph.

- 8353 newmanella *Clem.*

Triclonella Busck

- 8354 pergandeella *Busck*
 8355 determinatella *Zell.*
 australisella *Cham.*

Fabiola Busck

- 8356 shaleriella *Cham.*
 8357 tecta *Braun*

Decantha Busck

- 8358 borkhauseni *Zell.*
 boreasella *Cham.*

Schiffermulleria Hbn.

Epicallima Dyar

- 8359 lucidella *Busck*
 8360 amplicincta *Braun*
 8361 argenticinctella *Clem.*
 8362 edithella *Busck*
 8363 antidectis *Meyr.*
 8364 dimidiella *Wlsh.*
 8365 quadrimaculella *Cham.*
 8366 rostrigera *Meyr.*
 8367 coloradella *Wlsh.*

Endrosis Hbn.

- 8368 lacteella *Schiff.*
 kennicottella *Clem.*

- 8349 isonephes *Meyr.*
 8350 democratica *Meyr.*
 8351 barythyma *Meyr.*
 8352 lithodoxa *Meyr.*

OECOPHORIDAE

Paratheta Meyr.

- 8368, 1 astigmatica *Meyr.*

Borkhausenia Hbn.

Chambersia Riley

- 8369 ascriptella *Busck*
 8370 haydenella *Cham.*
 8371 episcia *Wlsh.*
 8372 conia *Wlsh.*
 8373 diveni *Heinr.*
 8374 fasciata *Wlsh.*
 8375 orites *Wlsh.*
 8376 pseudospretella *Staint.*
 8377 longa *Meyr.*
 8378 leucoritis *Meyr.*
 8379 aciculata *Meyr.*

Martyringa Busck

- 8380 latipennis *Wlsh.*

Machimia Clem.

- 8381 huachucella *Busck*
 8382 canariella *Busck*
 8383 tentoriferella *Clem.*
 confertella *Wlk.*
 fernaldella *Cham.*
 8384 ciliella *Busck*
 8385 obscuromaculella *Cham.*
 8386 concolorella *Beut.*
 8387 humata *Meyr.*

8388 *cretacea Zell.*

Pleurota Hbn.

8389 *albastrigulella Kft.*

Eumeyrickia Busck

8390 *trimaculella Fitch*
albapulvella Cham.
haustellata Wlshm.

Eido Cham.

8391 *albapalpella Cham.*

Carcina Hbn.

8392 *quercana Fabr.*

Depressaria Haw.

8393 *alienella Busck*
8394 *multifidae Clarke*
8395 *dracunculi Clarke*
8396 *leptotaeniae Clarke*
8397 *togata Wlshm.*
8398 *nymphidia Meyr.*
8399 *juliella Busck*
8400 *nervosa Haw.*
8401 *barberella Busck*
8402 *artemisiella McD.*
8403 *corystopa Meyr.*
8404 *heracliana De Geer*
ontariella Beth.
8405 *groteella Rob.*
symmochlota Meyr.
8406 *betulella Busck*
8407 *maculatella Busck*
8408 *cinereocostella Clem.*
clausella Wlk.

Agonopterix Hbn.

8409 *atrodorsella Clem.*

8410 *costosa Haw.*
dryadoxena Meyr.
blackmori Busck

8411 *posticella Wlshm.*

8412 *sabulella Wlshm.*

8413 *argillacea Wlshm.*

8414 *arnicella Wlshm.*

8415 *clarkei Keif.*

8416 *arenella Schiff.*

8417 *pergandiella Busck*

8418 *pallidella Busck*
terinella B. & Bsk.
serrae Clarke

8419 *nivalis Braun*

8420 *flavicomella Engel*

8421 *callosella B. & Bsk.*

8422 *blacella B. & Bsk.*

8423 *senicionella Busck*

8424 *canadensis Busck*

8425 *amissella Busck*

8426 *pteleae B. & Bsk.*

8427 *amyrisella Busck*

8428 *novimundi Wlshm.*

8429 *endryopa Meyr.*

8430 *clemensella Cham.*

8431 *rosaciliella Busck*

8432 *latipalpella B. & Bsk.*

8433 *canella Busck*
cogitata Braun

8434 *sciadopa Meyr.*

8435 *klamathiana Wlshm.*

8436 *ciniflonella Zell.*

8437 *lythrella Wlshm.*

8438 *hyperella Ely*
testifica Meyr.

- 8439 *curvilineella* *Beut.*
 8440 *pulvipennella* *Clem.*
 eupatoriella *Cham.*
 solidaginis *Wlsh.*
 8441 *muricolorella* *Busck*
 8442 *thoracefasciella* *Cham.*
 8443 *fernaldella* *Wlsh.*
 walsinghiamiella *Busck*
 8444 *nigrinotella* *Busck*
 8445 *sanguinella* *Busck*
 8446 *fulva* *Wlsh.*
 8447 *lecontella* *Clem.*
 8448 *robiniella* *Pack.*
 hilarella *Zell.*
 8449 *psoraliella* *Wlsh.*
 8450 *nubiferella* *Wlsh.*
 8451 *gelidella* *Busck*
 8452 *nebulosa* *Zell.*
 8453 *scabella* *Zell.*
 8454 *plummerella* *Busck*
 8455 *umbraticostella* *Wlsh.*
 8456 *thoracenigraeella* *Cham.*
 8457 *gracilis* *Wlsh.*
 8458 *murmurans* *Meyr.*

Epigraphia *Steph.*

- 8459 *steinkellneriana* *Schiff.*
 packardella *Clem.*
 eruditella *Grt.*
 merrickella *Dyar*

Semioscopis *Hbn.*

- 8460 *inornata* *Wlsh.*
 8461 *megamicrella* *Dyar*
 8462 *acertella* *Busck*
 8463 *aurorella* *Dyar*
 8464 *allenella* *Wlsh.*

Gerdana *Busck*

- 8465 *caritella* *Busck*

Inga *Busck*

- 8466 *sparsiciliella* *Clem.*
 contrariella *Wlk.*
 atropicta *Zell.*

Cryptolechia *Zell.*

Psilocorsis *Clem.*

- 8467 *reflexella* *Clem.*
 cressonella *Cham.*
 8468 *ferruginosa* *Zell.*
 8469 *dubitatella* *Zell.*
 8470 *fletcherella* *Gibs.*
 8471 *obsoletella* *Zell.*
 8472 *faginella* *Cham.*
 8473 *quercicella* *Clem.*
 8474 *cryptolechiella* *Cham.*
 8475 *trigama* *Meyr.*
 8476 *diligenda* *Meyr.*

BLASTOBASIDAE

Blastobasis *Zell.*

- 8477 *guilandinae* *Busck*
 8478 *hulstella* *Dietz*
 8479 *yuccaeolella* *Dietz*
 8480 *plummerella* *Dietz*
 form fuscopurpurella
 Dietz
 form simplicella *Dietz*
 8481 *sagitella* *Dietz*

- 8482 *distinctella* Dietz
 8483 *villella* Busck
 8484 *eriobotyrae* Busck
 8485 *coenomorpha* Meyr.

Zenodochium Wlsh. m.

- 8486 *citricolella* Cham.
 8487 *coccivorella* Cham.

Valentinia Wlsh. m.

- 8488 *glandulella* Riley
 nubilella Zell.
 8489 *fractilinea* Zell.
 8490 *quaintancella* Dietz
 8491 *nothrotres* Wlsh. m.
 8492 *retectella* Zell.
 8493 *floridella* Dietz
 8494 *confectella* Zell.
 8495 *repartella* Dietz

Euresia Dietz

- 8496 *pulchella* Dietz

Calosima Dietz

- 8497 *argyrosplendella* Dietz
 8498 *dianella* Dietz

Asaphocrita Meyr.

- 8499 *protypica* Meyr.

Holcocera Clem.

- 8500 *dives* Dietz
 form basipallidella Dietz
 8501 *aphidiella* Wlsh. m.
 8502 *estriatella* Dietz

- 8503 *gigantella* Cham.
 8504 *nigrostriata* Wlsh. m.
 8505 *purpurocomella* Clem.
 8506 *ochrocephala* Dietz
 8507 *crassicornella* Dietz
 8508 *modestella* Clem.
 8509 *confamulella* Heinr.
 8510 *immaculella* McD.
 8511 *chalcfrontella* Clem.
 form minorella Dietz
 form fumerella Dietz
 a quisqueliella Zell.
 8512 *confluentella* Dietz
 8513 *busckiella* Dietz
 8514 *sciaphilella* Zell.
 triangularisella Cham.
 8515 *plagiatella* Dietz
 8516 *livorella* Zell.
 8517 *iceryaeella* Riley
 8518 *maligemmella* Murt.
 8519 *gilbociliella* Clem.
 8520 *funebra* Dietz
 form reductella Dietz
 8521 *inconspicua* Wlsh. m.
 8522 *augusti* Heinr.
 8523 *stygna* Wlsh. m.
 8524 *boreasella* Dietz
 8525 *nucella* Wlsh. m.
 8526 *nana* Dietz
 8527 *elyella* Dietz
 8528 *insulatella* Dietz
 8529 *inclusa* Dietz
 8530 *simulella* Dietz
 8531 *messelinella* Dietz
 form spoliatella Dietz

- 8532 *morrisoni* *Wlshm.*
 8533 *fluxella* *Zell.*
 8534 *clemensella* *Cham.*
 8535 *irenica* *Wlshm.*
 8536 *illibella* *Dietz*
 8537 *crescentella* *Dietz*
a annulipes *Dietz*
 8538 *spretella* *Dietz*
 8539 *ursella* *Wlshm.*
 8540 *punctiferella* *Clem.*
form subsenella *Zell.*
form texanella *Wlshm.*
 8541 *zelleriella* *Dietz*
form annectella *Dietz*
 8542 *vestaliella* *Dietz*
 8543 *tartarella* *Dietz*
 8544 *pusilla* *Dietz*
 8545 *rufopunctella* *Dietz*
 8546 *melanostriatella* *Dietz*
 8547 *interpunctella* *Dietz*
 8548 *panurgella* *Heinr.*

Eubolepia *Dietz*

- 8549 *anomalella* *Dietz*
 8550 *gargantuella* *Heinr.*

Ploiophora *Dietz*

- 8551 *ampla* *Dietz*
 8552 *fidella* *Dietz*

Pigritia *Clem.*

- 8553 *confusella* *Dietz*
 8554 *purpurella* *Dietz*
 8555 *basilarella* *Dietz*

- 8556 *laticapitella* *Clem.*
aufugella *Zell.*
luteopulvella *Cham.*

- 8557 *mediofasciella* *Dietz*
 8558 *ornatella* *Dietz*
 8559 *angustipennella* *Dietz*
 8560 *tristella* *Dietz*
 8561 *arizonella* *Dietz*
 8562 *spoliatella* *Dietz*
 8563 *obscuraella* *Dietz*

Epigritia *Dietz*

- 8564 *ochrocomella* *Clem.*
pallidotinctella *Dietz*
form heidemannella *Dietz*

Dryoperia *Cool.*

‡*Dryope* *Cham.*

- 8565 *occidentella* *Dietz*
 8566 *tenebrella* *Dietz*
 8567 *minnicella* *Dietz*
 8568 *grisella* *Dietz*
 8569 *fuscousuffusella* *Dietz*
 8570 *murtfeldtella* *Cham.*
erratella *Dietz*
 8571 *canariella* *Dietz*
 8572 *discopunctella* *Dietz*
 8573 *ochreella* *Clem.*
 8574 *fenyesella* *Dietz*

Pseudopigritia *Dietz*

- 8575 *dorsomaculella* *Dietz*
 8576 *equitella* *Dietz*
 8577 *fraternella* *Dietz*
 8578 *argyreella* *Dietz*

STENOMIDAE

- Menestomorpha** *Wlsh.*
 8579 *oblongata* *Wlsh.*
- Asapharca** *Meyr.*
 8580 *nephelomicta* *Meyr.*
- Aedemoses** *Wlsh.*
 8581 *haesitans* *Wlsh.*
- Stenoma** *Zell.*
 8582 *schlaegeri* *Zell.*
 8583 *lindseyi* *B. & Bsk.*
 8584 *unipunctella* *Clem.*
 tortricella *Cham.*
 lithosima *Zell.*
 8585 *algidella* *Wlk.*
 leucillana *Zell.*
 8586 *querciella* *Busck*
 8587 *osseella* *Wlsh.*
 8587, 1 *manzanitae* *Keif.*
 8588 *decorosella* *Busck.*
 8589 *irene* *B. & Bsk.*
 8590 *humilis* *Zell.*
 nubeculosa *Zell.*
 canusella *Cham.*
- 8591 *furcata* *Wlsh.*
 8592 *vestalis* *Zell.*
 albella *Cham.*
 8593 *thomasi* *B. & Bsk.*
 8594 *mistrella* *Busck*
 8595 *crambitella* *Wlsh.*
 8596 *agrioschista* *Meyr.*
- Setiostoma** *Zell.*
 8597 *xanthobasis* *Zell.*
 8598 *fernaldella* *Riley*
- Durrantia** *Busck*
 8599 *piperatella* *Zell.*
 8600 *obiterella* *Busck*
 chambersella *Dyar*
 8601 *montivola* *Meyr.*
- Menesta** *Clem.*
 8602 *tortriciformella* *Clem.*
 liturella *Wlk.*
 coryliella *Cham.*
 8603 *melanella* *Murt.*
 8604 *albaciliaeella* *Cham.*

ETHMIDAE

- Ethmia** *Hbn.*
 8605 *albitogata* *Wlsh.*
 8606 *coquilletella* *Busck*
 8607 *umbrimarginella* *Busck*
 8608 *lassenella* *Busck*
 8609 *albistrigella* *Wlsh.*
 chrysurella *Dietz*
 8610 *monachella* *Busck*
 8611 *caliginosella* *Busck*
- 8612 *monticola* *Wlsh.*
 8613 *fuscipedella* *Wlsh.*
 8614 *macelhosiella* *Busck*
 8615 *geranella* *B. & Bsk.*
 8616 *arctostaphylella* *Wlsh.*
 form obscurella *Beut.*
 form mediella *Busck*
 8617 *discostrigella* *Cham.*
 form subcaerulea *Wlsh.*
 8618 *semitenebrella* *Dyar*

- 8619 *confusella* *Wlk.*
 8620 *trifurcella* *Cham.*
 8621 *marmorea* *Wlsh.*
 8622 *semilugens* *Zell.*
 multipunctella *Cham.*
 semiopaca *Grt.*
 plumbeella *Beut.*
 8623 *semiombra* *Dyar*
 8624 *hagenella* *Cham.*
 josephinella *Dyar*
 8625 *mirusella* *Cham.*
 albicostella *Beut.*
 8626 *apicipunctella* *Cham.*
 zavalla *Busck*
- 8627 *longimaculella* *Cham.*
 walsinghamella *Beut.*
 8628 *coranella* *Dyar*
 8629 *zelleriella* *Cham.*
 texanella *Cham.*
 8630 *delliella* *Fern.*
 8631 *bittenella* *Busck*
 8632 *prattiella* *Busck*
- Pyramidobela** *Braun*
 Idioptila *Meyr.*
 8633 *quinquecristata* *Braun*
 8634 *agyrtodes* *Meyr.*
 8635 *angelarum* *Keif.*

Superfamily YPONOMEUTOIDEA

GLYPHIPTERYGIDAE

- Hilarographa** *Zell.*
 8636 *youngiella* *Busck*
 8637 *regalis* *Wlsh.*
 8638 *olympica* *Braun*
- Thelethia** *Dyar*
 8639 *extranea* *Hy. Edw.*
- Tortyra** *Wlk.*
 8640 *diva* *Riley*
 8641 *slossonia* *Fern.*
 8642 *biferana* *Wlk.*
 dyari *Busck*
- Anthophila** *Haw.*
 Simaethis *Leech*
 Hemerophila *Hbn.*
 8643 *fabriciana* *Linn.*
 a alpinella *Busck*
 8644 *pariana* *Cl.*
- Allononyma** *Busck*
 8645 *vicarialis* *Zell.*
 betuliperda *Dyar*
 8646 *diana* *Hbn.*
 luridana *Wlk.*
- Abrenthia** *Busck*
 8647 *cuprea* *Busck*
- Brenthia** *Clem.*
 8648 *pavonacella* *Clem.*
 amphicarpeoana *Cham.*
- Choreutis** *Hbn.*
 8649 *inflatella* *Clem.*
 a virginella *Clem.*
 8650 *dyarella* *Kft.*
 8651 *extrinsicella* *Dyar*
 8652 *pernalis* *Braun*
 8653 *multimarginata* *Braun*
 8654 *immutabilis* *Braun*

- 8655 *augustella* Clarke
 8656 *carduiella* Kft.
 8657 *busckiella* Kft.
 8658 *gemmalis* Hlst.
 8659 *piperella* Busck
 8660 *sororeculella* Dyar
 8661 *silphiella* Grt.
 8662 *gnaphaliella* Kft.
 8663 *onustana* Wlk.
 ohioensis Zell.
 8664 *balsamorrhizella* Busck
 8665 *coloradella* Kft.
 8666 *occidentella* Dyar
 8667 *caliginosa* Braun
 8668 *schausiella* Busck
 8669 *leucobasis* Fern.
 8669, 1 *melanifera* Keif.

Glyphipteryx Hbn.

- 8670 *impigritella* Clem.
 exoptatella Cham.

Bembecia Hbn.

- 8684 *marginata* Harr.
 pleciaeformis Wlk.
 odyneripennis Wlk.
 rubi Riley
 flavipes Hlst.
 form albicoma Hlst.

Alcathoe Hy. Edw.

- 8685 *caudata* Harr.
 form ♂ walkeri Neum.
 8686 *carolinensis* Engelh.
 8687 *pepsioides* Engelh.
 a atra Engelh.

- 8671 *lanista* Meyr.
 8672 *montisella* Cham.
 8673 *californiae* Wlsh.
 8674 *saurodonta* Meyr.
 8675 *quadragintapunctata* Dyar
 8676 *quinqueferella* Wlsh.
 8677 *unifasciata* Wlsh.
 8678 *bifasciata* Wlsh.
 8679 *circumsriptella* Cham.

Ellabella Busck

- 8680 *editha* Busck

Probolacma Meyr.

- 8681 *melanoclista* Meyr.

Lotisma Busck

- 8682 *trigonana* Wlsh.
 kincaidiella Busck

Araeolepia Wlsh.

- 8683 *subfasciella* Wlsh.

AEGERIIDAE

Aegeria Fabr.

- 8688 *apiformis* Cl.
 8689 *pacifica* Hy. Edw.
 californicum Neum.
 8690 *tibialis* Harr.
 flavitibia Wlk.
 minimum Neum.
 a dyari Ckll.

Sanninoidea Beut.

- 8691 *exitiosa* Say
 persica Thom.
 pepsidiformis Hbn.
 xiphiaeformis Bdv.

- form fitchi* Hy. Edw.
form edwardsi Beut.
form luminosa Neum.
- 8692 *opalescens* Hy. Edw.
 pacifica Riley
- 8693 *graefi* Hy. Edw.
 a barnesi Beut.
- Synanthedon** Hbn.
- 8694 *mellinipennis* Bdv.
 resplendens Hy. Edw.
 artemisiae Hy. Edw.
 senecioides Hy. Edw.
- 8695 *giliae* Hy. Edw.
 vitrina Neum.
 deceptiva Beut.
- 8696 *rileyana* Hy. Edw.
 brunneipennis Hy. Edw.
 hyperici Hy. Edw.
- 8697 *bibionipennis* Bdv.
 ♀ *chrysidipennis* Bdv.
 rutilans Hy. Edw.
 aureola Hy. Edw.
 hemizonae Hy. Edw.
 lupini Hy. Edw.
 perplexa Hy. Edw.
 impropria Hy. Edw.
 washingtonia Hy. Edw.
- 8698 *madariae* Hy. Edw.
- 8699 *arctica* Beut.
- 8700 *florissantella* Ckll.
- 8701 *mimuli* Hy. Edw.
- 8702 *neglecta* Hy. Edw.
- 8703 *refulgens* Hy. Edw.
- 8704 *bassiformis* Wlk.
 lustrans Grt.
 consimilis Hy. Edw.
 bolli Hy. Edw.
 eupatorii Hy. Edw.
 sexfasciata Hy. Edw.
 infirma Hy. Edw.
 imitata Hy. Edw.
- 8705 *corni* Hy. Edw.
- 8706 *acerrubri* Engelh.
- 8707 *anthracipennis* Bdv.
- 8708 *tipuliformis* Linn.
- 8709 *arizonae* Beut.
- 8710 *albociliata* Engelh.
- 8711 *auritincta* Engelh.
- 8712 *morula* Hy. Edw.
- 8713 *novaroensis* Hy. Edw.
- 8714 *brunneri* Busck.
- 8715 *rubrofascia* Hy. Edw.
- 8716 *bolteri* Hy. Edw.
- 8717 *rubricincta* Beut.
- 8718 *fulvipes* Harr.
- 8719 *saxifragae* Hy. Edw.
 henshawi Hy. Edw.
- 8720 *pictipes* G. & R.
 inusitata Hy. Edw.
- 8721 *viburni* Engelh.
- 8722 *castaneae* Busck
- 8723 *albicornis* Hy. Edw.
 proxima Hy. Edw.
 modesta Kell.
- 8724 *americana* Beut.
- 8725 *culiciformis* Linn.
- 8726 *tepperi* Hy. Edw.
- 8727 *acerni* Clem.
 acericolum Germ.
- 8728 *aureopurpura* Hy. Edw.
- 8729 *pyri* Harr.
 koebelei Hy. Edw.
- 8730 *rhododendri* Beut.
- 8731 *scitula* Harr.
 gallivorum Westw.
 hospes Walsh
 aemula Hy. Edw.

8732 *ithacae* *Beut.*
 8733 *corusca* *Hy. Edw.*
 8734 *decipiens* *Hy. Edw.*
 imperfecta *Hy. Edw.*
 nicotianae *Hy. Edw.*
 8735 *rubristigma* *Kell.*
 8736 *querci* *Hy. Edw.*
 8737 *prosopis* *Hy. Edw.*
 8738 *tecta* *Hy. Edw.*
 8739 *candescens* *Hy. Edw.*
 8740 *sigmoidea* *Beut.*
 8741 *tacoma* *Beut.*
 8742 *texana* *Hy. Edw.*
 wittfeldi *Hy. Edw.*
 8743 *seminole* *Beut.*
 8744 *marcia* *Beut.*
 8745 *praestans* *Hy. Edw.*
 8746 *fragariae* *Hy. Edw.*
 orthocarpi *Hy. Edw.*
 a semipraestans *Ckll.*
 8747 *helianthi* *Hy. Edw.*
 behrensi *Hy. Edw.*
 elda *Hy. Edw.*
 8748 *mariona* *Beut.*
 8749 *polygoni* *Hy. Edw.*
 meadi *Hy. Edw.*
 8750 *achillae* *Hy. Edw.*
 eremocarpi *Hy. Edw.*
 8751 *floridensis* *Grt.*
 8752 *geliformis* *Wlk.*
 8753 *sapygaeiformis* *Wlk.*
 8754 *animosa* *Hy. Edw.*
 8755 *pyralidiformis* *Wlk.*
 nigella *Hlst.*
 8756 *sanborni* *Hy. Edw.*
 8757 *ruficornis* *Hy. Edw.*
 minuta *Hy. Edw.*

8758 *subaerea* *Hy. Edw.*
 8759 *nigra* *Beut.*
 8760 *verecunda* *Hy. Edw.*
 8761 *edwardsi* *Beut.*
 8762 *utahensis* *Beut.*

Parharmonia *Beut.*

8763 *pini* *Kell.*
 8764 *piceae* *Dyar*

Sannina *Wlk.*

8765 *uroceriformis* *Wlk.*
 quinquecaudata *Ridings*

Vespamima *Beut.*

8766 *sequoiae* *Hy. Edw.*
 pinorum *Behrens*

Palmia *Beut.*

8767 *praecedens* *Hy. Edw.*

Podosesia *Moesch.*

8768 *syringae* *Harr.*
 longipes *Moesch.*
 8769 *fraxini* *Lugger*
 8770 *comes* *Heinr.*

Gaea *Beut.*

8771 *emphytiformis* *Wlk.*
 8772 *solituda* *Hy. Edw.*
 8773 *arizonensis* *Beut.*
 8774 *palmi* *Beut.*

Euhagena *Hy. Edw.*

8775 *nebraskae* *Hy. Edw.*

Melittia *Hbn.*

8776 *satyriniformis* *Hbn.*

8777 cucurbitae *Harr.*
 ceto Westw.
 amoena Hy. Edw.

8778 *snowi* Hy. Edw.

8779 *gloriosa* Hy. Edw.

8780 *grandis* *Stkr.*

8781 *lindseyi* B. & B.
 ‡*superba* B. & L.
 barnesi dalla T.

8782 *magnifica* *Beut.*

Zenodoxus G. & R.

8783 *maculipes* G. & R.

8784 *heucherae* Hy. Edw.
 potentillae Hy. Edw.

8785 *palmi* *Neum.*
 palmiana dalla T.

8786 *canescens* Hy. Edw.

8787 *mexicanus* *Beut.*

Calasesia *Beut.*

8788 *coccinea* *Beut.*

Albuna Hy. Edw.

8789 *pyramidalis* *Wlk.*
 nomadaepennis *Bdv.*
 hylotomiformis *Wlk.*
 vancouverensis Hy. Edw.
 form montana Hy. Edw.
 tanaceti Hy. Edw.
 form rubescens *Hlst.*

form coloradensis Hy.
 Edw.
 torva Hy. Edw.

8790 *fraxini* Hy. Edw.

morrisoni Hy. Edw.

8791 *beutenmulleri* *Skin.*

Paranthrene *Hbn.*

Memythrus *Newm.*

8792 *tricincta* *Harr.*

8793 *denotata* Hy. Edw.

8794 *robiniae* Hy. Edw.

8795 *cupressi* Hy. Edw.

8796 *polistiformis* *Harr.*

8797 *scepsiformis* Hy. Edw.

8798 *simulans* *Grt.*
 luggeri Hy. Edw.

8799 *palmi* Hy. Edw.

8800 *asilipennis* *Bdv.*
 denudatum *Harr.*
 vespipenne H. S.
 bombyciformis *Wlk.*

8801 *seminole* *Neum.*

8802 *dolli* *Neum.*
 a castaneum *Beut.*

8803 *perlucida* *Busck*

8804 *admiranda* Hy. Edw.

8805 *fenestratus* B. & L.

HELIODINIDAE

Euclemensia *Grt.*

8806 *bassettella* *Clem.*

8807 *schwarzziella* *Busck*

Erineda *Busck*

8808 *elyella* *Busck*

8809 *aenea* *Braun*

Idioglossa *Wlsh.*

8810 *miraculosa* *Frey*
 americella *Wlsh.*

Cycloplasis *Clem.*

8811 *panicifoliella* *Clem.*

Scelorthus Busck8812 *pisoniella* Busck**Lamprolophus** Busck8813 *lithella* Busck**Lithariapteryx** Cham.8814 *abroniaeaella* Cham.**Heliodines** Staint.8815 *bella* Cham.8816 *extraneella* Wlsh. m.8817 *sexpunctella* Wlsh. m.8818 *tripunctella* Wlsh. m.8819 *unipunctella* Wlsh. m.8820 *metallicella* Busck8821 *albaciliella* Busck8822 *nyctaginella* Gib.8823 *perichalca* Meyr.8824 *ciccella* B. & Bsk.**Schreckensteinia** Hbn.8825 *erythriella* Clem.8826 *felicella* Wlsh. m.8827 *festaliella* Hbn.**PLUTELLIDAE****Eucalantica** Busck8828 *polita* Wlsh. m.**Pliniaca** Busck8829 *bakerella* Busck8830 *sparsisquamella* Busck**Euceratia** Wlsh. m.8831 *securella* Wlsh. m.8832 *castella* Wlsh. m.**Abebaea** Hbn.8833 *subsylvella* Wlsh. m.8834 *sublucella* Wlsh. m.8835 *querciella* Busck8836 *gerdanella* Busck8837 *delicatella* Busck8838 *cockerella* Busck8839 *nella* Busck8840 *cervella* Wlsh. m.8841 *electropa* Meyr.**Trachoma** Wall.8842 *falciferella* Wlsh. m.
ordinalis Meyr.8843 *walsinghamiella* Busck
†instabilella Wlsh. m.8844 *senex* Wlsh. m.
koebelella Dyar**Harpipteryx** Hbn.8845 *dentiferella* Wlsh. m.
form frustrella Wlsh. m.
form canariella Wlsh. m.8846 *xylostella* Linn.**Cerostoma** Latr.8847 *rubrella* Dyar8848 *elongata* Braun8849 *undulatella* Busck8850 *oliviella* Busck8851 *arizonella* Busck8852 *unicipunctella* Busck8853 *radiatella* Don.
ochrella Cham.

- 8854 *aleutianella* *Beut.*
 8855 *schwarziella* *Busck*
 8856 *flavistrigella* *Busck*
 8857 *barberella* *Busck*
 8858 *manella* *Busck*
 8859 *striatella* *Busck*
 8860 *vintrella* *Busck*
 8861 *maculatella* *Busck*
 8862 *angelicella* *Busck*
 8863 *dorsimaculella* *Kft.*
 8864 *leptaula* *Meyr.*

Melitonympha *Meyr.*

- 8865 *heteraula* *Meyr.*

Acrolepia *Curt.*

- 8866 *incertella* *Cham.*
 dorsimaculella *Cham.*
 8867 *reticulosa* *Braun*

- 8868 *leucoscia* *Meyr.*

Plutella *Schr.*

- 8869 *vanella* *Wlshm.*
 8870 *porrectella* *Linn.*
 vigilacella *Clem.*
 8871 *poulella* *Busck.*
 8872 *omissa* *Wlshm.*
 8873 *notabilis* *Busck*
 8874 *albidorsella* *Wlshm.*
 8875 *interrupta* *Wlshm.*
 8876 *armoraciae* *Busck*
 monochlora *Meyr.*
 8877 *dammersi* *Busck*
 8878 *maculipennis* *Curt.*
 cruciferarum *Zell.*
 brassicella *Fitch*
 ♂ *limbipennella* *Clem.*
 ♀ *mollipedella* *Clem.*
 xylostella *Pack.*
 ♀ *dubiosella* *Beut.*

YPONOMEUTIDAE

Argyresthia *Hbn.*

- 8879 *quadristrigella* *Zell.*
 8880 *trifasciae* *Braun*
 8881 *thoracella* *Busck*
 8882 *alternatella* *Kft.*
 8883 *libocedrella* *Busck*
 8884 *cupressella* *Wlshm.*
 8885 *freyella* *Wlshm.*
 ‡*abdominalis* *Zell.*
 8886 *quercicolella* *Cham.*
 8887 *annettella* *Busck*
 8888 *nymphocoma* *Meyr.*
 8889 *calliphanes* *Meyr.*

- 8890 *goedartella* *Linn.*
 8891 *pygmaeella* *Hbn.*
 8892 *chalcochrysa* *Meyr.*
 8893 *oreasella* *Clem.*
 ‡*andereggiella* *Zell.*
 8894 *castaneella* *Busck*
 8895 *franciscella* *Busck*
 8896 *inscriptella* *Busck*
 8897 *apicimaculella* *Cham.*
 visaliella *Cham.*
 8898 *subreticulata* *Wlshm.*
 8899 *deletella* *Zell.*
 8900 *eugeniella* *Busck*
 8901 *altissimella* *Cham.*

- 8902 monochromella *Busck*
 8903 conjugella *Zell.*
 8904 belangerella *Cham.*
 8905 montella *Cham.*
 8906 plicipunctella *Wlsh.*
 8907 rileiella *Busck*
 8908 pedmontella *Cham.*
 8909 furcatella *Busck*
 8910 bolliella *Busck*
 8911 mesocausta *Meyr.*
 8912 undulatella *Cham.*
 8913 austerella *Zell.*
 8914 thuiella *Pack.*
 8915 laricella *Kft.*
 8916 pallidella *Braun*
 8917 media *Braun*
 8918 pilatella *Braun*
 8919 arceuthobiella *Busck*

Podiasa *Busck*

- 8920 chiococcella *Busck*

Zelleria *Staint.*

- 8921 gracilariella *Busck*
 form ribesella *Busck*
 8922 semitincta *Meyr.*
 8923 haimbachi *Busck*

Swammerdamia *Hbn.*

- 8924 castaneae *Busck*
 8925 cuprescens *Braun*

Ocnerostoma *Zell.*

- 8926 piniariella *Zell.*

Xyrosaris *Meyr.*

- 8927 celastrustella *Kft.*

- 8928 ochroplagiata *Braun*

Eucatagma *Busck*

- 8929 amyrisella *Busck*

Orinympa *Meyr.*

- 8930 aetherias *Meyr.*

Yponomeuta *Latr.*

- 8931 multipunctella *Clem.*
 ordinatella *Wlk.*
 8932 orbimaculella *Cham.*
 †euonymella *Cham.*
 8933 atomocella *Dyar*
 diaphorus *Wlsh.*
 8934 semialba *Meyr.*
 8935 leucothorax *Meyr.*
 8936 padella *Linn.*

Atteva *Wlk.*

- 8937 floridana *Neum.*
 8938 edithella *Busck*
 8939 aurea *Fitch*
 compta *Clem.*

Lactura *Wlk.*

- Mieza* *Wlk.*
 8940 pupula *Hbn.*
 laeta *Gey.*
 igninix *Wlk.*
 crassivenella *Zell.*
 8941 subfervens *Wlk.*
 a psammitis *Zell.*
 8942 basistriga *B. & McD.*
 rhodocentra *Meyr.*
 8943 atrolinea *B. & McD.*

Urodus *H. S.*

- Trichostibas* *Zell.*
 8944 parvula *Hy. Edw.*

SCYTHRIDAE

<p>Scythris Hbn.</p> <p>8945 <i>eburnea</i> <i>Wlsh.</i> <i>arizoniella</i> Kft.</p> <p>8946 <i>albapennella</i> <i>Cham.</i></p> <p>8947 <i>sponsella</i> <i>Busck</i></p> <p>8948 <i>albilineata</i> <i>Wlsh.</i></p> <p>8949 <i>aterrimella</i> <i>Wlk.</i></p> <p>8950 <i>basilaris</i> <i>Zell.</i> <i>flavifrontella</i> <i>Clem.</i></p> <p>8951 <i>impositella</i> <i>Zell.</i> <i>matutella</i> <i>Clem.</i> <i>monstratella</i> <i>Wlk.</i> <i>dorsipallidella</i> <i>Cham.</i> <i>buristriga</i> <i>Cham.</i> <i>brevistriga</i> <i>Cham.</i> <i>immaculatella</i> <i>Cham.</i></p> <p>8952 <i>graminivorella</i> <i>Braun</i></p> <p>8953 <i>eboracensis</i> <i>Zell.</i></p> <p>8954 <i>pacifica</i> <i>McD.</i></p> <p>8955 <i>fuscicomella</i> <i>Clem.</i></p> <p>8956 <i>ochristriata</i> <i>Wlsh.</i></p>	<p>8957 <i>altisierrae</i> <i>Keif.</i></p> <p>8958 <i>perspicelella</i> <i>Wlsh.</i></p> <p>8959 <i>confinis</i> <i>Braun</i></p> <p>8960 <i>reducta</i> <i>Braun</i></p> <p>8961 <i>anthracina</i> <i>Braun</i></p> <p>8962 <i>scintillifera</i> <i>Braun</i></p> <p>8963 <i>pilosella</i> <i>Zell.</i></p> <p>8964 <i>magnatella</i> <i>Busck</i></p> <p>8965 <i>plausipennella</i> <i>Cham.</i></p> <p>8966 <i>suffusa</i> <i>Wlsh.</i></p> <p>8967 <i>trivinctella</i> <i>Zell.</i></p> <p>8968 <i>epsilon</i> <i>Braun</i></p> <p>8969 <i>interrupta</i> <i>Braun</i></p> <p>8970 <i>mixaula</i> <i>Meyr.</i></p> <p>8971 <i>oxyplecta</i> <i>Meyr.</i></p> <p>8972 <i>charon</i> <i>Meyr.</i></p> <p>8973 <i>piratica</i> <i>Meyr.</i></p> <p>8974 <i>hemidictias</i> <i>Meyr.</i></p> <p>8975 <i>fissirostris</i> <i>Meyr.</i></p>
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Superfamily CYCNODIOIDEA

HELIOZELIDAE

<p>Heliozela H. S.</p> <p>8976 <i>aesella</i> <i>Cham.</i></p> <p>8977 <i>gracilis</i> <i>Zell.</i></p> <p>Antispila Hbn.</p> <p>8978 <i>ampelopsiella</i> <i>Cham.</i></p> <p>8979 <i>voraginella</i> <i>Braun</i></p> <p>8980 <i>cornifoliella</i> <i>Clem.</i></p> <p>8981 <i>eugeniella</i> <i>Busck</i></p> <p>8982 <i>argentifera</i> <i>Braun</i></p> <p>8983 <i>hydrangiaeella</i> <i>Cham.</i></p>	<p>8984 <i>isabella</i> <i>Clem.</i></p> <p>8985 <i>nyssaefoliella</i> <i>Clem.</i></p> <p>8986 <i>viticordifoliella</i> <i>Clem.</i></p> <p>8987 <i>major</i> <i>Kft.</i></p> <p>8988 <i>aurirubra</i> <i>Braun</i></p> <p>Coptodisca <i>Wlsh.</i></p> <p>8989 <i>diospyriella</i> <i>Cham.</i></p> <p>8990 <i>condaliae</i> <i>Busck</i></p> <p>8991 <i>ella</i> <i>Cham.</i></p> <p>8992 <i>lucifluella</i> <i>Clem.</i></p>
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8993	<i>juglandiella</i> Cham.	<i>pruniella</i> Clem.
8994	<i>magnella</i> Braun	<i>saccatella</i> Pack.
8995	<i>negligens</i> Braun	8999 <i>arbutiella</i> Busck
8996	<i>ostryaefoliella</i> Clem.	9000 <i>kalmiella</i> Dietz
8997	<i>saliciella</i> Cham.	9001 <i>ribesella</i> Braun
8998	<i>splendoriferella</i> Clem.	9002 <i>cercocarpella</i> Braun
		9003 <i>quercicolella</i> Braun

DOUGLASIIDAE

Tinagma Zell.	9005 <i>gigantea</i> Braun
9004 <i>obscurofasciella</i> Cham.	9006 <i>pulverilinea</i> Braun
<i>crenulellum</i> Engel	9007 <i>leucaspis</i> Braun

ELACHISTIDAE

Elachista Tr.	9024 <i>texanella</i> Cham.
<i>Apheloseitia</i> Steph.	9025 <i>texanica</i> F. & B.
9008 <i>bicristatella</i> Cham.	9026 <i>salinaris</i> Braun
<i>duplicatella</i> Dyar	9027 <i>sincera</i> Braun
9009 <i>orestella</i> Busck	9028 <i>herbigrada</i> Braun
9010 <i>brachyelytrifoliella</i> Clem.	9029 <i>stramineola</i> Braun
9011 <i>concolorella</i> Cham.	9030 <i>agilis</i> Braun
9012 <i>illectella</i> Clem.	9031 <i>aurocristata</i> Braun
9013 <i>inornatella</i> Cham.	9032 <i>controversa</i> Braun
9014 <i>maculosella</i> Clem.	9033 <i>radiantella</i> Braun
9015 <i>madarella</i> Clem.	9034 <i>solitaria</i> Braun
9016 <i>argentosa</i> Braun	9035 <i>cygnodiella</i> Busck
9017 <i>enitescens</i> Braun	9036 <i>unifasciella</i> Cham.
9018 <i>metallifera</i> Wlshm.	9037 <i>albicapitella</i> Engel
9019 <i>orichalcella</i> Clem.	9038 <i>praelineata</i> Braun
9020 <i>parvipulvella</i> Cham.	9039 <i>sylvestris</i> Braun
9021 <i>praematurella</i> Clem.	9040 <i>leucofrons</i> Braun
<i>form cristatella</i> Cham.	9041 <i>irrorata</i> Braun
<i>form albapalpella</i> Cham.	9042 <i>cana</i> Braun
9022 <i>pusilla</i> F. & B.	9043 <i>inaudita</i> Braun
9023 <i>staintonella</i> Cham.	

- 9044 *cucullata Braun*
 9045 *patriodoxa Meyr.*
 9046 *philopatris Meyr.*
 9047 *tanyopis Meyr.*
 9048 *griseicornis Meyr.*

Aphigalia Dyar

- 9049 *albella Cham.*
 9050 *ochreomaculella Cham.*

Stephensia Staint.

- 9051 *cunilae Braun*

Dicranoctetes Braun

9052. *angularis Braun*

Coelopoeta Wlshm.

- 9053 *glutinosi Wlshm.*
 9054 *baldella B. & Bsk.*

Superfamily **TINEOIDEA**

COLEOPHORIDAE

Coleophora Hbn.

Haploptilia Hbn.

- 9055 *nigralineella Cham.*
 9056 *tiliaefoliella Clem.*
 9057 *rosaefoliella Clem.*
 9058 *malivorella Riley*
 multipulvella Cham.
 9059 *atromarginata Braun*
 9060 *albovanescens Heinr.*
 9061 *elaeagnisella Kft.*
 9062 *querciella Clem.*
 9063 *currucipennella Zell.*
 9064 *sacramenta Heinr.*
 9065 *discostrata Wlshm.*
 9066 *castipennella Wlshm.*
 9067 *atlantica Heinr.*
 9068 *accordella Wlshm.*
 9069 *bella Wlshm.*
 9070 *acamtopappi Busck*
 9071 *quadristrigella Busck*
 9072 *entoloma Busck*
 9073 *gaylussaciella Heinr.*

- 9074 *cretaticostella Clem.*
 9075 *kearfottella B. & Bsk.*
 9076 *ochrella Cham.*
 9077 *leucochrysella Clem.*
 9078 *viburnella Clem.*
 9079 *argentialbella Cham.*
 9080 *rosacella Clem.*
 9081 *albianternaella Wild.*
 9082 *cornella Wlshm.*
 9083 *carpinella Heinr.*
 9084 *umbratica Braun*
 9085 *caryaefoliella Clem.*
 rufoluteella Cham.
 9086 *ostryae Clem.*
 9087 *corylifoliella Clem.*
 9088 *limosipennella Dup.*
 laticornella Clem.
 9089 *comptoniella McD.*
 9090 *alniella Heinr.*
 9091 *lentella Heinr.*
 9092 *coruscipennella Clem.*
 auropurpurella Cham.

- 9093 *viridicuprella* *Wlsh.*
9094 *aeneusella* *Cham.*
9095 *apicalbella* *Braun*
 ‡*apicella* *Braun*
9096 *occidentis* *Zell.*
 fletcherella *Fern.*
9097 *salmani* *Heinr.*
9098 *laricella* *Hbn.*
9099 *cerasivorella* *Pack.*
9100 *zelleriella* *Cham.*
9101 *volckei* *Heinr.*
9102 *pruniella* *Clem.*
9103 *cinerella* *Cham.*
9104 *concolorella* *Clem.*
9105 *innotabilis* *Braun*
9106 *piperata* *Braun*
9107 *unicolorella* *Cham.*
9108 *kalmiella* *McD.*
9109 *manitoba* *Busck*
9110 *heinrichella* *McD.*
9111 *vernoniaeella* *Cham.*
9112 *argentella* *Cham.*
 ‡*argentialbella* *Cham.*
9113 *monardella* *McD.*
9114 *sparsipulvella* *Cham.*
9115 *wyethiae* *Wlsh.*
9116 *sparsipuncta* *Heinr.*
9117 *granifera* *Braun*
9118 *coenosipennella* *Clem.*
9119 *bistrigella* *Cham.*
9120 *cratipennella* *Clem.*
 gigantella *Cham.*
9121 *quadrilineella* *Cham.*
9122 *brunneipennis* *Braun*
9123 *annulicola* *Braun*
9124 *duplicis* *Braun*
9125 *ericoides* *Braun*
9126 *polemoniella* *Braun*
9127 *astericola* *Heinr.*
9128 *infuseatella* *Clem.*
9129 *borea* *Braun*
9130 *acutipennella* *Wlsh.*
9131 *viscidiflorella* *Wlsh.*
9132 *chambersella* *Dyar*
 ‡*artemisicolella* *Cham.*
9133 *caespititiella* *Zell.*
 ciliaeochrella *Cham.*
9134 *atriplicivora* *Ckl.*
9135 *demissella* *Braun*
9136 *amaranthella* *Braun*
9137 *biforis* *Braun*
9138 *prepostera* *Braun*
9139 *suaedicola* *Ckl.*
9140 *glaucella* *Wlsh.*
9141 *albacostella* *Cham.*
9142 *tenuis* *Wlsh.*
9143 *crinita* *Braun*
9144 *nigrostriata* *Wlsh.*
9145 *basistrigella* *Cham.*
9146 *biminimaculella* *Cham.*
9147 *bipunctella* *Wlsh.*
9148 *suaedae* *Busck*
9149 *ochrostriata* *Wlsh.*
9150 *shaleriella* *Cham.*
9151 *fagicosticella* *Cham.*
9152 *fuscostrigella* *Cham.*
9153 *lineapulvella* *Cham.*

- 9154 *inornatella Cham.*
 9155 *irroratella Wlshm.*
 9156 *lynosyridella Wlshm.*
 9157 *luteocostella Cham.*
 9158 *octagonella Wlshm.*

- 9159 *portulacea Ckl.*
 9160 *texanella Cham.*
 9161 *trilineella Cham.*
 9162 *lapidicornis Wlshm.*
 9163 *vagans Wlshm.*

GRACILLARIIDAE

Lithocolletis Hbn.

- 9164 *fitchella Clem.*
 ‡*quercifoliella* Fitch
 quercetorum F. & B.
 9165 *leucothorax Wlshm.*
 9166 *bataviella Braun*
 9167 *trinotella Braun*
 9168 *quercialbella Fitch*
 quercipulchella Cham.
 9169 *clemensella Cham.*
 9170 *pernalis Braun*
 9171 *argentifimbriella Clem.*
 longestriata F. & B.
 fuscocostella Cham.
 9172 *lucidicostella Clem.*
 9173 *albanotella Cham.*
 subaureola F. & B.
 9174 *insignis Wlshm.*
 9175 *hageni F. & B.*
 necospinusella Cham.
 9176 *arbutusella Braun*
 9177 *obscuricostella Clem.*
 virginiella Cham.
 9178 *ostryaefoliella Clem.*
 mirifica F. & B.
 9179 *manzanita Braun*
 9180 *rileyella Cham.*
 tenuistrigata F. & B.
 9181 *kearfottella Braun*

- 9182 *caryaealbella Cham.*
 9183 *olivaeformis Braun*
 9184 *felinelle Heinr.*
 9185 *martiella Braun*
 9186 *viburnella Braun*
 9187 *gemmea F. & B.*
 9188 *diversella Braun*
 9189 *morrisella Fitch*
 texanella Zell.
 amphicarpaella Cham.
 9190 *uhlerella Fitch*
 amorphaeella Cham.
 amorphae F. & B.
 9191 *robiniella Clem.*
 pseudacaciella Fitch
 9192 *auronitens F. & B.*
 9193 *diaphanella F. & B.*
 9194 *minutella F. & B.*
 9195 *scudderella F. & B.*
 9196 *ledella Wlshm.*
 9197 *salicivorella Braun*
 9198 *deceptusella Cham.*
 9199 *intermixta Braun*
 9200 *alnicolella Wlshm.*
 9201 *alni Wlshm.*
 ‡*alnivorella* Cham.
 9202 *malimalifoliella Braun*
 9203 *crataegella Clem.*

- 9204 propinquinella *Braun*
 9205 incanella *Wlsh.*
 9206 populiella *Cham.*
 9207 rhododendrella *Braun*
 9208 sexnotella *Cham.*
 9209 aceriferella *Clem.*
 9210 obsoleta *F. & B.*
 9211 argentinotella *Clem.*
 9212 occitanica *F. & B.*
 9213 apicinigrella *Braun*
 9214 basistrigella *Clem.*
 intermedia *F. & B.*
 9215 celtisella *Cham.*
 nonfasciella *Cham.*
 pusillifoliella *F. & B.*
 9216 lucetiella *Clem.*
 aenigmatella *F. & B.*
 9217 symphoricarpella *Cham.*
 symphoricarpella *F. & B.*
 bolliella *Dyar*
 9218 ostensackenella *Fitch*
 ornatella *Cham.*
 9219 tritaenianella *Cham.*
 consimilella *F. & B.*
 9220 affinis *F. & B.*
 9221 mariaeella *Cham.*
 9222 tiliacella *Cham.*
 9223 oregonensis *Wlsh.*
 9224 fragilella *F. & B.*
 9225 salicifoliella *Cham.*
 atomariella *Zell.*
 9226 tremuloidiella *Braun*
 9227 celtifoliella *Cham.*
 9228 lysimachiaeella *Cham.*
 9229 inusitatella *Braun*
 9230 aberrans *Braun*
 9231 gaultheriella *Wlsh.*
 9232 nemoris *Wlsh.*
 9233 caryaefoliella *Clem.*
 juglandiella *Clem.*
 9234 lentella *Braun*
 9235 saccharella *Braun*
 9236 macrocarpella *F. & B.*
 9237 superimposita *Braun*
 9238 cretaceella *Braun*
 9239 cincinnatiella *Cham.*
 9240 hamadryadella *Clem.*
 alternatella *Zell.*
 9241 umbellulariae *Wlsh.*
 9242 agrifoliella *Braun*
 9243 conglomeratella *Zell.*
 bicolorella *Cham.*
 obtusilobae *F. & B.*
 9244 arizonella *Braun*
 9245 ulmella *Cham.*
 modesta *F. & B.*
 9246 quercivorella *Cham.*
 9247 mediodorsella *Braun*
 9248 australisella *Cham.*
 9249 chambersella *Wlsh.*
 ‡inquenotella *Cham.*
 9250 cervina *Wlsh.*
 9251 platanoidiella *Braun*
 9252 fletcherella *Braun*
 9253 arcuella *Braun.*
 9254 betulivora *Wlsh.*
 9255 eppelsheimi *F. & B.*
 9256 bethunella *Cham.*
 lebertella *F. & B.*
 9257 picturatella *Braun*
 9258 fasciella *Wlsh.*
 ‡unifasciella *Cham.*

- 9259 *castaneaeella* Cham.
 9260 *guttifinitella* Clem.
 toxicodendri F. & B.
 9261 *obstrictella* Clem.
 bifasciella Cham.
 ceriferae Wlshm.

9262 *corylisella* Cham.
 †*bifasciella* Wlshm.

9263 *aesculisella* Cham.

9264 *ostryarella* Cham.

9265 *aceriella* Clem.

9266 *hamameliella* Busck

9267 *tubiferella* Clem.

Porphyrosela Braun

9268 *desmodiella* Clem.
 gregariella Murt.

Protolithocolletis Braun

9269 *lathyri* Braun

Cremastobombycia Braun

9270 *grindeliella* Wlshm.

9271 *solidaginis* F. & B.

9272 *ambrosiella* Cham.
 amoena F. & B.

9273 *ignota* F. & B.
 bostonica F. & B.
 helianthisella Cham.
 helianthivorella Cham.
 elephantopodella F. & B.
 actinomeridis F. & B.

9274 *verbesinella* Busck

Marmara Clem.

9275 *salictella* Clem.

9276 *serotinella* Busck

9277 *guilandinella* Busck

9278 *fulgidella* Clem.

9279 *elotella* Busck

9280 *fraxinicola* Braun

9281 *opuntiella* Busck

9282 *arbutiella* Busck

9283 *fasciella* Cham.
 quinquenotella Cham.

9284 *pomonella* Busck

9285 *auratella* Braun

9286 *leptodesma* Meyr.

9287 *apocynella* Braun

9288 *smilacisella* Cham.

Leucanthiza Clem.

9289 *amphicarpeaeefoliella* Clem.
 saundersella Cham.

9290 *dircella* Braun

Neurolipa Ely

9291 *randiella* Busck

Apophthisis Braun

9292 *pullata* Braun

9293 *congregata* Braun

Leucospilapteryx Spul.

9294 *venustella* Clem.
 eupatoriella Cham.

Chilocampyla Busck

9295 *dyariella* Busck

Neurostrota Ely

9296 *gunniella* Busck

Acrocercops Wall.

9297 *albinatella* Cham.

9298 *quinquestrigella* Cham.

9299 *rhombiferella* F. & B.

9300 astericola *F. & B.*

9301 strigosa *Braun*

9302 affinis *Braun*

9303 arbutella *Braun*

9304 onosmodiella *Busck*

9305 sideroxytonella *Busck*

Neurobatha Ely

9306 strigifinitella *Clem.*
duodecemlineella *Cham.*
quercifoliella *Cham.*

Phyllocnistis Zell.

9307 ampelopsiella *Cham.*

9308 populiella *Cham.*

9309 vitifoliella *Cham.*

9310 vitigenella *Clem.*

9311 liriodendrella *Clem.*

9312 magnoliella *Cham.*

9313 liquidambarisella *Cham.*

9314 intermediella *Busck*

9315 erechtiisella *Cham.*
insignis *F. & B.*

9316 finitima *Braun*

9317 magnatella *Zell.*

Parectopa Clem.

9318 lespedezaefoliella *Clem.*
mirabilis *F. & B.*

9319 robiniella *Clem.*

9320 pennsylvaniella *Eng.*

9321 plantaginisella *Cham.*
geiella *Cham.*
erigeronella *Cham.*

9322 geraniella *Braun*

9323 thermopsella *Cham.*

9324 occulta *Braun*

9325 albicostella *Braun*

9326 bosquella *Cham.*

9327 interpositella *F. & B.*

Micurapteryx Spul.

9328 salicifoliella *Cham.*

Callisto Steph.

Parornix *Spul.*

9329 boreasella *Clem.*

9330 guttea *Haw.*
a solitariella *Dietz*

9331 kalmiella *Dietz*

9332 preciosella *Dietz*

9333 spiraeifoliella *Braun*

9334 crataegifoliella *Clem.*

9335 dubitella *Dietz*

9336 conspicuella *Dietz*

9337 arbitrella *Dietz*

9338 vicinella *Dietz*

9339 strobivorella *Dietz*

9340 arbutifoliella *Dietz*

9341 obliterella *Dietz*

9342 inusitatumella *Cham.*

9343 melanotella *Dietz*

9344 geminatella *Pack.*
prunivorella *Cham.*

9345 quadripunctella *Clem.*
form albifaciella *Dietz* .

9346 innotata *Wlsh.*

9347 trepidella *Clem.*

9348 festinella *Clem.*

9349 texanella *Busck*

9350 alta *Braun*

- Gracillaria** Haw.
- 9351 *minimella* Ely
- 9352 *sebastianiella* Busck
- 9353 *burserella* Busck
- 9354 *perseae* Busck
- 9355 *flavimaculella* Ely
- 9356 *cornusella* Ely
- 9357 *vacciniella* Ely
- 9358 *anthobaphes* Meyr.
- 9359 *amphidelta* Meyr.
- 9360 *bimaculatella* Ely
- 9361 *burgessiella* Zell.
- 9362 *belfrageella* Cham.
auriferella F. & B.
- 9363 *macranthes* Meyr.
- 9364 *blandella* Clem.
juglandivorella Cham.
- 9365 *juglandiella* Cham.
juglandisnigraeella Cham.
- 9366 *ostryaeella* Cham.
- 9367 *violacella* Clem.
desmodifoliella Clem.
- 9368 *azaleella* Brants
azaleae Busck
- 9369 *packardella* Cham.
elegantella F. & B.
inornatella Cham.
- 9370 *coroniella* Clem.
- 9371 *glutinella* Ely
- 9372 *superbifrontella* Clem.
- 9373 *porphyretica* Braun
- 9374 *negundella* Cham.
- 9375 *stigmatella* Fabr.
consimilella F. & B.
purpuriella Cham.
- 9376 *populiella* Cham.
- 9377 *scutellariella* Braun
- 9378 *palustriella* Braun
- 9379 *rhoifoliella* Cham.
- 9380 *sassafrasella* Cham.
- 9381 *obscuripennella* F. & B.
- 9382 *acerifoliella* Cham.
- 9383 *atomosella* Zell.
- 9384 *quercinigrella* Ely
- 9385 *hypericella* Braun
- 9386 *ferruginella* Braun
- 9387 *umbratella* Braun
- 9388 *invariabilis* Braun
- 9389 *reticulata* Braun
- 9390 *flavella* Ely
- 9391 *alnivorella* Cham.
a *alnicolella* Cham.
b *pulchella* Cham.
c *sanguinella* Beut.
d *nigristrigella* Beut.
ruptostrigella Beut.
e *shastaella* Beut.
f *fuscoochrella* Beut.
- 9392 *strictella* Wlk.
adaptella Wlk.
- 9393 *sauzalitoeella* Cham.
- 9394 *murtfeldtella* Busck
- 9395 *serotinella* Ely
- 9396 *melanocarpae* Braun
- 9397 *paradoxa* F. & B.
- 9398 *cuculipennella* Hbn.
fraxinella Ely
- 9399 *aceriella* Cham.
- 9400 *behrensella* Cham.
- 9401 *ribesella* Cham.

OPOSTEGIDAE

Opostega Zell.

- | | | | |
|------|--|------|----------------------------|
| 9402 | albogaleriella <i>Clem.</i> | 9405 | scioterma <i>Meyr.</i> |
| 9403 | nonstrigella <i>Cham.</i> | 9406 | cretea <i>Meyr.</i> |
| 9404 | quadristrigella <i>Cham.</i>
<i>accessoriella</i> F. & B. | 9407 | bistrigulella <i>Braun</i> |

LYONETIIDAE

Leucoptera Hbn.

- 9408 erythrinella *Busck*
9409 guettardella *Busck*
9410 pachystimella *Busck*
9411 robiniella *Braun*

Corythophora Braun

- 9412 aurea *Braun*

Paraleucoptera Heinr.

- 9413 albella *Cham.*

Proleucoptera Busck

- 9414 smilaciella *Busck*

Acanthocnemes Cham.

Caconome Dyar

- 9415 fuscoscapulella *Cham.*

Lyonetia Hbn.

- 9416 alniella *Cham.*
9417 latistrigella *Wlshm.*
9418 candida *Braun*
9419 speculella *Clem.*
nidificansella Pack.
gracilella Cham.
apicistrigella Cham.
9420 saliciella *Busck*

Eulyonetia Cham.

- 9421 inornatella *Cham.*

Metriochoa Busck

- 9422 psychotriella *Busck*

Bedellia Staint.

- 9423 somnulentella *Zell.*
staintonella Clem.

- 9424 minor *Busck*

Philonome Cham.

Busckia Dyar

- 9425 clemensella *Cham.*

- 9426 albella *Cham.*

- 9427 luteella *Cham.*

Bucculatrix Zell.

- 9428 luteella *Cham.*

- 9429 magnella *Cham.*

- 9430 fusicola *Braun*

- 9431 montana *Braun*

- 9432 niveella *Cham.*

- 9433 cuneigera *Meyr.*
errans Braun

- 9434 agnella *Clem.*

- 9435 copeuta *Meyr.*

- 9436 capitialbella *Cham.*

- 9437 albicapitella *Cham.*

- 9438 litigiosella *Zell.*

- 9439 packardella *Cham.*

- | | | | |
|---------|---|------|-----------------------------|
| 9440 | <i>trifasciella</i> Clem.
<i>obscurofasciella</i> Cham. | 9460 | <i>salutatoria</i> Braun |
| 9441 | <i>eupatoriella</i> Braun | 9461 | <i>divisa</i> Braun |
| 9442 | <i>coronatella</i> Clem. | 9462 | <i>arnicella</i> Braun |
| 9443 | <i>immaculatella</i> Cham. | 9463 | <i>fugitans</i> Braun |
| 9444 | <i>ivella</i> Busck | 9464 | <i>ochristrigella</i> Braun |
| 9445 | <i>quinquenotella</i> Cham. | 9465 | <i>albaciliella</i> Braun |
| 9446 | <i>rileyi</i> F. & B. | 9466 | <i>tetrella</i> Braun |
| 9447 | <i>staintonella</i> Cham.
<i>†albella</i> Cham. | 9467 | <i>transversata</i> Braun |
| 9448 | <i>pomifoliella</i> Clem.
<i>pomonella</i> Pack.
<i>curvilineatella</i> Pack. | 9468 | <i>sporobolella</i> Busck |
| 9448, 1 | <i>canadensisella</i> Cham. | 9469 | <i>koebelella</i> Busck |
| 9449 | <i>ambrosiaefoliella</i> Cham. | 9470 | <i>albertiella</i> Busck |
| 9450 | <i>locuples</i> Meyr. | 9471 | <i>eurotiella</i> Wlsh. m. |
| 9451 | <i>sexnotata</i> Braun | 9472 | <i>thurberiella</i> Busck |
| 9452 | <i>ainsliella</i> Murt. | 9473 | <i>althaeae</i> Busck |
| 9453 | <i>variabilis</i> Braun | 9474 | <i>ceanothiella</i> Braun |
| 9454 | <i>ilecella</i> Busck | 9475 | <i>latella</i> Braun |
| 9455 | <i>crescentella</i> Braun | 9476 | <i>quadrigemina</i> Braun |
| 9456 | <i>angustata</i> F. & B. | 9477 | <i>insolita</i> Braun |
| 9457 | <i>chrysothamni</i> Braun | 9478 | <i>pertenuis</i> Braun |
| 9458 | <i>tenebricosa</i> Braun | 9479 | <i>floccosa</i> Braun |
| 9459 | <i>angustisquamella</i> Braun | 9480 | <i>nigripunctella</i> Braun |
| | | | Exegetia Braun |
| | | 9481 | <i>crocea</i> Braun |

TISCHERIIDAE

- | | | | |
|------------------------|---|-------------------------------|--|
| Tischeria Zell. | 9486 | <i>cinereotunicella</i> Braun | |
| 9482 | <i>sulphurea</i> F. & B. | 9487 | <i>citrinipennella</i> Clem. |
| 9483 | <i>clemensella</i> Cham.
<i>bicolor</i> F. & B. | 9488 | <i>mediostriata</i> Braun |
| 9484 | <i>concolor</i> Zell. | 9489 | <i>quercitella</i> Clem.
<i>quercivorella</i> Cham. |
| 9485 | <i>castaneaella</i> Cham.
<i>castanella</i> Wlsh. m. | 9490 | <i>badiiella</i> Cham.
<i>purinosella</i> Cham. |

- 9491 albostraminea *Wlshm.*
 9492 nubila *Braun*
 9493 fuscomarginella *Cham.*
 9494 tinctoriella *Cham.*
 9495 helianthi *F. & B.*
 9496 solidaginifoliella *Clem.*
 9497 pulvella *Cham.*
 9498 explosa *Braun*
 9499 heteroterae *F. & B.*
 9500 omissa *Braun*
 9501 heliopsisella *Cham.*
 nolckeni F. & B.
 9502 longeciliata *F. & B.*

- 9503 ambrosiaeella *Cham.*
 9504 bifurcata *Braun*
 9505 ambigua *Braun*
 9506 immaculata *Braun*
 9507 ceanothi *Wlshm.*
 9508 malifoliella *Clem.*
 9509 aenea *F. & B.*
 9510 roseticola *F. & B.*
 9511 admirabilis *Braun*

Coptotriche Wlshm.

- 9512 zelleriella *Clem.*
 complanoides F. & B.
 latipennella Cham.

OINOPHILIDAE

Phaeoses Forbes

- 9513 sabinella *Forbes*

PSYCHIDAE

Oiketicus Guild.

- 9514 abbotii *Grt.*
 9515 townsendi *Twmsnd.*
 a bonniwelli B. & B.
 9516 dendrokomos *Jones*
 9517 toumeyii *Jones*
 9518 davidsoni *Hy. Edw.*

Thyridopteryx Steph.

- 9519 ephemeraeformis *Haw.*
 coniferarum Pack.
 9519, 1 pallidovenata *Grossb.*
 9520 vernalis *Jones*
 9521 alcora *Barnes*
 9522 meadi *Hy. Edw.*

Platoeceticus Pack.

- 9523 gloveri *Pack.*
 9524 nigrita *B. & McD.*
 9525 jonesi *B. & B.*

Eurukuttarus Hamp.

- 9526 confederata *Grt.*
 9527 traceyi *Jones*
 9528 celibata *Jones*
 9529 cacocnemos *Jones*
 9530 edwardsi *Heyl.*
 carbonaria Pack.
 9531 polingi *B. & B.*

Hyaloscotes Butl.

- 9532 *fragmentella* Hy. Edw.
coniferella Hy. Edw.
fumosa Butl.
 9533 *pithopoera* Dyar

Prochalia B. & McD.

- 9534 *pygmaea* B. & McD.

Zamopsyche Dyar

- 9535 *commentella* Dyar

Apterona Mill.

- 9536 *rileyi* Heyl.
 9537 *fragilis* B. & McD.

Fumaria Haw.

- 9538 *casta* Pall.

Solenobia Zell.

- 9539 *walshella* Clem.

ACROLOPHIDAE**Acrolophus** Poey

- 9540 *furcatus* Wlshm.
 9541 *persimplex* Dyar
 9542 *leopardus* Busck
 9543 *punctellus* Busck
 9544 *diversus* Busck
 9545 *antonellus* B. & McD.
 9546 *cressoni* Wlshm.
 9547 *flavicomus* Busck
 9548 *hirsutus* Busck
 9549 *pyramellus* B. & McD.
 9550 *maculifer* Wlshm.
 9551 *occidens* Busck
 9552 *kearfotti* Dyar
 9553 *cockerelli* Dyar
 9554 *griseus* Wlshm.
 9555 *mortipennellus* Grt.
quadripunctellus Dyar
 9556 *plumifrontellus* Clem.
bombycina Zell.
 9557 *cervinus* Wlshm.
angustipennellus Beut.
 9558 *texanellus* Cham.

- 9559 *hulstellus* Beut.
 9560 *arizonellus* Wlshm.
 9561 *simulatus* Wlshm.
 9562 *laticapitanus* Wlshm.
 9563 *coloradellus* Wlshm.
 9564 *unistriganus* Dyar
 9565 *barnesi* Dyar
 9566 *morrisoni* Wlshm.
 9567 *propinquus* Wlshm.
 9568 *confusellus* Dyar
 9569 *busckellus* Haim.
 9570 *popeanellus* Clem.
scardina Zell.
 9571 *acanthogona* Meyr.
 9572 *exaphrista* Meyr.
 9573 *carphologa* Meyr.
 9574 *leucallactis* Meyr.
 9575 *agrotipennellus* Grt.
 9576 *tenuis* Wlshm.
violaceellus Beut.
 9577 *macrogaster* Wlshm.
 9578 *variabilis* Wlshm.
 9579 *piger* Dyar

9580 *filicicornis* *Wlshm.*
mexicanellus *Beut.*

9581 *dorsimacula* *Dyar*

9582 *arcanelus* *Clem.*

9583 *davisellus* *Beut.*
a minor *Dyar*

9584 *quadrellus* *B. & McD.*

9585 *mora* *Grt.*

TINEIDAE

Myrmecozela *Zell.*

Amydria *Clem.*

9586 *brevipennella* *Dietz*

9587 *effrenatella* *Clem.*

9588 *coloradella* *Dietz*

9589 *arizonella* *Dietz*

9590 *apachella* *Dietz*

9591 *curvistrigella* *Dietz*

9592 *pandurella* *Dietz*

9593 *confusella* *Dietz*

9594 *clemensella* *Cham.*

9595 *onagella* *Dietz*
a occidentella *Dietz*

9596 *obliquella* *Dietz*

9597 *dyarella* *Dietz*

9598 *crescentella* *Kft.*

9599 *margorieella* *Dietz*

9600 *respersa* *Meyr.*

Hypoplesia *Busck*

‡*Paraplesia* *Dietz*

9601 *buskiella* *Dietz*

9602 *dietziella* *Busck*

Paraneura *Dietz*

9603 *simulella* *Dietz*

9604 *ehrhornella* *Dietz*

9605 *cruciferella* *Dietz*

Setomorpha *Zell.*

9606 *insectella* *Fabr.*
operosella *Zell.*
inamoenella *Zell.*
runderella *Zell.*
multimaculella *Cham.*
majorella *Dietz*
transversestrigella *Dietz*
fractiliniella *Dietz*

9607 *sigmoidella* *Dietz*

Epilegis *Dietz*

9608 *cariosella* *Dietz*

Apreta *Dietz*

9609 *paradoxella* *Dietz*

Epichaeta *Dietz*

9610 *nepotella* *Dietz*

Dorata *Busck*

9611 *lineata* *Wlshm.*
virgatella *Busck*

9612 *medioliniella* *Kft.*

9613 *inornatella* *Busck*

9614 *atomophora* *Meyr.*

Scardia *Tr.*

9615 *anatomella* *Grt.*

9616 *coloradella* *Dietz*

9617 *fiskeella* *Busck*

9618 *gracilis* *Wlshm.*

9619 fuscofasciella *Cham.*

9620 pravatella *Busck*

9621 caryophyllélla *Busck*

9622 burkerella *Busck*

9623 approximatella *Dietz*

9624 errandella *Busck*

Dystopasta *Busck*

Dyotopasta *Busck* (*err. typo.*)

9625 yumaella *Kft.*

angustella *Wlsh.*

Xylesthia *Clem.*

9626 pruniramiella *Clem.*

congeminatella *Zell.*

clemensella *Cham.*

kearfottella *Dietz*

9627 albicans *Braun*

Elatobia *H. S.*

Dietzia *Busck*

9628 martinella *Wlk.*

afflictella *Wlk.*

carbonella *Dietz*

Kearfottia *Fern.*

9629 albifasciella *Fern.*

Monopis *Hbn.*

9630 rusticella *Hbn.*

9631 biflavimaculella *Clem.*

a insignisella *Wlk.*

9632 marginistrigella *Cham.*

9633 monachella *Hbn.*

9634 dorsistrigella *Clem.*

subjunctella *Wlk.*

9635 crocicapitella *Clem.*

9636 irrorella *Dietz*

9637 halospila *Meyr.*

Trichophaga *Rag.*

9638 tapetiella *Linn.*

Doleromorpha *Braun*

9639 porphyria *Braun*

Choropleca *Durr.*

†*Cyane* *Cham.*

9640 visaliella *Cham.*

Tinea *Linn.*

9641 misella *Zell.*

9642 obscurostrigella *Cham.*

9643 fuscipunctella *Haw.*

nubilipennella *Clem.*

frigidella *Pack.*

9644 irrepta *Braun*

9645 apicimaculella *Cham.*

9646 orleansella *Cham.*

9647 straminiella *Cham.*

9648 bimaculella *Cham.*

9649 trimaculella *Cham.*

9650 carnariella *Clem.*

9651 griseella *Cham.*

9652 grumella *Zell.*

9653 pellionella *Linn.*

9654 misceella *Cham.*

9655 behrensella *Cham.*

9656 occidentella *Cham.*

9657 sparsipunctella *Wlsh.*

9658 tuscanella *Dietz*

9659 croceoverticella *Cham.*

9660 thoracestrigella *Cham.*

- 9661 *vicinella Dietz*
 9662 *unomaculella Cham.*
 9663 *niveocapitella Cham.*
 9664 *leucocapitella Busck.*
 9665 *seminolella Beut.*
 9666 *ophrionella Dietz*
 9667 *xanthostictella Dietz*
 9668 *imitatorella Cham.*
 9669 *mandarinella Dietz*
 9670 *roburella Dietz*
 9671 *oregonella Busck*
 9672 *rileyi Dietz*
 9673 *multistriatella Dietz*
 9674 *molybdanella Dietz*
 9675 *geniculatella Dietz*
 9676 *arcella Fabr.*
 9677 *auropulvella Cham.*
 9678 *acapnopennella Clem.*
 minutipulvella Cham.
 9679 *tylodes Meyr.*
 9680 *atriflua Meyr.*
 9681 *defectella Zell.*
 9682 *apicisignatella Dietz*
 9683 *angulifasciella Dietz*
 9684 *marmorella Cham.*
 9685 *fuscomaculella Cham.*
 9686 *granella Linn.*
 variatella Clem.
 costotristrigella Cham.
 9687 *cloacella Haw.*
 9688 *interstitiella Dietz*
 9689 *fulvisuffusella Dietz*
 9690 *maculabella Cham.*
- 9691 *marginimaculella Cham.*
 maculimarginella Cham.
 9692 *fuscopulvella Cham.*
 9693 *nigroatomella Dietz*
- Homostinea Dietz**
 9694 *curviliniella Dietz*
- Tineola H. S.**
 9695 *biselliella Hum.*
 lanariella Clem.
- Tenaga Clem.**
 9696 *pomiliella Clem.*
- Hybroma Clem.**
 9697 *servulella Clem.*
 aurosuffusella Cham.
- Tryptodema Dietz**
 9698 *sepulchrella Dietz*
- Mea Busck**
 ‡*Progona Dietz*
 9699 *skinnerella Dietz*
 9700 *bipunctella Dietz*
 9701 *floridella Dietz*
- Diachorisia Clem.**
 9702 *velatella Clem.*
- Homosetia Clem.**
 9703 *argentistrigella Cham.*
 9704 *argentinotella Cham.*
 9705 *crisatella Cham.*
 bifasciella Cham.
 9706 *obscurella Dietz*
 9707 *chrysoadspersella Dietz*
 9708 *costisignella Clem.*

9709 fasciella *Cham.*
 9710 maculatella *Dietz*
 9711 miscecrystalata *Cham.*
 aurocrystalata *Cham.*
 fuscocrystalata *Cham.*
 9712 tricingulatella *Clem.*
 9713 ornatella *Dietz*
 9714 auriferella *Dietz*
 9715 septemstrigella *Cham.*

Pelates *Dietz*
 9716 heteropalpella *Dietz*

Leucomela *Dietz*
 9717 miriamella *Dietz*

Oenoe *Cham.*
 9718 hybromella *Cham.*

Superfamily NEPTICULOIDEA

NEPTICULIDAE

Nepticula v. Heyd.	9737 obscurella <i>Braun</i>
9719 argentifasciella <i>Braun</i>	9738 ostryaefoliella <i>Clem.</i>
9720 scintillans <i>Braun</i>	9739 procrastinella <i>Braun</i>
9721 pteliaeella <i>Cham.</i>	9740 paludicola <i>Braun</i>
9722 quadrinotata <i>Braun</i>	9741 myricaefoliella <i>Busck</i>
9723 trinotata <i>Braun</i>	9742 altella <i>Braun</i>
9724 ceanothi <i>Braun</i>	9743 corylifoliella <i>Clem.</i>
9725 bifasciella <i>Clem.</i>	<i>virginiella</i> <i>Clem.</i>
<i>serotinaeella</i> <i>Cham.</i>	<i>minimella</i> <i>Cham.</i>
? <i>prunifoliella</i> <i>Clem.</i>	9744 opulifoliella <i>Braun</i>
9726 intermedia <i>Braun</i>	9745 quercipulchrella <i>Cham.</i>
9727 diffasciae <i>Braun</i>	9746 condaliaefoliella <i>Busck</i>
9728 rhamnocola <i>Braun</i>	9747 juglandifoliella <i>Clem.</i>
† <i>rhamnella</i> <i>Braun</i>	<i>caryaefoliella</i> <i>Clem.</i>
9729 cerea <i>Braun</i>	9748 apicalbella <i>Cham.</i>
9730 rhoifoliella <i>Braun</i>	<i>leucostigma</i> <i>Braun</i>
9731 terminella <i>Braun</i>	9749 tiliella <i>Braun</i>
9732 villosella <i>Clem.</i>	9750 rubifoliella <i>Clem.</i>
<i>dallasiana</i> <i>F. & B.</i>	9751 virgulae <i>Braun</i>
9733 resplendensella <i>Cham.</i>	9752 nyssaefoliella <i>Cham.</i>
9734 unifasciella <i>Cham.</i>	9753 slingerlandella <i>Kft.</i>
9735 purpuratella <i>Braun</i>	9754 rosaefoliella <i>Clem.</i>
9736 taeniola <i>Braun</i>	9755 exasperata <i>Braun</i>

- 9756 *fuscotibiella* Clem.
ciliaefuscella Cham.
discolorella Braun
- 9757 *canadensis* Braun
- 9758 *ulmella* Braun
- 9759 *variella* Braun
- 9760 *platanella* Clem.
maximella Cham.
- 9761 *clemensella* Cham.
- 9762 *similella* Braun
- 9763 *thoracealbella* Cham.
badiocapitella Cham.
- 9764 *pomivorella* Pack.
- 9765 *chalybeia* Braun
- 9766 *flavipedella* Braun
- 9767 *castaneaefoliella* Cham.
- 9768 *hypericella* Braun
- 9769 *punctulata* Braun
- 9770 *grandisella* Cham.
- 9771 *belfrageella* Cham.
- 9772 *latifasciella* Cham.
- 9773 *crataegifoliella* Clem.
- 9774 *nigriverticella* Cham.
maculosella Cham.
- 9775 *populetorum* F. & B.
- 9776 *saginella* Clem.
quercicastanella Cham.
fuscocapitella Cham.
- 9777 *pallida* Braun
- 9778 *marmaropa* Braun
- 9779 *amelanchierella* Clem.
- 9780 *anguinella* Clem.
- 9781 *platea* Clem.
- Ectoedemia** Busck
- 9782 *obrutella* Zell.
bosquella Cham.
- 9783 *populella* Busck
- 9784 *castaneae* Busck
- 9785 *phleophaga* Busck
- 9786 *heinrichi* Busck
- 9787 *chlorantis* Meyr.
- Obrussa** Braun
- 9788 *ochrefasciella* Cham.
- Glaucolepis** Braun
- 9789 *saccharella* Braun
- Microcalyptris** Braun
- 9790 *scirpi* Braun

Superfamily **INCURVARIOIDEA**

INCURVARIIDAE

Lampronia Steph.

- 9791 *oregonella* Wlshm.
- 9792 *gillettella* Busck
- 9793 *russatella* Clem.
tripunctella Wlshm.
- 9794 *taylorella* Kft.

- 9795 *quieta* Braun
- 9796 *variata* Braun
- 9797 *labradorella* Clem.
- 9798 *aureovirens* Dietz
- 9799 *sedella* Busck
- 9800 *piperella* Busck

- 9801 aenescens *Wlsh.*
 9802 politella *Wlsh.*
 9803 sublustris *Braun*
 9804 obscuremaculata *Braun*
 9805 fuscoleuca *Braun*

Greya Busck

- 9806 humilis *Wlsh.*
 9807 subalba *Braun*
 9808 augustella *Blkmr.*
 9809 solenobiella *Wlsh.*
 9810 punctiferella *Wlsh.*
 a speculella Blkmr.

Chalceopla Braun

‡*Cyanauges* Braun

- 9811 cyanella *Busck*
 9812 dietziella *Kft.*
 9813 itoniella *Busck*
 9814 discalis *Braun*

- 9815 cockerelli *Busck*
 9816 ovata *Braun*

Paraclementia Busck

- 9817 acerifoliella *Fitch*
 iridella Cham.

Phryganeopsis Wlsh.

Setonella McD.

- 9818 brunnea *Wlsh.*
 buscki McD.

Isocorypha Dietz

- 9819 mediotriatella *Clem.*
 flavistrigella Wlsh.
 auristrigella Cham.
 9820 chrysocomella *Dietz*

Eudarcia Clem.

- 9821 simulatricella *Clem.*
 9822 caemeteriella *Cham.*

PRODOXIDAE

Prodoxus Riley

- 9823 quinquepunctellus *Cham.*
 decipiens Riley
 paradoxa Cham.
 9824 intermedius *Riley*
 9825 marginatus *Riley*
 9826 y-inversus *Riley*
 9827 reticulatus *Riley*
 9828 coloradensis *Riley*
 rheumapterella Dietz
 form lautus Ckll.
 form confluens Ckll.
 9829 pulverulentus *Riley*
 9830 sordidus *Riley*

- 9831 cinereus *Riley*
 9832 aenescens *Riley*
 9833 barberellus *Busck*

Tegeticula Zell.

Pronuba Riley

- 9834 alba *Zell.*
 yuccasella Riley
 9835 maculata *Riley*
 form apicella Dyar
 9836 aterrима *Treal.*
 9837 paradoxa *Riley*
 synthetica Riley

ADELIDAE

Nemotois Hbn.	9843	<i>flammeusella</i> Cham. <i>lactimaculella</i> Wlsh.
9838 <i>bellela</i> Wlk.	9844	<i>purpurea</i> Wlk. <i>biviella</i> Zell.
Adela Latr.	9845	<i>singulella</i> Wlsh.
9839 <i>ridingsella</i> Clem. <i>schlaegeri</i> Zell. <i>corruscifasciella</i> Cham.	9846	<i>punctiferella</i> Wlsh.
9840 <i>trifasciella</i> Cham.	9847	<i>bella</i> Cham. <i>chalybeis</i> Zell. <i>iochroa</i> Zell.
9841 <i>trigrapha</i> Zell. <i>fasciella</i> Cham.	9848	<i>aeruginosella</i> Wlsh.
9842 <i>septentrionella</i> Wlsh.	9849	<i>simpliciella</i> Wlsh.

Suborder JUGATAE

ERIOCRANIIDAE

Mnemonica Meyr.	9852	<i>auricyanea</i> Wlsh.
9850 <i>luteiceps</i> Wlk.	9853	<i>aurosarsella</i> Wlsh.
9851 <i>cyanosarsella</i> Willms.	9854	<i>griseocapitella</i> Wlsh.

MICROPTERYGIDAE

Epimartyria Wlsh.	Acanthopteroctetes Braun
9855 <i>pardella</i> Wlsh.	9857 <i>tripunctata</i> Braun
9856 <i>auricrinella</i> Wlsh.	

HEPIALIDAE

Sthenopsis Pack.	Hepialus Fabr.
9858 <i>argenteomaculatus</i> Harris <i>argentata</i> Pack. <i>alni</i> Kell.	9863 <i>hyperboreus</i> Moesch. 9864 <i>confusus</i> Hy. Edw.
9859 <i>purpurascens</i> Pack. <i>ab. los</i> Stkr. <i>ab. perdita</i> Dyar	9865 <i>roseicaput</i> N. & D. <i>form ♀ mutatus</i> B. & B. <i>form ♀ demutatus</i> B. & B.
9860 <i>quadriguttatus</i> Grt. <i>semiauratus</i> N. & D.	9866 <i>pulcher</i> Grt.
9861 <i>thule</i> Stkr.	9867 <i>macglashani</i> Hy. Edw.
9862 <i>auratus</i> Grt.	9868 <i>mathewi</i> Hy. Edw.

- 9869 *novigannus* B. & B.
a mackiei B. & B.
- 9870 *mustelinus* Pack.
labradoriensis Pack.
- 9871 *gracilis* Grt.
furcatus Grt.
- 9872 *lemberti* Dyar
- 9873 *behrensi* Stretch
mendocinolus Behrens
form sequoiolus Behrens
a tacomae Hy. Edw.
- 9874 *montanus* Stretch
desolatus Stkr.
baroni Behrens
anceps Hy. Edw.
rectus Hy. Edw.
- 9875 *californicus* Bdv.
- 9876 *hectoides* Bdv.
modestus Hy. Edw.
inutilis Hy. Edw.
form lenzi Behrens
sangaris Stkr.

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latipunctana Wlshm.	7568	
latiradiellus Wlk.	5878	
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lativittella Rag.	6352	
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laudatella Wlshm.	8223	
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lautiuscula Heinr.	7288	
lautus Ckll.	9828	
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lavernella Cham.	8196	
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lecerfialis B. & B.	6006	
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leucocapitella Busck	9664	
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leucoscia Meyr.	8868	
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subcitrina <i>Wlk.</i>	5283	
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subdentalis <i>Grt.</i>	5448	
subdentosa <i>Dyar</i>	5238	
subditiva <i>Heinr.</i>	6952	
subdivisalis <i>Grt.</i>	5355	
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subfervens <i>Wlk.</i>	8941	
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subsylvella <i>Wlshm.</i>	8833	
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subversana <i>Zell.</i>	7014	
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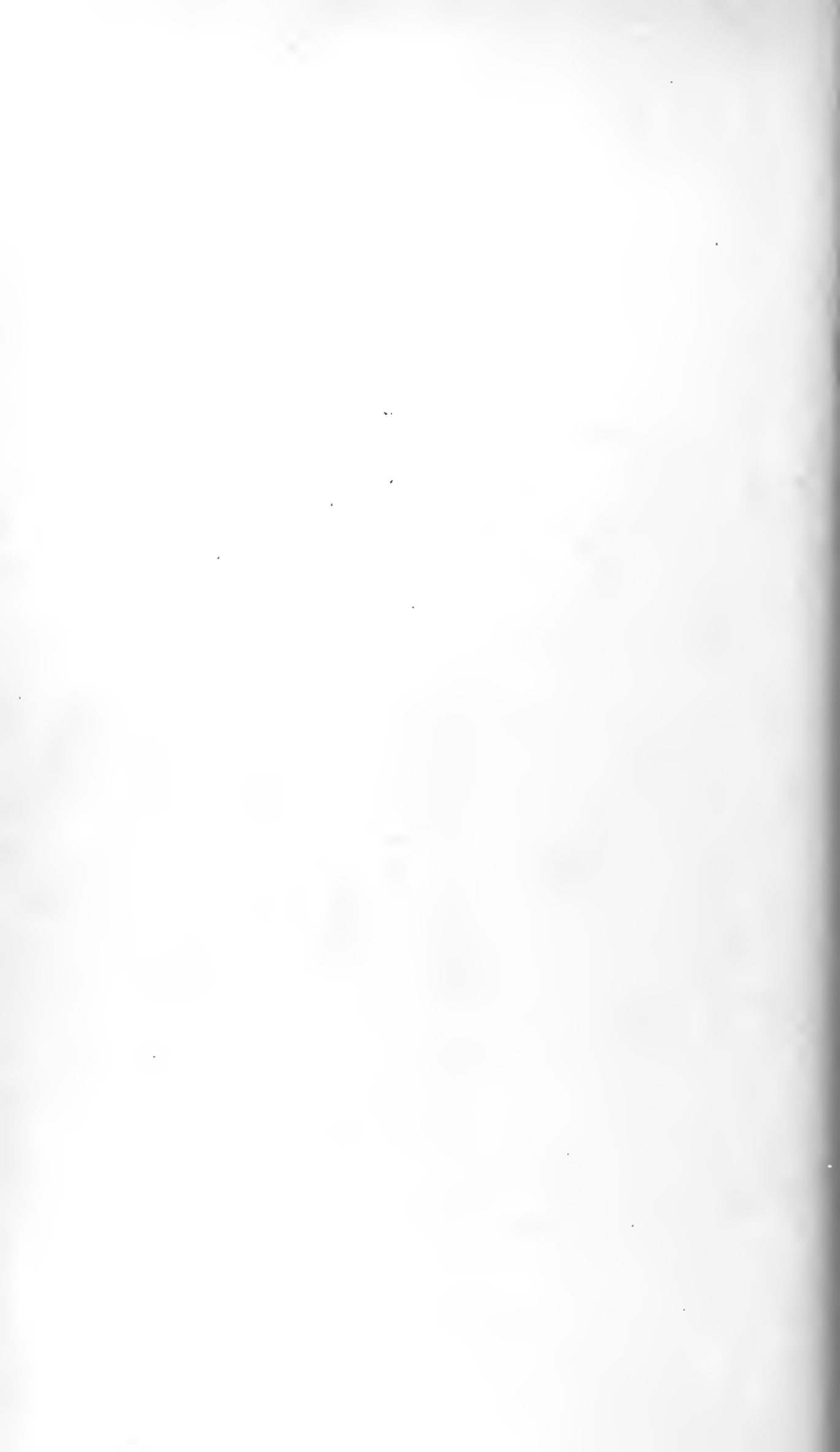
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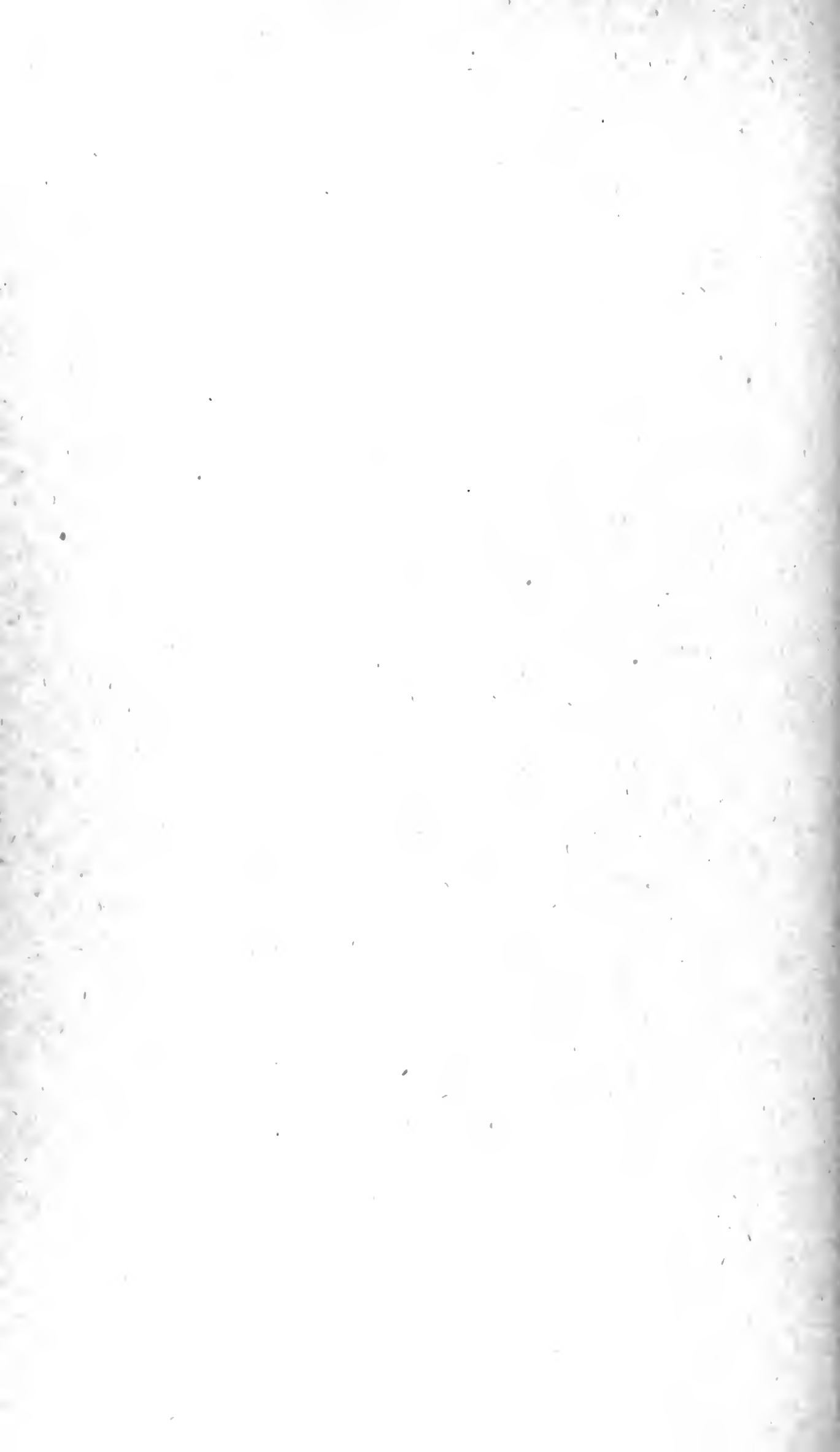
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**Revision of the North American Genera
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—
by **J. McDUNNOUGH, Ph.D.**





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(LEPIDOPTERA)



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A REVISION OF THE NORTH AMERICAN GENERA
AND SPECIES OF THE PHALAEINID SUBFAMILY,
PLUSIINAE (LEPIDOPTERA)*

By J. McDUNNOUGH

Ottawa, Ont.

In both the 1917 and the 1938 Check Lists the arrangement of the Phalaenid subfamily *Plusiinae* followed more or less along the lines of Hampson's revision (1913, Cat. Lep. Phal. Brit. Mus., XIII, 401-594). Some minor changes in nomenclature, due to Hampson's unorthodox method of fixing genotypes, were made as noted (1916, Ent. News, XXVII, 400), but it was recognized at the time that, until a careful study of the group with special reference to genitalia could be undertaken, it was probably as well to follow the latest revision.

Not until very recently has it been possible for me to find the time available for such a revision. The results of a careful study of structural characters, notably genitalia, show the necessity for considerable changes in generic terms and also for a shifting of species under the various headings in order to better emphasize their relationship. The present paper is intended to incorporate these results. It should be noted that the literature cited forms by no means a complete bibliography but merely represents some of the more important references.

The subfamily is a compact one and has been sufficiently well characterized by Hampson (as *Phytometrinae*); further definition on my part is, therefore, unnecessary. Our North American species fall quite naturally into three categories, based on the character of the clavus in the male genitalia, as follows:—

- A. Clavus a short, slightly setose knob arising from a broad base.
- B. Clavus a long, thin rod, variably setose.
- C. Clavus not definitely defined.

The bulk of the species are contained in the first two sections; the clavus is obscure only in the small genus *Pseudeva* Hamp. and the species *albavitta* Ottol. Section A comprises all the species (except *sansoni* Dod) with yellow hindwings and also the species of the *rectangula-interrogationis* group; it is further characterized by the presence of readily recognizable tibial spines,

* Contribution No. 2240, Division of Entomology, Science Service, Department of Agriculture, Ottawa.

mostly confined to the portions of the hind tibiae between the spurs, but occasionally found on all tibiae. Section B includes the balance of the species. The tendency in this section to break up into small groups of species is much more marked than in the former one. In general it may be said that tibial spining is lacking; one or two small groups (to be discussed later) still show a recognizable spining, and individual specimens may frequently be found which show a weak spine or two on a tibia, usually a hind one, if the covering vestiture be carefully removed; such cases, however, are quite common throughout the *Phalaenidae* in species normally spineless, and I do not consider the presence of these single spines sufficient to warrant the term "spined tibiae", especially as they are very difficult to locate.

In Section A considerable confusion has existed regarding the identity of a number of the species and for this reason I have discussed at some length each individual species and have included specific keys based on genitalic characters. In the other sections the species are better known and have been adequately figured; I have, therefore, confined my remarks, on the whole, to genera rather than species, in an attempt to place these on a sounder footing.

The closely related genera *Abrostola* Ochs. and *Mouralia* Wlk. are not considered in the present paper as they show no particularly close relationship to the so-called *Plusia* group and, in any case, require no revision.

The drawings of genitalic structures have been made, under my supervision, by Miss Margaret MacKay of our Forest Insect Survey; her excellent and accurate work adds greatly to the value of the present paper.

SECTION A

Genus **CALOPLUSIA** Sm.

1884, Smith, Bull. Brook. Ent. Soc., VII, 68 (no species mentioned).

1891, Smith, List Lep. Bor. Am., 52 (includes *devergens* Hbn. & *hochenwarthi* Hochenw.)

1893, Smith, Bull. 44 U.S.NM., 258 (adds *alticola* Wlk. to other two).

1895, Grote, Abh. Naturw. Verein Bremen (List N. Am. Eupterotidae, etc.), 62 (sinks to *Syngrapha* Hbn.).

1902, Dyar, Jour. N. Y. Ent. Soc., X, 82 (sinks to *Syngrapha*).

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 405 (designates *hochenwarthi* as genotype).

1916, McDunnough, Ent. News, XXVII, 400 (sinks erroneously to *Syngrapha*).

Palpi upturned, second joint fringed with long hairs in front, third joint free, rather long and pointed, rough-scaled. Eyes rather small and elliptical. Thorax with divided crest and abdomen crested on basal segments dorsally. *Tibiae all spined*; foretibia with row of spines along inner side; mid- and hind-tibiae strongly spined throughout.

MALE GENITALIA. Similar in general type to that of the following genus, *Syngrapha* Hbn. The juxta is armed with a strong, apical spine; the aedeagus is rather long, slightly bulbous at base and strongly shagreened apically; the armature of the vesica consists of a small, basal spine and a short, hollow, *cylinder of chitin, thickly covered with short spines*, situated apically. The eighth abdominal segment has a pair of hair-pencils, at times weak, arising from the cephalic margin.

FEMALE GENITALIA. Ovipositor and ninth segment partially telescoped into the eighth segment. There is no genital plate, the ostium consisting of a membranous opening leading into a short chitinized funnel; it is partially protected by the overlapping caudal margin of the eighth abdominal segment; the ventral side of the funnel may project caudad for a short distance, forming two rounded lobes, giving additional protection to the ostium. Beyond the funnel the ductus bursae is short, of same width as end of funnel and weakly granulose and strigate, somewhat expanding as it enters the bursa at a point on the right side, slightly below the apex of the bursa. Bursa a large oval, membranous sac, the proximal end (apex) of which is produced caudad along the left side of the ductus to form a short auxiliary sac; this sac is strongly shagreened or granulose and from its rounded apex the ductus seminalis arises as a very fine tube.

GENOTYPE. PHALAEANA HOCHENWARTHI Hochenw.
(Lectotype, 1913)

I believe there is justification for the use of *Caloplusia* Sm. for *hochenwarthi* and its North American ally, *ignea* Grt. on the strength of the much stronger tibial spining. Hampson, with probably insufficient material before him, rather confused the issue by placing *devergens* Hbn., the genotype of *Syngrapha*, in *Caloplusia* along with *hochenwarthi*, which led to the sinking in my Check Lists of *Caloplusia* to *Syngrapha*; other authors apparently had fallen into a similar error. Neither in European specimens of *devergens* nor in our good series of specimens of its North American representative, *alticola* Wlk., can I find spining comparable to that of *hochenwarthi*. The spining, with the exception of odd, unimportant, weak spines occurring most frequently on the mid-tibiae and generally quite concealed in the

vestiture, is restricted to the area on the hind-tibiae between the two pairs of spurs. In consequence *devergens* falls into line in this respect with the other yellow-winged species.

CALOPLUSIA HOCHENWARTHI Hochenw.

There seem to be enough genitalic differences in both sexes between European and North American specimens to warrant the supposition that typical *hochenwarthi* does not occur in North America. I had at first supposed that the form, smaller and paler than *ignea* Grt., found in Labrador and subarctic regions, could be placed under this name, but find the genitalia do not match, although the general appearance is extremely similar.

In the male genitalia of specimens from the Tyrolese Alps the harpe, which is well-developed with outcurved and pointed apex, is *considerably broader* than in North American specimens; the apical spine on the juxta is in general not so long and the spines of the short, chitinized cylinder in the vesica are more numerous; the width of the clasper is somewhat variable in character.

In the female genitalia the chitinized funnel-like portion of the ostium is definitely longer than in our North American forms, with distinct *bilobed, caudad projection*, entirely lacking in the others. The apex of the bursa, caudad of the entrance of the ductus, is considerably narrowed and forms a *single convolution*; this convolution is not found in North American specimens.

It is a matter of opinion as to whether our North American representative is a distinct species or merely a well-defined race; in view of the definite genitalic differences, particularly in the female, I am following Hampson and treating *ignea* Grt. as specifically distinct from *hochenwarthi* of the European Alps.

CALOPLUSIA IGNEA Grt.

Plate I, fig. 1; IV, fig. 1.

PLUSIA IGNEA Grt. 1863, Proc. Ent. Soc. Phila., II, 274.

CALOPLUSIA IGNEA Smith, 1893, Bull. 44, U.S.N.M., 258 (as syn. *ALTICOLA*); Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 409, Pl. 236, fig. 3.

SYNGRAPHIA IGNEA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 76; Wolley-Dod, 1906, Can. Ent., XXXVII, 46; *id.* 1913, *op. cit.*, XLIV, 241.

The large size and bright orange hind-wings distinguish the species superficially from its European ally. The type material came from Colorado, probably in the vicinity of Denver; the species, however, occurs at higher altitudes all through the Rocky

Mts. and is not uncommon on most of the Albertan peaks; it also occurs in the Cascade and Coast ranges and is recorded as far north as Atlin, B. C. by Blackmore in his B. C. Check List (1927).

In the male genitalia the apical spine of the juxta is very strongly developed; the harpe, while of the same length and shape as that of *hochenwarthi*, is *considerably thinner*; the spines on the chitinous piece of the vesica are fewer but somewhat longer and stouter. In the female genitalia, as already indicated, the ventral, caudad projections of the funnel-like portion of the ductus are lacking, leaving the ostium protected solely by the overlapping eighth segment; the chitinized funnel is shorter than in *hochenwarthi*. The bursa is not so attenuated as in the European species and the portion which extends caudad of the inception of the ductus is shorter and broader, *without a convolution* and more heavily shagreened on its ventral surface.

C. IGNEA VAR SIMULANS var. nov.

PLUSIA HOCHENWARTHII Moeschler, 1874, Stett. Ent. Zeitschr., 160; *id.* 1884, Verh. z. b. Gesell. Wien, 296.

For the form of *ignea* which occurs on the east coast of Labrador and adjacent regions and which has generally gone under the name *hochenwarthi*, a new varietal name seems necessary. This race is smaller and paler than *ignea*, the yellow color of the hindwings being even paler than in *hochenwarthi* with the smoky basal suffusion extending more strongly along the inner margin. The forewings are practically similar to those of *hochenwarthi* but the silver mark seems on the whole to be narrower and less extended toward the t. p. line; this feature, however, is probably variable, as in all *Plusias*. In genitalia there are only minor differences from those of *ignea*.

HOLOTYPE—♂, Rocky Bay, Quebec Labrador July 7, 1915 (P. A. Taverner). No. 5391 in Canadian National Collection.

ALLOTYPE—♀, Labrador, (R.W. 76). Purchased by Wolley-Dod from Staudinger and Bang-Haas, Dresden and probably a specimen from the Moeschler Collection.

PARATYPES—1 ♂, Labrador, (ex. Coll. Bang-Haas); 1 ♀, Little Charlton Is. James Bay, July 14 (J. M. Macoun).

There is also a male specimen in the collection from Klondike River, Yukon Terr. which appears to belong here; the silver mark is, however, greatly reduced.

Morrison's record of *hochenwarthi* from the White Mts. N. H. (1875, Ann. Lyc. Nat. Hist. N. Y. XI, 99) needs verification. It may refer to the species from the same locality named *monticola* by Packard.

Genus **SYNGRAPHA** Hbn.

1821, Hübner, Verz. bek. Schmett., 250 (includes *ain* Hbn., *divergens* Fabr. and *devergens* Hbn.).

1895, Grote, *op. cit.*, 62 (designates *devergens* Hbn. as genotype).

1902, Dyar, *op. cit.*, 82 (designates *divergens* Fabr.=*hochenwarthi* Hochenw. as genotype, *ultra vires*).

1913, Hampson, *op. cit.* 412 (designates *ain* Hbn. as genotype, *ultra vires*).

Palpi and vestiture similar to that of *Caloplusia* Sm. Eyes elliptical, varying considerably in size from small to moderately large. Fore and mid-tibiae unspined (or practically so); hind-tibiae with *spines only between the two pairs of spurs*.

MALE GENITALIA. Tegumen of moderate height with the vinculum rather short and either bluntly pointed or rounded apically. Uncus thin, simple, in some cases (*interrogationis* group) compressed laterally towards apex, terminating in a small, sharp spine. Clasper of moderate length and of more or less even width throughout, at times slightly expanded costo-apically, with rounded apex and slightly sinuate costal margin; no differentiation of cucullus which remains unspined; in a few instances the costa either shows a preapical spine (*octoscripta*, *epigaea*) or is produced into a sharp spine, projecting slightly beyond the rounded apex of clasper (*variana*, *selecta*). Sacculus not greatly expanded at base, giving rise on its costo-basal margin to the short, chunky clavus; it extends as a narrow neck to the base of the harpe which is usually situated well before the middle of the clasper and extends transversely across same; this harpe consists of a chitinous spine or rod, frequently curved, and of very variable length and breadth in the different species. Juxta a large rounded or shield-shaped plate, often with a short, sharp apical spine. Aedeagus variable in size; in some species (*devergens*, *alticola*, *diasema*, etc.) it is short and chunky; in the majority of cases it is narrower and moderately long with either finely spiculate or shagreened apical section; the vesica may be unarmed (*parilis*, *devergens*) but generally shows a strong, terminal, straight or curved spine to which in some instances (*orophila*, *celsa*, *angulidens*) a weaker basal spine is added. In all species examined except the genotype, *devergens*, the eighth abdominal segment is provided with a pair of large ventral hair-pencils, situated in deep pockets; in *devergens* and its close ally *alticola*, these are greatly reduced.

FEMALE GENITALIA. In general quite similar to those of *Caloplusia*. The ostium may be a simple opening, unprotected (*parilis*, *sackeni*) or may be partially covered by a chitinous plate, projecting backward from the caudal margin of the funnel, and either entire and ventral (*interrogationis* group) or bifid with latero-ventral arms (*alticola*, *orophila*). The chitinized funnel

varies greatly in length in the various species, quite short in *devergens* and *parilis*, very long in the *interrogationis* group, thus reducing the length of the remainder of the ductus. The entrance of the granulose and strigate portion of the ductus into the bursa is always below its apex but it may enter almost ventrally (*parilis*) or on the right side (*devergens* and the *rectangula-celsa* group) or on the left side as in most of the yellow-winged species (*microgamma*, *orophila*, *diasema*), the *interrogationis*-*octoscripta* group and *epigaea*. The apex of the bursa, from which the ductus seminalis arises, shows a variable degree of shagreening; the bursa, in general, forms a long membranous sac.

GENOTYPE. NOCTUA DEVERGENS Hbn. (Lectotype, 1895)

The present usage of this generic term conforms more or less to that of Hampson; I cannot, however, agree to Hampson's separation of *parilis* Hbn. into a separate genus (*Autographa* in err.) on the strength of the small eyes. The size of the eyes seems more or less regulated by the size of the insect and all manner of intergrades between small and large exist in the group. In all species, however, the shape of the eye appears to me to be decidedly elliptical and scarcely justifies the term "round" as applied by Hampson in his generic definition.

The identity of most of the species included in the genus has been adequately established by Ottolengui in his two papers (1902, Jour. N. Y. Ent. Soc., X, 57-82, Pls. VI-IX; 1919, *op. cit.*, XXVII, 117-125, Pl. XV). In a few instances, however, due to close similarity of maculation or to rather blurred illustrations, certain names seem to have been misplaced; I shall comment on these in more detail later.

Generally speaking, as noted by Ottolengui, the genitalia, both male and female, furnish excellent characters for differentiation of the various species, and in the keys at the end of the text portion I have endeavored to bring out some of the salient features exhibited by those organs.

SYNGRAPHA PARILIS Hbn.

PLUSIA PARILIS Moeschler, 1884, Verh. z. b. Gesell, Wien, XXXIV, 296; Aurivillius, 1890, Bih. k. Sv. Vet.-Akad. Handl., XV (4) 17, Pl. I, fig. 6; Hampson, 1908, Can. Ent., XL, 106.

SYNGRAPHA PARILIS Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 77, Pl. VIII, fig. 15.

AUTOGRAPHA PARILIS Hampson, 1913, Cat. Lep. Phal. Brit. Mus. XIII, 404.

Apart from the record from the far North on which Walker's synonym, *quadriplaga*, was based, Moeschler records the species from Labrador, and Hampson from the Alberta Rockies. A few specimens from this latter locality (*ex. Coll. Wolley-Dod*) are in our collection and are the only ones I have been able to ex-

amine; the abdomens of these have, unfortunately been crushed very flat and, in consequence, it has been impossible to get a very accurate idea of the exact position of the various parts of the female genitalia.

In both sexes the genitalia show marked similarity to those of *devergens* and *alticola*; in the male genitalia the lack of the prominent spine at apex of juxta is probably the most noticeable character; in the female genitalia the differentiating character I have used may not hold when better material can be examined; there are some slight differences in the size and shape of the initial, chitinized section of the ductus.

SYNGRAPHA DEVERGENS Hbn.

With only a single pair of *devergens* from the Swiss Alps available for study I am in doubt as to whether our North American *alticola* can be considered a good species or merely a variety of *devergens*. In the male genitalia there is practically no character on which a separation could be made; in the female genitalia *devergens* appears to lack the pair of sublateral, chitinous appendages at the sides of the ostium which in some specimens of *alticola* are very well defined; as, however, the degree of chitination is rather variable in the different specimens I have examined, I am uncertain whether the character is a specific one.

Moeschler (1884, op. cit.) records the species from Labrador; I have seen no material from this region, but judging by the comparison made by Moeschler between Labrador and European specimens, believe such specimens will fall under *alticola*. Winn's record of the species in his List of Quebec Lepidoptera (p. 47) from the Gomin Swamp near Quebec City needs checking; it may very likely refer to *montana* Pack, which occurs around Ottawa in similar localities.

SYNGRAPHA ALTICOLA Wlk.

Plate I, fig. 2; IV, fig. 2.

PLUSIA ALTICOLA Hampson, 1908, Can. Ent., XL, 106.

CALOPLUSIA ALTICOLA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 407, pl. 236, fig. 2.

SYNGRAPHA ALTICOLA Wolley-Dod, 1913, Can. Ent., XLV, 241.

For the present and pending further study I am treating *alticola* as a species distinct from the European *devergens*, following Hampson.

Besides specimens collected by Mrs. Nicholl in the Alberta Rockies as noted by Hampson, others are before me from Banff, Nordegg and Laggan in Alberta; Mt. Apex and Jesmond in British Columbia; Churchill, Manitoba; Great Slave Lake and Great Bear Lake, N. W. T. and a pair taken by myself on July 25, 1928

on the northern slopes of Mt. Washburn, Yellowstone Park, Wyo., the female being very large and pale, especially in the subterminal area.

MALE GENITALIA. Characteristics are found in the sharp, apical spine on the broad, shield-shaped juxta; the short, chunky aedeagus without armature; the broad, well-developed harpe, slightly outwardly oblique, projecting at times over costa, terminated by a sharp spine and with its inner side forming a slight ridge. The twin hair-pencils of the eighth segment are reduced to small tufts of hair.

FEMALE GENITALIA. Ostium flanked by a couple of pockets, formed by invaginations of the eighth abdominal segment and connected by irregularly ridged membrane; ostium itself circular, protected not only by the overlapping membrane of the eighth abdominal segment but also by a pair of sublateral crinkly, chitinous projections (wings) of irregular shape and variable in the intensity of their chitinization. The initial portion of the ductus seminalis (funnel) is short, more or less quadrate and rather weakly chitinized with the exception of a narrow, medio-dorsal, membranous strip; beyond the funnel the ductus narrows slightly and forms a short, largely membranous tube, weakly granulose and, prior to its entrance into the bursa, showing numerous fine chitinous striations. The entrance to the membranous bursa is distinctly on the right side, the rounded apex of the bursa projecting caudad of the opening for a short distance; this area is finely granulose and at its extremity gives rise to the very fine ductus seminalis; the remainder of the large sac-like bursa is clear, membranous.

SYNGRAPHA MICROGAMMA Hbn.

Plate I, fig. 3.

SYNGRAPHA MICROGAMMA Wolley-Dod, 1910, Rep. Ent. Soc. Ont., 1909, 118; *id.*, 1913, Can. Ent., XLV, 240.

AUTOGRAPHA MICROGAMMA Barnes & Benjamin, 1923, Can. Ent., LV, 212.

Besides the specimens mentioned by Dod, I have before me single males from Behrens Riv., Man., Harlan, Sask., and Jesmond, B. C. These agree in maculation and genitalia with a specimen from Esthonia, Europe and confirm Dod's determination.

MALE GENITALIA. Juxta with well-developed apical spine. Aedeagus moderately long and very slightly bulbous at base, strongly spiculate apically, armed with a short, stout, slightly curved, apical spine, arising from a broadened base, and a very minute basal one, situated in the bulbous portion. Clasper rather narrow, rounded apically, with a long, thin, upright, tapering harpe, projecting well over costal edge.

FEMALE GENITALIA. (Based on a European specimen). Ostium with traces of the lateral pockets found in *alticola*. The opening itself is unprotected but flanked by two lateral, sub-triangular pieces of chitin. Ductus a broad tube, chitinized lightly for practically its entire length, slightly expanded on right side at $2/3$ and with membranous thickening on this same side; bending somewhat to left below bulge. The entrance to the bursa is on the left side and shows numerous fine chitinous strigae with a certain amount of granulation. The apex of the bursa is rounded and projects caudad for a short distance on right side of ductus beyond entrance; it is strongly shagreened and shows a brownish coloration; the remainder of the sac-like bursa is clear and smoothly membranous.

S. MICROGAMMA var. MONTANA Pack.

PLUSIA MONTANA Packard, 1874, Guide Stud. Ins., 313.

AUTOGRAPHA MONTANA Barnes & Benjamin, 1923, Can. Ent., LV, 212.

Packard's name, based on material from the White Mts., N. H. (probably Mt. Washington) had been overlooked by all previous authors until resurrected by Benjamin who referred the name to *microgamma*. I have two specimens before me from Mt. Albert, Gaspé Co., Que. and another one taken in early June at the Mer Bleue, a peat bog near Ottawa, which seem to match Packard's brief description and certainly justify Benjamin's reference.

In two features of the male genitalia *montana* differs from *microgamma* of Europe and western Canada; the apical spine of the juxta is lacking and the spine at apex of the aedeagus is considerably larger and more curved. As compared with *microgamma* in maculation of forewings my eastern specimens all show a stronger incurve of the t. p. line in the submedian fold followed by a slight outward angle on vein 1; the s. t. line is more strongly marked and the tail of the silver mark seems less drawn out. More material will be needed to determine whether these differences are of specific value; for the present I treat *montana* as an eastern race of *microgamma*.

SYNGRAPHA OROPHILA Hamp.

Plate I, fig. 5; IV, fig. 3.

AUTOGRAPHA DIASEMA Ottolengui (*nec* Bdv.), 1902, Jour. N. Y. Ent. Soc. X, Pl. VIII, fig. 6.

PLUSIA OROPHILA Hampson, 1908, Can. Ent., XL, 105; *id.*, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 416, Pl. 236, fig. 5.

AUTOGRAPHA OROPHILA Wolley-Dod, 1913, Can. Ent., XLV, 239.

This species was confused by earlier authors with *diasema* Bdv. until the error was rectified by Hampson. It occurs all through the Alberta Rockies and we also have specimens from Mt. Apex, near Hedley, B. C.

MALE GENITALIA. Juxta without apical spine. Aedeagus rather short and lightly shagreened apically, characterized by the armature which consists of a thin, fairly long, basal spine and a strong, tapering, apical one, the point of which (in my slide at least) is directed cephalad. Harpe strongly outcurved, decumbent, with pointed apex.

FEMALE GENITALIA. Ostium characteristically protected by two sublateral, pointed projections (wings), arising from the heavily chitinized and strongly strigate ductus-funnel, which is quite long and rather broadly membranous on dorsal side. The continuation of the ductus shows an initial, small, membranous bulge to the right and then is strongly strigate with thin, chitinous strigae, which continue for some distance down the left side of the bursa, beyond the entrance; the right side is almost entirely chitinous. The apex of the bursa bulges caudad only slightly and is covered with a brown chitinous plate, extending down the right side of bursa for some length; remainder of bursa clear and membranous, very feebly granulose.

SYNGRAPHA DIASEMA Bdv.

Plate I, fig. 6; IV, fig. 4.

PLUSIA DIASEMA Aurivillius, 1890, Bih. K. Sv. Vet.-Akad. Handl., XV, (4), 18.

SYNGRAPHA DIASEMA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 416, Pl. 236, fig. 6.

SYNGRAPHA DIASEMA BOREA McDunnough (*nec* Auriv.) 1921, Can. Ent., LVIII, 85.

AUTOGRAPHA DIASEMA McDunnough, 1922, Can. Ent., LIV, 139.

Besides a series of 1 ♂, 5 ♀, from Hopedale, Labr. our collection contains single males from Nordegg, Alta. and Gt. Bear Lake, N. W. T. Hampson records it from St. Martin's Falls, Albany Riv., N. Ont., and figures a female; in this the secondaries are much too yellow for *diasema* and the determination will need careful checking. All our specimens agree in maculation and male genitalia with a European specimen from Lule, Lappmark, (*ex* Coll. Dod).

MALE GENITALIA. Apex of aedeagus and the anellus very heavily spiculate, no apical spine on juxta. Aedeagus wide and chunky, armed with a broad dagger-shaped, transversely-placed, apical spine. Harpe upright, thin, pointed, almost reaching to costa of clasper.

FEMALE GENITALIA. Ostium considerably broader than in *orophila*; the two sublateral wings project caudad but their apices are broadly rounded and not pointed. The ductus-funnel is strongly chitinized and strigate, gradually tapering, and noticeably longer than in *orophila*. The continuation of the ductus bends to the left and is short and broad, less heavily strigate and chitinized than in *orophila*, the strigae continued for only a very short distance along the left side of the bursa, below the entrance. The bursa consists of the usual large, membranous sac; the rounded apex projects caudad along the right side of the ductus for a greater distance than in *orophila* and shows none of the chitinization found in this species, being merely finely granulate; the membrane of the remainder of the bursa is smooth.

SYNGRAPHA LULA Strand

Plate IV, fig. 5.

AUTOGRAPHA SACKENI Wolley-Dod (*nec* Grote), 1906, Can. Ent., XXXVIII, 45.

SYNGRAPHA SNOVI Hampson (*nec* Hy. Edw.), 1913, Cat. Lep. Phal. Brit. Mus., XIII, 418, Pl. 236, fig. 8.

SYNGRAPHA SNOWI ab. LULA Strand, 1916, Arch. f. Naturgesch., A, (2), 47.

AUTOGRAPHA DIVERSIGNA Ottolengui, 1919, Jour. N. Y. Ent. Soc., XXVII, 121, Pl. XV, fig. 2; McDunnough, 1921, Can. Ent., LIII, 85; *id.* 1922, Can. Ent., LIV, 139.

AUTOGRAPHA LULA Barnes & Benjamin, 1923, Can. Ent., LV, 212.

A good series is before me from various localities in the Alberta Rockies. It is unfortunate that the name *diversigna* cannot be used for the species; until, however, some authoritative ruling on the status of aberrational names can be secured from a committee on Entomological Nomenclature, I follow Benjamin in raising Strand's aberrational name to specific rank.

MALE GENITALIA. Apex of aedeagus and anellus heavily spiculate, no apical spine on juxta. Aedeagus longer and narrower than in *diasema*; the apical spine is smaller, obliquely-placed and arises from one end of a lengthened base. Harpe much as in *diasema* but showing a slight ridge below the pointed apex.

FEMALE GENITALIA. Sublateral chitinous wings of *orophila* and *diasema* undeveloped. Ductus-funnel much shorter than in those two species, less heavily chitinized and strigate and more goblet-shaped; its dorsal surface is largely membranous and the right side shows a membranous thickening. The continuation beyond the funnel is short and broad, bent somewhat to left at inception and rather irregular, with the usual chitinous strigations, heaviest on the right side but, on the whole, weaker than in the other two species. Bursa smooth, membranous, very slightly granulose on the surface of the rather broadly rounded apex.

SYNGRAPHA BOREA Auriv.

Plate I, fig. 4.

PLUSIA DIASEMA var BOREA Aurivillius, 1890, Bih. K. Sv. Vet.-Akad. Handl., XV, (4), 17, Pl. I, fig. 8.

AUTOGRAPHHA SACKENI ? Gibson, 1920, Rep. Can. Arct. Exp., III, (I), 37, Pl. III, fig. 14.

Aurivillius considered *borea*, based on Greenland specimens, as a variety of *diasema*; he characterized it as smaller, with a more V-shaped silver mark but more especially laid stress on the yellow hind wings with narrower dark border.

Besides the specimen from Mayo Lake, Yukon, doubtfully referred by Gibson to *sackeni*, 1 ♂, 4 ♀, are before me from Dawson, Yukon Terr. These all match Aurivillius's description and figure of *borea* excellently and I believe I am correct in placing them under this name. The genitalia in both sexes show, however, that *borea* is a good species, quite distinct from *diasema* and more closely allied to *lula* and *sackeni*. From *sackeni* this species is distinguished by the lack of any yellow patch on primaries near base of costa.

MALE GENITALIA. Juxta and aedeagus much as in *lula*. The harpe is of moderate width throughout with *truncate apex* from the underside of which a minute spine projects; this truncate apex at once distinguishes *borea* from both *diasema* and *lula* in which the harpes taper to sharp points.

FEMALE GENITALIA. Very similar to those of *lula* but with definite suggestions of weakly chitinized wings extending caudad from ostium-margin. Ductus-funnel weakly chitinous and strigate, except for a strip on left side which shows stronger chitination; the base of the funnel is membranous and projects as a short sac below and to the right of the continuation of the ductus; this continuation as well as the bursa are much as in *lula*.

SYNGRAPHHA SACKENI Grt.

AUTOGRAPHHA SACKENI Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 75, Pl. VIII, fig. 17; *id.*, 1919, *op. cit.*, XXVII, 121, Pl. XV, fig. 1.

This Colorado species is excellently illustrated in Ottolengui's 1919 paper and any confusion which formerly existed as to its identity should now be eliminated. The species is known to me from Colorado (Hall Valley) and from the Bozeman region of Montana. I have had no males available from which to make genitalic slides.

FEMALE GENITALIA. Very similar to those of *borea*. The ductus-funnel is much the same shape but slightly better chitinized and more strigate; the terminal membranous sac on right side found in *borea* seems to be lacking; the distal portion of the ductus bends to the left as in *lula* and is strigate much as in this species.

The apex of the bursa is tinged with brown, due to a very definite shagreening, not found in the allied species mentioned.

SYNGRAPHA SNOWII Hy. Edw.

AUTOGRAPHA SNOWII Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 75, Pl. VIII, fig. 16; *id.* 1919, *op. cit.*, XXVII, 121, Pl. XV, figs. 2, 3.

This species is unknown to me.

SYNGRAPHA RECTANGULA Kby.

Plate I, fig. 7; IV, fig. 6.

SYNGRAPHA RECTANGULA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 423, Pl. 236, fig. 14.

AUTOGRAPHA RECTANGULA ab. DEMACULATA Strand, 1916, Arch. f. Naturgesch. A. (2), 47.

AUTOGRAPHA RECTANGULA race NARGENTA Ottolengui, 1919, Jour. N. Y. Ent. Soc., XXVII, 122, Pl. XV, fig. 8.

By the figures given by Hampson and Ottolengui the species is readily identified. The names *mortuorum* Gn. and *demaculata* Strand are based on variations in the silver mark; as such variations are almost countless throughout the group, it seems of little value to retain the names, even for individual aberrations. *Nargenta* Ottol. applies to the so-called race from British Columbia in which the silver suffusion of primaries is reduced; this feature, however, occurs also among our eastern specimens and some before me can only be separated from western forms by the locality label. The species is common in eastern Canada and we have bred specimens from larvae beaten from hemlock. Brown and McGuffin record the larva (1942, Can. Ent., LXXIV, 56) as feeding also on spruce and balsam fir. I have seen no specimens from the prairie Provinces although Brodie in his Manitoba List records it from eastern Manitoba.

MALE GENITALIA. Juxta a large, subrectangular plate, without apical spine. Aedeagus long with slightly bulbous base, strongly spiculate apically and armed with a stout, curved, pointed spine, arising from an expanded base. Clasper broadened somewhat apically with costa curving gently dorsad; harpe short and chunky, with rounded apex bearing a small spine on inner side; *base of sacculus flat.*

FEMALE GENITALIA. Ostium unprotected. Ductus-funnel goblet-shaped, moderately strongly chitinized and strigate (or crinkled); caudal margin irregular and well excavated medio-ventrally. On ventral side the broadly rounded base of the funnel overlaps shortly a following tubular portion of the ductus, which is lightly chitinized, more strongly on dorsal side where it projects well into the funnel; on the right side apically this tube expands into a small membranous sac. The terminal portion of the ductus

is short, sinuate, expanded as it enters the bursa on the right side, and granulose and strongly strigate. The bursa is a broad, membranous sac, less elongate than in the preceding species; the apex is broadly rounded and is finely granulose, the granulations extending to the entrance of the ductus bursae.

SYNGRAPHA ALIAS Ottol.

Plate I, fig. 8.

AUTOGRAPHA ALIAS Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 69, Pl. VIII, fig. 13; *id.* 1919, *op. cit.*, XXVII, Pl. XV, fig. 6; Dod, 1913, Can. Ent., XLV, 191.

AUTOGRAPHA INTERALIA Ottolengui 1919, Jour. N. Y. Ent. Soc., XXVII, 122, Pl. XV, fig. 5.

This species is very closely related to *rectangula*; the larva is also a feeder on spruce and according to Brown and McGuffin (*op. cit.*) cannot be distinguished from that of *rectangula*. However, as there appears to be a good character in the male genitalia I treat *alias* as a distinct species.

Interalia, described as a new species from two females from Nordegg, Alta., bears the same relationship to *alias* that *nargenta* does to *rectangula*, but is even more poorly defined as a race. In a topotypical series from Nordegg before me (including a female compared with Bowman's paratype), I find considerable variation in the amount of silvery suffusion on primaries and the same is true of eastern specimens. The species ranges across the entire Dominion of Canada and a couple of specimens are before me from as far north as Dawson, Yukon Territory.

MALE GENITALIA. Very similar to those of *rectangula*; the harpe is reduced, however, to a mere small knob and the costobasal edge of the sacculus shows a *strong, raised projection*, not found in *rectangula*.

FEMALE GENITALIA. Scarcely distinguishable from that of *rectangula*. The tubular, mid-section of the ductus is somewhat shorter and the lateral projection terminally on the right side is stronger and rather better chitinized. The entrance of the ductus into the bursa seems further down the right side and in consequence the rather narrower apex projects further caudad along the ductus. These differences are quite slight and may not be entirely constant.

SYNGRAPHA CELSA Hy. Edw.

Plate I, fig. 9; IV, fig. 7.

AUTOGRAPHA CELSA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 72, Pl. 8, fig. 4; *id.* 1919, *op. cit.*, XXVII, 123, Pl. XV, figs. 9, 14.

AUTOGRAPHA EXCELSA Wolley-Dod, 1913, Can. Ent., XLV, 237, (*partim*).

SYNGRAPHA ALTERA Hampson (*nec* Ottolengui), 1913, Cat. Lep. Phal. Brit. Mus., XIII, 429, Pl. 236, fig. 22.

SYNGRAPHA ALTERA ab ALTERANA Strand, 1916, Arch. f. Naturgesch., A. (2), 47.

AUTOGRAPHHA CELSA race SIERRAE Ottolengui, 1919, Jour. N. Y. Ent. Soc., XXVII, 123, Pl. XV, fig. 10.

As indicated by Ottolengui the species is a rather variable one, especially in the amount of dark suffusion in the inner median area; it appears to be widespread throughout the south-central area of British Columbia and on Vancouver Island. I have seen no Oregon specimens but accept Ottolengui's reference as correct. From the two preceding species *celsa* is best separated by the much yellower basal 2/3 of the hindwings. *Alterana* Strand, another of Strand's names based on variation in the silver-mark, can be consigned to the synonymy without loss. *Sierrae* Ottol., of which I have only one male before me from Placer County, Calif., seems a good Californian race, characterized by the generally paler color of primaries; a few females, however, from Vancouver Island match my specimen pretty closely and when plenty of Oregon material can be studied it may be found that the two intergrade.

MALE GENITALIA. Juxta without apical spine. Aedeagus rather broad, heavily spiculate apically, base scarcely bulbous, with *distinct small spine*; apical spine *very large and curved*, much longer than in the two preceding species. Clasper of nearly even width throughout with rounded apex at costa; harpe short, stubby and triangular, terminated by a sharp spine at the base of which is sometimes a small wart on outer side.

FEMALE GENITALIA. Ostium flanked by small, weakly chitinized, lateral pockets. Ductus-funnel long, carrot-shaped, heavily chitinized, especially in lower half; the caudal margin projects ventrally only slightly over the ostium, is somewhat crinkly, with a broad, shallow, median excavation; the base of the funnel *bends backward to the right* and terminates in a narrow membranous sac. The continuation of the ductus arises on the dorsal side of the funnel, just above the bend, and consists of a straight tube, about the width of the funnel-base and longer than usual, being somewhat longer than the funnel; it is very heavily strigate with fine chitinous strigae and enters the bursa on the right side, somewhat above the middle. The apex of the bursa extends caudad, along the left side of the ductus, for a considerable distance, is very heavily shagreened and of a brownish color, gradually deepening to almost black at extreme apex; the ductus seminalis arises on the right side just below apex. The lower half of the sac-like bursa is weakly granulose.

SYNGRAPHA ANGULIDENS Sm.

AUTOGRAPHHA ANGULIDENS Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 71, Pl. VIII, fig. 5.

SYNGRAPHHA ANGULIDENS ab. PLUSIOIDES Strand, 1916, Arch. f. Naturgesch., A. (2), 47.

The identity of this species has never been in doubt. Strand's name, based on a specimen without the white dot beyond the silver stigma, belongs in the synonymy. The species occurs in Colorado and adjoining states (Utah, Arizona).

MALE GENITALIA. Allied to those of *celsa* but the juxta shows a weak apical spine; the spiculation of the apical area of aedeagus is much finer, more granulose; the apical spine, while fully as long, is somewhat slimmer. The harpe is *considerably longer* and extends almost to costa with the *pointed apex weakly incurved*.

FEMALE GENITALIA. Differ principally from those of *celsa* in that the membranous appendage at the base of the ductus-funnel projects at right angles on the right side and *is not recurved*. The funnel is scarcely as long as in *celsa* and the entrance to bursa somewhat nearer apex of same.

S. ANGULIDENS var. EXCELSA Ottol.

Plate I, fig. 10.

AUTOGRAPHHA EXCELSA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 71, Pl. VI, fig. 3; Wolley-Dod, 1913, Can. Ent., XLV, 236.

SYNGRAPHHA EXCELSA ab EXCELSANA Strand, 1916, Arch. f. Naturgesch. A., (2), 47.

AUTOGRAPHHA ALTA Ottolengui, 1919, Jour. N. Y. Ent. Soc., XXVII, 125 (*nom. nov.*).

AUTOGRAPHHA EXCELSANA Barnes & Benjamin, 1923, Can. Ent., LV, 213.

Autographa excelsa Ottolengui is not a primary homonym of *Plusia excelsa* Kretschmar, and, as I disagree with Benjamin's ideas on secondary homonyms, I see no reason for the non-employment of Ottolengui's name as originally used. *Excelsana* is another of Strand's names that is not worth retaining.

Excelsa was based primarily on material from Jefferson, N. H. but the author mentions other specimens from the Lake Louise region of Alberta which he considered similar. We have a long series from various points in the Alberta Rockies and from South-central British Columbia but I have been unable to examine any eastern specimens. I can find no differences between the genitalia of *angulidens* and those of western *excelsa* sufficiently

great to be considered as of specific value, in spite of Ottolengui's claim; I treat, therefore, *excelsa* as the northern race of *angulidens*, somewhat smaller in size and darker in coloration of forewings.

The following group, which I have termed the *interrogationis-octoscripta* group, is one of the most difficult in the genus. Primarily the species may be distinguished from those of the preceding *rectangula-celsa* group by the nature of the t. p. line of primaries; in the present group this line is finely and evenly crenulate, especially in the costal half, whereas in the other group the line is irregularly wavy or sinuate, without any finer crenulations.

The species in the group are all very similar in general appearance and distinctly northern or even subarctic in distribution. The lack of adequate material, the difficulty in correctly identifying older existing names and the doubt existing concerning several names proposed by Ottolengui and based generally on single specimens have all added to the confusion; then, too, the not inconsiderable variation in coloration of the forewings in individual specimens of the species involved has made it difficult to judge as to whether we are dealing with good species, races or merely forms. Hampson for instance, sinks practically all of Ottolengui's names as "aberrations" of one species and has been more or less followed in this treatment in our existing Check Lists. With fairly adequate material before me I have made numerous slides of the genitalia of both sexes and have found, in certain instances, excellent characters for separation; these, in the case of the females, can generally be noted by removing a few hairs and scales from the ventral end of the abdomen. I have further been greatly assisted by a careful study of certain of Ottolengui's types, made available to me through the courtesy and co-operation of the authorities of the American Museum of Natural History, New York City.

SYNGRAPHA U-AUREUM Gn.

Plate I, fig. 11; IV, fig. 8.

PLUSIA ARCTICA Moeschler, 1884, Verh. z. b. Gesell. Wien, XXXIV, 296.

PLUSIA U-AUREUM Aurivillius, 1890, Bih. K. Sv. Vet.-Akad. Handl., XV, (4), 16, Pl. I, fig. 7.

PLUSIA U-AUREUM Smith, 1893, Bull. 44, U. S. N. M., 254.

AUTOGRAPHA U-AUREUM Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 68.

AUTOGRAPHA U-AUREUM Wolley-Dod, 1913, Can. Ent., XLV, 238.

AUTOGRAPHHA ARCTICA McDunnough, 1921, Can. Ent., LIII, 84.

AUTOGRAPHHA U-AUREUM Benjamin, 1933, Pan Pac. Ent., IX, 61.

The status of *u-aureum* has long been a bugbear to North American entomologists. In the first place it was ostensibly based on material from Dalecarlia, Sweden; later investigation, however, (*vide* Wolley-Dod, *op. cit.*) led European workers to believe that the original specimens came from Labrador. I consider, therefore, that the synonymy as given by Aurivillius is correct and followed it in my recent Check List. The so-called type (a female) of *u-aureum* is now in the U. S. National Museum (*ex* Colls. Oberthur and Barnes); I examined it carefully several years ago and found that it matched Labrador specimens in the same collection; since then Mr. C. Heinrich has kindly made a slide of the genitalia and states that they agree with those of certain Labrador specimens which I sent to him. With a very long series from Labrador before me, and after a study of numerous genitalic slides, I have reached the still somewhat doubtful conclusion that *u-aureum* must be held as a distinct species and not as a race of *interrogationis*; this latter species, or at least a race of it, also occurs sparingly in Labrador. All the older authors (Guenée, Moeschler, Staudinger, Aurivillius) mention as the distinctive characters of *u-aureum* (*groenlandica*, *arctica*), as compared with the European *interrogationis*, the smaller size, greyer color of primaries and, more particularly, the *strongly white-checked fringes*; these characters hold in general in my Labrador series and have enabled me to separate out a small number of larger specimens which I consider as representing *interrogationis* in this region. In the male genitalia I could find no thoroughly satisfactory characters for separation from *interrogationis* but in the females the condition of the chitinized ventral plate, which partially protects the ostium, seemed to offer a better character; in *u-aureum* this plate is normally weak and does not jut out caudad beyond the posterior margin of the eighth abdominal segment which also acts as a partial cover to the ostium; in *interrogationis* it projects distinctly for a moderate distance, and is much more expanded laterally in its terminal portion than is the case in *u-aureum*. Such conditions can generally be observed by simply removing a few hairs from the ventral sides of the female abdomens; in *interrogationis* the end of the plate may then be seen projecting over the hollow which represents the initial portion of the ostium; in *u-aureum* the plate is seldom visible at all; only in those specimens where the rear segments are less telescoped than usual can it be observed beneath the integument of the eighth segment, the posterior margins of the two practically coinciding. I must admit, however, that a few specimens have given trouble when examined in this superficial manner; while

everything in the way of coloration and maculation pointed to *u-aureum*, the ventral plate was distinctly projecting; in such doubtful cases slides are essential.

There is considerable variation in the coloration of the primaries, especially in the amount of dark suffusion in the inner median area; this may be very considerable at times and in one specimen covers almost the entire wing. The silver-mark normally consists of a V followed by a dot; in rare cases this dot may be lacking or may be joined to the V, either at the base or along the outer arm. Besides a long series from Hopedale, Labr. there is a single worn specimen from Churchill, Man. before me which, while lacking fringes, appears to belong here on size and general appearance.

MALE GENITALIA. Juxta rather weakly chitinized, narrowing apically from a broad base and terminated by a weak protuberance with rounded apex. Aedeagus long and with slightly bulbous base, weakly spiculate apically, armed with an apical spine, distinctly short and chunky, arising at one end of an irregularly broadened, chitinous base. Clasper of moderate width, costa slightly upturned at apex and terminating in a sharp point but not produced into a spine; harpe rather variable apparently, generally of moderate length, reaching nearly to costa, with broad base and pointed apex, somewhat incurved; at times of more even width throughout, and again longer and extending over costa; clavus also of variable length and apparently very unstable.

FEMALE GENITALIA. Ostium partially protected by the integument of the eighth abdominal segment which is moderately invaginated, forming the usual pockets at the sides of the ostium. The ductus bursae consists of an initial, long, broad, chitinous tube, extending almost to the bursa and connected with it by the very short membranous section with its usual granulations and chitinous strigations; this distal section is bent sharply to the right and enters the bursa well down on the left side. The proximal half of the chitinous tube gradually expands toward the ostium, *but not strongly so*, and is feebly strigate. It is produced on the ventral side for a short distance caudad, forming the ventral plate which partly protects the ostium. This plate is narrower than in *allied species*, being scarcely more than half the width of the caudal margin of the ductus; it is normally also *shorter* and is entirely *covered by the integument of the eighth abdominal segment*; it shows considerable variation in size, being at times almost vestigial, and its caudal margin may be either straight or with a broadly V-shaped median excavation, giving it a bilobed appearance. The bursa is a moderate-sized membranous sac, which normally, when containing a spermaphore, is sinuate or *shaped like a question-mark*, due to the fact that the apical portion

bends to the left behind (dorsad of) the ductus and then curves cephalad; the whole apex is distinctly granulose; the fine ductus seminalis arises at the extreme apex and, curving backward, runs caudad along the side of the bent portion of the bursa.

S. U-AUREUM var. PALLIDA Ottol.

AUTOGRAPHA PALLIDA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 71, Pl. VI, fig. 7.

After a study of the type, a female from Salmonier, Newfoundland, there seems little doubt that *pallida* has been wrongly placed as a race of *octoscripta* and that the name should be transferred to *u-aureum*. The type is an old, worn specimen of Thaxter's collecting, which accounts for the pale nature of the basal 2/3 of the hindwings in Ottolengui's figure; when in good condition these wings would undoubtedly show the same smoky suffusion in this area as is found in *u-aureum*. Whether the shape of the silver mark, with the dot considerably enlarged and joined to the V-mark, is a normal one I have no means of knowing, as I have seen no other Newfoundland material; such a condition occurs, however, rarely in my Labrador series. For the present I am giving *pallida* racial status until such time as topotypical series can be examined.

S. U-AUREUM var. VACCINII Hy. Edw.

PLUSIA VACCINII Smith, 1893, Bull. 44, U. S. N. M., 254.

AUTOGRAPHA VACCINII Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 71, Pl. VIII, fig. 3.

AUTOGRAPHA ARCTICA var. VACCINII McDunnough, 1921, Can. Ent., LIII, 85.

Ottolengui's figure is a good one of this so-called race from the higher regions of the Presidential range, N. H., more particularly from the Alpine Garden of Mt. Washington. It has been recorded from the Adirondacks but Forbes in the "List of the Insects of New York" page 627, states that such references may be based on specimens of *alias*; the record needs verification. It is quite within probability, however, that the species occurs on the higher peaks of the Gaspé region (Mt. Albert) or of the state of Maine.

There is no difference in genitalia from those of *u-aureum*.

SYNGRAPHA INTERROGATIONIS Linn.

Plate IV, fig. 9.

SYNGRAPHA INTERROGATIONIS Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 430.

AUTOGRAPHHA INTERROGATIONIS Benjamin, 1933, Pan. Pac. Ent., IX, 61.

I have a small series of European *interrogationis* from Scotland before me for comparison with the Labrador series of 3 ♂ 6 ♀ which I picked out, as already mentioned, from the *u-aureum* series on the strength of the larger size, the lack of pure white checkering in the fringes and the more pronounced purple-gray tinges in the pale areas of forewing. The two series appear to agree in the genitalia of both sexes and I am therefore placing the Labrador specimens as *interrogationis*. Eventually, possibly, a racial name may be required but at the present time it seems inadvisable.

As already stated the male genitalia (*vide* Pierce, 1909, Genit. Brit. Noct., Pl. XXIX) show no very marked differences from those of *u-aureum*; the apical portion of the harpe, in those slides examined, seemed to be more bent inwards, and the apical spine in the aedeagus somewhat longer and slightly curved. Whether these characters are definitely of specific value remains to be seen when more material is available for examination. In the female genitalia the mouth of the ostium and the beginning of the chitinous ductus seem definitely broader than in *u-aureum* and the lateral edges are turned downward (cephalad) to form the inner sides of the invaginated pockets; the ventral plate is longer and broader with either a straight or sinuate caudal margin, being at times weakly crinkly. The apical section of the bursa, when a spermaphore is present, is bent to the left below the ductus but *not curved cephalad*, the bursa, in consequence, being more L-shaped than S-shaped. In certain specimens where the bursa contained no spermaphore and was, in consequence, less fully inflated, the apex of the bursa projected caudad on the right side of the ductus without any bend to the left.

S. INTERROGATIONIS var. HERSCHELENSIS Benj.

AUTOGRAPHHA ALTERA ? Gibson, 1920, Rep. Can. Arct. Exp. III, I, 37, Pl. III, fig. 13.

AUTOGRAPHHA INTERROGATIONIS HERSCHELENSIS Benjamin, 1933, Pan. Pac. Ent., IX, 61.

Benjamin based his name on a single male taken by Owen Bryant at Herschel Island, Yukon Terr. I saw this specimen several years ago and matched it pretty well with a male in our Collection from East Main River, James Bay, Que. Judging by the locality and genitalia the worn specimen mentioned doubtfully by Gibson as *altera* will also fall here. Besides these two males there are single large females before me from Dawson, Y. T., Churchill, Man., and Nordegg, Alta. which show a type of genitalia similar to those of Labrador *interrogationis*. It seems rather

presumptuous to base a racial name on a single specimen especially in a species of known variability, so the exact status of *herschelensis* must remain doubtful until much more material from northern localities is available; for the present I am employing the term to cover all our scanty material from the north-western section of Canada.

SYNGRAPHA ALTERA Ottol.

Plate I, fig. 12; IV, fig. 10.

AUTOGRAPHHA ALTERA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 69, Pl. VIII, fig. 9.

AUTOGRAPHHA VARIANA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 70, Pl. VI, fig. 10.

Both *altera* and *variana* have been generally misidentified, the former name being applied to specimens of *interrogationis*, whilst the latter was confused with *octoscripta*. A study of the type material and genitalia shows that both names apply to slightly different forms—possibly races—of a single distinct species, closely allied to *octoscripta*.

Altera was based on a female specimen from Nipigon, Ont., and a cotype from the Adirondacks, N. Y.; I have been able to match the holotype with a female from Larder Lake, Ont., both in maculation and genitalia. The species is a small one, considerably smaller than *octoscripta* as noted by Ottolengui whose description and figure are quite good. It might be added that on the primaries *altera* shows traces of the ruddy suffusion in the submedian fold, interior to the t. p. line, which is quite characteristic and better developed in *octoscripta* and scarcely ever found in *interrogationis* and *u-aureum*. The darker basal area of the hindwings in *altera* at once separates it from *octoscripta* where the basal 2/3 is largely pale grayish-ochreous.

Variana was based on a female specimen from St. John, N. B. and I have matched it very closely with a pair of specimens in our collection from White Pt. Beach, N. S. The abdomen of the type is glued on and I have doubts as to its authenticity; in consequence I have made no genitalic slide. However, my Nova Scotia female is such a good match for the type and agrees in genitalia so exactly with my *altera* female that I have no hesitation as regards the relationship of the two names.

Variana, as far as is known, would appear to be a sea-coast form and has the pale areas of the primaries more extended and accentuated than in the type form; this difference, however, is not as great, when the actual type specimens are seen side by side, as one would be led to believe from the figured photographs. Still it is probable that the name *variana* may be used in a racial sense.

MALE GENITALIA. (from a *variana* specimen) Juxta a bulb-shaped plate, terminating apically in a weak, blunted projection. Aedeagus long and moderately broad, strongly spiculate apically and armed with a *thin, long, apical spine* with weak base. Clasper narrow, costa terminating in a *distinct, short, spine* projecting beyond the rounded apical margin of cucullus; harpe *sickle-shaped*, tapering from a broader base.

FEMALE GENITALIA. Ostium well protected by the overlapping integument of the eighth abdominal segment and by a *strongly projected, ventral plate*, the sides of which are parallel and its caudal margin well-excavated centrally. Initial section of ductus heavily chitinized and well strigate in proximal half, *broader than usual*, and with *rounded, chitinous projection*, almost as broad as the ductus-tube, extending beyond the origin of the short, terminal, membranous section. This section is heavily strigate, arises ventrally from the chitinous section, bending slightly to the right and entering the bursa on the left side. Bursa rather *small and narrow* (all specimens examined without spermatophore), with the more strongly granulose apex projecting caudad on right side of ductus.

SYNGRAPHA OCTOSCRIPTA Grt.

Plate I, fig. 13; IV, fig. 11.

AUTOGRAPHA OCTOSCRIPTA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 70, Pl. VIII, fig. 14.

AUTOGRAPHA OCTOSCRIPTA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 425, Pl. 236, fig. 17. (*partim*).

AUTOGRAPHA OCTOSCRIPTA Wolley-Dod, 1913, Can. Ent., XLV, 191; *id.* 1915, *op. cit.*, XLVII, 130.

AUTOGRAPHA OCTOSCRIPTA ab BETA Strand, 1916, Arch. f. Naturgesch. A. 2, 47.

Grote, since he attributed the species to Sanborn, apparently made no type designation. No specimens of Sanborn's exist in the Cambridge Museum, according to Dr. Banks, so I imagine the female specimen from the Grote Collection in the British Museum with Grote's blue-bordered name-label attached, as mentioned by Dod (*op. cit.*), will have to be considered as the holotype.

Ottolengui's figure, apart from being somewhat blurred, gives a fair idea of the species; Hampson's figure is distinctly poor, with much too yellow secondaries. The species may be distinguished from the other members of the group by its larger size, the square exsertion of the s. t. line below the apex of primaries, along with a ruddy suffusion on the inside of the t. p. line below the cell, and by the paler color of the basal 2/3 of the secondaries. The genitalia are quite characteristic.

Octoscripta is transcontinental in distribution, is quite common in certain sections of the Maritime provinces and extends

northward to Labrador and Churchill, Man. The species has been bred at Ottawa from a larva on *Vaccinium*.

MALE GENITALIA. Characterized by a *strong, preapical spine on costa of clasper*, projecting at right angles to the plane of the rounded cucullus; harpe also characteristic, being *broadly triangular*, with sharply pointed apex projecting beyond costa of clasper. Aedeagus slightly expanded at $2/3$ and then contracted to form the heavily spiculate apical section; armed with a straight spine of moderate size with slightly expanded base.

FEMALE GENITALIA. Ostium with well-developed, invaginated, lateral pockets. Anal plate *very strongly projected caudad*, with *rounded sides*, often considerably fluted and strigate; caudal margin rounded or with a small V-shaped, median excision; the terminal portion of the plate is joined to the chitinized ductus by a narrower bar of chitin, the whole appearing *somewhat paddle-shaped*. The strongly chitinized ductus is similar to that of *altera* but narrower and with the *terminal projection confined to the right side* and only half the width of the ductus; the strongly strigate and membranous portion of the ductus is very short and enters the bursa on left side just below the apex. Bursa much as in *altera*.

S. OCTOSCRIPTA var. EPSILON Ottol.

AUTOGRAPHIA EPSILON Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 70, Pl. VI, fig. 8.

This so-called species was based on a male, collected by the Harriman Alaska Expedition at Kodiak, Alaska, and now in the United States National Museum. Mr. C. Heinrich informs me that a slide of the genitalia shows that the apical portions of the claspers had been broken off and that in consequence the characteristic structural details could not be determined. However, basing my conclusion on other minor genitalic characters and on Ottolengui's excellent figure, I am of the opinion that *epsilon* has been correctly placed as a pale race of *octoscripta*.

S. OCTOSCRIPTA var. MAGNIFICA Ottol.

AUTOGRAPHIA MAGNIFICA Ottolengui, 1919, Jour. N. Y. Ent. Soc., XXVII, 124, Pl. XV, fig. 13.

There seems little doubt that *magnifica*, the female type of which from Ucluelet, Vancouver Is. B. C. is before me, is a pale race of *octoscripta*; there is also a male from the same locality in our collection which shows to a somewhat lesser degree the characteristic pale suffusion of primaries which I would term a light lavender-gray rather than the "creamy white" mentioned by Ottolengui. *Magnifica* would seem to be a coastal form, bearing the same relationship to *octoscripta* that *variana* does to *altera*.

SYNGRAPHA ZETA Ottol.

AUTOGRAPHHA ZETA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 70, Pl. VI, fig. 1.

The type is a female, bearing one of Neumoegen's old labels "Calgary, N. W. T.", which, as has already been several times pointed out, is a very ambiguous locality.

I have carefully examined the specimen and find that the figure given is excellent. Very characteristic are the deep brownish color (not black-brown) of the median area below the silver mark and the pale, almost whitish, terminal area; the shape, too, of the silver mark is curious but this is probably not constant. The deep brown color of the hindwings precludes reference to *octoscripta* and I have been unable to match the type with anything in our collection. The abdomen has been glued in two places and its authenticity may be doubted, especially as it originally was obtained from Jacob Doll, whom Dyar once termed "a notorious mender of specimens". A superficial examination shows a strongly protruding anal plate which would throw *zeta* into the *octoscripta* group if the abdomen belongs. For the present *zeta* must be placed as a good species following *octoscripta*.

SYNGRAPHA SURENA Grt.

Plate I, fig. 14.

AUTOGRAPHHA SURENA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 73, Pl. VIII, fig. 10.

This rare species is adequately figured by Ottolengui. Besides a couple of specimens from Hopedale, Labrador, we have in our collection one from Rimouski, Que. and two from Smoky Falls, near Kapuskasing, Northern Ontario.

MALE GENITALIA. Juxta with small rounded apical protuberance. Aedeagus long and fairly bulbous at base, weakly spiculate apically, armed with a long, straight, sharply pointed, apical spine. Harpe well-developed, of nearly even width throughout, bent inward at apex and terminating in *two short spines*.

I have been unable, from lack of material, to examine the female genitalia.

SYNGRAPHA EPIGAEA Grt.

Plate I, fig. 16; IV, fig. 12.

AUTOGRAPHHA EPIGAEA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 73, Pl. VII, fig. 16.

AUTOGRAPHHA EPIGAEA Wolley-Dod, 1905, Can. Ent., XXXVII, 252.

SYNGRAPHHA EPIGAEA ab. EPIGAEELLA Strand, 1916, Arch. f. Naturgesch., A, (2), 47.

This well-known species is easily determinable by Ottolengui's figure. Strand's aberration is based on a specimen in which the tail of the silver mark is almost lacking. The larva is a *Vaccinium*-feeder and is not uncommon in peat-bogs around Ottawa. It is transcontinental in distribution.

MALE GENITALIA. Juxta without apical spine. Aedeagus broad and long, faintly spiculate apically, armed with a *long, bluntly pointed bar of chitin*, extending from base to well beyond middle of the organ. Clasper with a *strong, costal, preapical spine* and rounded apex; harpe long, thin, and tapering to a point.

FEMALE GENITALIA. Very characteristic. The long, strongly chitinized, proximal 2/3 of the ductus is extended caudad over the ostium as *two large asymmetrical, rounded lobes*. The distal portion of the ductus is narrow and membranous in its initial portion but quickly broadens and becomes heavily strigate, entering the bursa obliquely on the left side in a *broad opening that occupies the whole central portion of this side*, the caudal edge of the ductus at the point of entrance, as well as an adjoining section of the bursa, being chitinized. The fundus of the bursa is a smallish, bulbous sac, the bursa narrowing opposite the ductus-opening and expanding in the apical half, with a *large chitinous plate* and some membranous thickening on the right side. The fine ductus seminalis is given off on the left (inner) side of this section, just below the apex.

SYNGRAPHA SELECTA Wlk.

Plate I, fig. 15.

AUTOGRAPHHA SELECTA Ottolengui, 1902, Jour. N. Y. Ent. Soc., X, 72, Pl. IX, fig. 7.

SYNGRAPHHA SELECTA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 421, Pl. 236, fig. 11.

AUTOGRAPHHA SELECTA Wolley-Dod, 1915, Can. Ent. XLVII, 130.

Another well-known species with transcontinental distribution, and extending into the far north; specimens are before me from Churchill, Man. and Whitehorse and Dawson, Yukon Terr. The stigma is very variable, both in shape and coloration.

MALE GENITALIA. Juxta without apical spine. Aedeagus long and broad, heavily spiculate apically, armed with a *long, thin spine* at base and a curved piece of tapering chitin in the median section, the point directed toward base. Clasper long and narrow, costa terminating in a *small, sharp spine*; harpe small, outwardly oblique, bluntly pointed.

FEMALE GENITALIA. Ductus bursae *entirely membranous* or extremely weakly chitinized; the funnel is represented by a short, broad section with sinuous caudal margin and broad, U-shaped base which slightly overlaps the following section on the ventral side. This is followed by a short, moderately broad, faintly granulose section which, after sending a large sac-like projection to the right, broadens enormously to over twice its previous width and continues thus to the bursa-entrance on the left side where it bends inward and narrows slightly. The bursa is a curved, membranous sac, the narrowed apical section *bending to the left* beneath (dorsad of) the ductus; the apex is heavily shagreened and of a *black-brown color*. The ductus seminalis *arises on the left side*, considerably below the extreme apex.

Genus **ANAGRAPHA** gen. nov.

Plate II, fig. 1; V, fig. 1.

Similar in vestiture and tibial spining to *Syngrapha*. The male genitalia, however, show a marked degree of specialization. Tegumen much more elongate than in *Syngrapha*, terminating in a long, thin uncus; vinculum broadly rounded terminally, clasper broadening gradually toward apex, the costal margin thickly clothed with fine hair which extends inward to middle of clasper in the apical half; attached to the ventral margin is a closely appressed series of long thick hairs, almost spinelike in character; the costa terminates in a small spine and below this the apical margin is abruptly and irregularly cut off and entirely free of hair. Sacculus rather broader at base than in *Syngrapha* with short, knobbed clavus; it is joined by a thin, upright band of chitin to the harpe which is a long, recurved hook, slightly bulbous at extremity, arising from the basal half of the clasper. Juxta a rather weakly chitinized plate with a rounded apical projection. Aedeagus rather long, gradually narrowing from base to apex and finely granulate around the apex; vesica strongly spiculate through its entire length and with a single, large basal spine.

FEMALE GENITALIA. Telescoping of ninth segment and ovipositor feeble. Ostium unprotected, circular, leading into a short, chitinized, quadrate, initial portion of the ductus bursae; beyond this the ductus narrows to a short sinuate, strongly chitinized and strigate tube which leads into a moderate-sized, chitinized and spiculate sac, situated on the right side of the ductus and probably representing the apical portion of the bursa. From the base (cephalic end) of this sac the ductus seminalis arises as a fine tube, curving immediately caudad and running parallel to the ductus bursae. The bursa proper is a large, membranous sac, projecting to the left at right angles to the chitinized apex and semilunate in shape.

GENOTYPE. *PLUSIA FALCIFERA* Kby.

The marked difference in genitalia between *falcifera* and the species included in *Syngrapha* would seem to justify a new generic term; *falcifera* is probably a highly specialized offshoot from this genus.

After an examination of the type of *simplicima* Ottol. a worn female simply labelled "Oregon", I incline to agree with Dod (1913, Can. Ent., XLV, 239) who maintains that it merely represents a small aberrant form of *falcifera*. The type specimen has the coloration of the primaries of the brown *simplex* form and the broad tail to the silver mark is entirely missing; the Dod collection contains a specimen of typical gray *falcifera* with similar reduction of this tail and there is also a specimen before me of *simplex* from Aweme, Man. with reduced tail but with the reduction scarcely carried to such an extent as in *simplicima*. All other maculation of *simplicima* is identical with that of *falcifera*.

SECTIONS B AND C.

Genus **AUTOPLUSIA** gen. nov.

Plate II, fig. 2; V, fig. 5.

Wings long and narrow with slight emargination of termen below apex. Tibiae as in *Syngrapha* with light spining on hind-tibiae between the spurs. Dorsal and abdominal tufting as usual.

MALE GENITALIA. Tegumen, vinculum and uncus much as in *Syngrapha*. Clavus long and thread-like; sacculus rather broadly expanded in basal portion, the clasper, in consequence appearing to be much narrowed in medial area; shortly before apex the costa forms a rounded or pointed protuberance, opposite which a strong, curved spine projects over the ventral margin (possibly representing the harpe or pollex); cucullus weakly chitinized, rounded and covered with fine hair. Aedeagus long, somewhat sinuate, with slightly bulbous base, and a weak, latero-apical thickening of chitin, bearing a few weak spines; vesica armed with a long band of fine spines and a very strong, pointed apical spine arising from a broad base.

FEMALE GENITALIA. With considerable similarity to those of *Syngrapha*. The semicircular ostium is well protected ventrally by the projecting integument of the eighth abdominal segment and by a broad, chitinous, tricorn plate. The ductus is broad, strongly chitinized for its entire length, and enters the bursa well down on the left side. The rather narrow, elongate, membranous bursa bends apically to the left below (dorsad of) the ductus bursae, the extreme apex being finely granulose and giving rise to the ductus seminalis.

GENOTYPE. *PLUSIA EGENA* Gn.

Along with *egena* Gn., my characterization of which is based on specimens from San Diego, Calif., *olivacea* Skin. must obvi-

ously be included; this species is represented in our collection by three specimens from Strontia Spgs., Colo., and Half Moon Bay, Calif., and looks to a casual glance like a very dark *egena*. There is just a possibility that *egenoides* Strand, based on Hampson's "Ab 1. Much Darker." may take precedence over *olivacea* but as Strand's type would probably be a Central or South American specimen I prefer, pending further information, to continue the usage of *olivacea* for our North American species. The male genitalia are quite distinct from those of *egena*, showing the sacculus drawn out to a long, fine, ventral point and the subapical projections on both sides of the clasper stronger and more pointed.

Genus **TRICHOPLUSIA** gen. nov.

Plate II, fig. 3; V, fig. 6.

Similar in abdominal squamation and lack of tibial spining to *Argyrogramma* Hbn. Wings narrower and more elongate. Strikingly different in genitalia, especially those of the female.

MALE GENITALIA. Clasper (typically) much broader than in *Argyrogramma* with broadly rounded cucullus, thickly covered with spine-like hairs, arising from small tuberculate bases; harpe situated (typically) halfway between base and apex of clasper, strong, bent at right angles, the tapering apex projected slightly over costal margin; sacculus weak with moderately long, finger-like clavus. Tegumen long and narrow; vinculum well-produced, but not nearly so abnormally long as in *Argyrogramma*, apex bluntly pointed. Aedeagus much as in *Argyrogramma*.

FEMALE GENITALIA. Characterized by the *extraordinary development of the ductus bursae* which is *tape-like* and weakly chitinized, extending to the cephalic end of the abdomen, then bending back almost to its point of inception and again recurved to about the central section of the abdomen where it enters the small membranous bursa, slightly expanded, on what appears to be the right, ventral side. The fine *ductus seminalis* arises from the narrowed apex of the bursa. Ostium unprotected, goblet-shaped, weakly chitinized, connected by a very short membranous section with the slightly enlarged, bulbous initial section of the ductus bursae.

GENOTYPE. *PLUSIA NI* var. *BRASSICAE* Riley.

I can find no difference in male genitalia between a Sicilian specimen of *ni* Hbn. and our North American *brassicae*; at the best it would seem only possible to retain the name *brassicae* as a doubtful North American race of the almost cosmopolitan *ni*, characterized by the somewhat darker color of the primaries. I include *oxygramma* Geyer in this genus as it shows the long lateral tufts of hair on the abdomen and possesses the same attenuated tape-like type of ductus in the female genitalia. It lacks the comb of spines on the basal half of the first joint of the male tibia and

the male genitalia vary in several details from those of *ni*. While the tegumen, uncus, vinculum, clavus and aedeagus are more or less in agreement, the clasper is very small and narrow, with a curious row of specialized, frond-like hairs along the ventral edge; the cucullus is spined but the harpe is an inconspicuous, fine, chitinous finger, situated near base of clasper. When more Central and South American material can be studied a further subdivision may be necessary.

Abrota Druce, a species unknown to me, I am including here temporarily on account of the abdominal tufting.

Genus **ARGYROGRAMMA** Hbn.

Plate II, fig. 4; V, fig. 2.

1823, Hübner, Zutraege z. Samml. exot. Schmett., II, 29 (includes *omega* Hbn. and *questionis* Fabr.).

In general characters similar to *Autographa* Hbn. (*Phytometra* Hamp.) but abdomen of male with lateral tufts of long hair on posterior segments. All tibiae unspined; on first joint of hind tarsus of male a comb of long, fine spines on inner side of basal half may be present or absent. Eighth abdominal tergites and sternites modified and strengthened with chitin and with specialized tufts of hair and hair-pencils.

MALE GENITALIA. Very small for the size of the insect. Tegumen long and narrow; uncus thin, long, and terminating bluntly; vinculum *produced to an abnormal extent* and either broadened to a large plate (typical) or narrower and rounded apically. Claspers small and very narrow; slightly expanded apically; cucullus rounded apically and *covered with fine spines*, arising from small tubercles; clavus a thin rod, arising from costo-basal angle of the weak sacculus; harpe a short, oblique rod, arising near base of clasper. Juxta a weakly chitinized plate of varying shape, attached to a long, tube-like, highly spiculate anellus. Aedeagus *very long and narrow*, with moderately bulbous base; it is partially supported by a chitinized strip on the ventral side which expands apically, forming a half-ring; the dorsal side projects beyond this, forming a weakly chitinized, truncate projection, feebly spiculate at its base. There are one or two thin, long spines in the bulbous basal portion.

FEMALE GENITALIA. Ostium unprotected and membranous, leading into a weakly chitinized and spiculate, goblet-shaped, initial section of the ductus bursae. The mid-section of the ductus is a short, narrow membranous tube (forming the stem of the goblet); this, in turn, leads into a longer, chitinized and at times strigate, terminal section which enters the bursa *on the dorsal side* below apex. The membranous bursa is variable in size but tapers to a *bluntly pointed fundus* from which the long, fine ductus *seminalis* arises, bending backward along the left side of the bursa.

GENOTYPE - ARGYROGRAMMA OMEGA Hbn. = VERRUCA Fabr.

Hübner's generic term has not been heretofore employed but becomes available for certain North American species of presumable southern origin. It was based on the species *omega* from Georgia, figured in the "Zutraege" (figs. 373/4), and in the text Hübner also mentions *questionis* Fabr. (*sic*) which, judging by the data in the "Verzeichniss", he was inclined to confuse with *oo* Cram.; in this same work he proposed the new name *omicron* for Cramer's fig. F of Pl. 311 which he rightly considered to represent a different species from fig. E, to which the name *oo* is now restricted. *Omicron* (1821) would apparently have priority over *omega* but both are placed by Smith & Hampson in the synonymy of *verruca* Fabr., an action which I am presuming to be correct. To avoid any confusion regarding the genotype of *Argyrogramma* I designate *omega* Hbn. as such genotype. *Quaestionis* Fabr., a synonymy of *chalcytes* Esp., falls, in any case, into the genus *Chrysodeixis* Hbn. of which the European *chalcytes* is the genotype. This genus is evidently closely allied to *Argyrogramma* but in the male genitalia (the only sex examined) the harpe is entirely lacking.

Along with *verruca* Fabr. I am including in the genus *basigera* Wlk.; both species occur in the southern section of our faunal area and can be readily recognized by Ottolengui's figures. They agree in general characters of squamation, etc. but *basigera* lacks the comb of fine spines on the first joint of the hind tarsi found in *verruca*. The genitalia, while showing a number of differences which can be presumed to be merely specific, are, on the whole, of the same general type. I am emphasizing particularly the rather curious point of origin of the ductus seminalis in the female genitalia; this would seem to show very satisfactorily a close relationship of the two species. It is probable that other Mexican or Central and South American species can be included here when opportunity for study occurs.

Genus **PSEUDOPLUSIA** gen. nov.

Plate II, fig. 6; V, fig. 4.

Similar to *Autographa* in squamation, tufting and lack of tibial spining. Differs, however, very considerably in genitalia.

MALE GENITALIA. Tegumen narrow and elongate, giving rise at its lateral bases to two lobes, weakly chitinized, which nearly meet in the median line dorsally. Uncus thin and long, terminating in a small spine; vinculum produced to a long, fine point. Clasper of normal size, slightly broadened apically, the rounded cucullus being thickly covered with fine spines; harpe very long and thread-like, arising from the extreme base of the clasper; sacculus very weak with long, thin clavus, slightly thicker

than the harpe. Transtilla strong and beak-like apically. Juxta weak, terminating in a sharp spine. Aedeagus long, with bulbous base; central section much narrowed, spiculate in proximal section and partially chitinized; apical half again expanded and then tapering and conical, weakly chitinized and strongly spiculate; a transverse row of short, blunt spines occurs at the extreme base and two thin, longer spines are found at the neck of the bulbous section. The hair-pencils of the eighth abdominal segments are considerably reduced.

FEMALE GENITALIA. Ostium *broad, bowl-shaped, well-spiculate* and with the base folded and wrinkled. The ductus bursae originates in a narrow, raised central area attached to the margin of the bowl and is a narrow, membranous tube, somewhat expanded in the proximal half, then narrowed and feebly strigate and spiculate; it enters the bursa on the dorsal side just below the apex. The bursa is rather broad and chunky, the fundus drawn out to a *long tube which curves back along the left side of the bursa almost to apex and gives rise to the thread-like ductus seminalis*.

GENOTYPE. PHALAENA OO Cram . (fig. E, not F.).

The very divergent genitalia seem to warrant the erection of a new generic term for *oo* Cram. The genus is probably most closely related to *Argyrogramma* Hbn. but the lateral tuftings of hair on the abdomen are lacking, aside from the different genitalia.

Oo is a distinctly southern species but recently a few specimens have been received from points in Quebec Province.

Genus **RACIPLUSIA** Hamp.

Plate II, fig. 5; V, fig. 3.

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 410 (includes *nu* Gn. and *pedalis* Grt. (= *ou* Gn.)

The genus is characterized by the presence of spines on all the tibiae. I have been unable to examine specimens of the genotype *nu* Gn. and base my characterization on our series of *ou* Gn. which Hampson wrongly included in his genus *Phytometra*, although the ab. *pedalis* Grt. was correctly placed.

In *ou* the foretibiae show two terminal spines on the inner side; the mid- and hind-tibiae are moderately spined.

MALE GENITALIA. Tegumen short and broad; uncus thin, pointed; vinculum with *broadly truncate apex*, the terminal margin gently excavated. Clasper broadening toward apex which is rather squarely cut off, the cucullus being without spines or hairs; *harpe absent*; sacculus weak; clavus extremely *long and thread-like*. Juxta broad and weakly chitinized; anellus forming a conical sheath. Aedeagus rather thin and curved, with faintly bulbous

base; apex weakly shagreened; vesica with traces of a basal spine-cluster and with *two small median clusters* of short spines, 3-6 in a cluster. Hair-pencils well-developed.

FEMALE GENITALIA. Ostium partially protected ventrally by a *bilobed plate with square-cut, median excavation* of caudal margin; this plate projects from a weakly chitinized and faintly strigate, initial, barrel-shaped section of the ductus. The continuation of the ductus forms a *straight, rather narrow tube*, at first membranous, then weakly chitinized and finally, for the greater part of its length, membranous and strigate, the strigations increasing in intensity towards the bursa-entrance. The entrance to the large sac-like bursa is *ventrally in the median area* of the bursa, just distad of a *narrow invagination of the right-side* which extends inward for half the width of the bursa and partially separates it into two subequal sections. The ductus seminalis arises at the upper end of this invagination, just to the right of the ductus bursae, and is directed caudad across the ventral surface of the bursa.

Genus **CHRYSASPIDIA** Hbn .

Plate II, fig. 7; V, fig. 8.

1821, Hübner, Verz. bek. Schmett., 252 (includes *bractea* Schiff., *aemula* Schiff., and *festucae* Linn.).

1896, Grote, Proc. Amer. Philos. Soc. (1895), XXXIV, 3A, 417 (designates *festucae* Linn. as genotype).

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 452. (designates *bractea* Schiff. as genotype, *ultra vires*).

EUCHALCIA Dyar (*nec* Hübner), 1902, Jour. N. Y. Ent. Soc., X, 81.

PHYTOMETRA Hampson (*nec* Haworth), 1913, Cat. Lep. Phal. Brit. Mus., XIII, 452, (*partim*).

PALAEOPLUSIA Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 581 (genotype *venusta* Wlk.).

Characterized chiefly by the lack of any tooth at the tornus of primaries and by the great reduction of the dorsal abdominal tuftings, especially on the third segment. As a rule there are one or two spines on the hind tibiae between the spurs.

MALE GENITALIA. Very similar to those of *Autographa* Hbn. (*vide* Pierce, 1909, Genit. Brit. Noct., Pl. XXIX, for fig. of *festucae*). Clasper shorter and broader, less expanded apically; harpe placed considerably further basad and rather stronger. Juxta with weak apical projection. Tegumen broader and chunkier; vinculum forming a long V. Aedeagus of moderate length, only slightly constricted medially, armed with a single short spine and with apical area weakly spiculate.

FEMALE GENITALIA. Ostium broad and largely unprotected, leading into a short, broad, chitinous pocket, the caudal margin of which is sinuate and weakly spiculate, the whole pocket being feebly granulose. The ductus bursae arises from the rounded base of the pocket as a narrow membranous tube, slightly sinuate and comparatively short and enters the bursa practically at its apex. The bursa forms a long leg-like sac, expanded somewhat at fundus to form the foot and at times strengthened over a good portion of the left side by a chitinous bar. The ductus seminalis arises from the apex of the bursa, dorsad of the entrance of the ductus bursae.

GENOTYPE. PHALAENA FESTUCAE Linn.

Grote's designation of *festucae* Linn. as the genotype is the first type fixation I have found and must be adhered to; *Palaeoplusia* Hamp., based on *venusta* Wlk., will fall as a synonym, both species being congeneric. This was recognized by Dyar in 1902 who, however, employed the wrong generic term for the group. Hampson's designation of *festucae* as the type of *Phytometra* is erroneous. The included North American species are *venusta* Wlk., *putnami*, Grt., *nichollae* Hamp. and *contexta* Grt.

Genus **AUTOGRAPHA** Hbn.

Plate III, fig. 1; V, fig. 9; VI, fig. 1.

1821, Hübner, Verz. bek. Schmett. 251 (13 species including *parilis* Hbn., *circumflexa* Hbn., and *gamma* Linn.).

1895, Grote, Abh. Nat. Ver. Bremen, XIV, (1), 61 (cites *gamma* Linn. as genotype).

1902, Dyar, Jour. N. Y. Ent. Soc., X, 81 (designates *circumflexa* Hbn. = *gutta* Gn. as genotype, *ultra vires*).

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 404 (wrong usage with *parilis* Hbn. as genotype, *ultra vires*).

1916, McDunnough, Ent. News, XXVII, 400.

PHYTOMETRA Hampson (*nec* Haworth), 1913, Cat. Lep. Phal. Brit. Mus., XIII, 452, (*partim*).

The genus is characterized by the strong dorsal tufting on thorax and abdomen, the lack of lateral hair-tufts on the abdomen and by the practical lack of tibial spining, although individual specimens occur in which one or two spines are present between the hind-tibial spurs. The genitalia run, in both sexes, very true to type, with one or two slight exceptions.

MALE GENITALIA. (*vide* Pierce's figures, Genit. Brit. Noct., Pl. XXVIII). Tegumen narrow and high; uncus simple, long,

thin, terminating in a short spine; vinculum forming a long V, usually with two small, opposed projections on inner edges near apex. Juxta weak; apical spine present typically but generally lacking in our North American species. Clasper long and moderately broad, ventral margin slightly sinuate, cucullus expanding somewhat costo-apically but not differentiated and *clothed merely with long hair*; harpe a straight or outcurved thin rod, arising in median section of clasper; sacculus narrow and weak with thin, long clavus, arising costo-basally. Aedeagus long, with bulbous base usually containing a short spine, a much constricted median area, partially strengthened by chitin, and a more or less expanded apical section, weakly chitinized and spiculate. Hair-pencils well-developed.

FEMALE GENITALIA. Ostium largely unprotected, broad, leading into a short, *chitinous, goblet- or mitten-shaped, weakly granulose, initial section* from the base of which the *rope-like ductus bursae* arises. This ductus is variable in length, generally somewhat twisted, brown in color, and strigate and granulose; it enters the bursa just *below the apex on the right side*, (rarely on the left side). The bursa is variable in shape, depending partially on the number of sinuate spermaphores it contains; in general it is attenuate with rounded apex and frequently some membranous thickening in the region of the ductus-entrance, at times partially encircling this section. The ductus seminalis *arises from the apex of the bursa*.

GENOTYPE. PHALAENA GAMMA Linn.

The bulk of the species in Section B belong in this genus; they are as follows:-

<i>bonaerensis</i> Berg	<i>pasiphaeia</i> Grt.
<i>biloba</i> Steph.	<i>sansoni</i> Dod
<i>preccationis</i> Gn.	<i>rubida</i> Ottol.
<i>ottolenguii</i> Dyar	<i>bimaculata</i> Steph.
<i>ampla</i> Wlk.	<i>mappa</i> G. & R.
<i>v-alba</i> Ottol.	<i>pseudogamma</i> Grt.
<i>corusca</i> Stkr.	<i>californica</i> Speyer
<i>speciosa</i> Ottol.	<i>metallica</i> Grt.
<i>labrosa</i> Grt.	<i>flagellum</i> Wlk.

Of the above species *bonaerensis* Berg. and *ottolenguii* Dyar have not been examined. *Biloba* Steph. shows in genitalia (Pl. V, fig. 9) considerable resemblance to species of *Chrysoaspidia* and if it had not been for the well-developed dorsal abdominal tufting I should have been inclined to place it in this genus; the aedeagus is unarmed. *Preccationis* Gn. (Pl. III, fig. 1; VI, fig. 1.) is also somewhat aberrant and tends toward the *Argyrogramma* group; the clasper is long and thin with the harpe more basad than is

typical for *Autographa*; the cucullus is covered with minute tubercles which, however, do not give rise to definite spines; the ventral margin is clothed with specialized scale-like hair; the aedeagus has a very bulbous spiculate base and a strongly contracted median section.

The remaining species fall into two minor groups on male genitalic characters. The listed species from *ampla* to *pasiphaeia* show a shorter and broader clasper. In the second group the clasper is long and narrow with considerable costo-apical widening; the harpe is generally thinner and the aedeagus noticeably longer and more contracted medially.

In the female genitalia the entrance of the ductus bursae is normally on the right side of the bursa; only in *californica* does the ductus-entrance appear to be on the left side. *Metallica* Grt. (which is closely allied to the European *bractea* Schiff.) is somewhat aberrant; the ductus bursae is longer than usual, much twisted, and with a small appendage near its origin. The bursa is shaped like a French horn, the main portion being disk-shaped, the tubular apical region arising on the left side near the middle and curving caudad closely appressed to the side of the bursa; the ductus bursae enters this tubular portion on the right side just below the apex.

Genus **CHRYSANYMPHA** Grt.

Plate III, fig. 4; VI, fig. 2.

1896, Grote, Proc. Amer. Philos. Soc. (1895), XXXIV, 3A, 417 (monotypical genus for *formosa* Grt.).

Scarcely separable from *Autographa* and with similar type of male and female genitalia. Third palpal joint longer and thinner than in *Autographa* and the squamation of the second joint more appressed with scarcely a trace of any long ventral hairs. Apex of forewing well-rounded and outer margin strongly convex and oblique with strong tornal tooth.

In view of the dissimilarity of *formosa* Grt. in general appearance to the species included in *Autographa* I retain Grote's generic term. Hampson's placement of *formosa* in *Abrostola* is quite erroneous.

Genus **EOSPHEROPTERYX** Dyar

Plate III, fig. 8; VI, fig. 3.

1902, Dyar, Jour. N. Y. Ent. Soc., X, 80 (monotypical genus for *thyatyroides* Gn.).

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 446.

Similar to *Chrysanympa* in length of third palpal joint; second joint more heavily scaled beneath. Forewings much narrower and more pointed than in either *Chrysanympa* or *Autographa*. The genitalia seem to warrant the generic separation.

MALE GENITALIA. Tegumen chunkier and vinculum longer than in *Autographa*. Clasper with a *very strong medio-ventral bulge*, narrowing rapidly to a rather pointed and well-haired apical section; harpe a *small, finger-like projection*, situated medially; sacculus weak, with long, thin clavus. Aedeagus long, thin, unarmed except for a convolute and spiculate section of the vesica.

FEMALE GENITALIA. Ostium represented by a *broad lunate plate*, moderately spiculate, which leads into a *rectangular, chitinized section* of the ductus, twice as long as broad. The short terminal section of the ductus is sinuous and strigate, entering the bursa on *the left side below the rounded and narrowed apex* which is directed dorsad and fairly heavily granulose. The bursa is short and broad, tapering somewhat toward the fundus. The ductus seminalis arises from the dorsal side of the apex of the bursa.

Genus **POLYCHRYSIA** Hbn.

Plate VI, fig. 6.

1821, Hübner, Verz. bek. Schmett., 251 (monotypical genus for *moneta* Fab.).

1902, Dyar, Jour. N. Y. Ent. Soc., X, 80.

CHRYSOPTERA Latreille, 1825, Fam. Nat., 476; Hampson, 1913, Cat. Lep. Phal. Brit. Mus., XIII, 439.

DEVA Smith (*nec Walker*), 1893, Bull. 44, U. S. N. M., 246 (*partim*).

This genus is characterized by the long recurved palpi with fringes of hair on the knife-like third joint in front. It is evidently allied to *Autographa* as the genitalia only differ in minor particulars. In the male genitalia the clasper is shorter and broader, more as in *Chrysoaspida*; the harpe is longer and projects well over the costal margin; the clavus is somewhat reduced. The aedeagus is shorter and less constricted medially, being weakly spiculate apically and armed with a short spine. The female genitalia closely resemble those of *Autographa*, the short ductus bursae entering the bursa on the left side below apex.

Our North American form of *moneta*, for which Smith proposed the name *trabea*, (based on a specimen from Calgary, Alta.) has generally gone under the name, *esmeralda* Oberth., a name proposed for the Siberian and Asiatic paler race of *moneta*. While there is no doubt that the two forms are closely allied, judging by a single "Sajan" specimen of *esmeralda* before me, I think that, in view of the great distance between the type localities and the modern tendency to split into races on minor characters, it would be well to resurrect Smith's name. Along with *trabea* Sm. *morigera* Hy. Edw., a species I have not examined, will be included in the genus.

Genus **PSEUDEVA** Hamp.

Plate III, fig. 2; VI, fig. 4.

1913, Hampson, Cat. Lep. Phal. Brit. Mus., XIII, 447 (type designated as *purpurigera* Wlk.).

PANCHRYSIA Dyar (*nec* Hübner), 1902, Jour. N. Y. Ent. Soc., X, 80.

Separated from *Polychrysia* by the less recurved palpi and by the falcate external margin of the primaries. The eyes do not appear to be lashed. The genitalia appear to bear out the separation.

MALE GENITALIA. Obviously of the *Autographa* type but the *clavus* is merely represented by a few hairs on a slight rounded prominence of the sacculus. The clasper is short and broad; the finger-like harpe well basad of the middle of clasper; the sacculus very weak. The aedeagus feebly constricted medially and with moderately bulbous base, weakly spiculate apically and armed with a single basal spine and a cluster of small spines somewhat as in *C. hohenwarthi*, placed more apically. The apical portion of the vinculum is long and narrow.

FEMALE GENITALIA. Allied to those of *Autographa* species. Bursa short and broad (ham-shaped), tapering quickly to a rounded apex, just below which on the left side the entrance of the ductus bursae is situated. This ductus is short and rather broad, elbowed rectangularly just before bursa-entrance. Ostium bowl-shaped and feebly chitinized and spiculate. Ductus seminalis arises from apex of bursa. Besides *purpurigera* Wlk., the only species I have examined, the genus includes *palligera* Grt. and *rubigera* Hamp.

Genus **ADEVA** gen. nov.

Plate III, fig. 3; VI, fig. 9.

Palpi much as in *Autographa*; second joint clothed with long hairs beneath, third joint moderate, rounded, rather closely scaled. *Male antennae moniliform*, female antennae less so. Eyes large, rounded, feebly lashed. Thoracic and abdominal tufting much as in *Autographa* but the patagia with better defined terminal scaling, giving the appearance of tufts. Tibiae unspined. Forewing with pointed apex, well-rounded outer margin and no tornal scale-tooth.

MALE GENITALIA. Tegumen short and chunky; uncus long, thin; vinculum broadly V-shaped. Clasper short and broad, rounded apically; harpe long and outwardly oblique, finger-shaped; sacculus weak; *clavus undeveloped*. Juxta lengthily triangular, better chitinized than usual. Aedeagus short and broad, unarmed, slightly spiculate apically.

FEMALE GENITALIA. Ostium broad, weakly membranous, shallowly bowl-shaped. Ductus bursae *almost entirely membranous*, short and rather broad, with indications of striations and granulations before entrance into bursa; this entrance occurs on the dorsal side of the bursa just below the rounded apex. Bursa long and narrow, membranous. Ductus seminalis from apex of bursa.

GENOTYPE. AUTOGRAPHIA ALBAVITTA Ottol.

The genitalic differences between species under *Autographa* and *albavitta* would seem to warrant a generic separation, especially as the whole appearance of the insect is distinctly non-Autographine.

Typical *albavitta* from the coastal regions of California has a distinct pale brownish hue on the primaries; in the desert race *huttonii* Sm. (described as a *Behrensia*) this brownish coloration is replaced by smoky-gray.

Genus **PLUSIA** Ochs.

Plate III, figs. 6, 7; VI, figs. 7, 8.

1816, Ochseneimer, Schmett. Eur., IV, 89 (cites 19 species including *chrysis* Linn.).

1829, Duponchel, Hist. Nat. Lep. Fr., VII, (2), 72 (names *chrysis* as genotype).

1893, Smith, Bull. 44 U. S. N. M., 247 (employs in an extended sense).

1895, Grote, Abh. naturw. Ver. Bremen, XIV, (1), 60 (cites same genotype and employs as subgenus for *aerea*, *aeroides* and *balluca*).

1902, Dyar, Jour. N. Y. Ent. Soc., X, 80 (employs similarly as genus but adds *metallica*).

1916, McDunnough, Ent. News XXVII, 400 (suggests same usage as Grote).

DIACHRYSLIA Hbn. (Verz. 252) has been sunk by Dyar (*op. cit.*) to *Plusia* with genotype cited as *orichalcea* Fabr. I have had no opportunity of examining the genitalia of this European species but judging by Pierce's figure (Gen. Brit. Noct., Pl. XXIX) the male genitalia bear great resemblance to those of *Autographa* species.

DYACHRYSLIA Geyer (Zutr. IV, 22) is given by both Neave and Hemming as a valid genus. It was based primarily on *balluca* but in the text *chrysis* is also mentioned, a species included by Hübner in his genus *Diachryslia*. I imagine that Geyer's spelling is merely a mistake or a misprint for *Diachryslia* and was never intended for a new generic term. In any case it is doubtful whether the name would hold as "i" and "y" are regarded in the International Rules of Nomenclature as synonymous.

The three North American species at present included under *Plusia* do not show, according to genitalia, any close resemblance either to each other or to the genotype, *chrysitis* Linn. In this species (*vide* Pierce, *op. cit.*) the main genitalic differences from *Autographa* in the male appear to be the less elongate tegumen, the closer approximation of the harpe to the base of the clasper, the broader basal area of the sacculus, and the more even width and heavier chitinization of the aedeagus which is *split apically into two dissimilar lobes*, one of which is spiculate. In the female the similarity to *Autographa* is also marked. The initial portion of the ductus is, however, elongate-rectangular and not goblet-shaped, the ductus-tube is more membranous and the bursa top-shaped, the ductus (in the single specimen examined) entering ventrally in the middle of the upper, broad portion, and the ductus seminalis given off from a small finger-like projection immediately to the left of this entrance. I was unable to check as to whether such conditions were constant.

On account of the great divergence of genitalia (especially in the male) from the above type, I am removing *aerea* Hbn.—for which, fortunately, a generic term is available—from the genus *Plusia*. For the present I am leaving *aereoides* Grt. and *balluca* Geyer as they stand; such action at least saves a well-known generic term for our North American lists.

The male genitalia of *aereoides* approach closest to those of the genotype. Apart from the rounded apex of the clasper (pointed in *chrysitis*) which probably does not mean a great deal, the harpe is broad and knife-shaped, jutting obliquely over the costal edge. Other characters are similar.

In the female genitalia the ostium is broad and unprotected, the initial chitinized portion of the ductus being broadly oval (not elongate-rectangular); the remainder of the ductus tube is more weakly membranous, narrowing distally and entering the bursa on the right side below apex. The bursa is more normal in shape, being elongate with the narrowed and rounded apex giving rise to the thread-like ductus seminalis.

The above differences can easily be regarded as specific, in which case *aereoides* fits quite well into the genus *Plusia*. The wing shape, with the slightly falcate outer margin also agrees.

Balluca shows more divergence in genitalia from the generic type than does the previous species. In the male the claspers are shorter and broader with well rounded apex and less prominent sacculus; the harpe is a thin, upright rod, tapering and slightly incurved in its apical half; it arises from before the middle of the clasper and is rather reminiscent of the type found in certain species of *Syngrapha*. The vinculum is very much longer and drawn out to a blunt point. The shield-shaped juxta has two small raised chitinous flaps at base and a well-developed apical spine; the *anellus forms a narrow high collar*, strongly spined apically. The aedeagus is more typical with the apical lobes well

defined, one being spiculate. In the female the two *lateral invaginations* of the eighth abdominal segment (pockets) are well-developed. The ostium forms a shallow, chitinous, *broadly V-shaped pocket*, with sinuate caudal margin; from the dorsal (inner) side of this the short rope-like ductus (as in *Autographa*) arises, a *large, oval spiculate sac* being attached to its right side just before entrance into the bursa; this entrance is *dorsal*, slightly to the right, below the apex of the bursa. The bursa is a long, narrow sac with granulate, rounded apex, from which the ductus seminalis arises.

Combining, as it does, genitalic characters of both the *Syngrapha* and *Autographa* groups, it is possible that *balluca* is of very ancient origin, its close associations being lost in antiquity.

Genus **AGRAPHA** Hbn.

Plate III, fig. 5; VI, fig. 5.

1821, Hübner, Verz. bek. Schmett., 250 (includes *aerea* Hbn. and *ahenia* (*glauca* Cram.)).

1895, Grote, Abh. naturw. Ver. Bremen, XIV, (1), 60 (sinks to *Plusia*).

1902, Dyar, Jour. N. Y. Ent. Soc., X, 81 (cites *aerea* as genotype but sinks to *Plusia*).

While other characters agree with those of the genus *Plusia* the genitalia of *aerea* are so divergent as to afford justification for the resurrection of Hübner's generic term.

MALE GENITALIA. Tegumen short and chunky, vinculum very *long drawn-out*, narrowed slightly apically, but rounded and not pointed; uncus thin, pointed apically. Clasper short and broad with *strong broad sacculus* with rounded costo-basal section and apex forming a *scoop-shaped projection* which extends over the ventral edge of clasper at middle; harpe *broad and flat*, outcurved and arising from a *large rectangular base*. Clavus long, terminating in a *distinct, oval, slightly setose knob*. Aedeagus long and thin; in apical section strengthened laterally with chitinous bars, the left one showing a *long series of small teeth* or spines on its edge, the right one with a small cluster of 3 or 4 spines at apex.

FEMALE GENITALIA. Invaginations of eighth abdominal segment forming *well-defined pockets*, containing short tufts of hair. *Ventral plate well-developed*, spiculate, broadly rectangular with sinuate caudal margin. Initial portion of ductus membranous, broad, sac-like; the short, bent, terminal section narrowed and strigate, *entering the bursa ventrally*, a little to the left side and almost apically, the apex of the rather shortly elongate bursa forming a small rounded projection to the right (or dorsal) of the ductus-entrance and giving rise to the ductus seminalis.

KEY TO NORTH AMERICAN SPECIES OF *SYNGRAPHA*
BASED ON MALE GENITALIA

1. Costa of clasper with preapical spine 2
Costa without preapical spine..... 3
2. Aedeagus with thick rod of chitin extending from base to
beyond middle; harpe long, thin.....*epigaea* Grt.
Aedeagus with thin, straight, apical spine; harpe broadly tri-
angular *octoscripta* Grt.
3. Costa produced apically into a distinct, small, sharp spine 4
Costa without apical spine; apex merely angled or rounded 5
4. Aedeagus with small basal and curved median spine; harpe
small, outwardly oblique *selecta* Wlk.
Aedeagus with only a thin, straight, apical spine; harpe moder-
erate, sickle-shaped *altera* Ottol.
variana Ottol.
5. Aedeagus unarmed, short, stout 6
Aedeagus armed with one or two spines: usually longer and
thinner 7
6. Juxta with strong apical spine; harpe tapering from broad
base and terminating in sharp spine *alticola* Wlk.
Juxta with apical spine practically undeveloped; harpe nar-
rower and without terminal spine *parilis* Hbn.
7. Aedeagus with both basal and apical spines 8
Aedeagus with basal spine lacking.....11
8. Basal spine minute; harpe long and pointed, extending beyond
costal margin *microgamma* Hbn.
Basal spine well-developed, rod-like 9
9. Harpe long and strongly outcurved, decumbent; basal spine of
aedeagus long; apical spine straight, pointed..*orophila* Hamp.
Harpe not outcurved; basal spine of aedeagus shorter; apical
spine strongly curved 10
10. Harpe of moderate length with broad base, tapering to a slightly
incurved point *angulidens* Sm.
excelsa Ottol.
Harpe very short and chunky with broad base and short,
terminal spine *celsa* Hy. Edw.
11. Aedeagus short and broad, of equal width throughout 12
Aedeagus rather thin, long, with slightly bulbous base 14
12. Aedeagus very broad with broad, transverse, dagger-shaped
apical spine; harpe thin and pointed *diasema* Bdv.
Aedeagus thinner with smaller and thinner, obliquely-placed
spine with extended base 13
13. Harpe with truncate apex and very small terminal spine.....
..... *borea* Auriv.
Harpe tapering to a strong terminal spine *lula* Strand
14. Harpe terminated by a bifid spine; aedeagus with a long,
straight, apical spine *surena* Grt.
Harpe not bifid at extremity 15
15. Harpe short and tubercle-like 16
Harpe longer, thin, pointed, incurved apically 17
16. Harpe minute; sacculus with raised ridge at base; aedeagus
with strong, curved, apical spine on broad base *alias* Ottol.
Harpe somewhat larger, sacculus without raised ridge; aedeagus
similar to preceding *rectangula* Kby.
17. Harpe moderately long, gently tapering to a point with weakly
incurved apex; spine in aedeagus short and stubby (rose-
thorn) *u-aureum* Gn.
vaccinii Hy. Edw.
Harpe very similar but with more strongly inbent apex; spine
in aedeagus somewhat longer *interrogationis* L.
Sackeni Grt. and *snowi* Hy Edw., which also belong in *Syngrapha*,
have been omitted in the key, owing to lack of material.

KEY TO NORTH AMERICAN SPECIES OF *SYNGRAPHA*
BASED ON FEMALE GENITALIA

1. Entrance of ductus bursae on right side of bursa, somewhat below apex 2
Entrance of ductus bursae on left side of bursa, below apex 7
2. Ductus bursae with proximal, funnel-shaped portion, weakly chitinized; without appendage 3
Ductus bursae with funnel generally more strongly chitinized and with lateral membranous appendage on right side 4
3. Lateral chitinous flaps projecting caudad from margin of ostium; entrance of ductus definitely on right side of bursa *alticola* Wlk.
Ostium unprotected by chitinous flaps; entrance of ductus into bursa subventral *parilis* Hbn.
4. Funnel of ductus short, broad, rounded at bottom and moderately chitinized; apex of bursa weakly granulate and hyaline 5
Funnel of ductus long, gradually tapering, strongly chitinized; apex of bursa strongly shagreened and darkened in color .. 6
5. Membranous portion of ductus shorter than chitinized section; appendage quite small and scarcely chitinized.. *rectangula* Kby.
Very similar, but membranous portion of ductus longer than the chitinized section and appendage slightly larger and better chitinized *alias* Ottol.
6. Appendage of ductus-funnel recurved and running caudad, parallel to ductus *celsa* Hy. Edw.
Appendage shorter, not recurved but jutting out at right angles *angulidens* Sm.
excelsa Ottol.
7. Ductus bursae practically entirely membranous, distal section very broad, apex of bursa strongly shagreened and brown, curved to left.....*selecta* Wlk.
Ductus bursae with at least portions well chitinized 8
8. Chitinized portion of ductus long, extending as a straight, cylindrical tube almost to bursa-entrance 9
Chitinized portion of ductus shorter 14
9. Caudad extension of ductus-funnel bifid, forming sublateral wings, partially enclosing ostium 10
Caudad extension of ductus entire, forming a simple ventral plate 11
10. Wings large, rounded apically, somewhat asymmetrical; ductus strongly chitinized; apex of bursa with large, oval plate of chitin *epigaea* Grt.
Wings slight, subtriangular projections; ductus moderately chitinized; apex of bursa merely granulate .. *microgamma* Hbn.
11. Apex of bursa bent to left behind ductus-tube; projection of ventral plate over ostium weak or moderate 12
Apex of bursa upright, on right side of ductus-tube; projection of ventral plate strong 13
12. Apex of bursa curved downward and pointing cephalad; ventral plate weak, usually not projecting beyond hind-margin of eighth abdominal segment *u-aureum* Gn.
Apex of bursa not downcurved, merely pointing to left; ventral plate stronger and broader, projecting distinctly beyond margin of eighth segment *interrogationis* Linn.
13. Chitinous projection at distal end of ductus-tube small, situated on right side and about half the width of the tube.....
..... *octoscripta* Grt.
Chitinous projection larger, as wide as the ductus-tube
..... *altera* Ottol.
variana Ottol.

14. Apex of bursa with chitinous plate; ductus-funnel strongly chitinized and strigate, extended caudad as two sublateral pointed projections (wings) *orophila* Hamp.
Apex of bursa merely granulate or shagreened 15
15. Funnel portion of ductus long, tapering, strongly strigate, with two rounded, caudal projections (wings); distal portion of ductus wide, bulging to left from apex of funnel....
..... *diasema* Bdv.
Funnel shorter and broader, more weakly chitinized and with caudal projections barely indicated 16
16. Apex of bursa very weakly granulate and entirely hyaline 17
Apex of bursa strongly shagreened, giving it a brown tinge; ductus with membranous bulge on left side below funnel
..... *sackeni* Grt.
17. Base of funnel produced into a small, blind, membranous sac, situated on right side and projecting somewhat beyond continuation of ductus *borea* Auriv.
Very similar but membranous sac seems to be lacking .. *lula* Strand
Surena Grt. and *snowi* Hy Edw. have been omitted owing to lack of material.

SECTIONS B & C

KEY TO GENERA

1. Spining on all three tibiae *Rachiplusia*
Spining only on hind tibiae between the spurs *Autoplusia*
No spining on tibiae 2
2. Abdomen of male with strong lateral tufts of hair 3
Abdomen of male without lateral tufts of hair 4
3. In female genitalia ductus seminalis arises from fundus of bursa *Argyrogramma*
In female genitalia ductus seminalis arises from apex of bursa; ductus bursae very long, sinuate and tape-like *Trichoplusia*
4. Cucullus in male genitalia spined; harpe long and thread-like, arising from extreme base of clasper *Pseudoplusia*
Cucullus in male genitalia hairy; harpe short and finger-like, from near middle of clasper 5
5. Palpi long and recurved; third joint tufted with hair in front. *Polychrysia*
Palpi not recurved, upright..... 6
6. Third joint of palpi long, acuminate 7
Third joint of palpi shorter, rounded 9
7. Forewings with outer margin excised below apex; third palpal joint hairy below *Pseudeva*
Forewings with outer margin evenly rounded; third palpal joint smooth 8
8. Forewings short with rounded apex and strongly convex outer margin *Chrysanympa*
Forewings long and narrow; apex pointed; outer margin more oblique *Eosporopteryx*
9. Dorsal abdominal tufting lacking or greatly reduced.. *Chrysaspidia*
Dorsal abdominal tufting well-developed, especially on third segment 10
10. Clavus in male genitalia undeveloped; male antennae moniliform *Adeva*
Clavus in male genitalia a long thin process; male antennae finely ciliate 11
11. Forewing with well-developed metallic sign; outer margin rounded *Autographa*
Forewing without metallic sign; outer margin slightly falcate .. 12
12. In male genitalia clavus with distinct apical knob; sacculus terminating in a scoop-shaped projection extending beyond ventral margin of clasper *Agrapha*
In male genitalia clavus thin, finger-like; no projection of sacculus across ventral margin of clasper *Plusia*

EXPLANATION OF PLATES

PLATE I

Male Genitalia of:-

1. *Caloplusia ignea* Grt. Denver, Colo.
2. *Syngrapha alticola* Wlk. Laggan, Alta.

Right Male Clasper of:-

3. *Syngrapha microgamma* Hbn. Harlan, Sask.
4. *Syngrapha borea* Auriv. Dawson, Yukon Terr.
5. *Syngrapha orophila* Hamp. Nordegg, Alta.
6. *Syngrapha diasema* Bdv. Lapland, Europe
7. *Syngrapha rectangula* Kby. Meach Lake, Que.
8. *Syngrapha alias* Ottol. Gaspé, Que.
9. *Syngrapha celsa* Hy Edw. Kaslo, B. C.
10. *Syngrapha excelsa* Ottol. Nordegg, Alta.
11. *Syngrapha u-aureum* Gn. Hopedale, Labrador
12. *Syngrapha variana* Ottol. White Pt. Beach, N. S.
13. *Syngrapha octoscripta* Grt. Mer Bleue, Ottawa, Ont.
14. *Syngrapha surena* Grt. Rimouski, Que.
15. *Syngrapha selecta* Wlk. Wellington, B. C.
16. *Syngrapha epigaea* Grt. Duncan, Vanc. Is., B. C.

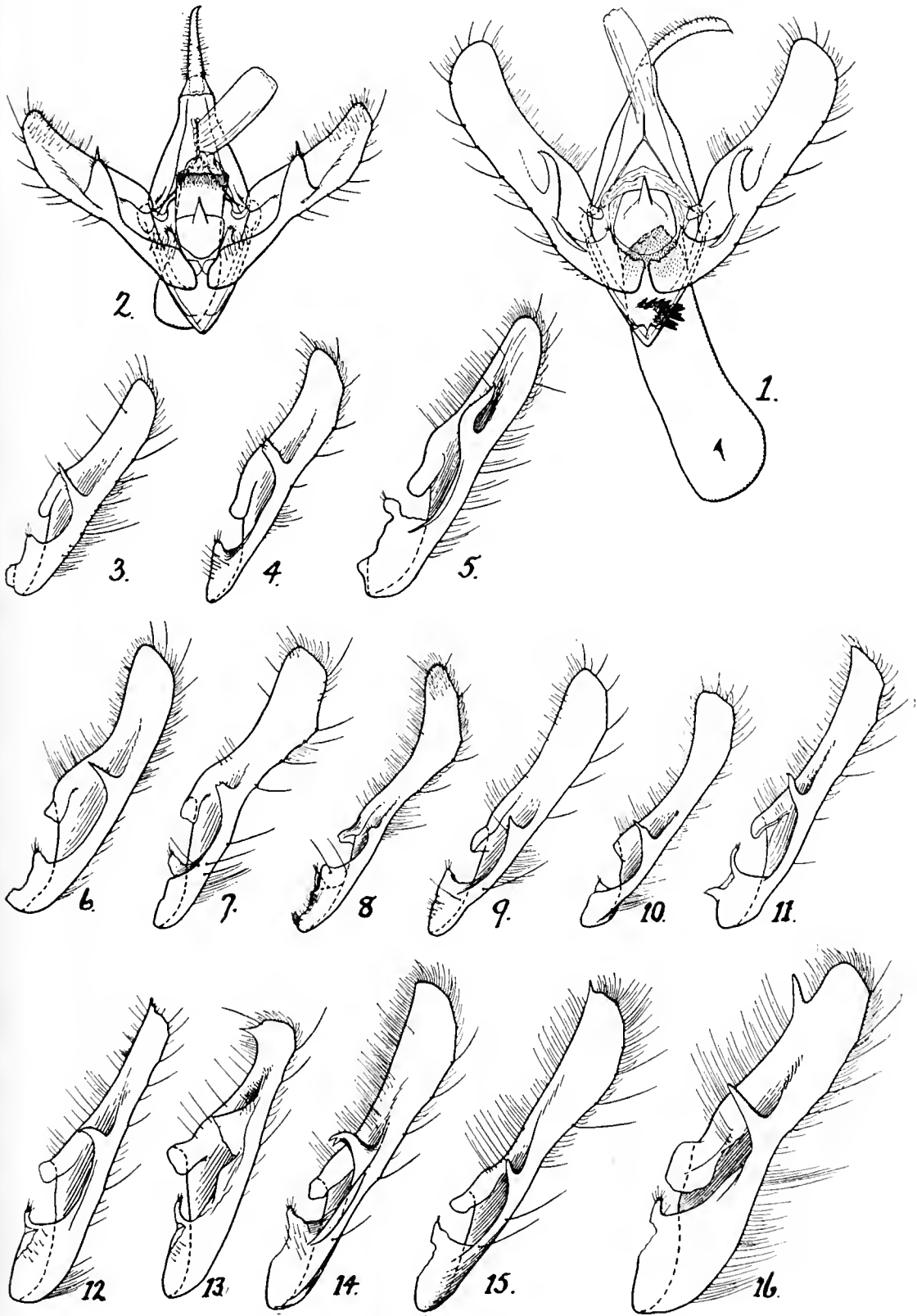


PLATE I

PLATE II

Male Genitalia of:-

1. *Anagrapha falcifera* Kby. Logan, Utah
2. *Autoplusia egena* Gn. San Diego, Calif.
3. *Trichoplusia ni* v. *brassicae* Riley Chicago, Ill.
4. *Argyrogramma verruca* Fabr. Orlando, Fla.
5. *Rachiplusia ou* Gn. Georgetown, Tex.
6. *Pseudoplusia oo* Cram. Hope, Ark.
7. *Chrysaspidia venusta* Wlk. Baddeck, N. S.

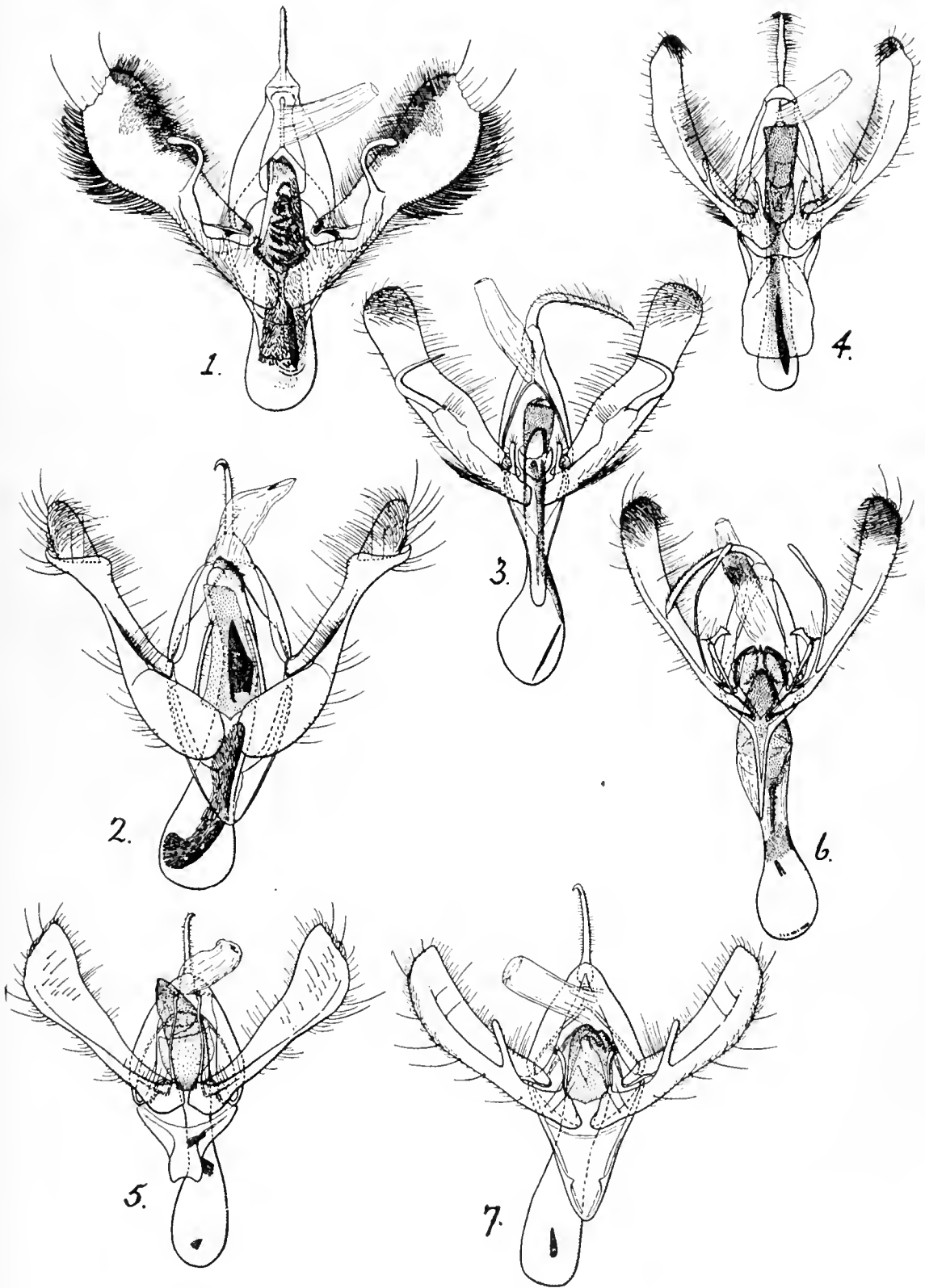


PLATE II

PLATE III

Male Genitalia of:-

1. *Autographa precationis* Gn. Trenton, Ont.
2. *Pseudeva purpurigera* Wlk. Calgary, Alta.
3. *Adeva albavitta* Ottol. S. Calif.
4. *Chrysanympa formosa* Grt. Winnipeg, Man.
5. *Agrapha aerea* Hbn. Ottawa, Can.
6. *Plusia aeroides* Grt. Baddeck, N. S.
7. *Plusia balluca* Geyer Gracefield, Que.
8. *Eosphoropteryx thyatyroides* Gn. Ottawa, Ont.

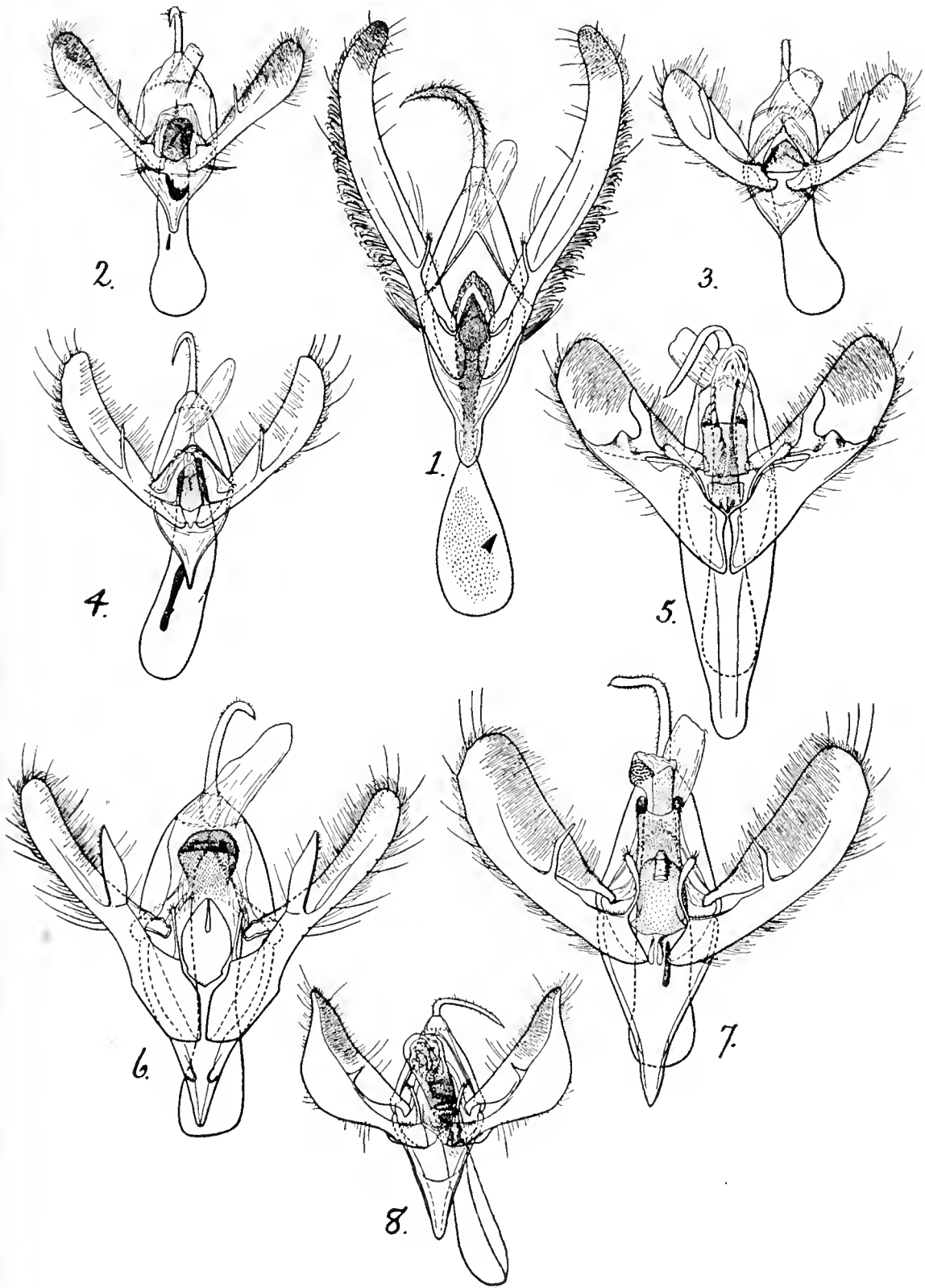


PLATE III

PLATE IV

Female Genitalia of:-

1. *Caloplusia ignea* Grt. Banff, Alta.
2. *Syngrapha alticola* Wlk. Nordegg, Alta.
3. *Syngrapha orophila* Hamp. Kaslo, B. C.
4. *Syngrapha diasema* Bdv. Hopedale, Labr.
5. *Syngrapha lula* Strand Banff, Alta.
6. *Syngrapha rectangula* v. *nargenta* Ottol. Seton Lake, B. C.
7. *Syngrapha celsa* Hy. Edw. Duncan, Vanc. Is., B. C.
8. *Syngrapha u-aureum* Gn. Hopedale, Labr.
9. *Syngrapha interrogationis* Linn. Hopedale, Labr.
10. *Syngrapha altera* Ottol. Larder Lake, Ont.
11. *Syngrapha octoscripta* Grt. Bathurst, N. B.
12. *Syngrapha epigaea* Grt. Trenton, Ont.

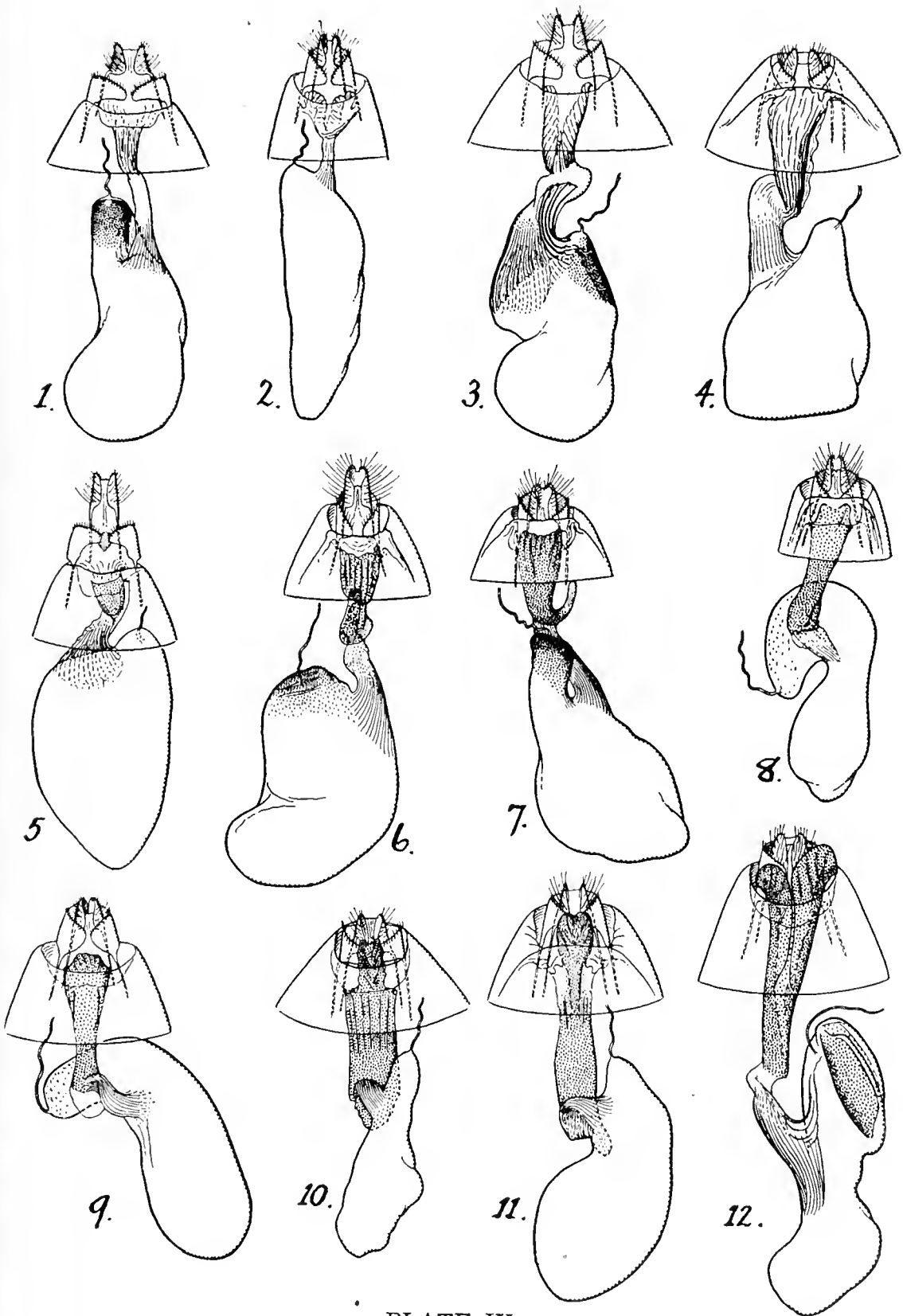


PLATE IV

PLATE V

Female Genitalia of:-

1. *Anagrapha falcifera* Kby. Ottawa, Ont.
2. *Argyrogramma verruca* Fabr. Orlando, Fla.
3. *Rachiplusia ou* Gn. Georgetown, Tex.
4. *Pseudoplusia oo* Cram..... Knoxville, Tenn.
5. *Autoplusia egena* Gn. San Diego, Calif.
6. *Trichoplusia ni* v. *brassicae* Riley Chicago, Ill.
7. *Autographa corusca* Stkr. Duncan, Vanc. Is., B. C.
8. *Chrysaspidia venusta* Wlk. Trenton, Ont.
9. *Autographa biloba* Steph. Georgetown, Tex.

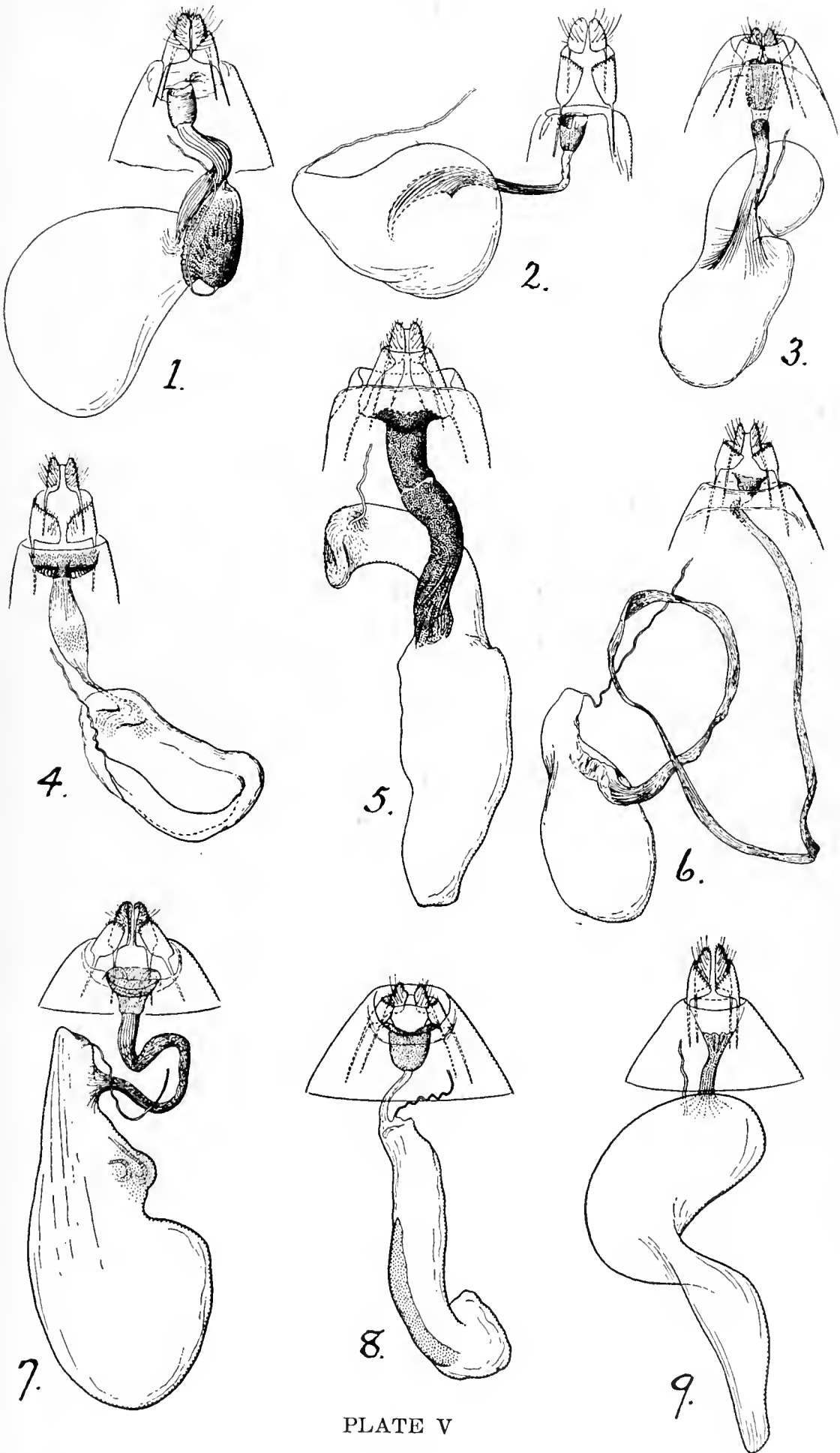


PLATE V

PLATE VI

Female Genitalia of:-

1. *Autographa precatationis* Gn. Ottawa, Ont.
2. *Chrysanympha formosa* Grt. Laniel, Que.
3. *Eosphoropteryx thyatyroides* Gn. Ottawa, Ont.
4. *Pseudeva purpurigera* Wlk. Meach Lake, Que.
5. *Agrapha aerea* Hbn. Bear, Mt., N. Y.
6. *Polychrysia moneta* v. *trabea* Sm. Calgary, Alta.
7. *Plusia balluca* Geyer Hastings, Co., Ont.
8. *Plusia aereoides* Grt. Hymers, Ont.
9. *Adeva albavitta* v. *hutsoni* Sm. Mojave Desert, Calif.



PLATE VI

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