

- Primaries broader, apices marked, but hardly acute ;  
 vestiture thin ; color reddish. . . . . *Phragmatobia*  
 Primaries still broader, apices long acute ; secondaries sub-  
 caudate ; size large . . . . . *Arachnis*

The synopsis shows plainly the close relation of some of the genera, though the series is arbitrary in its arrangement. Excluding the *Cydosiinae*, which perhaps indicate a tendency to the Noctuidæ, we have two fairly distinct series. In the one we find a usually small head, somewhat retracted, and more or less obsolete tongue. The antennæ are moderate in length or short. In the other series, the head is larger, more free, the tongue stronger and longer, and the antennæ are usually longer and more prominent. The position and origin of vein 10 serves as a good basis of division, and this corresponds to some extent with the other characters. The entire family needs further revision. The genera allied to *Arctia* are scarcely sufficiently distinguished, and so *Euhalisidota* seems scarcely distinct from *Halisidota*.

*Melanchroia*, *Daritis* and *Kodiosoma* are not included in the synopsis. *Ectypia* and *Nelphe* are placed partly by guess, from lack of types for examination.

*Eupseudosoma* has been sent me by Mr. Conradi, and is a close ally of *Halisidota*, differing in the broader primaries, and very long oblique outer margin.

Finally, the present paper consists rather of a series of notes preparatory to a study of the family, than a critical study. With a good collection at hand, there should be no difficulty anywhere in the family, except perhaps in *Halisidota*.

#### EXPLANATION OF PLATE.

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| 1. Venation of <i>Gnophala hopfferi</i> .   | 8. Venation of <i>Phragmatobia rubricosa</i> . |
| 2. " " <i>Crocota ferruginosa</i> .   | 9. " " <i>Antarctia vagans</i> .               |
| 3. " " <i>Utelthesia bella</i> .  | 10. " " <i>Spilosoma virginica</i> .           |
| 4. " " <i>Epicallia virginialis</i> .   | 11. " " <i>Hyphantria textor</i> .             |
| 5. " " <i>Euprepia caja</i> . <i>Arctia</i><br>does not differ.                             | 12. " " <i>Euchetes egle</i> .                 |
| 6. " " <i>Nemophila</i> .   | 13. " " <i>Arachnis picta</i> .                |
| 7. " " <i>Sciractia echo</i> . <i>Leucactia</i><br>and <i>Pyrrharctia</i> do not<br>differ. | 14. " " <i>Ecpanteria scribonia</i> .          |
|   | 15. " " <i>Halisidota caryæ</i> .              |

*Cydosis* and *Cerathosis* were figured in the Proc. U. S. Nat. Mus. for 1888 ; *Callimorpha* and *Eurythra* were figured in the same publication the year previous.