They include: (1) the Planipennians, (Myrmeleontids, Heinerobiids, Nymphids, Mantispids and Semblids) which are Lepidopteroid in being permaturative, as well as in the other character already mentioned, and which, excepting the Semblids, are all perterrestrial.—(2) The Psocideans, which are Homopteroid in being prematurative and perterrestrial, and which, as observed by Packard, approach in form and in the roof-like position of the wings the Homopterous group of Aphides.' The little booklice belong to this group, and thus represent the plant-lice among the Homopters.—(3) The Perlideans, semiaquatic and prematurative species, which are Trichopteroid (or like the Phryganeans) in the form of the wings, in the larve being not only aquatic but also living in a sheath, and in the adult eating little or nothing.

Thus each subdivision of the Amplipens, the Lepidopterous, Homopterous and Trichopterous, appears to be represented in the subdivisions of the Amplipenniforms.

The subdivisions of Attenuates or Neuropters deduced are the following:

## 1. APIPENNIFORMS.

- 1. Termitideans, or Hymenopteroid group.
- 2. Panorpideans, or Dipteroid group.
- 3. Aphanipteroid. Group unknown.

## 2. AMPLIPENNIFORMS.

- 1. Plannipennians, or Lepidopteroid group.
- 2. Psocideans, or Homopteroid group.
- 3. Perlideans, or Trichopteroid group.

3. PERATTENUATES OF TYPICAL NEUROPTERS.

- 1. Libellulideans.
- 2. Ephemerideans.

As the higher Apipenniforms, the Termitideans, are prematurative, while the Dipteroid Panorpideans and the higher Ampli-

<sup>7</sup> Mr. Packard observes with regard to the Psocideans :-

"The *Psocidæ* find their analogues in the Hemiptera [Homoptera]. The species of Psocus are so much like the Aphidæ that when flying they are often mistaken for each other. And, indeed, in the short broad body and broad head and long antennæ, in the very unequal wings, which are folded roof like over the short abdomen, in their simple neuration, in the short legs and feeble tarsi, and in their mode of flight and their appearing winged towards the close of summer, these small insects are remarkably like the winged plant-lice."

He also illustrates at some length the relations of some of the Planipennians to the Lepidopters, in the course of which he remarks, that among the Myrmeleontids "Ascalaphus was described by Scopoli as a Papilio, and has been said by Kirby to resemble Heliconia." The form of the antennæ is strikingly Lepidopteroid in its club-like shape, and its rather broad wings are colored. We add that the species of Drepanopteryx, a genus of the Hemerobiids, closely resembles some of the small Butterflies, and is called D. phalænoides.