

The pterostigma is represented only by a single, thickened, more oblique postcubital on both hind wings of the male, and in one female from Durango and in one hind wing of a female from Acambaro (where, however, its absence seems to be due to an abnormality in the development of the reticulation). Its absence has been noted<sup>12</sup> in specimens from Comondu, Lower California. According to our existing knowledge, California (U.S.A.) is the only region where both the pterostigmatous and apterostigmatous forms of *H. americana* occur<sup>13</sup>. In all the other material from our faunal limits the pterostigma is present, and varies in length, surmounting from one to three cells. In the males its colour is yellow in the young, blackish in the old, seeming to darken simultaneously with the darkening of the yellow areas of the thorax. It never becomes so dark in the females as in the males.

The variations above described in the extent of the basal red spots and of the pterostigma are in contrast to the statement of de Selys<sup>4</sup>, who wrote of the Mexican and Guatemalan individuals which he studied:—"Je n'ai vu de variation, ni dans l'étendue des taches basales qui vont jusqu'à mi-chemin de la base au nodus, ni dans les dimensions du ptérostigma." See also the data which are summarized in the footnote, *anteà*, p. 27.

De Selys<sup>3</sup> and Hagen<sup>5</sup> note that there is no good reason for believing that this species also occurs in South America.

### 5. *Hetærina sempronia*.

*Hetærina sempronia*, Selys, Syn. Calopt. p. 45 (1853)<sup>1</sup>; Monogr. Calopt. p. 147, t. 12. fig. 7 (apps. ♂) (1854)<sup>2</sup>; Bull. Acad. Belg. (2) xxv. p. 482 (1873)<sup>3</sup>; Walker, List Neur. Ins. Brit. Mus. iv. p. 632 (1853)<sup>4</sup>; Hagen, Syn. Neur. N. Am. p. 62 (1861)<sup>5</sup>; Proc. Bost. Soc. Nat. Hist. xviii. p. 24 (1875)<sup>6</sup>; Kirby, Cat. Odon. p. 107 (1890)<sup>7</sup>.

*Hab.* UNITED STATES(?), "probably St. Antonio, Texas"<sup>6</sup>.—MEXICO<sup>2</sup>, Vera Cruz, Putla (*fide* Selys<sup>3</sup>), Teapa in Tabasco (*H. H. Smith*: 2 ♂); PANAMA, Chiriqui (*coll. McLachlan*: 1 ♂).—COLOMBIA, Bogota<sup>3</sup>.

### 6. *Hetærina tricolor*. (Tab. III. figg. 1, 20.)

*Calopteryx tricolor*, Burm. Handb. d. Ent. ii. p. 827 (1839)<sup>1</sup>; Calvert, Trans. Am. Ent. Soc. xxv. p. 48 (1898)<sup>2</sup>.

*Hetærina tricolor*, Selys, Syn. Calopt. p. 42 (1853)<sup>3</sup>; Monogr. Calopt. p. 136, t. 12. fig. 5 (apps. ♂) (1854)<sup>4</sup>; Walker, List Neur. Ins. Brit. Mus. iv. p. 629 (1853)<sup>5</sup>; Hagen, Syn. Neur. N. Am. p. 61 (1861)<sup>6</sup>; Proc. Bost. Soc. Nat. Hist. xviii. p. 24 (1875)<sup>7</sup>; Kirby, Cat. Odon. p. 106 (1890)<sup>8</sup>; Calvert, Trans. Am. Ent. Soc. xx. p. 229 (1893)<sup>9</sup>; Kellicott, Odonata Ohio, p. 13 (1899)<sup>10</sup>; Williamson, 24th Rep. Dept. Geol. Indiana, p. 255 (1900)<sup>11</sup>; Howard, Insect Book, t. 46. fig. 19 (♂ entire insect) (1901)<sup>12</sup>.

Syn.? *Hetærina macropus*, Selys, Monogr. Calopt. p. 142 (1854) (♀ only)<sup>13</sup>.

*Hab.* UNITED STATES, Philadelphia<sup>1</sup>, Ohio<sup>10</sup>, Indiana<sup>11</sup>, Tennessee (*Williamson, in*