white and brown, 5, 7 and 9 being brown, the rest white; feet and pro-legs green; head ovoid, black-brown, shining, with some short black hairs. Duration of this stage 4 days.

After 1st Moult.—Length .16 inch; color greenish-brown; there now appear seven rows of large branching spines, one dorsal and three lateral. besides an additional row of minute similar ones over the legs and feet, as with all Grapta larvæ, and these spines are found at every stage to maturity; the dorsal row begins on segment 5 and ends on 12; the first lateral row begins on 3 and ends on 12; the second lateral row begins on 3, but is omitted on 4, and ends on 13; there is, however, on 4 a spine between second and third laterals.; the third lateral row begins on 5 and ends on 12; these spines are all long, irregularly tapering, shining black, and the tips of both spines and branches end in a black hair or bristle; all rise from light yellow tubercles and are yellow about half way up; on 12 and 13 they are almost wholly yellow; on the posterior end of 12 is a. row of four small spines, and on 13 two small ones between the large laterals, and others, also small, behind; on 2 is a collar of small spines arranged two on either side the dorsal line, and behind and between these one other; also two lower down the side; head obovoid; bilobed, brownblack, shining, with black hairs; on each vertex a compound black spined process. To next moult 3 days.

After 2nd Moult.—Length .24 inch; same shape and spines generally the same, but longer, as are also their branches; many of the latter end in white hairs; the first laterals on the even segments 4, 6, etc., to 12, have the lower half the spines and the tubercles yellow, the odd segments have them dull yellow; for twelve hours after the moult the color of body was largely yellow, but changed then to brown, with whitish cross lines; head as before, the spines on vertices longer; on the face many simple conical spines, white or yellowish, with concolored hairs. Duration of this stage 3 days.

After 3rd Moult.—Length .5 inch; color glossy black from 3 to 11, crossed on the posterior half of most of the segments by three white, sometimes gray-white, lines; the broad ridges on which the spines stand are marked from 5 to 11 by white or sometimes gray bars or stripes obliquely forward, from the dorsals forming a V to each spine; from first and second laterals one bar to each spine parallel to the arm of the V on either side; the spines are long and slender, those of dorsal row longest; the dorsals and first laterals on 4, 5 and 6 are honey-yellow, the former to