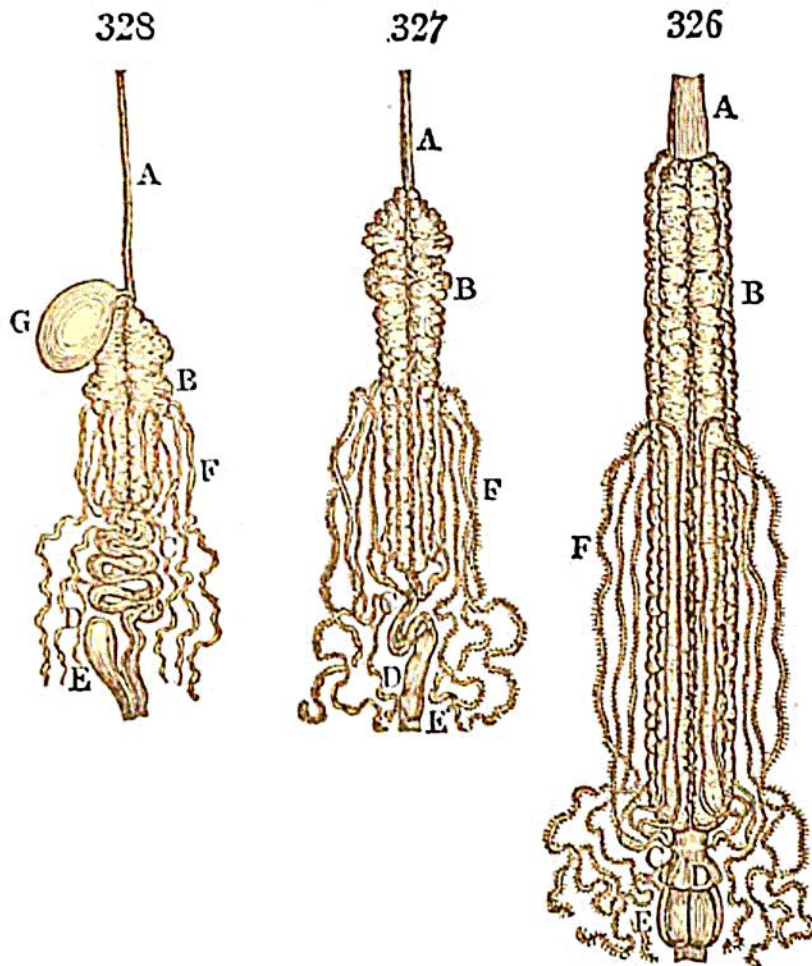


to accommodate it to this altered condition of its function, considerable changes must be made in its structure. Hence, it will be interesting to trace the gradual transitions in the conformation of the alimentary canal, during the progressive development of the insect, and more especially while it is undergoing its different metamorphoses.

These changes are most conspicuous in the Lepidoptera, where we may observe the successive contractions which take place in the immensely voluminous stomach of the caterpillar, while passing into the state of chrysalis, and thence into that of the perfect insect, in which its form is so changed that it can hardly be recognised as the same organ. I have



given representations of these three different states of the entire alimentary canal of the *Sphinx ligustri*, or Privet Hawk-moth, in Figures 326, 327, and 328;* the first of which

* These figures also have been engraved from the drawings of Mr. Newport, which he was so obliging as to make for me, from preparations of his own, the result of very careful dissections.