

Not far from one end the mine was widened a little and the cuticle puckered, forming a small nidus like that of a *Philocnistis* pupa. Within this nidus a small larva was visible. It was white, with the head pointed before, but widened behind, and with the thoracic segments much swollen and tapering rapidly from thence to the tail. (There is a good deal of resemblance between the very young larvae of *Gracillaria*, *Philocnistis* and *Lithocolletis* of the cylindrical group.) In a day or two it changed its form, becoming cylindrical and pale yellowish white, and it left the mine and went to the *under* side of the leaf, where it turned down the edge over it, and, after eating out the parenchyma, turned it down in another place, repeating this operation two or three times until it finally became a pupa under the edge last turned down. Sometimes (at least in the breeding jar) it leaves the leaf and pupates under a sheet or coverlet of white silk like *G. salicifoliella* and many other species. Which mode it follows in a state of nature I am unable to say, having never found it in the pupa state. *G. juglandiella mihi* mines the *under* surface of the leaves, but the mine is larger and more blotch like, and when it leaves the mine it goes to the *upper* side of the leaf which it curls *upwards* over itself and there passes the pupa state. I do not mean to say that this habit of going to the side of the leaf opposite the mine is universal in either species, but only so far as I have observed it in some ten specimens of each. *G. blandella* is a very handsome species.

A BALLOON SPIDER.

BY WILLIAM COUPER, MONTREAL.

"The American Naturalist" for May, 1871, contains an interesting article on "Flying Spiders," by J. H. Emerton. The species noticed by him are, no doubt, allied to the gossamer of Europe, and the phenomenon occurs early in autumn on the Islands of the St. Lawrence.

During the month of July, 1871, while trout-fishing on a large lake near the Upper Assumption, about one hundred miles north of Montreal, my attention was drawn to an inflated transparent substance of an oblong cocoon shape, passing about fifty yards over my head. To this miniature balloon, a thread was attached, and, on tracing it downward, its architect was seen struggling on the surface of the lake. Taking up the