the thamhge Miss!Eaton expected to. find an insect of the size of a grasshopper; but:found instead onl) the empty cocoons of the caterpillars of the small, Clathes Moth ( Zïmea pellionella. I Linn.) shown admirably in the excellerit cut. (Fig. TT) yhich has been kindly fent by Dr. C. V. Riley, the U. S. Entomologist. The felting of the ticking was due to the barthed nature of the morsels of feather. Thee plumules of feathers and' the down of many animals when highly magnified are found to be invested with minute barbs, all pointing the same way. 'The feathers were cut up by the caterpillars of the moths' feeding upon them, and the minute barbed portions of the feathers by the movement and: shaking of the pillow were brought in contact with the pillow case. : These morsels, if short enough, lrad sufficient rugidity to work their way into the cotton cloth, and were at: once fastened there by their own barbs. The value of these barbs in . the making of felt is explained in a most interesting manner in Mr. Húrace, T. Martin's excellent work "Castoro-" logia,", where he describes the manufacture of ielt from "beàver wool," Beaver fur. Magnifed 250 diameters. for the shapes of hats, and shows the
From Martin's Cistorolotia, p. 132 . nature of the barbs" or "stapte" of this wool by the magnified illustration (Fig. 2), which he has been kind enough to lend us. In this illustration, a hair of beaver wool is shown magnified 250 diameters.

The Clothes Moth Tinea pellionella, as well as the other two species of Clothes Moths found in this country, Tinea tapeizella with black and white wings, and Tinteola biselliella, with pale, silvery, fawncoloured wings, is an immigrant from the old world.
:x. Tinea pellionella, Linn., in the perfect state, is a small, gray moth, with three or four black spots on the wings. 'These lie flat over the back. The caterpillar lives in a short, muff-shaped case, i. which it carṛies about with it. (Fig. I).

