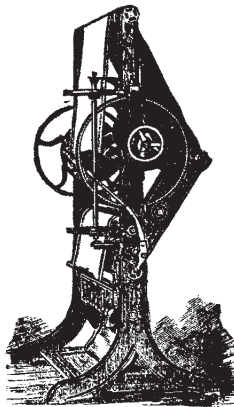


**Cloth Meas'ur-ing Ap'pa-ra'tus.** A wind-

ing machine which takes the cloth from the bolt or pile, runs it over a measuring roller, then over stretching rollers at the back of the machine, and from thence to the winding jaws which hold the board on which it is wound. The measuring roller has a worm which operates the vertical shaft, on the top of which is a dial which indicates the length wound, and the pointer is set to zero for each operation.

Fig. 641.



*Cloth Measuring and Winding Machine.*

In the cloth-measuring machine of *White, Child, & Co.*, of London, the cloth runs upon a smooth and level table and underneath a wheel of known circumference, the revolutions of which are counted by worm gearing and dial. It is adapted for measuring and rolling cloth in salesrooms.

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