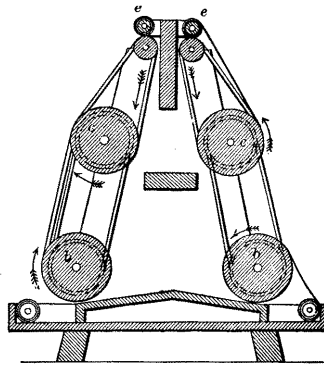


Fig. 5089.



Silk-Stretching Machine.

Silk-stretch'ing Ma-chine'. An apparatus for imparting the proper tension to silk fibers.

In the example, the ends of the fibers, reeled on bobbins placed at the lower part of the frame, are moistened and attached to drums *B B*, whose motion unwinds them from the bobbins; when all is wound off on to the drums *B B* the free ends of the fibers are similarly attached to the drums *C C*, which are set in motion, unwinding and stretching the fibers from the drums *B B* on to themselves. The final stretching is effected by the bobbins *E E*, which draw the silk from the drums *C C* and over a series of rollers, one for each thread. Winding from the lower bobbins on to the lower drums, and from the upper drums on to the upper bobbins, may be effected simultaneously.