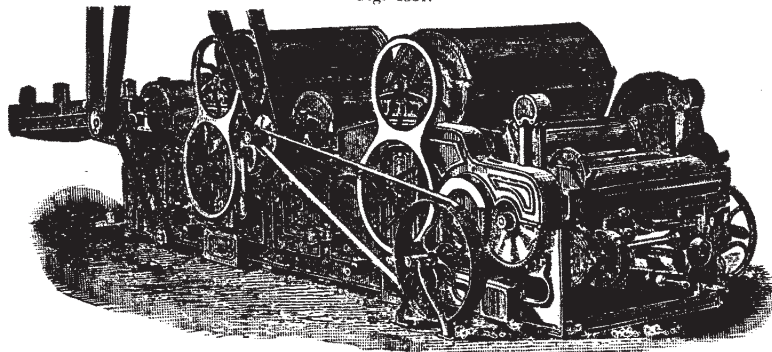


Lap'per. Primarily, a machine for taking cotton from the opener and making it into a lap.

Fig. 1531 is a machine receiving bale cotton, to open, clean, and make it into a lap.

The machine, as shown in the figure, has in fact two open-

Fig. 1531.



Kitson Cotton Opener and Lapper.

ers, each separate and complete in itself, both delivering the cotton on to one pair of screens, when the two quantities unite and pass through the rest of the machine to form the lap. The aprons run slowly, and a draft of 12 to 1 is obtained.

A second operation may take place upon a *finisher lapper*. Clarke and Pelham's three-roll sectional evener is used on the Kitson finisher lapper to vary the speed according to the varying thickness of the cotton passing into the machine. This evener has two fluted bed-rolls above which are eight sectional rolls which are saddled in pairs. Each pair of saddles has a single saddle, and above there is one which thus bears upon the whole system beneath. In the center of the main saddle is a rack operating a pinion attached to a quadrant which communicates by a chain with the belt shipper on the concave and convex cone pulleys, so as to affect the rate of feed.