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Improvement in Feeder for Wool Breakers.

This machine supplies what has long been a great want of the woolen trade, and will doubtless be received as such by those interested. It feeds the wool on to the first breaker card evenly, thus saving a large amount of labor and insuring uniformity of work, which has been impossible by hand feeding. In the accompanying engravings, A is a box into which the wool is loosely thrown, B is an ordinary slat apron, carrying the wool forward toward a vertical apron, C, which is furnished with spikes or forks, which continually lift the wool from the apron, B, to the shorter apron, F, which carries it forward to the feed rolls, H. G is a picker roll, which performs the double function of preventing any large locks of wool from passing on to the apron, F, unopened, and also of keeping the fan, D, clear of wool. I is a movable plate of sheet iron, which with the apron, F, forms a throat for the reception of the wool, and the size of this throat can be enlarged or reduced by raising or lowering the iron plate, I, which is readily done. The operation of the machine is briefly as follows: The wool thrown into the box is carried forward and upward by the two aprons, B and C, to the short apron, F, and is delivered in larger quantities than is required by the card. At this point it is blown by the fan, D, into the "throat," which is thus always kept full, and the surplus is returned to the box, as shown in Fig. 2. It will be manifest to all who examine the subject that the size of the throat will regulate the quantity of wool delivered to the card, which has hitherto been entirely controlled by the speed of the feed rolls. This can still be governed in the same way if preferred, so that any weight of roping can be produced.

This machine was patented August 23, 1864, and is offered for sale by Harwood & Quincy, 25 Bromfield street, Boston, Mass., who will supply all information regarding it.

Fig. 1.

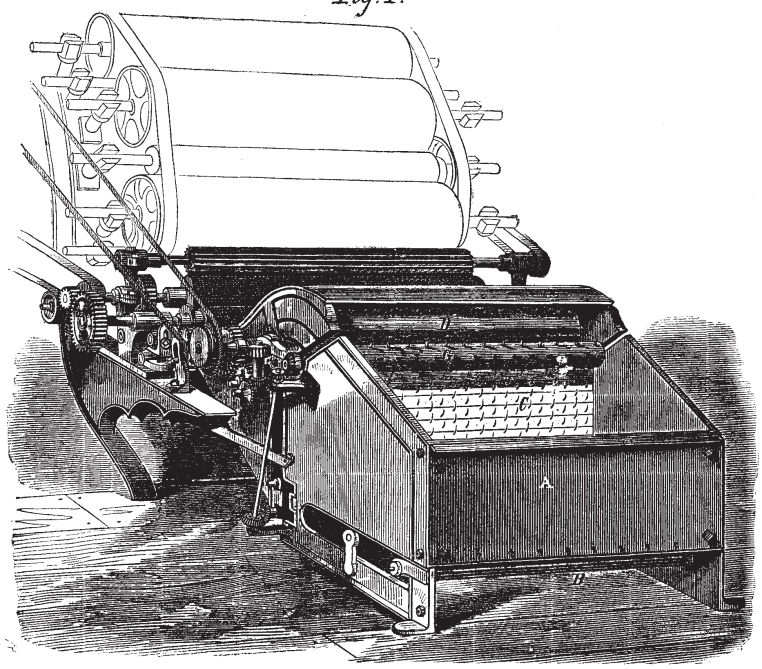
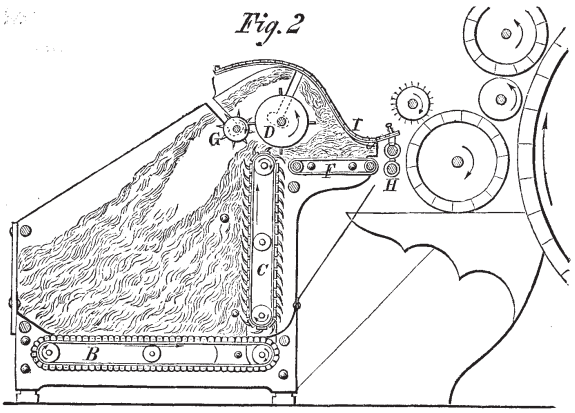


Fig. 2



THE BOLETTE FIRST BREAKER FEEDING MACHINE.