

H. HOLCROFT.

Doffing Mechanisms for Carding-Machines.

No. 153,340.

Patented July 21, 1874.

Fig. 1.

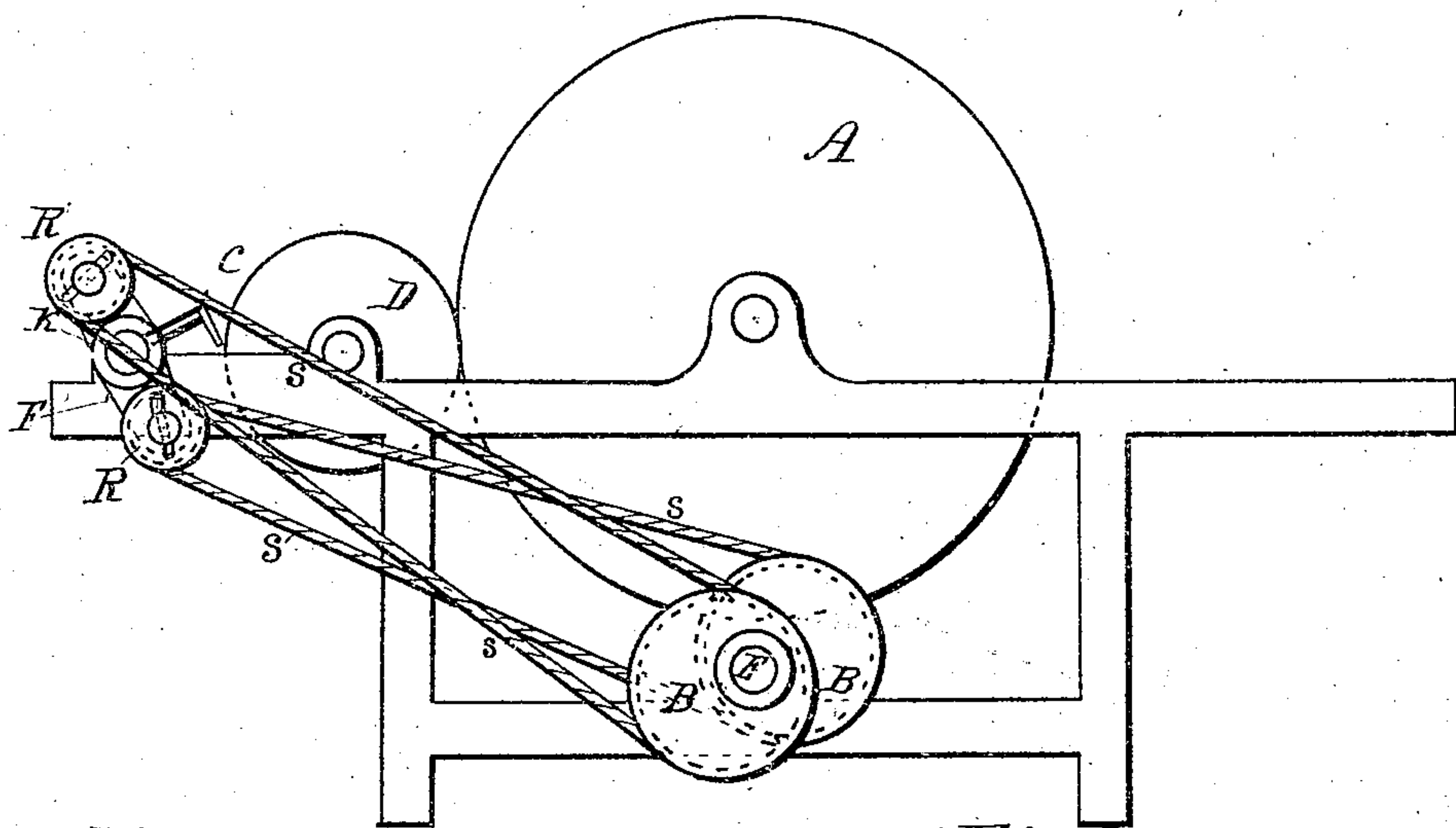


Fig. 2.

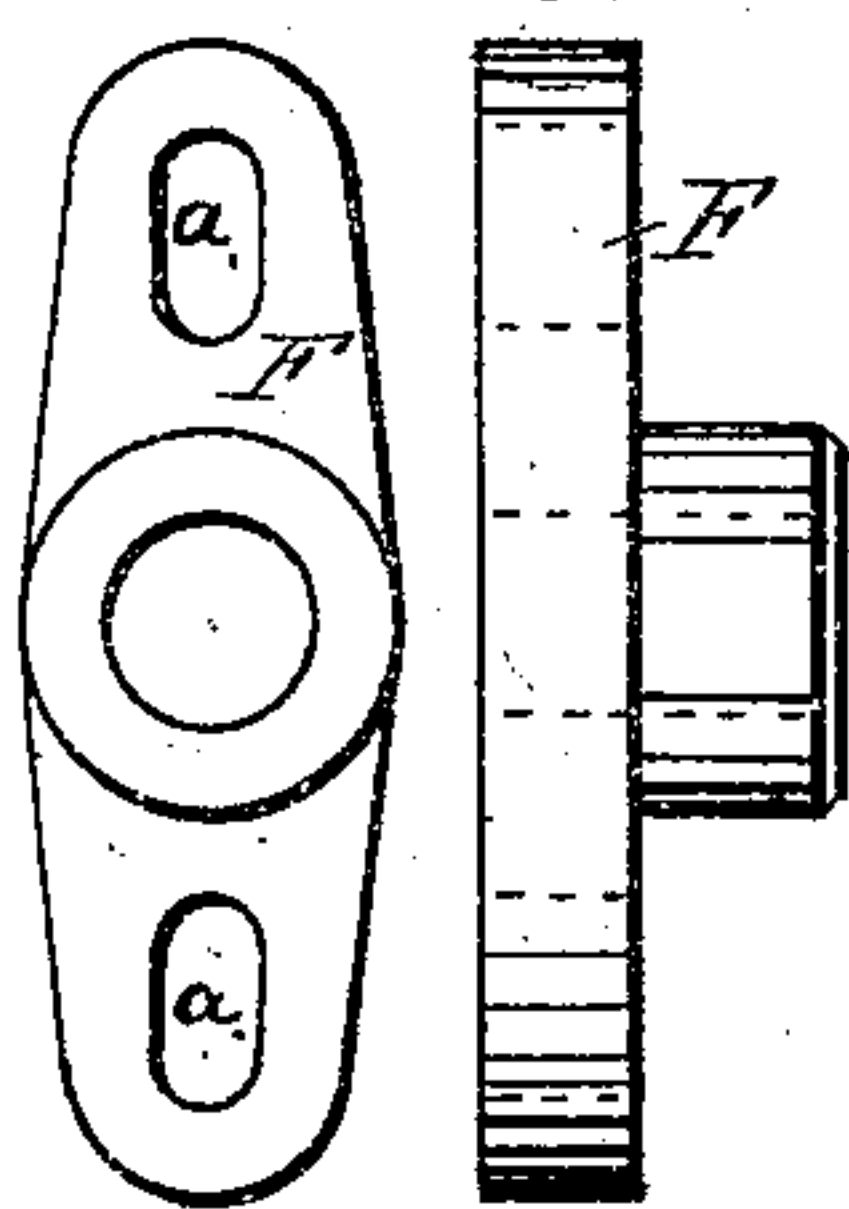


Fig. 3.

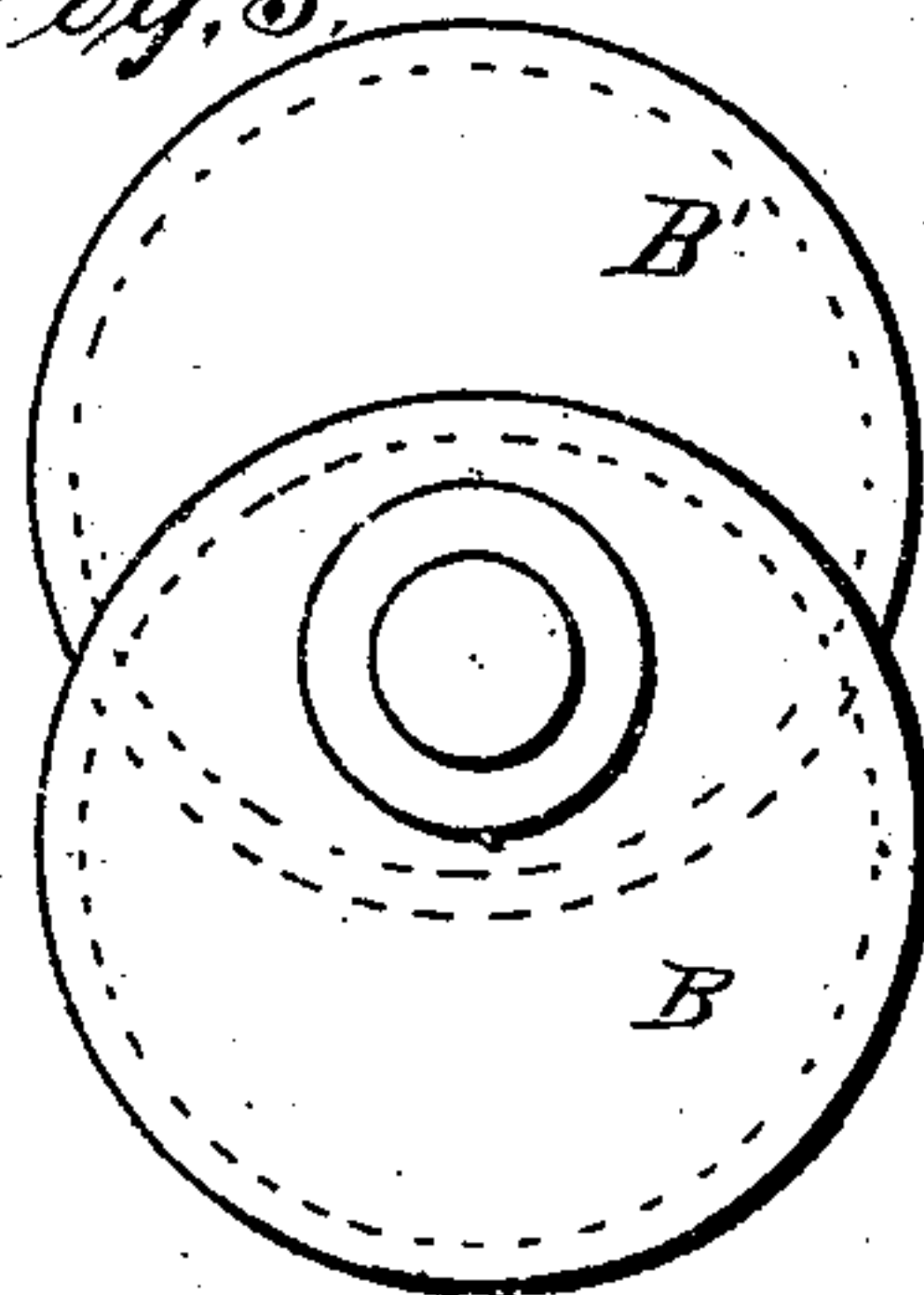
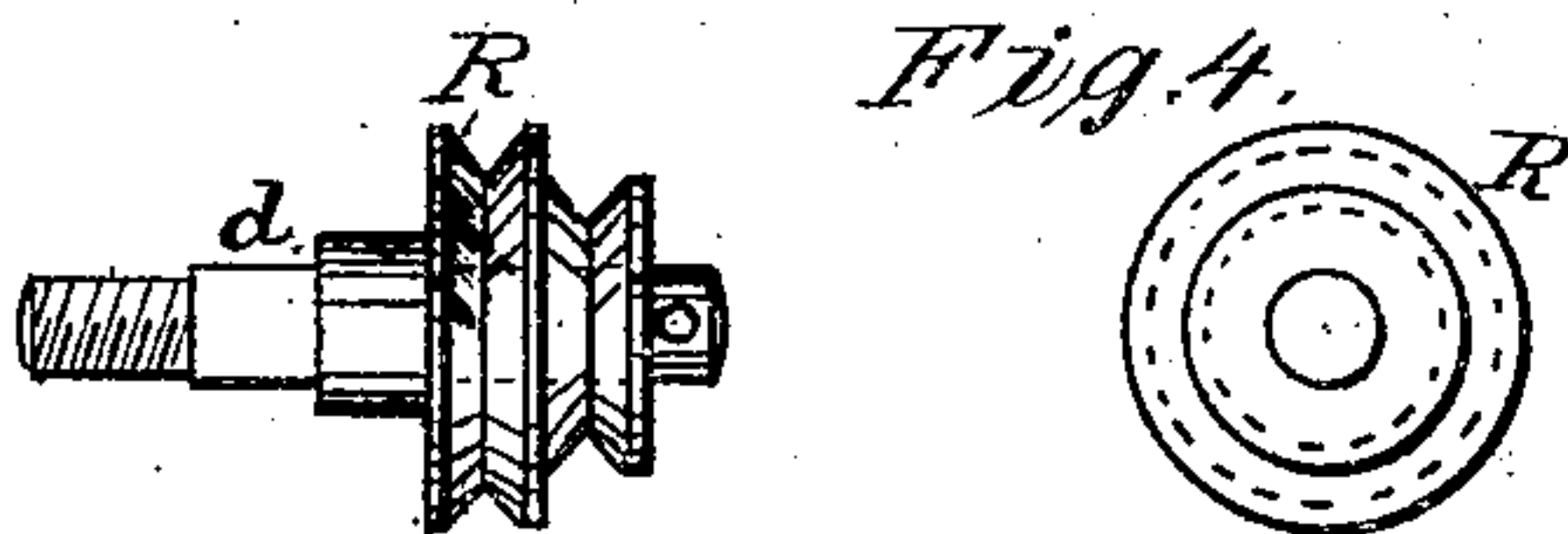


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY HOLCROFT, OF MEDIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO D. T. GAGE AND H. L. MOULTON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN DOFFING MECHANISMS FOR CARDING-MACHINES.

Specification forming part of Letters Patent No. **153,340**, dated July 21, 1874; application filed June 10, 1874.

To all whom it may concern:

Be it known that I, HENRY HOLCROFT, of Media, Delaware county and State of Pennsylvania, have invented certain Improvements in Carding-Machines, a means for operating the doffer-comb, of which the following is a specification:

My invention consists in the arrangement of two eccentric driving-pulleys, to give a reciprocating motion to the doffer-comb. The object of my invention is simplicity, durability, and capability of a high rate of speed, the working parts being balanced.

Referring to the drawings making a part of this specification, Figure 1 represents the side of a card with my improvement. Fig. 2 is a view of the double arm F. Fig. 3 is a view of the eccentrics and part of the shaft E. Fig. 4 is a view of the pulley R and its stud.

Similar letters in the drawings refer to like parts.

I construct two eccentric grooved pulleys, which I fasten together, as shown in the drawing, Fig. 3, and then fasten to the shaft E. F is a double arm, with two slots, *a a*. In these slots are placed the studs *d*, on which are placed small grooved pulleys R R'. These

pulleys may be made single, or in the form of a cone, as shown in Fig. 4. The arm F is fastened on the end of the comb-shaft K. (See Fig. 1.) S S are two round bands, which may be made of leather or cotton. A is the cylinder, D the doffer, and C the comb, which are constructed in the usual manner.

The operation is as follows: The shaft of the cylinder A, which is the first mover, communicates motion to the shaft E, on which are fastened the eccentric pulleys B B'. The bands S S communicate to the pulleys R R', and the revolution of the eccentrics B B' will give a rocking or reciprocating motion to the comb-shaft K and comb C. By adjusting the studs *d* in the slots *a a*, the stroke of the comb may be varied.

A flat band may be used, if desired, in place of a round one.

I claim—

The combination of the eccentrics B B', bands S S, pulleys R R', arm F, and comb C, as described, and for the above purpose.

H. HOLCROFT.

Witnesses:

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