

H. HOLCROFT.

Dofting Mechanisms for Carding-Machines.

No. 153,340.

Patented July 21, 1874.

Fig. 1.

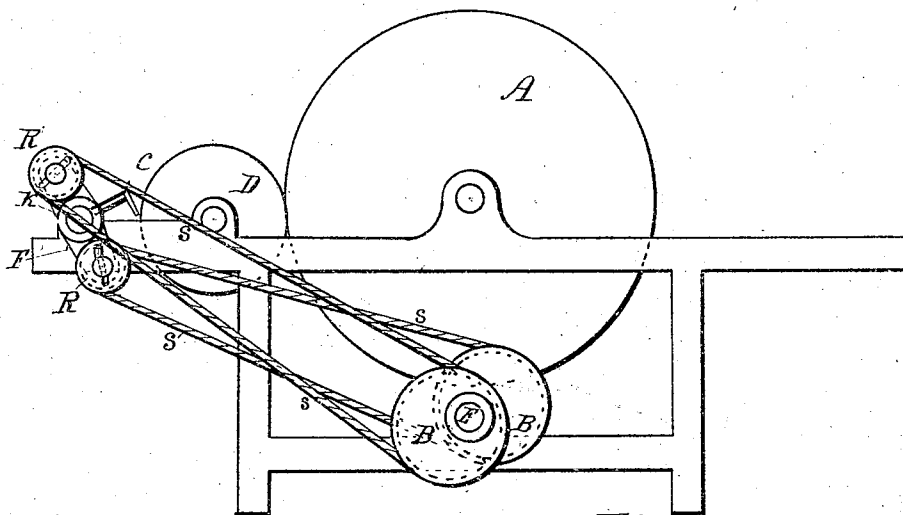


Fig. 2.

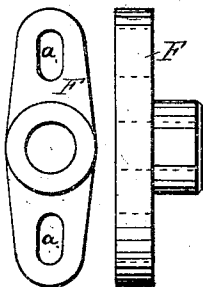


Fig. 3.

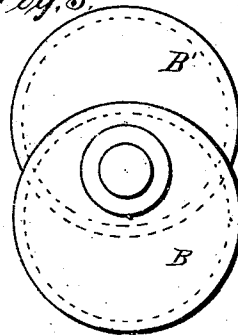
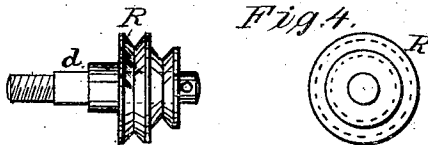


Fig. 4.



Witnesses

C. A. Grodman
John Shinn

Inventor

H. Holcroft

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:

C. A. GERDELMANN,
JOHN SHINN.