

CHARLES JONES.

Improvement in Carding-Machines.

No. 126,813.

Patented May 14, 1872.

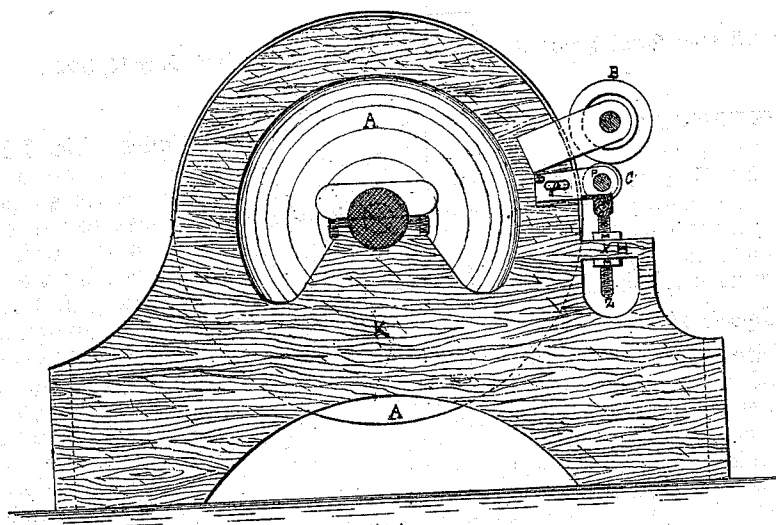


Fig 1

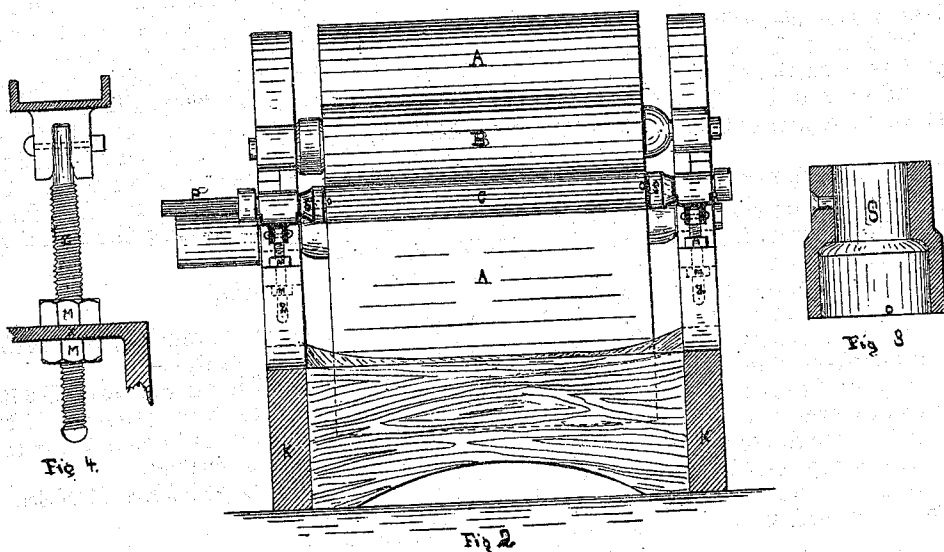


Fig 2

Fig 3

Witnesses.

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CHARLES JONES, OF YONKERS, NEW YORK.

IMPROVEMENT IN CARDING-MACHINES.

Specification forming part of Letters Patent No. 126,813, dated May 14, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, CHARLES JONES, of the city of Yonkers, in the county of Westchester and in the State of New York, have invented certain improvements in Carding-Machines, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to the combination, in a carding-machine, of a hinged screw, and of jam-nuts and cylinder, covered with card-clothing, and operating as a guard to the fancy or fly, said cylinder having its shaft supported in a slotted bearing-plate. The object of my invention is to support the guard, and also to raise or depress it any required distance from the fancy or fly, and also to make said guard perfectly secure.

Description of Drawing.

Figure 1 is a side elevation of a carding-machine. Fig. 2 is a front elevation of the same. Fig. 3 is a sectional view of the cup attached to end of guard. Fig. 4 is a view of a hinged screw with jam-nuts to support the guard.

Description.

In Fig. 1, K represents the frame of a carding-machine. In this drawing all of the small cylinders of an ordinary carding-machine are omitted, with the exception of the fancy B.

A A is a hollow revolving cylinder, covered with card-clothing. B is a small cylinder, covered with fancy card-clothing, and called the fancy. This fancy revolves with the main cylinder A, but at a more rapid rate. The card-clothing of the fancy touches the surface of the main cylinder A. The fancy operates as a brush. Its office is to raise, disturb, and lift up the wool fibers from the card-clothing of the cyl-

inder A. C is a cylinder, which I denominate a "guard," and which is covered with wire teeth, or is fluted, and occupies a position below the fancy B and close to the cylinder A, (see Fig. 1.) It serves to catch the fibers which may be thrown out by the fancy and return them to the main cylinder, and also to keep the teeth of the fancy clean and prevent them being clogged with knots and bunches of fiber. I place the guard sufficiently close to the fancy and to the cylinder A to accomplish these objects. I secure the guard in its proper place by means of a metal bearing-plate, D, in which there is a slot, E, which plate is securely fastened to the frame K by a bolt through the slot E and by a nut. This slot allows the placing of the guard at any required distance from the cylinder A. Below the metal plate, and attached to it by a hinge, is a screw, Z, which passes at X into an arm, H, of the frame K, and which is secured above and below the arm by metal jam-nuts. This screw raises or depresses the guard to any required distance from the fancy, and also makes the guard perfectly secure. The guard C is usually placed distant from the cylinder A, and the fancy B about one-sixteenth of an inch. The guard is turned by a band at P. The fancy revolves upward and inward; the guard revolves upward and inward.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the hinged screw Z with its slotted bearing-plate D, the jam-nuts M M, and the guard C, substantially as and for the purposes hereinbefore described.

Witnesses: CHARLES JONES.

HENRY TAMLYUS,
JAMES C. MIX.