

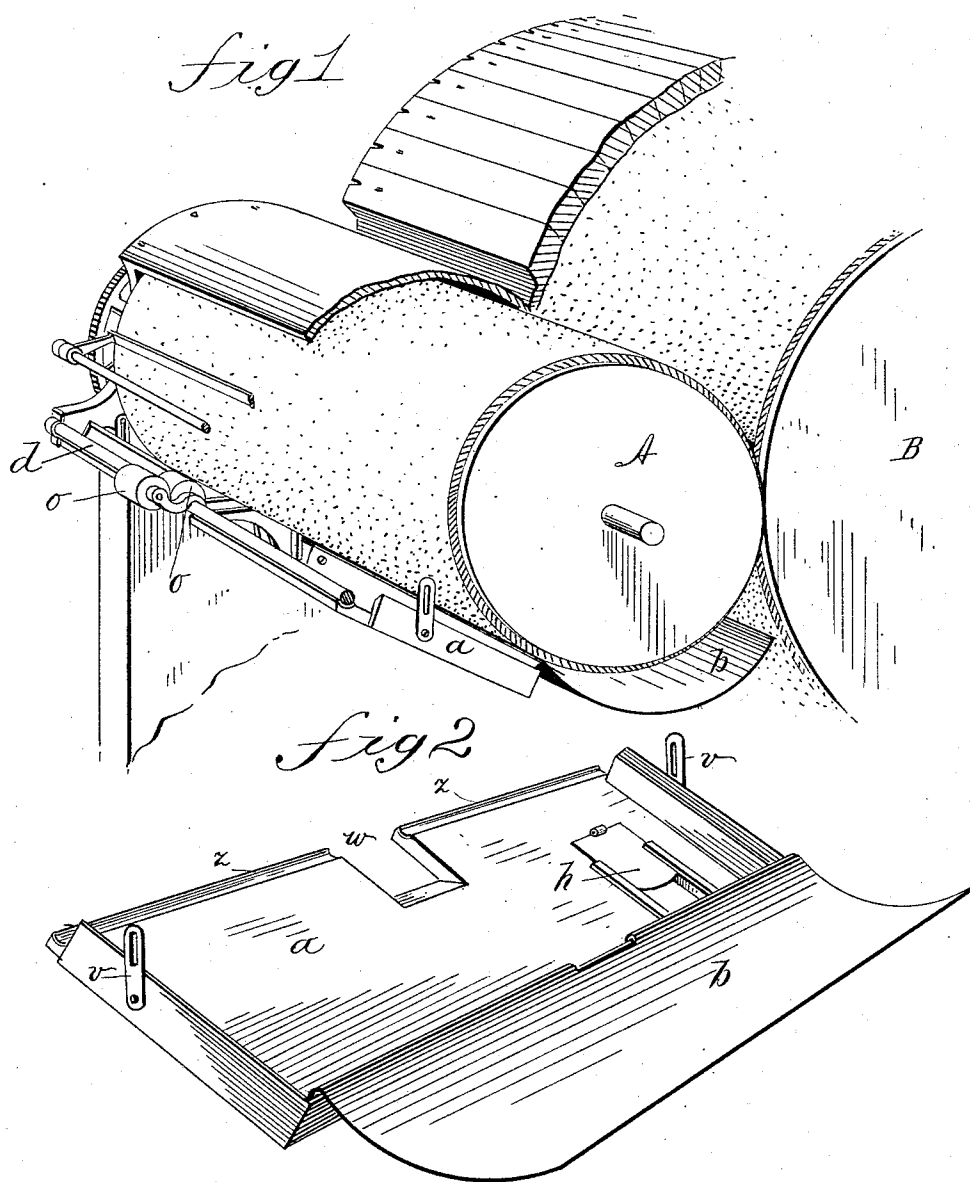
(No Model.)

M. ROUSSELLE.

DUST COLLECTING ATTACHMENT FOR CARDING ENGINES.

No. 328,069.

Patented Oct. 13, 1885.



WITNESSES:

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MOSES ROUSSELLE, OF CHICOPEE, MASSACHUSETTS.

DUST-COLLECTING ATTACHMENT FOR CARDING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 328,069, dated October 13, 1885.

Application filed March 9, 1885. Serial No. 158,125. (No model.)

To all whom it may concern:

Be it known that I, MOSES ROUSSELLE, a citizen of Canada, residing at Chicopee, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Dust-Collecting Attachments for Carding-Engines, of which the following is a specification.

This invention relates to attachments for carding-engines used in preparing cotton and similar fibrous materials for manufacture into yarn, the object being to provide improved devices for preventing dirt and dust from the cylinder and doffer-roll of carding-engines from falling under the same, and thereby obviating the loss of material consequent upon the admixture of said dirt and dust with any sliver or cotton which may fall under the machine.

In the drawings forming part of this specification, Figure 1 is a perspective view of a portion of a carding-engine, partly broken away, having my improved attachment applied thereto. Fig. 2 is a perspective view of a dust receptacle and apron.

Heretofore no provision has been made for preventing the soiling of sliver and cotton which may fall under the machine by the dirt and impurities which fall from under the doffer roll and comb, and from between the card-cylinder and doffer-roll of a carding-engine; but my improvements, as hereinafter described, prevent said sliver and cotton from becoming soiled, as above set forth.

In the drawings, B is the card-cylinder, and A the doffer-roll, of a carding-engine of ordinary construction. *d* is the shaft supporting the delivery-rolls *o o*. *a* is the dust and dirt receptacle, and *b* the apron attached to the back side of said receptacle. *h* is the trap or door through which dust or dirt is removed from the box *a*.

The construction and operation of a carding-engine are well known to persons skilled in the art of cotton-manufacture. Said machine itself constitutes no part of my invention. It is known, however, that much dirt and dust fall from beneath the doffer-roll and doffer-

comb, and from between the card-cylinder and doffer-roll of the engine and spread over the floor thereunder, and much of it is blown by the draft of wind caused by the rapid rotation of the cylinders of the machine onto the slivers, greatly to the detriment of the yarn and the fabric made therefrom.

To obviate the above-described admixture of impurities with the sliver, I construct the dust-receptacle *a*, consisting substantially of a box of a rectangular form, having the required dimensions and open at one side, as shown, and provided with links *v*, for hanging it to the frame of the engine. The front edge of the box *a* is grooved at *z* to fit under and close to the shaft *d* to more effectually prevent the escape of dirt. The slot *w* allows of raising the box to its position, as shown in Fig. 1, without interfering with the rolls *o*. On the side of said box opposite the open side is secured a suitable apron, preferably constructed of metal, which is so curved as to be adapted to its position, and which extends back to some distance beyond the point between the card-cylinder and the doffer-roll, and as near the card cylinder as may be practicable, as shown.

The dust-receptacle is secured to the frame of the machine in such a manner as to give it the inclined position shown in Fig. 1 of the drawings.

In the bottom of the box *a*, and near one end, is put a sliding trap or door, *h*, whereby any accumulated dust or dirt may easily be removed without removing the box from its position on the machine. Any dust in the apron may be removed in any convenient manner.

What I claim as my invention is—

The attachment for carding-engines herein described, consisting of the box *a*, of rectangular form, having the grooved edge *z*, the door *h*, and the apron-extension *b*, substantially as set forth.

MOSES ROUSSELLE.

Witnesses:

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WM. H. CHAPIN.