

F. H. LUMMUS.
Cotton Condenser.

No. 232,736.

Patented Sept. 28, 1880.

Fig. 1.

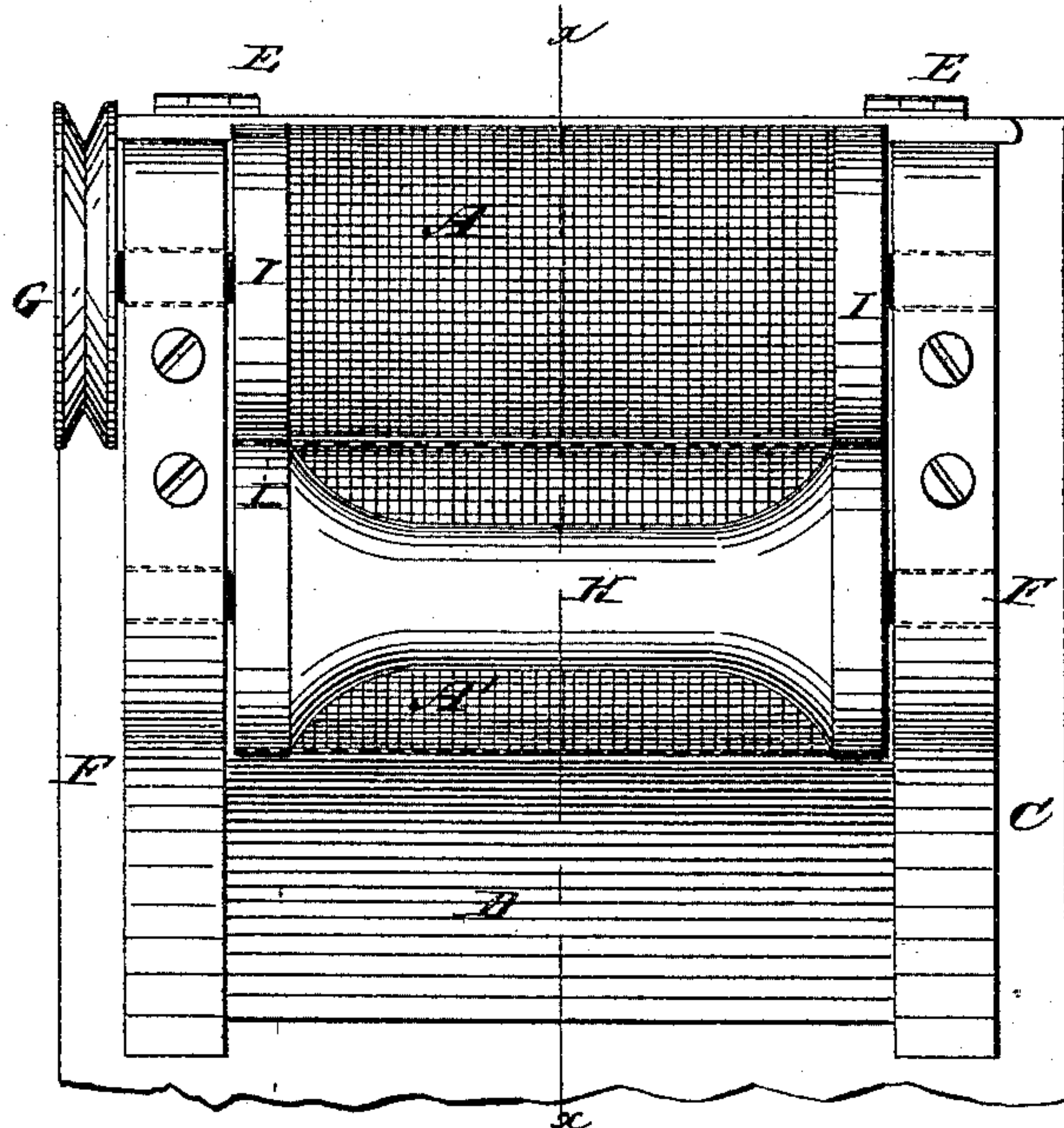
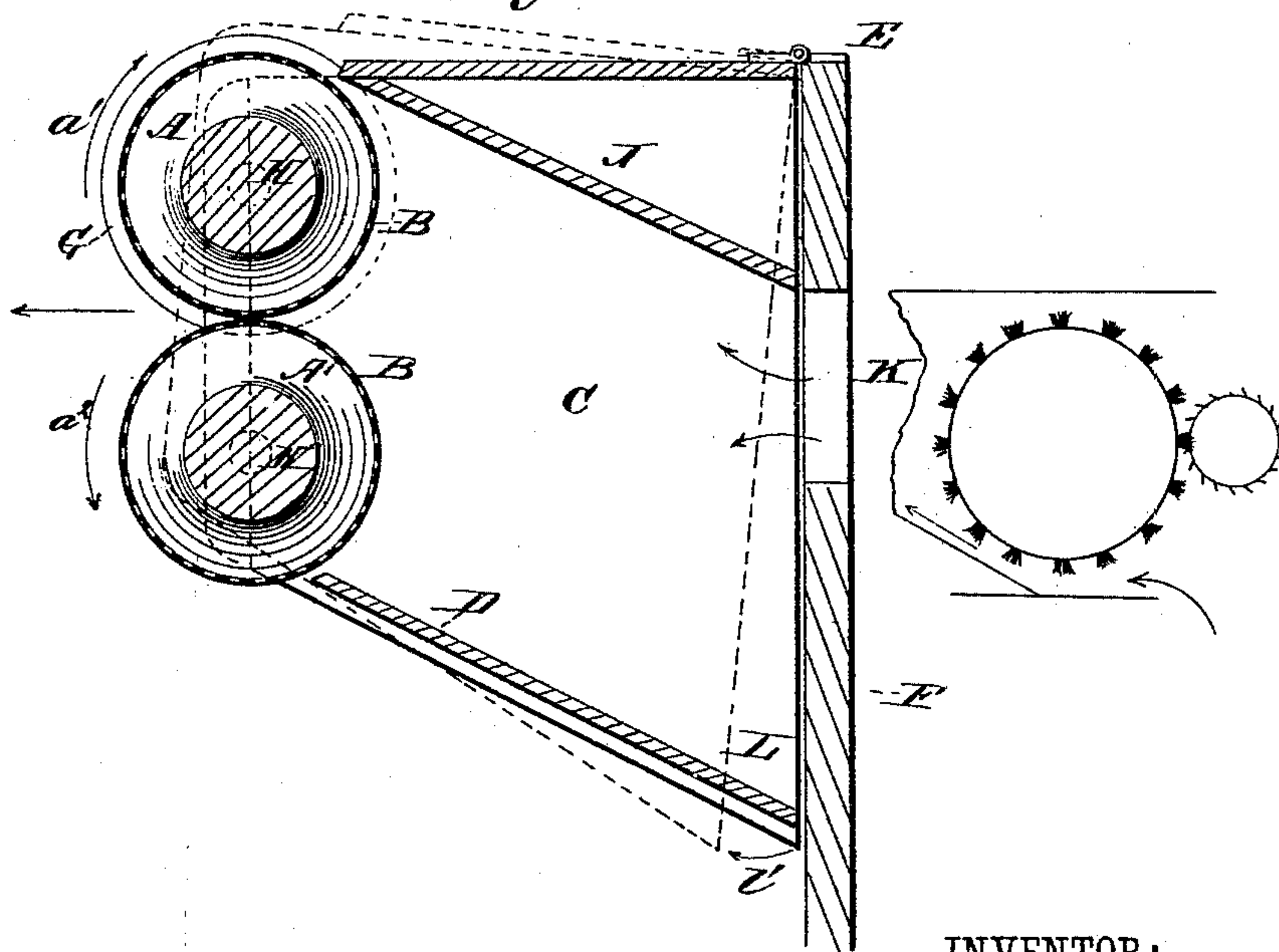


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANKLIN H. LUMMUS, OF BROOKLYN, NEW YORK.

COTTON-CONDENSER.

SPECIFICATION forming part of Letters Patent No. 232,736, dated September 28, 1880.

Application filed February 2, 1880.

To all whom it may concern:

Be it known that I, FRANKLIN H. LUMMUS, of Brooklyn, Kings county, New York, have invented a new and Improved Cotton-Condenser, of which the following is a specification.

The primary object of the invention is to provide a condenser which may discharge the dirt accumulated in the pocket provided for it by being raised out at the bottom, as hereinafter described.

In the accompanying drawings, Figure 1 is a front elevation of my improved cotton-condenser, showing the lower roller in section, and Fig. 2 is a cross-sectional elevation of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The cylindrical rollers A and A', covered with wire-netting B or some other similar suitable material, are journaled one above the other, and in contact with each other, in the forward end of a box, C, having an inclined bottom, D, and hinged, by means of suitable hinges E E, to the discharge end F of a cotton-gin. One of the rollers—for example A—is provided with a suitable pulley, G, and each roller may have gearing or a friction-surface at the ends to assist the roller provided with a pulley in acting upon the other roller.

The shafts H and end pieces, I, of the rollers may be made in one piece, as shown, or of separate parts. The inside of the box C may be provided with an inclined top, J.

The operation is as follows: The lint is car-

ried out through the discharge-flue K of the gin by the current of air, as indicated by the arrows, and is thrown against the wire-netting covering of the rollers A and A', which rotate in the direction of the arrows *a'* and *a''*. The air passes through the netting and the lint is pressed between the rollers, which yield sufficiently to let it pass, and is formed into a bat, which is received on a suitable receptacle below the rollers. The dirt, dust, &c., fall down onto the inclined bottom D, slides down the same, and collects on the lower end, L, of the same, where it rests against the end of the gin. If the box C is raised in the direction of the arrow *l'* a short distance, as indicated by dotted lines, the dirt and impurities will fall down onto the floor or some suitable receptacle. The box C falls back into its former position, and operations can be renewed. The rollers may be arranged with yielding journals.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a cotton-gin having the discharge-flue K, of a hinged box, C, having an inclined bottom, D, and rollers A A', substantially as herein shown and described, whereby the dirt and foreign matter will descend from the rollers along the floor D to the pocket L and fall from the box when the latter is slightly raised on its hinges, all as set forth.

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Witnesses:

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