

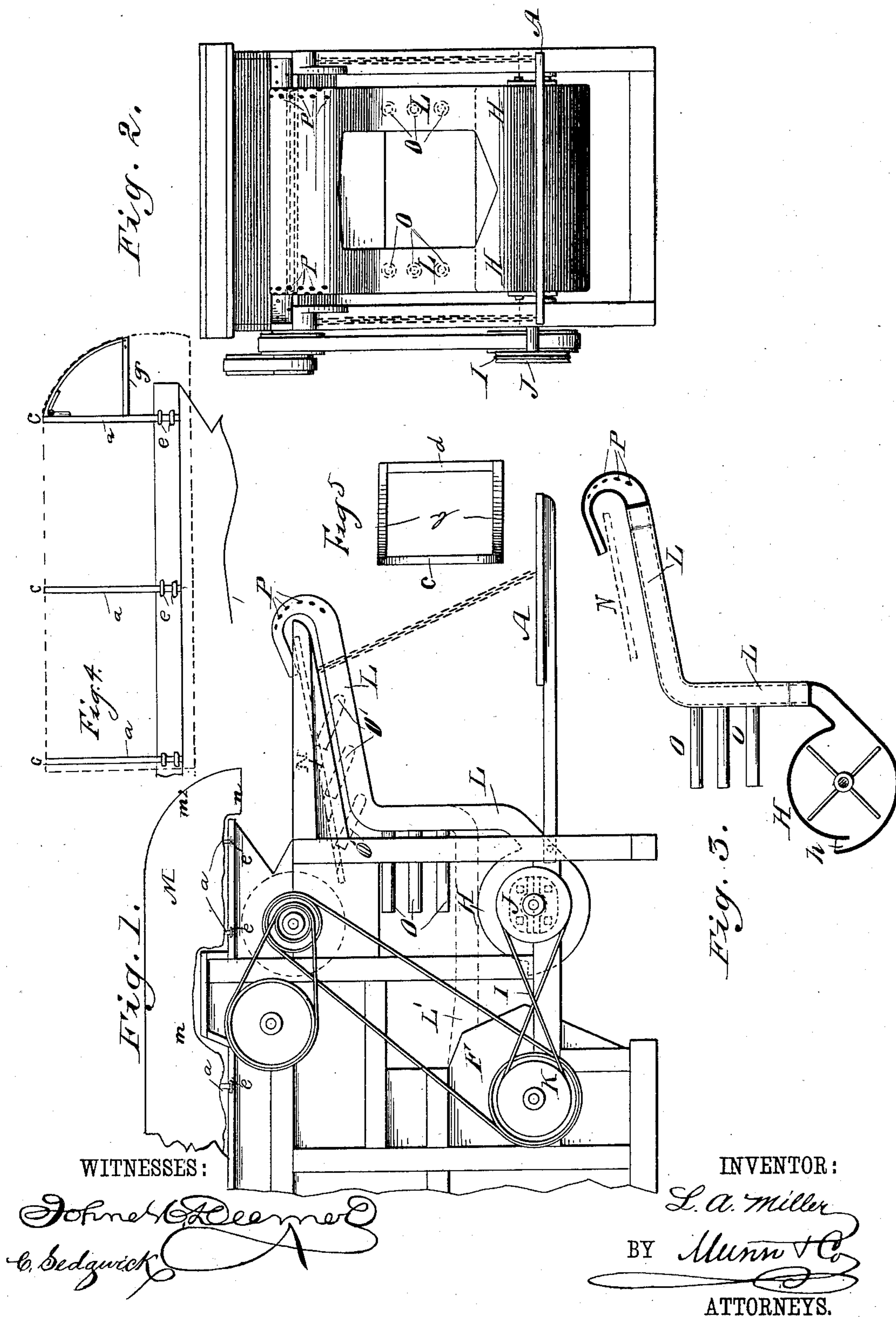
(No Model.)

L. A. MILLER.

DUST CONVEYER FOR THRASHERS.

No. 364,184.

Patented May 31, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LYMAN A. MILLER, OF CARBONDALE, ILLINOIS.

DUST-CONVEYER FOR THRASHERS.

SPECIFICATION forming part of Letters Patent No. 364,184, dated May 31, 1887.

Application filed October 14, 1885. Serial No. 179,863. (No model.)

To all whom it may concern:

Be it known that I, LYMAN A. MILLER, of Carbondale, in the county of Jackson and State of Illinois, have invented certain new and useful Improvements in Dust-Conveyers for Thrashers, of which the following is a full, clear, and exact description.

This invention pertains to certain improvements in dust-conveyers for thrashers; and it consists of the combinations of parts, including their construction, substantially as hereinafter set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of the front or feeding end of a thrasher and clover-huller with my improvement. Fig. 2 is an end elevation of the same, and Fig. 3 is a sectional side view of the attachment. Fig. 4 is a side view of the supporting-frames of the canvas cover, a portion of the casing also being shown with the frames applied thereto. Fig. 5 is a plan view of the same.

The machine shown is of ordinary character. On the main frame, and beneath the grate, is placed a blast-fan case, H, whose fan is driven by a belt, I, from pulley J to a pulley, K, on the shaft of the fan. From each end of the case of blast-fan trunks or tubes L rise and extend to the outer end of the feed-table N, where the ends of the tubes unite and are bent upward and forward over the table, and terminate in an open end in position for sending a current of air backward. The tubes L are also provided with tubes or outlets O, extending backward between the frame to a vertical plane ranging a short distance from the lower end of the feed-table N. There may also be similar tubes at the side of table N, as shown by dotted lines O'.

The special construction and arrangement of the tubes will vary with the machine to which the attachment is applied. I prefer to construct the fan-case, as shown in Fig. 3, with a slot, h, lengthwise of the case, instead of forming open ends in the case; but a fan-case of any suitable form may be used.

In some cases, particularly in applying my improvements on old machines, the tube L

may be connected with the fan-case F of the machine by the pipe L', as shown in dotted lines in Fig. 1.

When the machine is in operation, the air driven through the tubes L by blower H is discharged in strong currents through the branches O and above the feed-table, so that all dust at that end of the machine is driven to the rear and from the operator standing on the platform A. At the bend in tube L there are perforations P, to allow escape of cool and agreeable air-currents in the immediate vicinity of the operator.

In addition to the devices as above described, I arrange above the frame of the machine, and projecting over the feed-table, a canvas cover, M, so that dust or chaff rising from the machine will be directed forward and downward toward the cylinder, to be carried to the rear of the machine by the action of said cylinder, and so that, should the wind blow toward the forward end of the machine, the operator will not be annoyed by the dust carried with it. This cover is made of canvas, and has depending sides *m'* extending down over the sides of the machine. The top inclines downward at *m''*, partly closing the front end of the cover, leaving an opening at *n* over the feed-table in front of the cylinder. The top may slope to the rear, if desired, the rear end being open to receive the dust, which would otherwise be carried along over the machine upon the operator. This cover is to be supported upon a light frame-work, preferably of iron rods detachably secured to the frame of the machine, and consisting of U-shaped iron frames *a c a*, supported by staples *e* (or otherwise) on the machine-frame, and a front inclined frame, *b d*, attached on the forward frame and supported by braces *g*, the canvas cover M being placed over these frames; but any other suitable frame-work may be employed.

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

1. In a thrashing-machine, the combination, with the thrashing-cylinder and feed-board, of the fan and fan-case and the tube having its vertical portion extended to conform to the lower side of the feed-board, and then carried upward and rearward to cause it to overhang

the feed-board, substantially as and for the purpose set forth.

2. In a thrashing-machine, the combination, with the thrashing-cylinder and feed-board, of
5 the fan and fan-case and the tube having its vertical portion provided with inwardly or rearwardly projecting tubes, and extended to conform to the lower side of the feed-board

and then carried upward and rearward to cause it to overhang the feed-board, substantially as and for the purpose set forth.

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Witnesses:

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