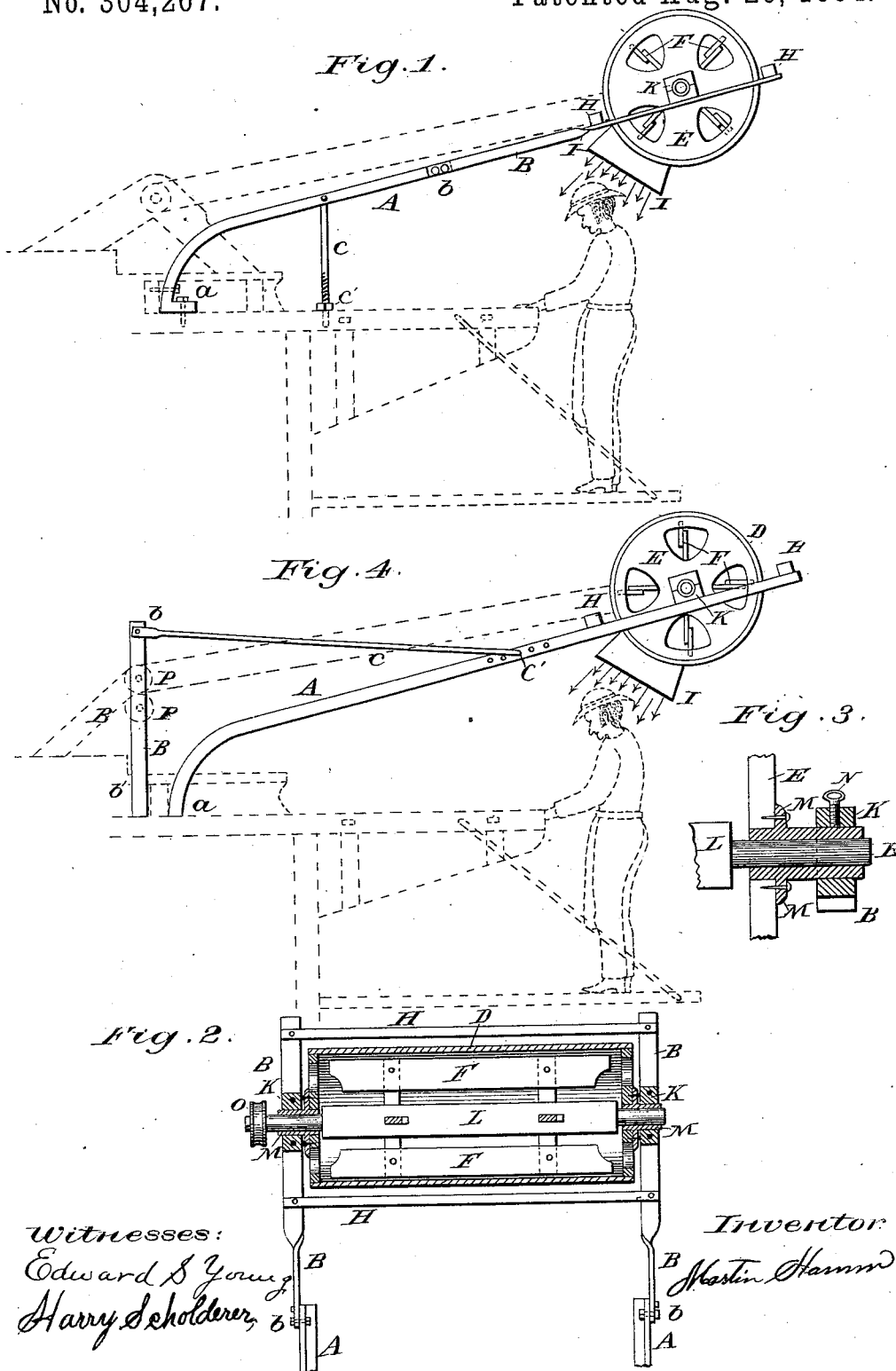


M. HAMM.

DUST FAN FOR THRASHING MACHINES.

No. 304,267.

Patented Aug. 26, 1884.



(No Model.)

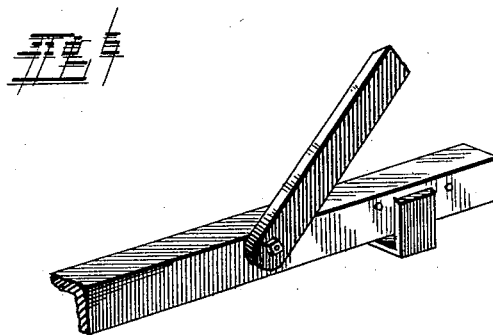
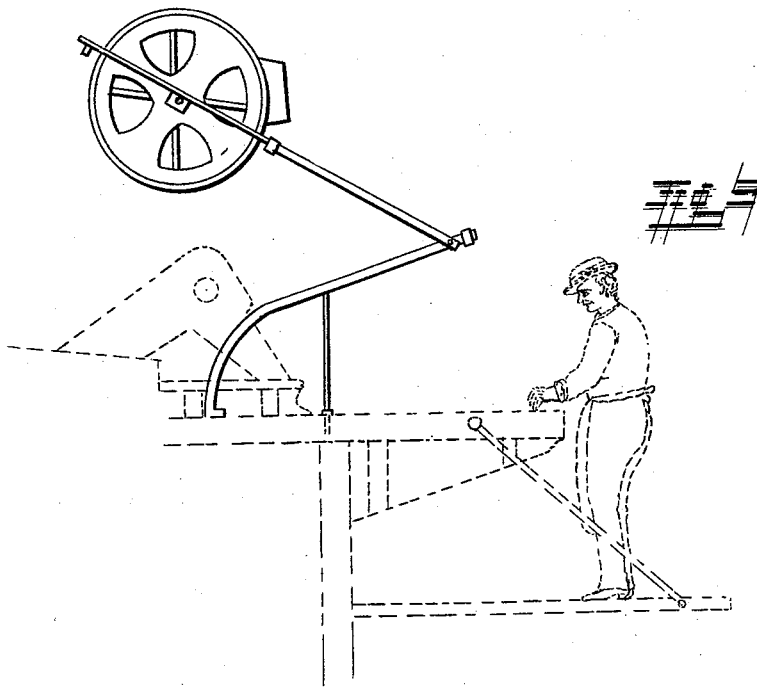
2 Sheets—Sheet 2.

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WITNESSES:

Edw. S. Dieterich
Edw. S. Dieterich

INVENTOR.

Martin Hamm
W. J. Johnston
ATTORNEYS.

UNITED STATES PATENT OFFICE.

MARTIN HAMM, OF CHILlicothe, OHIO, ASSIGNOR OF ONE-THIRD TO
THOMAS K. WILSON, OF SAME PLACE.

DUST-FAN FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 304,267, dated August 26, 1884.

Application filed March 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, MARTIN HAMM, a citizen of the United States, residing at Chillicothe, in the county of Ross and State of Ohio, have invented a new and useful Improvement in Dust-Fans for Thrashing-Machines, of which the following is a specification.

My invention relates to dust-fans for thrashing-machines; and my said invention consists in certain details of construction and arrangement of the several parts, as will be more fully set forth in the specification and claims, and pointed out in the accompanying drawings, in which—

Figure 1 is a side elevation of the entire machine used on thrashers having vibrating elevators. Fig. 2 is a top sectional view. Fig. 3 is a vertical sectional view of the journals and boxings. Fig. 4 is a side elevation of the entire machine when used on thrashers not having elevators running above their decks. Fig. 5 is a side elevation representing the fan as in its folded-back position when not in use; and Fig. 6 is a detailed sectional view of the hinge-connection of the fan-suspending bars.

Similar letters refer to similar parts throughout the several views, with the exception of Fig. 4, where there is a slight deviation to suit the different patterns of thrashers to which the machine is to be attached.

A is a bent frame of wood or iron, one end, *a*, of which is attached permanently to thrashers. The other end, *b*, is attached to the straight bars or frames B, forming a hinged joint with said bars or frames B. B is a straight bar or frame of iron or wood. If iron, it is turned one-quarter (¼) around for half its length, to admit of the boxings K resting firmly upon it. The bent frame A is strengthened and supported by perpendicular iron braces C, the lower ends of the braces being threaded for the reception of nuts *c'*, by means of which nuts the frame is raised or lowered. The frame is further strengthened by braces H H. In boxings K rests a second boxing, M, to which is attached the head E of the cylindrical casing D, and through which (M) revolves a shaft, L, to which are attached several blades, F, to produce a blast of air. To one end of the fan-shaft L is attached a pulley, O, to receive the driving-

belt by which the fan is operated, and which receives motion from the thrasher. The fan F is inclosed in a cylindrical casing, D, which has an opening in its side for its entire length, through which the air is driven out upon the rotation of the fan F. The blast is delivered from the fan-case through a spout, I, formed by a prolongation of the casing D at the opening along its length. Air is drawn in to supply the blast through openings in the ends E of the casing D. The boxings M, fastened to the ends E of the cylindrical casing D, as journals in boxings K, permit the casing to be revolved and held in place by the set-screw N.

In Fig. 4 the same idea and principle are involved, and the parts similarly lettered are substantially the same. A is a bent frame of wood or iron, having one of its ends, *a*, resting upon the thrasher. B is an upright post, having one of its ends, *b'*, permanently attached to the thrasher. C is a brace, having one end, *b*, fastened to the upright posts B, and its other end, *c'*, hooked to the frame A, permitting the frame to be raised or lowered. P P are pulleys attached to the upright post B, to admit of the driving-belt attached to the pulley O passing over them and out of the way of the feeder and band-cutters.

The machine is designed to be attached directly and permanently to thrashers, and in such a manner as will leave room for the feeder and band-cutters to do their work, and can be so adjusted as to deliver the blast of air upon the head and shoulders of the feeder and band-cutters, so as to drive the dust away from them, and at the same time keep them cool.

I am aware that prior to my invention fan-blowers for thrashers have been made with cylindrical casings supported on frame-work. I therefore do not claim such a combination, broad; but

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

1. The combination, in a dust-fan for attachment to thrashing-machines, with the frame of the thrashing-machine, the inclosed fan, and suitable means for driving the same, of a bracket-support for the fan, secured at one end of the thrashing-machine, and adapted to be vertically adjusted and extended forward when

the fan is in use or folded back above the top of the thrashing-machine when the fan is not in use, substantially as described.

2. The combination, with the inclosed fan, 5 the frame of a thrashing-machine, and suitable means for driving the said fan, of the frame for supporting the fan, secured to the frame of the thrashing-machine, and composed of front and rear sections and cross-braces H, so secured as to permit the fan to be extended forward of or rest above the thrashing-machine, 10 for the purposes described.

3. The combination of the bracket-support A a, secured to the frame of the machine, and 15 extending above and forward of the feeding-table thereof, arms B, hinged to said frame A, and carrying at its end the inclosed fan E F, and a suitable brace adapted to be adjusted so as to raise or lower the frame A B, substantially as and for the purposes specified. 20

4. The combination, with the thrashing-machine and frame, of a dust-fan, a suitable frame for the same to support the fan above and beyond the end of the feeding-table of said thrashing-machine, and suitable means for driving 25 said fan, of means, substantially such as described, connected with the axle of the fan, whereby the fan-cylinder may be turned to change the direction of the delivery-draft thereof, for the purposes specified. 30

5. The combination, with the inclosed fan D E, with discharge-orifice I, shaft L, and supporting-frame B, of the boxings M, secured to the end of fan-cylinder, and boxings K upon the frame, with set-screw N, substantially as 35 and for the purposes set forth and shown.

MARTIN HAMM.

Witnesses:

JOHN MEYER,
ADAM HAMM.