

A. LOW.  
Grain-Separators.

No. 153,835.

Patented Aug. 4, 1874.

Fig. 1.

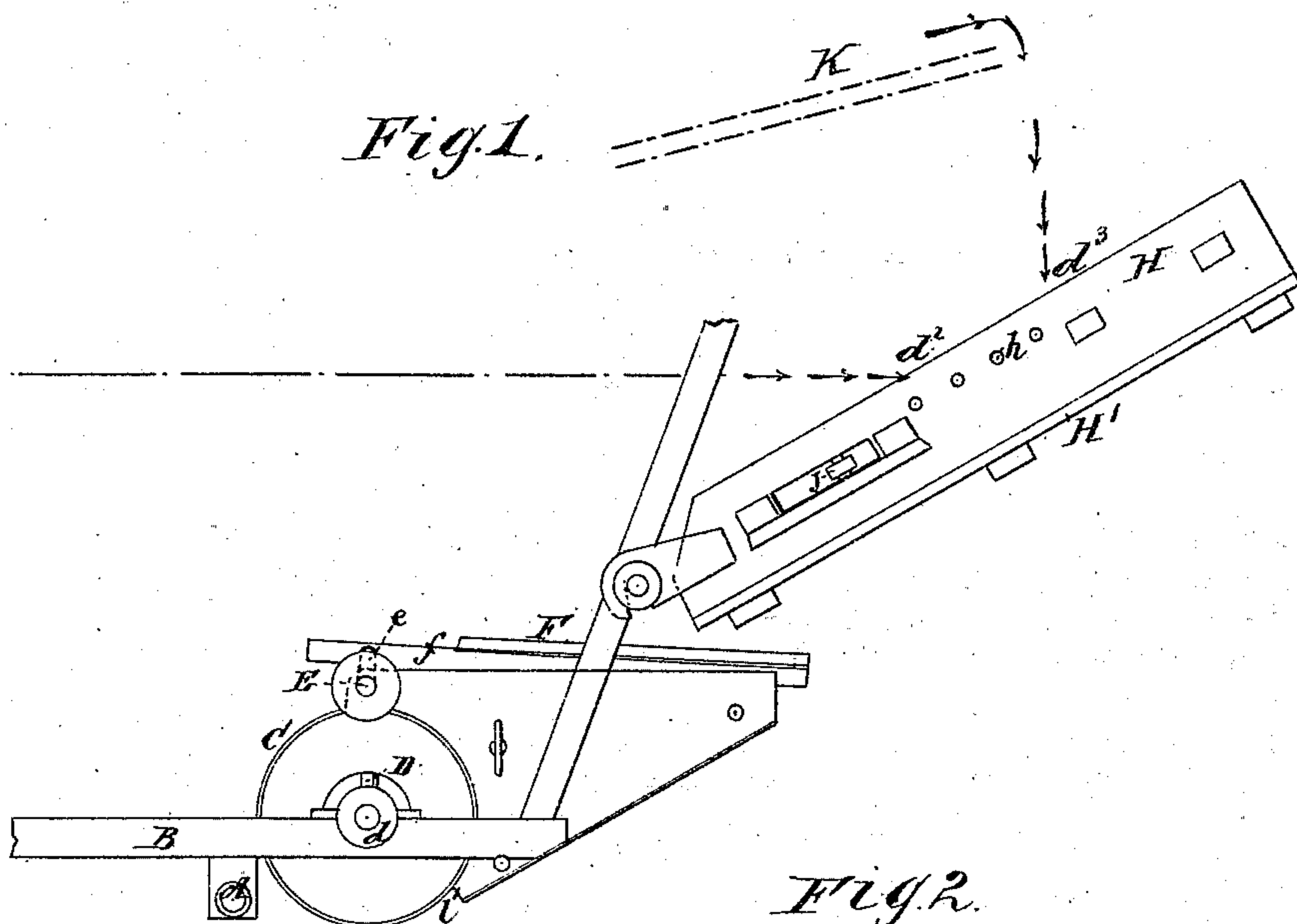


Fig. 2.

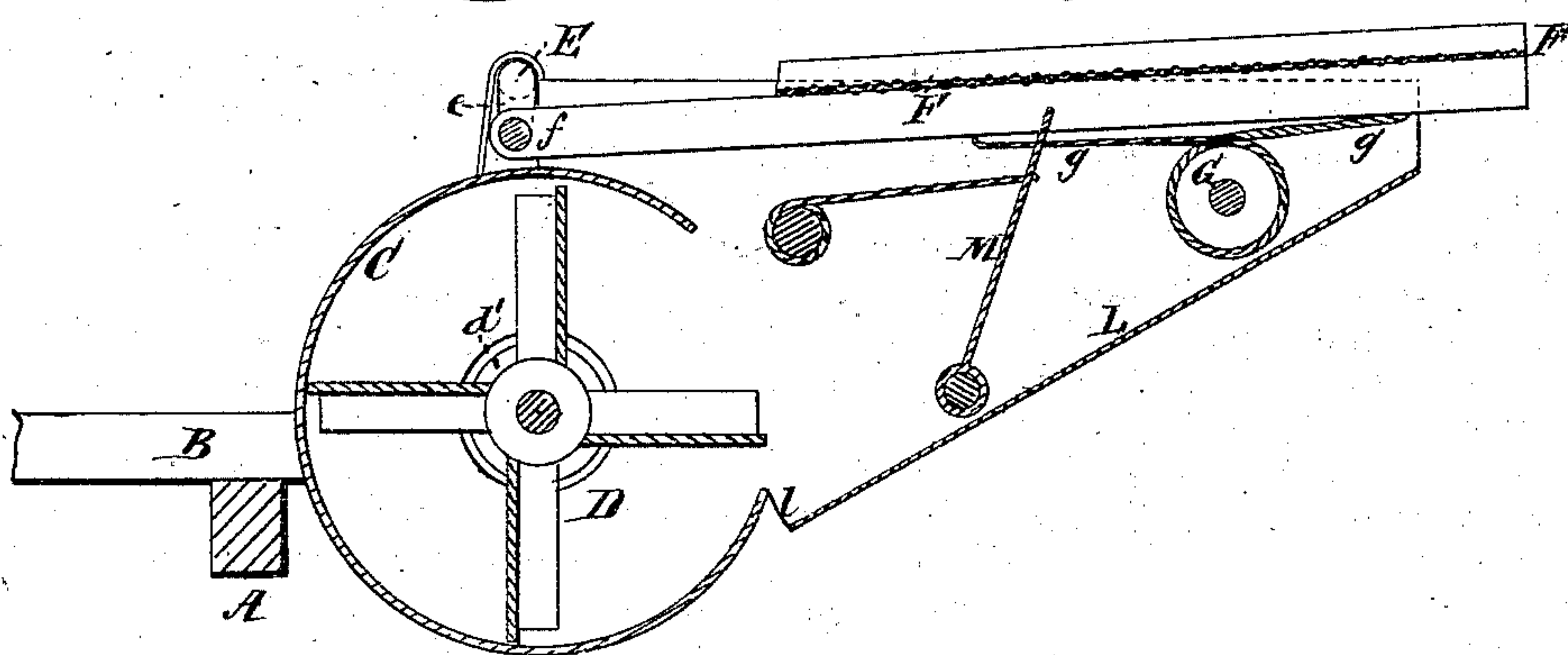
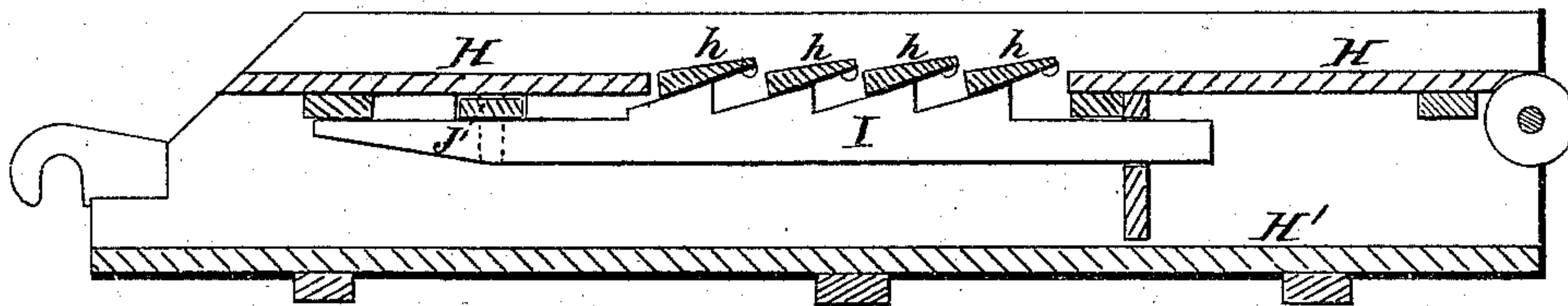


Fig. 3.



WITNESSES:

G. Watkins.  
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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

ASA LOW, OF SHELL ROCK, IOWA.

## IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **153,835**, dated August 4, 1874; application filed March 16, 1874.

*To all whom it may concern:*

Be it known that I, ASA LOW, of Shell Rock, in the county of Butler and State of Iowa, have invented a new and Improved Thrashing-Machine Attachment; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

The figures of drawing are longitudinal sectional elevations.

The invention will first be fully described in connection with all that is necessary to a full understanding thereof, and then pointed out in the claims.

A represents the axle of a thrashing-machine, to which I propose to attach my improvement; B B, the sills, and C a fan-case located between the said sills. D is the fan, whose shaft is journaled centrally in the fan-case, and has on its ends the pulleys *d d*. E is a shaft, on whose cranks *e e* are pivoted the arms *f f* of a riddle, F, that is attached by cord *g*, near its front end, to, and runs on, friction-rolls G G. This riddle extends under the lower end of straw-carrier frame H H', that is provided with pivoted ventilator-boards *h* in its upper floor H, resting upon, and more or less closed by, a notched bar, I, and adjusting-lever J.

The grain that is blown over the riddle of the thrashing-machine, and over the rattle-rake K, is thus arrested by the carrier, an open endless slat-apron, (not shown in drawing,) traveling up floor H, respectively, at *d*<sup>2</sup> and *d*<sup>3</sup>, the former portion being carried up and

dropped through the ventilators *h*, while the latter is dropped on the lower floor H', and thence carried down and dropped upon the riddle F, down the incline L, and through the discharge *l*. The air of the fan D passes directly up the carrier, between the floors H H', and through the ventilators *h*. The object of this is to prevent the dust and chaff from reaching the riddle.

In order to make the current of wind go higher or lower, I place in front of the fan, and under the riddle, a board, *m*, which may be raised or lowered by a thumb-screw or other adjustable device.

The grain that is blown over the ordinary thrashing-machine riddles passes directly to the riddle of my attachment, while that carried away in the straw up and over the rattle-rake (indicated at K in the drawing) is first dropped through the ventilators, and then returned, with the straw-carrier, on the lower floor H, to the same destination, the riddle F.

Having thus described my invention, what I claim is—

1. The combination, with riddle F, of the crank-shaft E *e*, cords *g g*, and rolls G G, as and for the purpose specified.

2. The combination, with fan D, of boards H H', provided with ventilators *h*, the notched bar I, and the lever J, all arranged substantially as and for the purpose specified.

ASA LOW.

Witnesses:

BENJAMIN ROBERTS,  
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