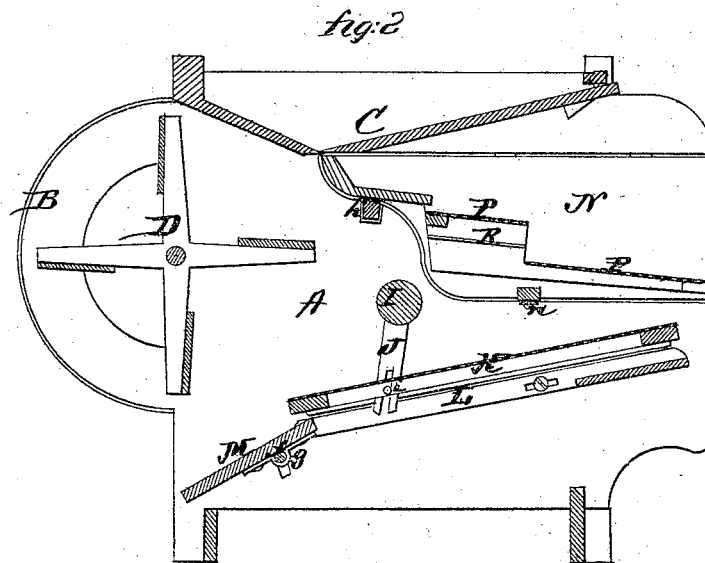


Improvement in Fanning-Mills.

Patented May 16, 1871.



Witnesses.
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UNITED STATES PATENT OFFICE.

HURLBERT H. SEELEY, OF HUDSON, MICHIGAN.

IMPROVEMENT IN FANNING-MILLS.

Specification forming part of Letters Patent No. **114,977**, dated May 16, 1871.

To all whom it may concern:

Be it known that I, HURLBERT H. SEELEY, of Hudson, in the county of Lenawee and in the State of Michigan, have invented certain new and useful Improvements in Fanning-Mills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a fanning-mill, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a longitudinal vertical section.

A represents the frame of my fanning-mill, with drum B and hopper C.

The side of the mill, including the side of the drum and hopper, is made of one board, and the two sides connected and attached together by suitable cross-bars, the hopper, and the drum, the whole being supported upon posts on the outside, as shown.

D is the fan inside of the drum B. On one end of the fan-shaft, outside of the mill, is a pinion, *a*, which is operated by cog-wheel E and crank H, as seen in Fig. 1. On the outer side of the pinion *a* is a crank or wrist pin, *b*, which is inserted in an elongated slot on a lever or pitman, G. The other or front end of this lever is attached to an arm, *d*, by means of a dovetail and thumb-screw, *e*, the arm *d* being attached to the end of a rock-shaft, I, which passes through the mill, having its bearings in the sides thereof. The arm *d* is slotted where the thumb-screw *e* passes through it, so that the lever G can be raised or lowered at will upon said arm, and thus regulate the shake of the mill.

From at or near the center of the rock-shaft I an arm, J, extends downward, said arm being forked at its lower end and placed over a pin, *i*, in the lower screen, K. This screen rests on a frame, L, which is pivoted to the sides of the mill, and has at its rear end the

wheat-board M pivoted to it. This wheat-board can be raised or lowered to suit any kind of grain that is cleaned. A rod, *f*, passes through a loop, *g*, on the under side of the wheat-board, and through slots in the sides of the mill, for holding the wheat-board at any desired height. By raising and lowering the wheat-board the lower screen, K, is raised or lowered at both ends at the same time.

N represents the shoe, hung in the frame A by means of wooden springs O O, having a block at each end, through which the screws or bolts pass for attaching to the frame and shoe, as shown. At a suitable point on the under side of the shoe is attached a bar, *h*, which passes through notches or mortises in the sides of the mill. This bar holds the shoe in its place when putting in or pulling out screens. It prevents breaking the springs. The screens P P and chess-board R are all placed in one sieve-frame within the shoe, and the chess-board, being in the middle of said frame, divides the blast and causes it to operate on all the screens alike. The shoe is vibrated by means of a rod, *k*, adjusted at any height desired on the arm *d*, and its other end attached to one end of a bent lever, *m*, pivoted on the outside of the frame. The other end of this lever is, by a rod or bar, *n*, connected with the shoe.

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

1. The combination of the lower screen, K, frame L, wheat-board M, and adjustable rod *f*, all constructed and arranged substantially as and for the purposes herein set forth.

2. The combination of the frame A with drum B and hopper C of the slotted lever G, adjusted as described, the shoe N, screens P P, chess-board R, bar *h*, and blocks O O, all constructed, arranged, and operating substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of February, 1871.

HURLBERT H. SEELEY.

Witnesses:

JOHN C. TARSNEY,
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