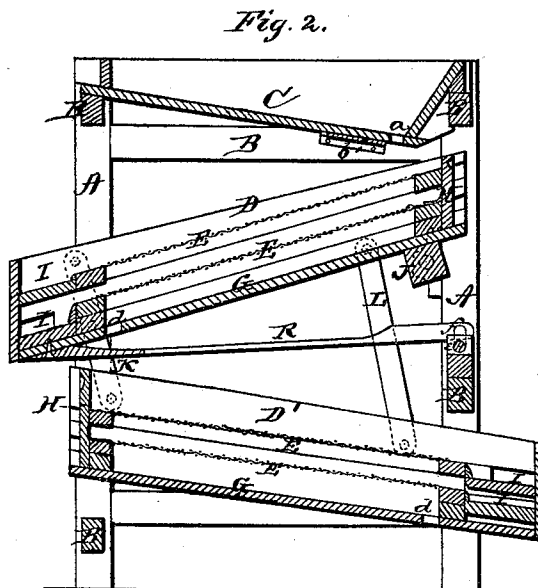
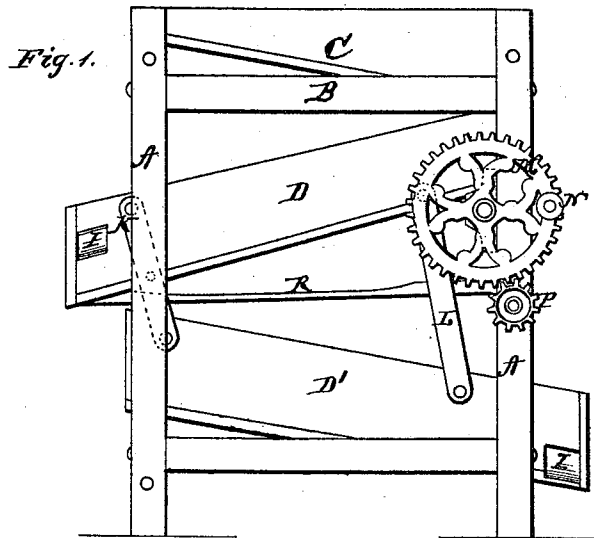


E. R. J. UEBERROTH.

Improvement in Grain-Separators.

No. 133,070.

Patented Nov. 12, 1872.



Witness:

Henry N. Miller
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Inventor.

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UNITED STATES PATENT OFFICE.

EDWIN R. J. UEBERROTH, OF DOYLESTOWN, PENNSYLVANIA.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. 133,070, dated November 12, 1872.

To all whom it may concern:

Be it known that I, EDWIN R. J. UEBERROTH, of Doylestown, in the county of Bucks and in the State of Pennsylvania, have invented certain new and useful Improvements in Grain-Separator; 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 grain-separator, 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 vertical section of my machine.

The frame-work of my grain-separator consists simply of four upright posts or standards, A A, suitably braced and connected by bars B B. C represents the hopper attached between the upper ends of the posts A A, and occupying the entire space between the same, thereby increasing the capacity of the same. In the bottom of the hopper are a number of openings, *a*, arranged on a straight line, and under the hopper is a slide, *b*, to close said openings or either wholly or partially open the same. D and D' represent two inclined shoes, each provided with two sieves, E E, and a bottom, G. At the upper end of each shoe is a vertically-sliding door, H, and each sieve has an inclined spout, I, at its lower end, the two spouts in each shoe inclining toward opposite sides. In the bottom G is an aperture, *d*, as shown. The upper shoe D rests, at or near its upper end, upon a square bar, J, jour-

naled at its ends in suitable boxes attached to the posts A A, while the lower end is pivoted between and to the upper ends of two bars, K K, which are pivoted on the inner sides of the posts A A, at the opposite end of the machine. Between and to the lower ends of the bars K K is pivoted the upper end of the lower shoe D', and the lower end of the same is suspended, by means of pivoted bars L L, from the upper end of the upper shoe D. Upon one of the journals of the square bar J is placed a cog-wheel, M, provided with a crank or handle, N, by means of which the bar J is revolved, giving a shaking motion to the upper shoe D. The cog-wheel M gears with a pinion, P, upon the outer end of a shaft, *e*, which is, at about the center of the frame, provided with a crank, *f*. From this crank a spring-bar, R, connects with the lower end of the upper shoe D, and by this means the said upper shoe obtains its reciprocating motion. The motion of the upper shoe contributes similar motion, but in opposite direction, to the lower shoe D' by means of the pivoted bars or levers K K.

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

The shoes D and D', connected together by the bars L and K, the bar K being pivoted to the frame near its center, one shoe being pivoted to its upper and the other to its lower end, and the two operated as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of October, 1872.

EDWIN R. J. UEBERROTH.

Witnesses:

A. V. SCHURZ,
THOMAS WEBSTER.