G. W. BAKER.

Grain-Separators.

No. 213,313 Patented Mar. 18, 1879.

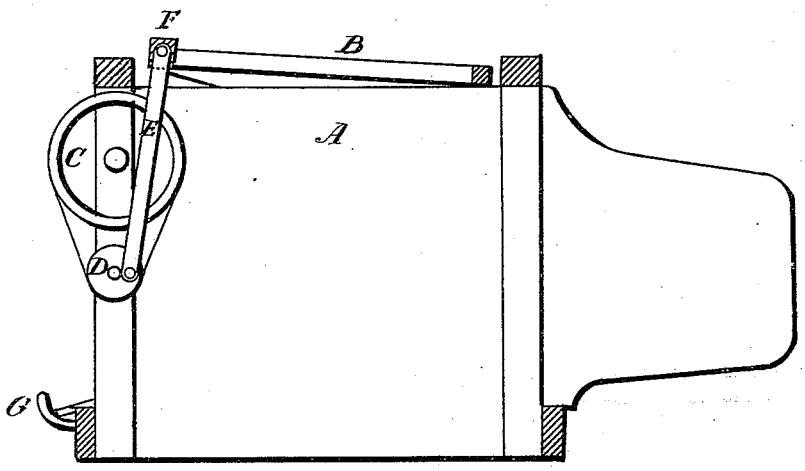

Fig. 1.

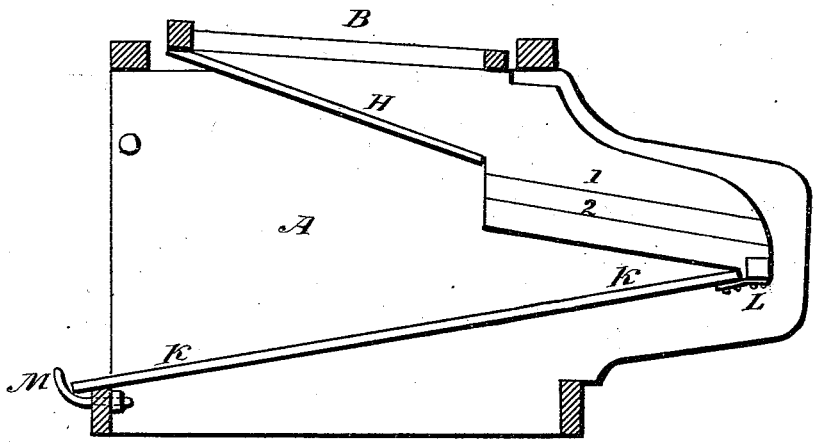

Fig. 2.

WITNESSES :

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UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF COCHRANTON, PENNSYLVANIA.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **213,313**, dated March 18, 1879; application filed August 6, 1878.

To all whom it may concern:

Be it known that I, GEORGE W. BAKER, of Cochranton, in the county of Crawford and State of Pennsylvania, have invented a new and Improved Device for Shaking the Hopper and Screens of a Fanning-Mill or Grain-Separator, which improvement is fully set forth in the following specification.

The object of my invention is to construct a device which will be cheap and simple, and which will shake the hopper and screens of a grain-separator in an effective manner.

In the accompanying drawings, Figure 1 is an outside view of a mill embodying my device. Fig. 2 is a sectional or inside view.

A, Fig. 1, represents the side of the separator; C, a driving-wheel, operated by a crank. (Not shown in the drawings.) D is a small pinion on the shaft of the fan. These wheels may either be cogged or run with a band; and on the small wheel D is a pin, which operates the pitman E, attached to the hopper, at F, by a pin.

B is a cleat on the top of the hopper, that rests on the side A of the mill. The body of the hopper drops down between the sides, as shown at H, Fig. 2.

H, Fig. 2, shows the inside of the side of the hopper.

1 2 are grooves, in which the smaller screens slide in the usual manner.

K K is a long screen, hung to the hopper by a hinge at L. M is a stop, which prevents the long screen K K from sliding down, and it also acts as a "bumper."

When the mill is in operation, at every revolution of the crank-pinion D the screen K K hits the stop M, which helps to shake the screen and hopper.

When the drive-wheel is turned, it operates the crank-pinion D, and by the pitman E lifts the hopper B. One end of the cleat resting on the side A gives the hopper a rocking motion, which imparts a sliding motion to the screens 1, 2, and K, thereby causing the grain to sift through the screens.

This construction is simple, cheap, and very effective.

What I claim as my invention is as follows, to wit:

The combination of the crank D, the pitman E, the hopper provided with projecting cleats B, resting on the sides of the mill, and the long screen K, pivotally connected to said hopper, for the purposes set forth.

GEORGE W. BAKER.

Witnesses:
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