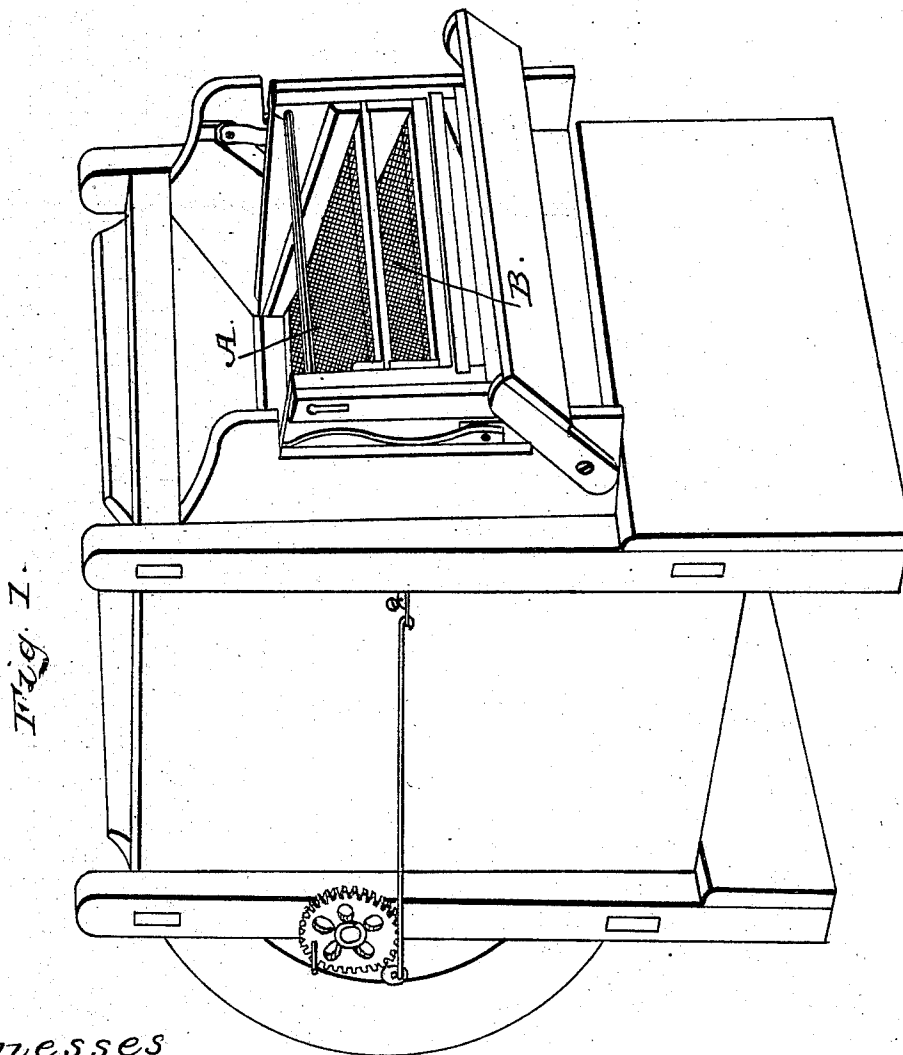


D. HATHAWAY.
Grain Winnower.

2 Sheets—Sheet 1.

No. 83,630.

Patented Nov. 3, 1868.



witnesses

Warren M. Hathaway

John H. Parr

Inventor.

Dexter Hathaway

D. HATHAWAY.

Grain Winnower.

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Fig. 3.

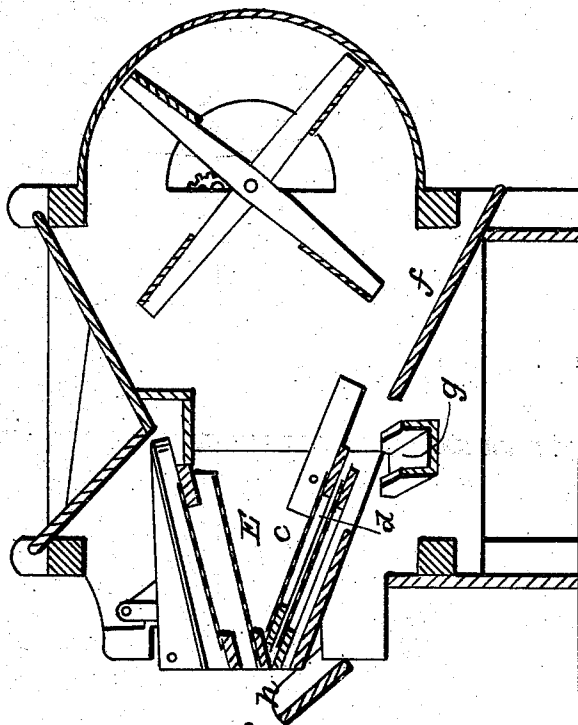
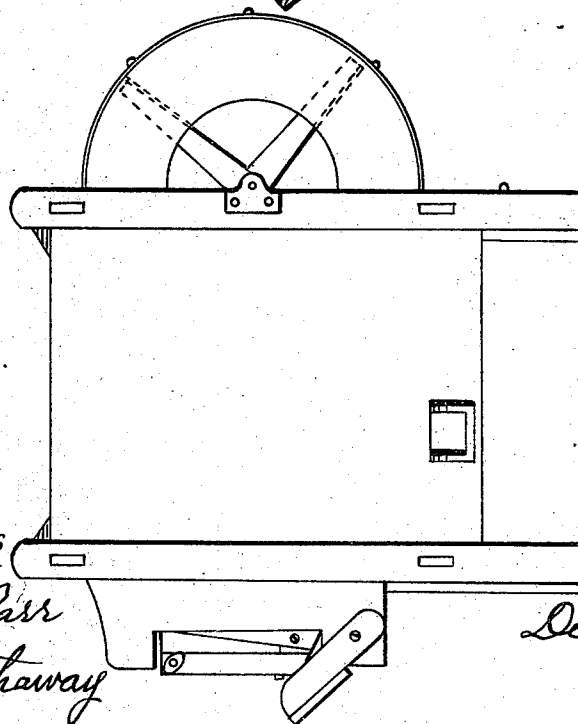


Fig. 2.



Witnesses

John W. Parr

W. M. Hathaway

Inventor

Dexter Hathaway

UNITED STATES PATENT OFFICE.

DEXTER HATHAWAY, OF WYOMING, WISCONSIN.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **83,630**, dated November 3, 1898.

To all whom it may concern:

Be it known that I, DEXTER HATHAWAY, of Wyoming, in the county of Iowa and State of Wisconsin, have invented a new and useful Improvement in Grain-Separators; and I do hereby declare that the following is an exact description of the construction and operation of the same.

The nature of my invention consists in making the top sieve, A, in the gang of sieves B concave. I make two short screens, C and D. One, C, extends two-thirds the length of the shoe E on a longitudinal elevation from the inclined board F. The lower screen, D, extends from the back part of the shoe E down under the top screen, C. At the lower edge of shoe E and under the lower edge of the lower screen, D, I attach a spout, G, that extends through the side of the separator on a transverse line. At the back end of the separator I attach a movable tail-board, H, that tightens with a screw.

To enable others skilled in the art to make and use my improvement, I will describe its construction and operation.

I construct my separator in form as set forth in the drawing.

The top sieve, A, in the gang of sieves B being concave, the oats and straw pass down to the center of the sieve quicker than they would on a straight sieve. The wheat that passes through the top sieves B falls on the top screen, C, and passes down the inclined board F to the front of the separator. As the wheat falls from the upper sieves B the wind blows the fine wheat and oats back on the lower screen, D, and they pass out by the spout G through the side of the separator.

The movable tail-board H is used to divide the grain that runs over the sieves B from the chaff.

I claim—

1. The two short screens C and D, as described.
2. Attaching the spout G to the lower edge of the shoe, as specified.
3. The movable tail-board H, as shown and described.

DEXTER HATHAWAY.

Witnesses:

R. A. BRUCE,
W. J. ALLEN.