C. B. SLATER.

GRAIN-CLEANER.

No. 192,295. Patented June 19, 1877.

Fig 1.

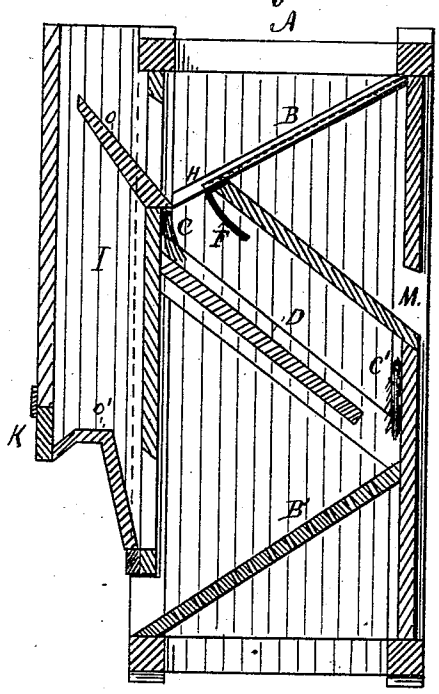
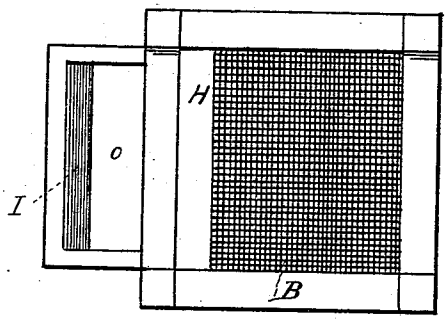


Fig 2.



WITNESSES:

B. C. Pole

C. F. Smith & Co

INVENTOR.

Charles B. Slater

by C. S. Whitman ATTORNEY.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES B. SLATER, OF BLANCHESTER, OHIO.

IMPROVEMENT IN GRAIN-CLEANERS.

Specification forming part of Letters Patent No. **192,295**, dated June 19, 1877; application filed May 7, 1877.

To all whom it may concern:

Be it known that I, CHARLES B. SLATER, of Blanchester, county of Clinton, and State of Ohio, have invented an Improvement in Grain-Cleaning Machinery, of which the following is a specification:

The following description, taken in connection with the accompanying plate of drawings, hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new and are desired to be secured by Letters Patent of the United States.

My invention relates to apparatus made use of for cleaning grain; and the nature thereof consists in certain improvements in the same, hereinafter described.

In the accompanying plate of drawings, in which corresponding parts are designated by the same letters, Figure 1 is a vertical section, and Fig. 2 is a view of the top of the apparatus.

The grain enters at the opening A, and is distributed over the entire extent of the riddle or screen B, which has a sufficient inclination to allow the grain to pass over it. D is an inclined diaphragm of sand or emery stone. The grain, passing off the riddle B, impinges upon the brush C, and then falls perpendicularly upon the said sand or emery stone, from whence it passes downward, and, after impinging upon the brush C′, falls upon the second riddle, B′. Such a number of screens and inclined stones may be used as is deemed desirable. F designates a curtain, so arranged as to cause the grain passing through the elongated opening H at the lower edge of the screen to fall perpendicularly upon the stone diaphragm. I represents a draft-tube, connected with a suction-fan of ordinary construction, and provided with the inclined chutes *o o′*. The draft of air in the tube causes the air admitted through the openings M to pass through the riddles, and to the said tube. The small particles carried by the draft fall through the dip-valve K.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The apparatus for cleaning grain, consisting of the screens or riddles, inclined diaphragms of sand or emery stone, the brushes, the curtain, and the draft-tube, all combined together as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of December, 1875.

CHARLES B. SLATER.

Witnesses:

ANDREW CAMPBELL,

A. CROSSAN.