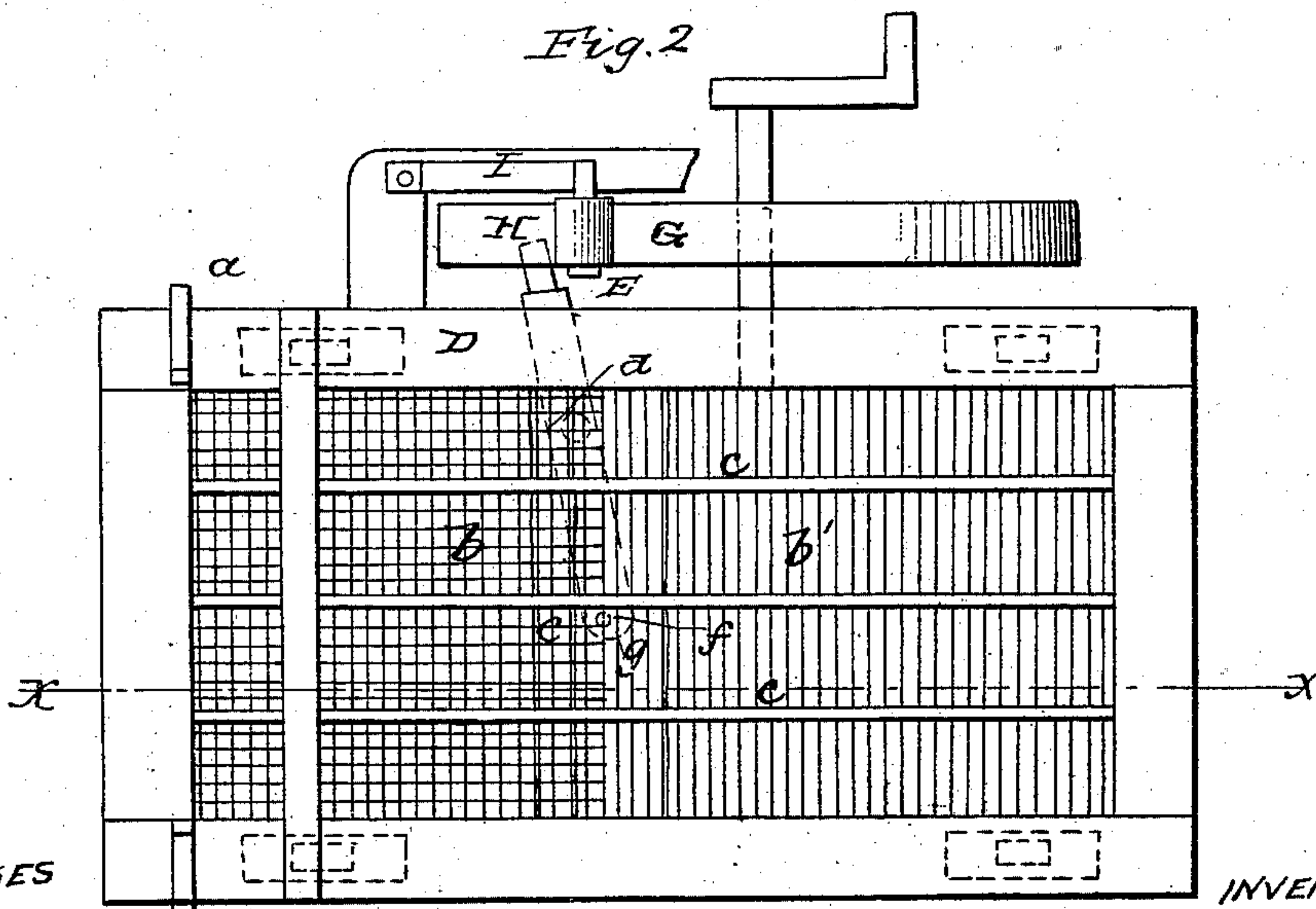
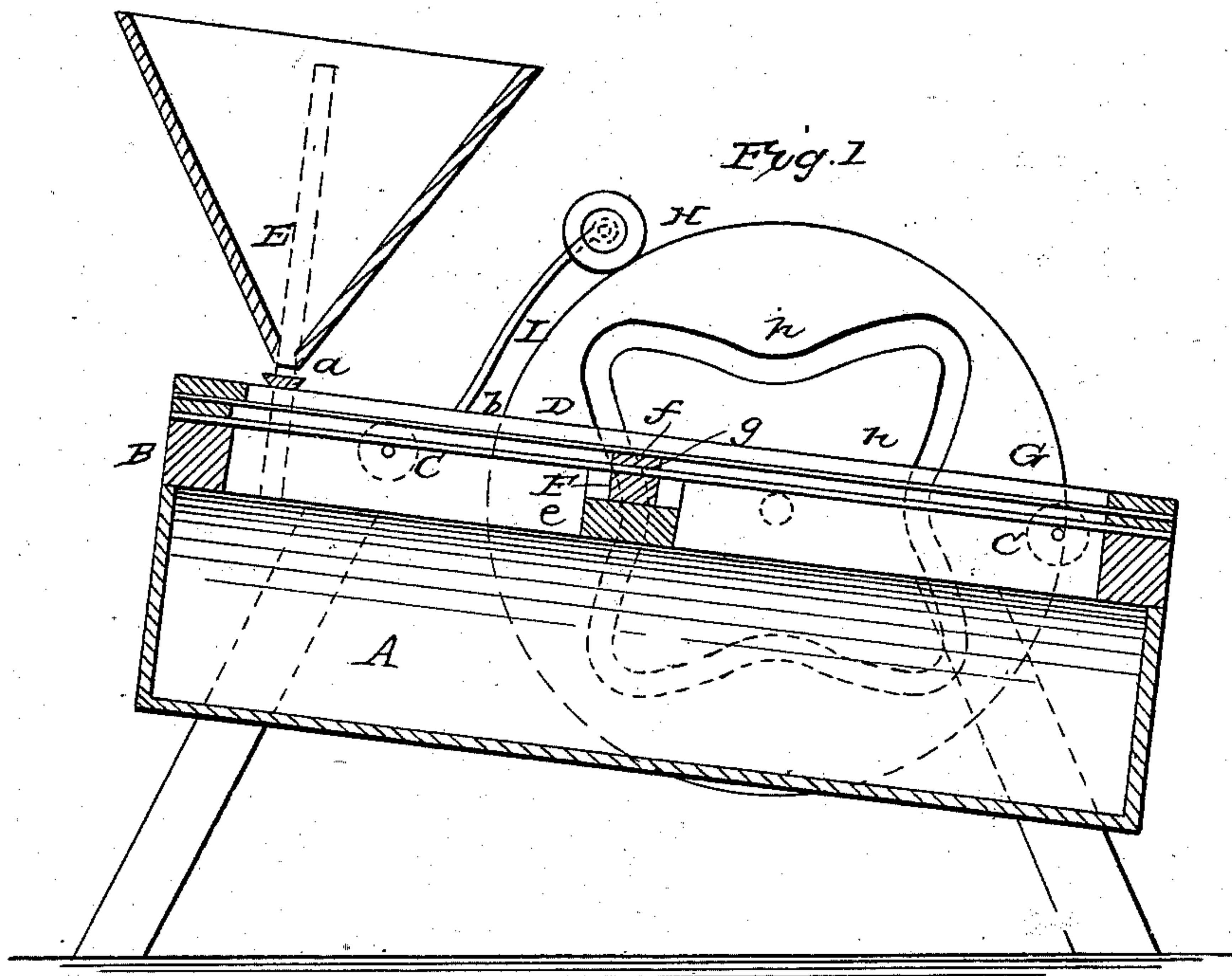


C. F. BAYLOR.
Grain Cleaner.

No. 56,880.

Patented Aug. 7, 1866.



WITNESSES

J. W. B. Foxmyton
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INVENTOR

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UNITED STATES PATENT OFFICE.

C. F. BAYLOR, OF CLINTON, NEW JERSEY.

IMPROVEMENT IN GRAIN-CLEANERS.

Specification forming part of Letters Patent No. 56,880, dated August 7, 1866.

To all whom it may concern:

Be it known that I, C. F. BAYLOR, of Clinton, in the county of Hunterdon and State of New Jersey, have invented a new and Improved Grain-Cleaner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention taken in the line *x x*, Fig. 2; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved device for cleaning grain; and it consists in the employment or use of a reciprocating screen operated in a novel way, as hereinafter fully shown and described, whereby cockle and shrunken grain are separated from the sound grain in a thorough manner.

A represents an inclined box, which is supported in proper position by a suitable frame-work, B. In the upper surface of the frame-work B there are placed four rollers, C, two at each side, on which a rectangular screen-frame, D, rests, the under side of the latter being provided with recesses to receive the roller C, the recesses being sufficiently long to admit of a necessary play of the screen, as shown by the dotted lines in Fig. 2.

On the elevated end of the frame-work B there is secured, by uprights *a a*, a hopper, E, of V form in its transverse section, as shown clearly in Fig. 1.

The screen-frame D has two different screens, *b b'*, fitted in it, the upper screen, *b*, having a square mesh, and the lower one, *b'*, having an oblong mesh, as shown clearly in Fig. 2. Bars or strips *c* are fitted in the frame D, so as to extend over the entire length of both screens.

F represents a lever, the fulcrum-pin *d* of which passes into a cross-piece, *e*, on the frame-work. The inner end of this lever is provided with an upright pin, *f*, which passes into a cross-piece, *g*, on the bottom of the screen-frame D, the outer end of said lever being fitted in a curved groove, *h*, in the inner side of a wheel, G, at one side of the frame-work B. The form or shape of the groove *h* is shown clearly in Fig. 1.

On the periphery of the wheel G a roller, H, is made to bear by means of a spring, I, the axis of the roller being attached to the spring.

The operation is as follows: By rotating the cam-wheel G a reciprocating motion is given the screen-frame D, four vibrations being given the screen-frame during one revolution of the cam-wheel. All unnecessary play of the cam-wheel and rattling and wear and tear of the lever in the groove *h* of the cam-wheel is obviated by the pressure-roller H, which causes the cam-wheel to run or work steadily.

The sound wheat is discharged from the lower end of the screen, while the cockle and shrunken grain pass through the screens into box A.

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

The arrangement of the wheel H, with its groove *h*, lever F, screen-frame D, with its screens *b b'*, as described, pressure-roller H, and rollers C C, constructed and operating in the manner and for the purpose herein specified.

The above specification of my invention signed by me this 23d day of October, 1865.

DR. C. F. BAYLOR.

Witnesses:

WM. DEAN OVERELL,
M. M. LIVINGSTON.