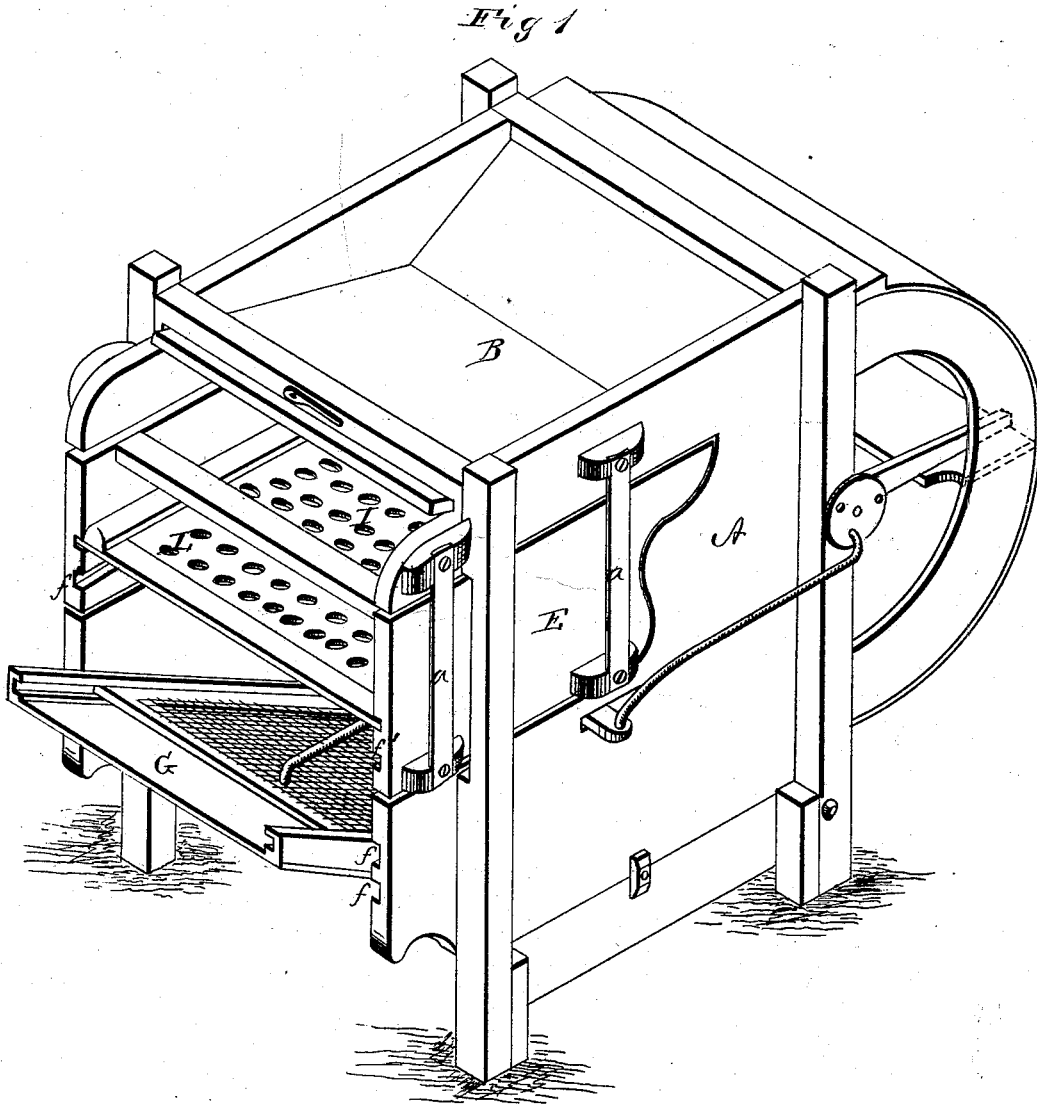


H. H. SEELEY.
Grain-Separator.

No. 165,373.

Patented July 6, 1875.



WITNESSES
Francis L. Curand
C. R. Ewert,

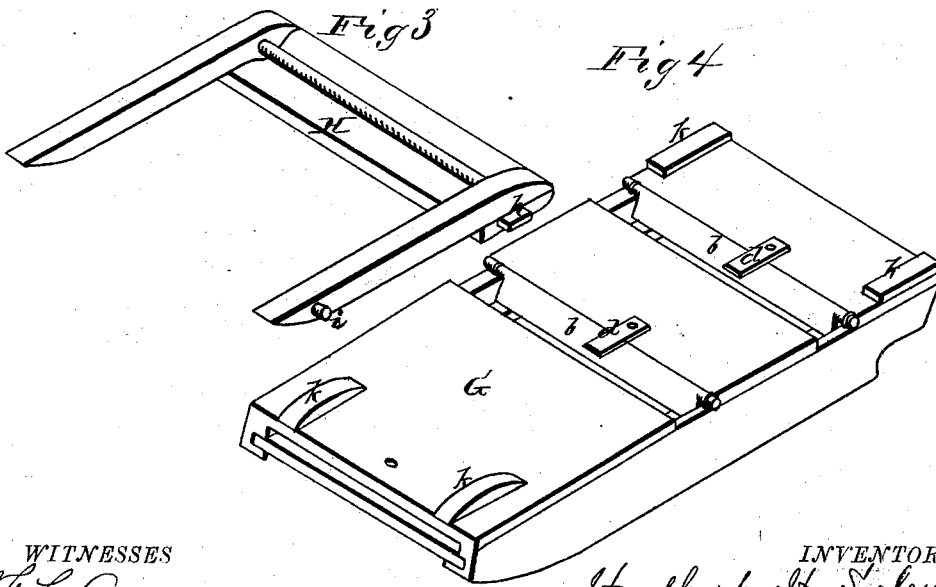
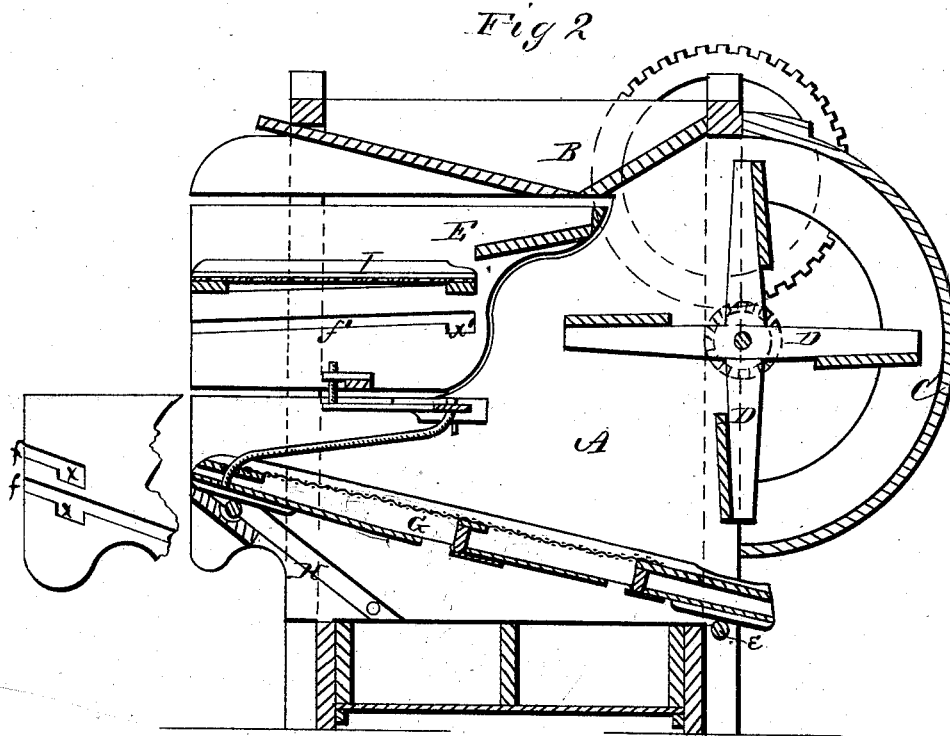
By

INVENTOR
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WITNESSES
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UNITED STATES PATENT OFFICE

HURLBERT H. SEELEY, OF FENWICK, MICHIGAN, ASSIGNOR OF ONE-HALF HIS RIGHT TO ALEXANDER FURGUSON.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **165,373**, dated July 6, 1875; application filed March 25, 1875.

To all whom it may concern:

Be it known that I, HURLBERT H. SEELEY, of Fenwick, in the county of Montcalm, and in the State of Michigan, have invented certain new and useful Improvements in Fanning-Mills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

My invention relates to fanning-mills or separators for separating grain; and the nature of my invention consists, particularly, in the construction of the lower shoe with the devices for supporting the same, and in the method of fastening the screens or sieves in the upper shoe, all as 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 drawings, in which—

Figure 1 is a perspective view of a fanning-mill embodying my invention. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a perspective view of the adjustable frame for raising and lowering the lower shoe. Fig. 4 is a bottom perspective view of the lower shoe.

A represents the frame of a fanning-mill. B is the hopper; C, the fan-case, with interior revolving fan D. E is the upper shoe, suspended by straps *a a*, and operated by suitable means from the shaft of the fan D. G is the lower shoe, also operated from the fan-shaft. In the lower shoe G are trap-doors *b b*, hung upon suitable pivots, and held either open or closed by means of springs *d d*. By opening the trap-doors *b b*, as shown in Fig. 2, apertures

are made in the bottom of the shoe, so as to make three grades of grain. The lower end of the shoe G runs on a rod, *e*, in the frame, and the upper end rests on an adjustable and removable frame, H, which is on each side provided with a pin, *i*, at the lower end, and a tenon, *h*, at the upper end, said pins and tenons running in grooves *f* in the sides of the mill. The tenons *h* may be inserted in different grooves, so as to elevate or depress the upper end of the frame, thereby raising or lowering the lower shoe, the frame being held by pressing the tenons *h* into notches *x*, made in the various grooves *f*. On the under side of the shoe G are leather or other pieces, *k k*, to rest on the rod *e*, and on the frame H, to take the wear off the shoe. The sieves I in the upper shoe E are also provided with side tenons to slide in grooves *f'*, and the tenons at the upper ends drop in notches *x'*, and thus fastening the sieves in place.

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

1. The adjustable and removable frame H, provided with pins *i* and tenons *h*, in combination with the sides of the frame A, having grooves *f*, with notches *x*, and the lower screen G and rod E, all substantially as and for the purposes herein set forth.

2. The lower shoe G, provided with the trap-doors *b b* and springs *d d*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 13th day of February, 1875.

HURLBERT H. SEELEY.

Witnesses:

J. S. MANNING,
N. J. BROWN.