

No. 648,588.

Patented May 1, 1900.

J. H. JENSEN.
THRESHER SCREEN.

(Application filed Jan. 17, 1900.)

(No Model.)

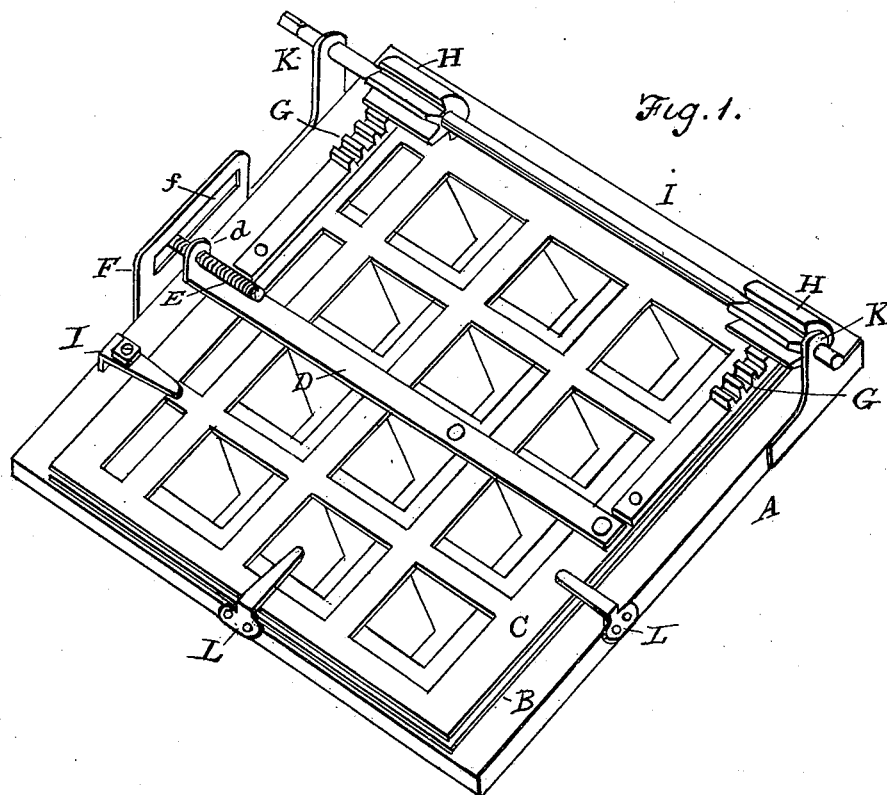


Fig. 1.

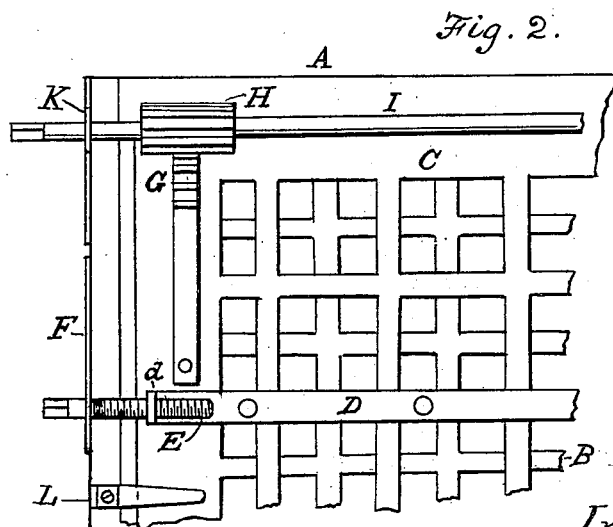


Fig. 2.

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UNITED STATES PATENT OFFICE.

JENS H. JENSEN, OF MINDEN, NEBRASKA.

THRESHER-SCREEN.

SPECIFICATION forming part of Letters Patent No. 648,588, dated May 1, 1900.

Application filed January 17, 1900. Serial No. 1,804. (No model.)

To all whom it may concern:

Be it known that I, JENS H. JENSEN, a citizen of the United States, residing at Minden, in the county of Kearney and State of Nebraska, have invented certain new and useful Improvements in Thresher-Sieves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to thresher-sieves made of two screens, one adjustable on the other, in order to increase or diminish the size of holes through which the grain is to pass.

The special objects of my invention are to enable the holes in the sieve to be graduated to suit the grain to be cleaned without removing it from the thresher; also, to increase or decrease the number of holes, as may be desired, so as to separate different kinds and sizes of grain with equal thoroughness. In order to accomplish my objects, the upper screen is made adjustable both longitudinally and laterally.

Figure 1 of the drawings is a perspective view of my sieve, the upper screen having been adjusted in the two directions at right angles to each other, so as to give the maximum size to the holes; and Fig. 2, a plan view showing an adjustment which gives a minimum size to the holes.

In the drawings, A represents the frame of the sieve, to which is made fast the lower screen B, while C is the upper screen, which is made adjustable on screen B in two directions at right angles to each other. The holes or apertures in the two screens are preferably made square or rectangular and to correspond. To the upper screen C, I rivet the flat bar D, which is provided with the threaded lug *d*, which is at right angles thereto and forming a part thereof. In this nut works the screw E, which is swiveled in the slot *f*

of the vertical plate F, secured to the edge of frame A. By applying a suitable wrench to the squared head of this screw the top screen C may be adjusted in one direction. At right angles to the bar D are made fast the two racks G G, in which work the elongated pinions H H on the ends of a rotary hand crank-shaft I. By rotating this shaft the screen C may be adjusted in a direction at right angles to the direction of the screw E, which is thus moved along in the slot *f* of the plate F.

K K are the bearings of shaft I, and L the guides under which the screen C moves. Through one or more of these guides may pass a screw to operate in connection with the nut, so that the two screens may be clamped together at any adjustment.

What I claim as new is—

1. A thresher-sieve consisting of the frame A, the fixed lower screen B, the movable upper screen C, the bar D having the threaded lug *d*, the fixed plate F secured to frame A and having horizontal slot *f*, the screw E swiveled adjustably in said slot and working in said lug, the racks G secured to the screen C and the crank-shaft I rotating and sliding in bearings on said frame, the said shaft being provided with the pinions H H as and for the purpose set forth.

2. In thresher-sieves, the frame A having vertical, horizontally-slotted plate F secured thereto, the screen B made fast thereto, the movable screen C, the bar D secured to screen C and having threaded lug *d* at one end, and the adjusting-screw E engaging said lug and the slot in plate F in combination with means substantially as described for adjusting screen C at right angles to bar D in the manner set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JENS H. JENSEN.

Witnesses:

THOMAS JENSEN,
VAL JENSEN.