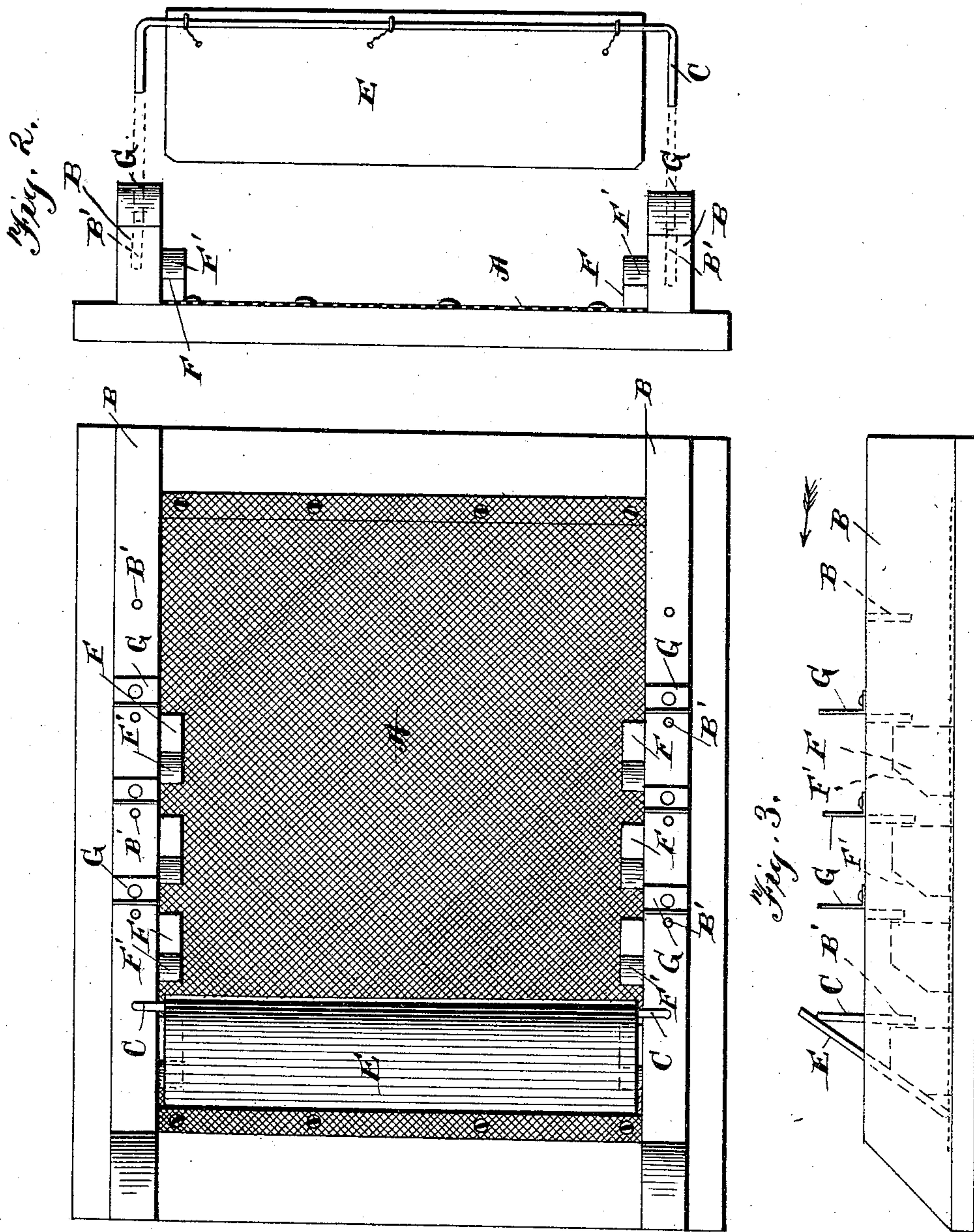


(No Model.)

C. HINTZ.  
FANNING MILL SIEVE.

No. 575,716.

Patented Jan. 26, 1897.



Witnesses:

*Geo. E. Buck,*  
*J. H. Jochem Jr.*

*Fig. 1.*

Inventor:  
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by *Collamer & Co.,*  
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# UNITED STATES PATENT OFFICE.

CHARLES HINTZ, OF MACOMB, MICHIGAN.

## FANNING-MILL SIEVE.

SPECIFICATION forming part of Letters Patent No. 575,716, dated January 26, 1897.

Application filed June 7, 1895. Serial No. 536,899. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES HINTZ, residing at Macomb, in the county of Macomb and State of Michigan, have invented certain new and useful Improvements in a Fanning-Mill Sieve; 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.

My invention relates to threshing-machines, and more especially to that class known as "grain-separators;" and it has for its object the improvement of the construction of the attachments of a screen over which the grain flows to be separated from dust and other foul substances.

To this end the invention consists in the devices hereinafter more fully described and claimed, and as illustrated in the accompanying drawings, wherein—

Figure 1 is a plan view of an ordinary fanning-mill sieve; Fig. 2, an end view of the same, showing slightly separated therefrom a single flap and its supporting-bar; and Fig. 3 is a side elevation of the sieve, showing in dotted lines the various features of construction.

Referring to the drawings, the letter A designates the sieve, having sides B, which are provided in their upper faces with a series of holes B', the object of which will be hereinafter more fully stated. Secured to the inner faces of the sides B and just above the screen is a series of projections F. These projections are preferably of wood and of rectangular shape, standing on edge and having one of their upper corners beveled, so as to produce an inclined face F' for the purpose of supporting the rubber or canvas flaps E, as will be described. Removably secured to the upper face of the sides B and just above the holes B' are angle-irons G, which also serve to support the flaps E and to prevent the grain or seed jumping over or dodging the flaps. These additional supports are arranged alternately with the inclined-faced supports F and are just below the supporting-bar C of each flap. This supporting-bar is of substantially U shape and may be made of any desired material. It is secured to the flap E near or along

one side by wire or any other suitable means which will allow them to operate independently of each other.

Having thus described the construction of my improved sieve, the operation is as follows: The downturned ends of the U-shaped bars C are inserted in the holes B' in the sides B, and are of such a length that the flaps normally stand in an inclined position, so that when their ends are resting on the inclined faces F' of the projections F their front edges will rest upon the screen or may be supported at any distance above the same by lengthening or shortening the flaps. If necessary, when the supports G are used, the flaps can be made wider. The seed in being cleaned by the usual shaking motion will glide down the upper side of the sieve A until it reaches the flaps E, which have a tendency to hold in check the flow of the grain, and while in this position, with the ordinary blast from the mill, the dust and foul substances are rapidly cleaned from the seed as it passes above the sieve. Thus each one of the several flaps E, as suspended above the sieve, operates as an equalizer in the flow of the grain while the same is being cleaned. The supports G serve in a like manner as the supports F, keeping the grain to be cleaned within the desired bounds and preventing it from jumping over or dodging the flaps F.

I claim—

1. The combination of the sieve, the support or bar C having its bearings in the sides of the frame of said sieve, projections F on the inner sides of the side bars of the sieve, and projections G on the tops of said side bars, substantially as set forth.

2. The combination of the sieve, projections secured to the inner sides of the side bars and having inclined faces, supports having bearings in the upper faces of the frame, and flaps secured thereto, said flaps normally standing in an inclined position and resting against the inclined faces of the projections, substantially as and for the purpose set forth.

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

CHARLES HINTZ.

Witnesses:

GEORGIA A. SHAW,  
CORNELIUS VIRGIL.