

W. D. JONES.
Corn Husker.

No. 90,175.

Patented May 18, 1869.

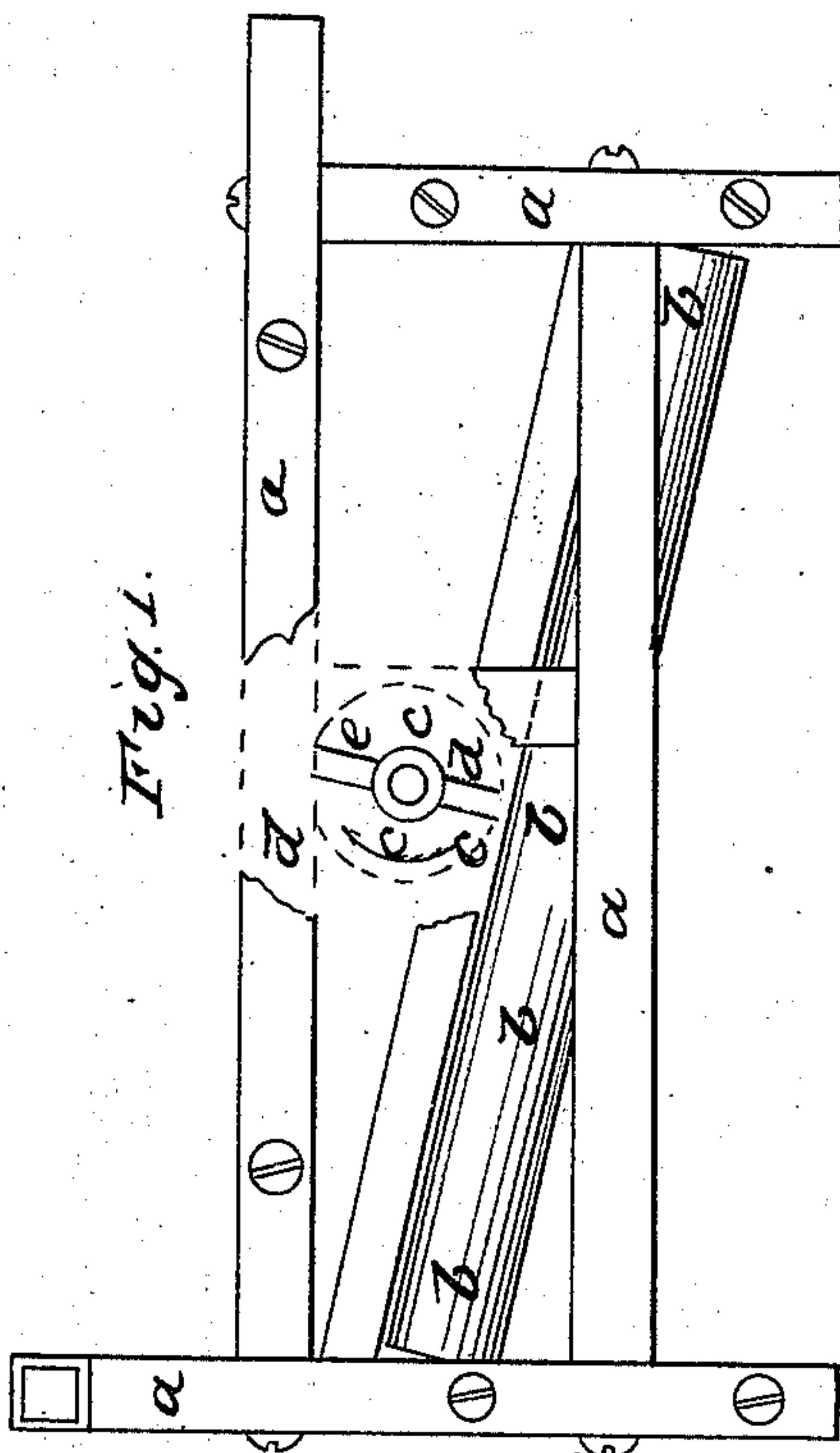


Fig. 1.

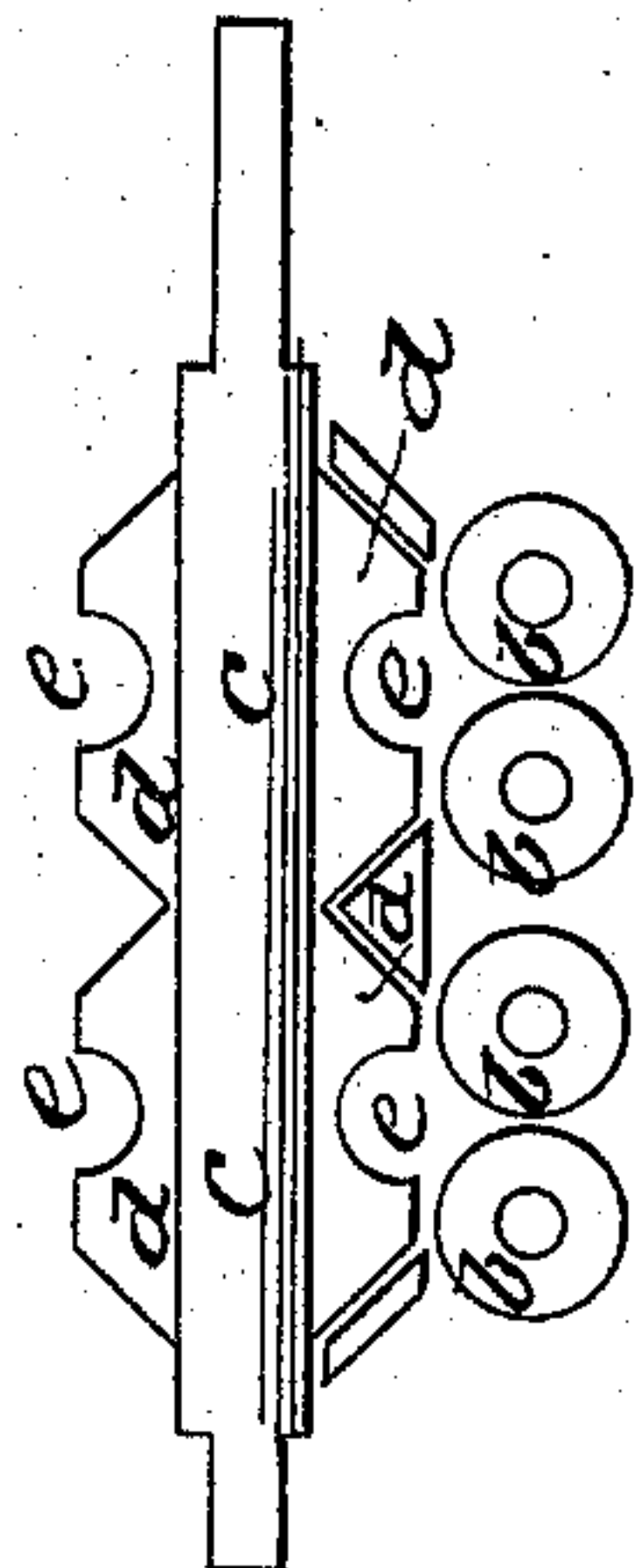


Fig. 2.

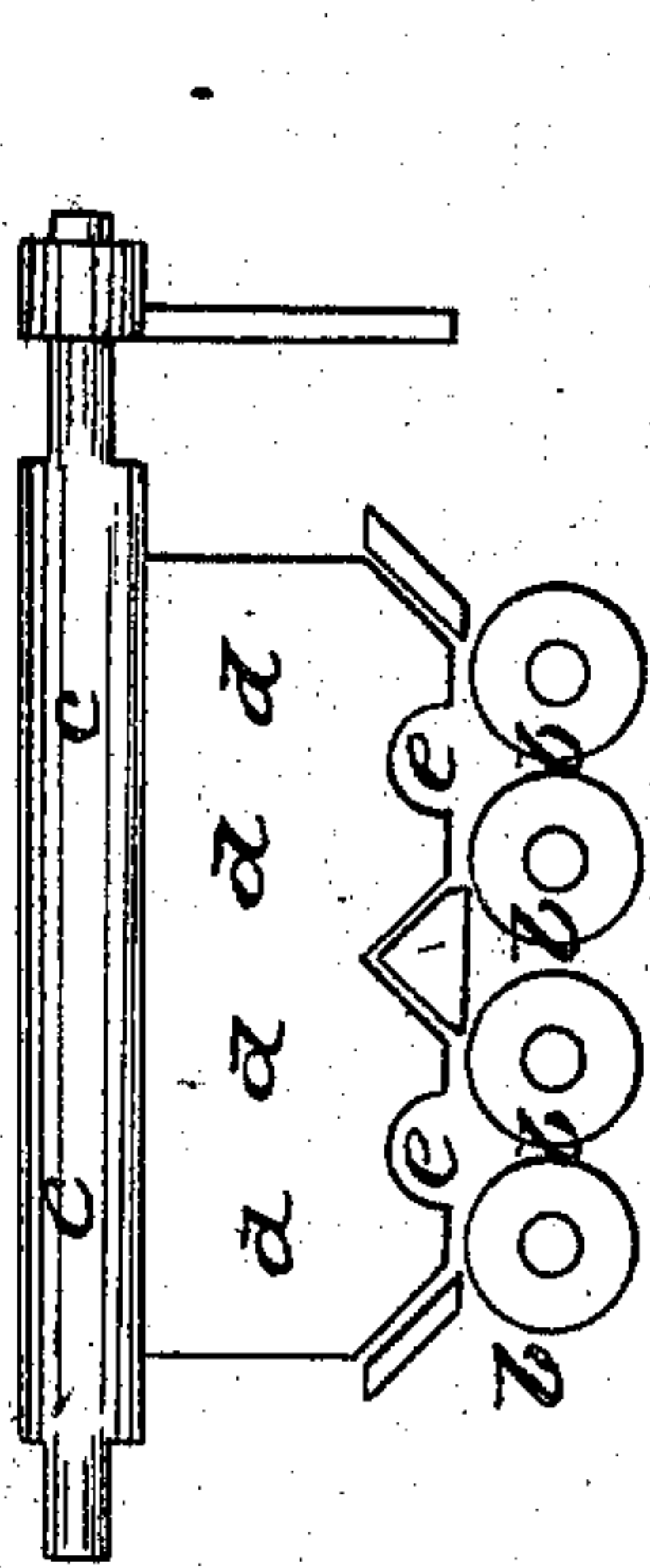


Fig. 3.

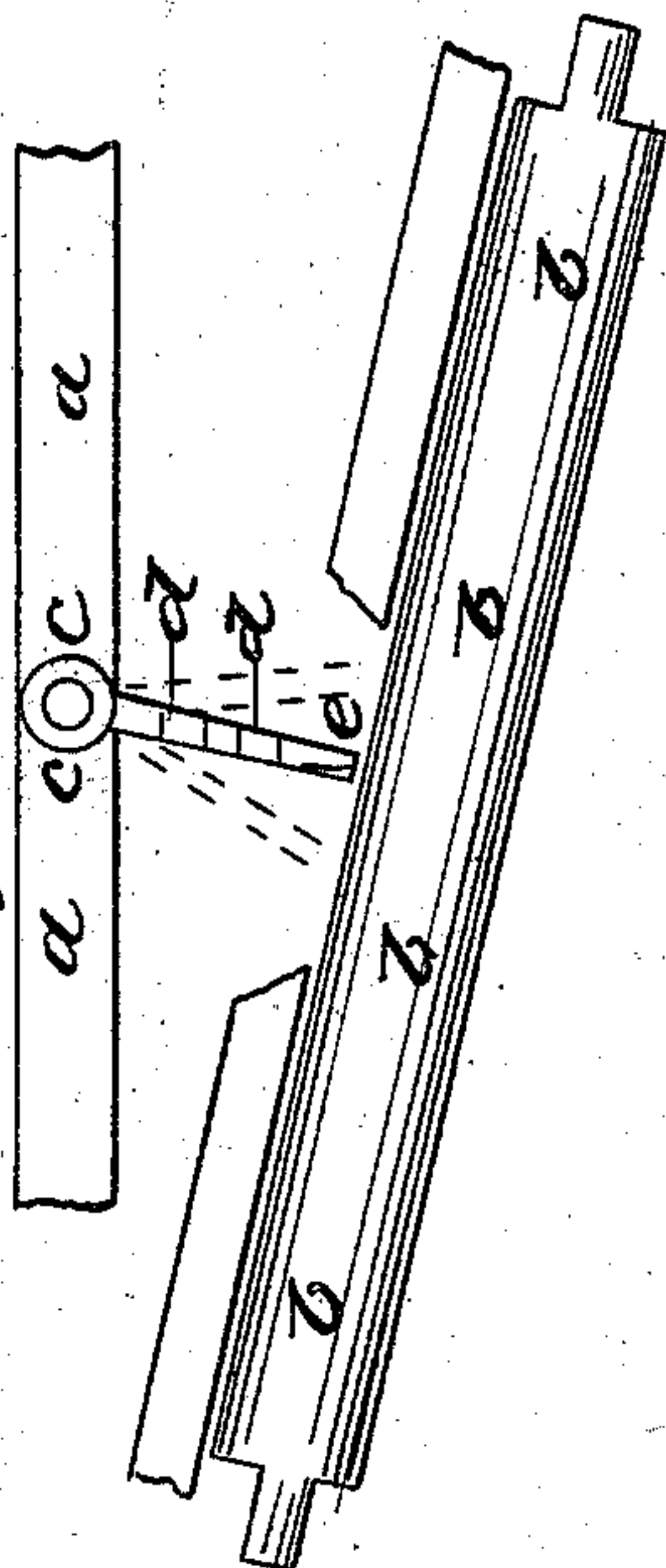


Fig. 4.

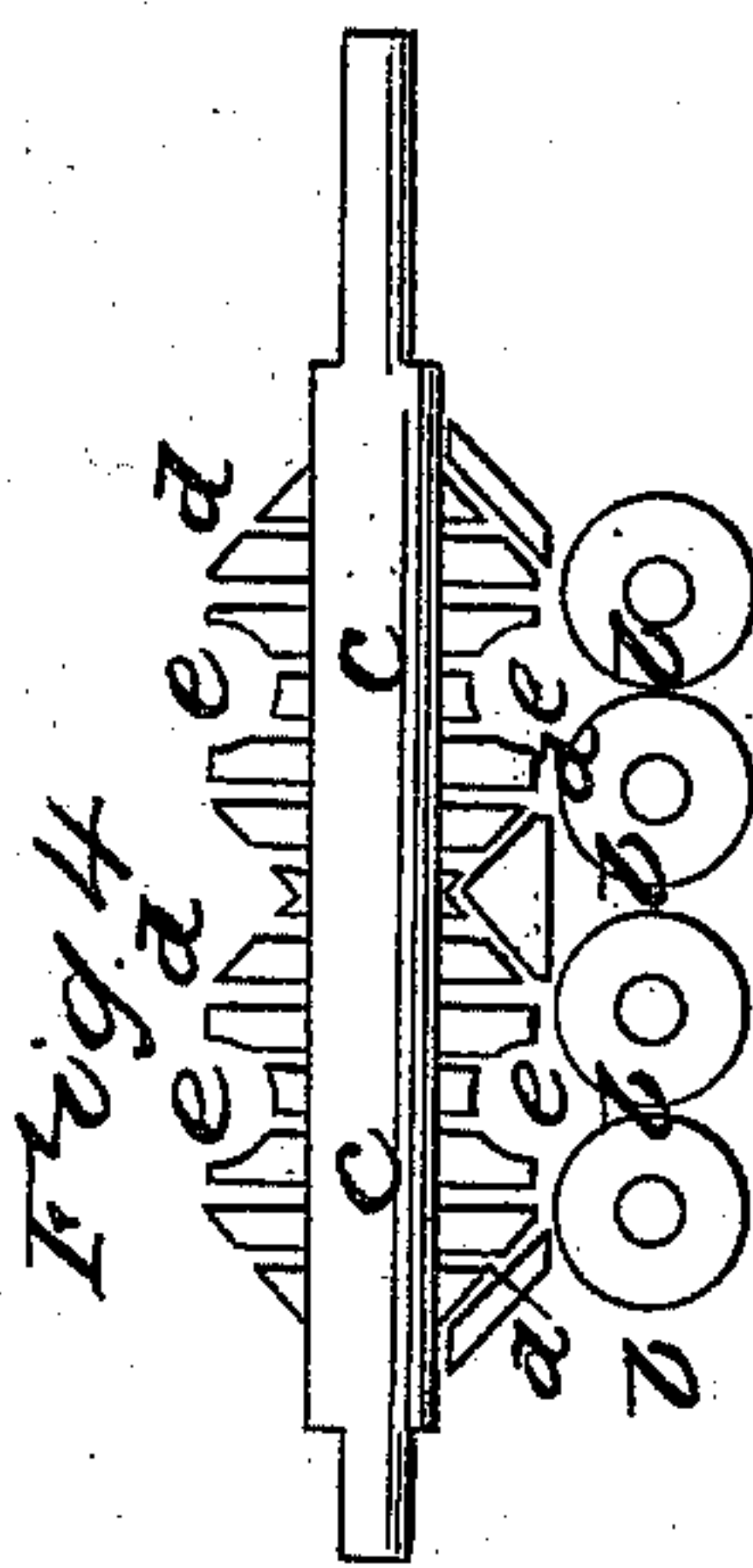


Fig. 5.

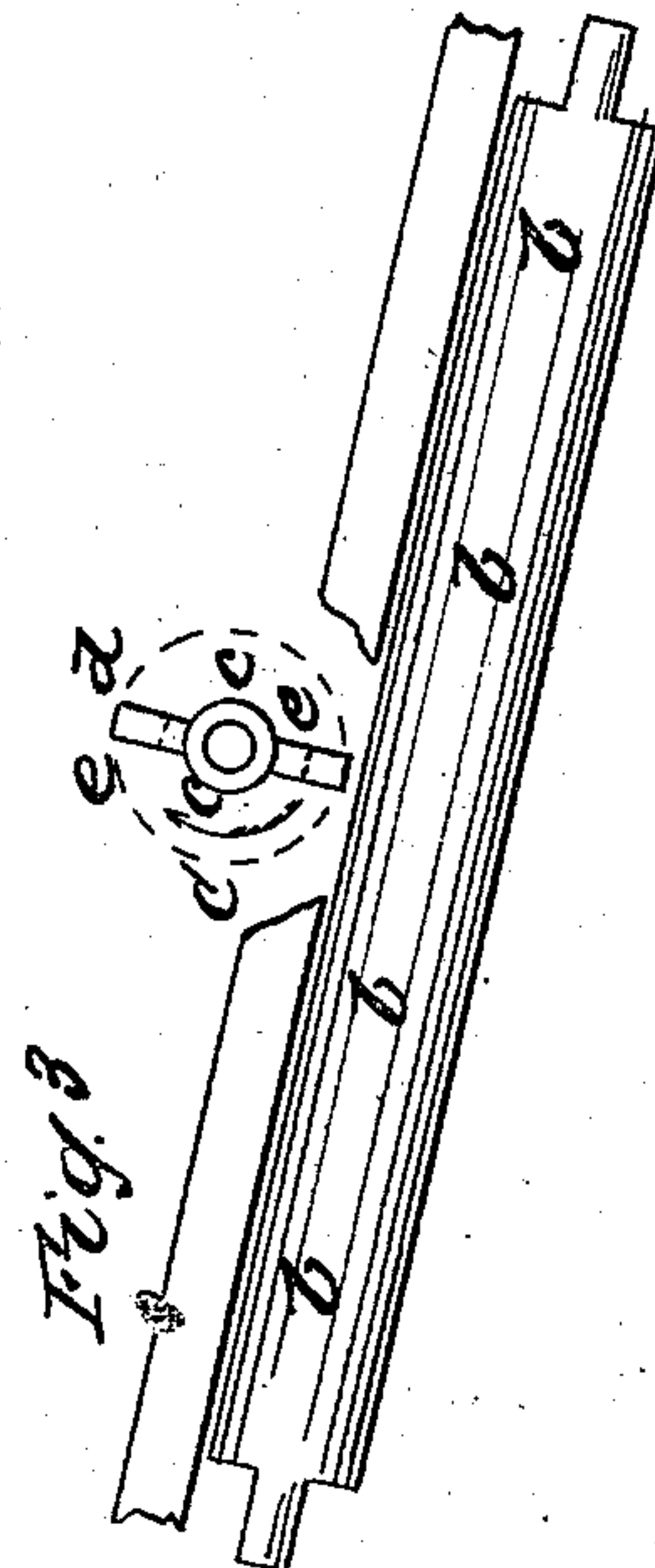


Fig. 6.

Witnesses
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W. DAVIDSON JONES, OF HAGAMAN'S MILLS, NEW YORK.

Letters Patent No. 90,175, dated May 18, 1869.

IMPROVEMENT IN CORN-HUSKER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, W. DAVIDSON JONES, of Hagaman's Mills, in the county of Montgomery, and State of New York, have invented a new and useful Improvement in Corn-Huskers; and I 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, in which—

Figure 1 is a side view, showing its position in relation to the stripping-rollers, with a portion of the wooden frame removed.

Figure 2 is a transverse section of fig. 1.

Figure 3 is a side view of drawings, for reference, showing an analogous device, accomplishing like results.

Figure 4 is a transverse section of fig. 3.

Figure 5 is a side view of a device, doing and accomplishing like results, which, in character of action, are all analogous one to the other.

Figure 6 is a transverse section of fig. 5.

The references to figs. 3, 4, 5, and 6, will more fully hereinafter appear.

Similar letters and figures indicate corresponding parts in each figure.

The nature of my invention consists in the arrangement and construction of a separator, placed centrally and crosswise over the stripping-rollers, in such form, so as to separate out single ears of corn from the bulk as they fall on the stripping-rollers of a husker, one ear following the other, for the purpose of securing perfection and rapidity of work.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

a a a a is a section of the necessary wooden frame of a corn-husker.

b b b b represent the husking or stripping-rollers.

c c is a shaft, made of wrought or cast-iron, or other material, provided with suitable bearings and boxes.

d d d d is the separator, constructed of iron, wood, or other material, substantially as shown, having two or more beating-edges, or beaters attached to shaft *c c*.

e e e e are recesses cut in the beaters or edges of the separator, somewhat of the form of a half circle, directly over the lap or bite of each pair of stripping-rollers, said recesses *e e e e* being on a line of the circumference of the beaters, as described, when in motion.

Said beaters *d d d d*, with recesses *e e e e* therein, form this separator, which, when in motion, presents, on its circumference, an action similar to a grooved cylinder; the grooves to let the corn pass down the lap or gutter of the stripping-rollers.

The motion of this separator *d d d d* is up-hill, on the lower part against the corn, in the direction as indicated by the arrow.

The operation of my invention is substantially as follows:

Unhusked ears of corn, falling from the butting or feed-rollers, (which are not shown,) promiscuously and in bulk, upon the upper ends of the stripping-rollers *b b b b*, and in front of the separator *d d d d*, pass down the inclination of said stripping-rollers, some ears on the top of others, and when they come to the action of the separator *d d d d*, said separator having proper motion in the direction as indicated by the arrow, the edges of the beaters *d d d d* catch the ears riding on top, and whirl them or throw them over back, up the inclination of the stripping-rollers, and, at the same time, the recesses *e e e e*, in said separator, allow or permit the ears, passing down the lap or bite of the stripping-rollers, to pass down freely and without injury.

The results sought for and obtained in this invention are important and useful, that is, the singling out of the ears of corn, which must necessarily fall in bulk upon the upper ends of the stripping-rollers from the feeding-rollers, separating them, and allowing them to pass on down the lap or bite of the stripping-rollers, one after another, and securing to each and every ear, the action of the stripping-rollers, thereby insuring rapid and more perfect work, which otherwise could not be accomplished, for the reason some ears would ride down on top of others, and pass off unhusked, thereby rendering the machine, in a great measure, imperfect and unsatisfactory in its work.

I am aware that like results can be obtained, and like work be accomplished by a device, as shown in the drawings for reference, figs. 3 and 4, which device consists in the construction of a revolving separator, having, for its beaters, pins *d d d d*, inserted in shaft *c c*, and the recesses *e e e e*, formed by short pins over the lap or bite of each pair of stripping-rollers *b b b b*, and operating substantially in practice as has been heretofore more fully described.

I am also aware that similar results and like work can be accomplished by a device, as shown in the drawings for reference, figs. 5 and 6, which consists in the employing of a vibrating separator, *d d d d*, substantially as shown, provided with recesses *e e e e*, directly over the lap or bite of each pair of stripping-rollers, operating substantially for the purposes heretofore more fully described.

I do not confine myself to any given number or series of recesses *e e e e*, as they may be varied in proportion to the number of pairs of stripping-rollers used in a machine.

Each of these devices, shown by drawings, and heretofore referred to, is an invention which I verily believe to be new and original, in their application by myself, and not heretofore used.

I am also aware that a device for the same general purpose was patented by me on the 5th of January, 1869; but I am not aware that this invention, accom-

plishing results as accomplished by these devices, have heretofore been attained, excepting by myself.

Attention is called to the existing difference between the subject of this invention, as shown substantially in fig. 1 and fig. 2, and heretofore fully described in construction, and operation, and drawings for reference, figs. 3, 4, 5, and 6, and heretofore referred to, and Letters Patent, No. 85,593, (W. D. Jones,) each producing like results by dissimilar devices.

I disclaim a separator provided and constructed with circular flanges, substantially as shown and de-

scribed in Letters Patent granted to me, bearing date January 5, 1869.

What I claim as my invention, and desire to secure by Letters Patent, is—

The separator *d d d d*, made and constructed substantially as described and shown, having beating or tripping-edges, said beaters being provided with recesses *e e e e*, operating substantially as and for the purposes shown and set forth.

Witnesses: W. DAVIDSON JONES.

EDWARD COYLE,
M. A. FARRELL.