

A. WHITCOMB.

Corn Husker.

No. 89,533.

Patented April 27, 1869.

Fig. 1.

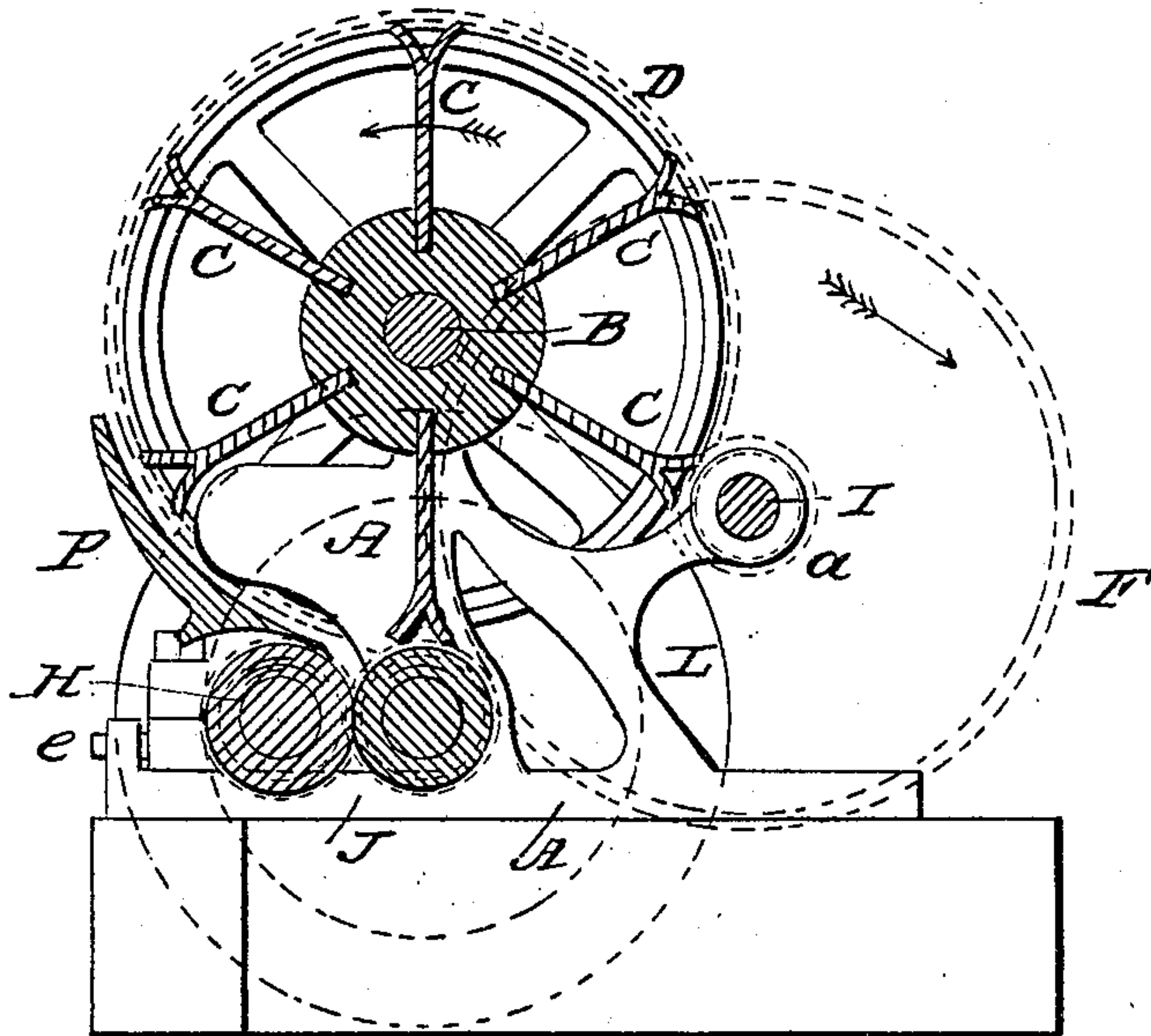
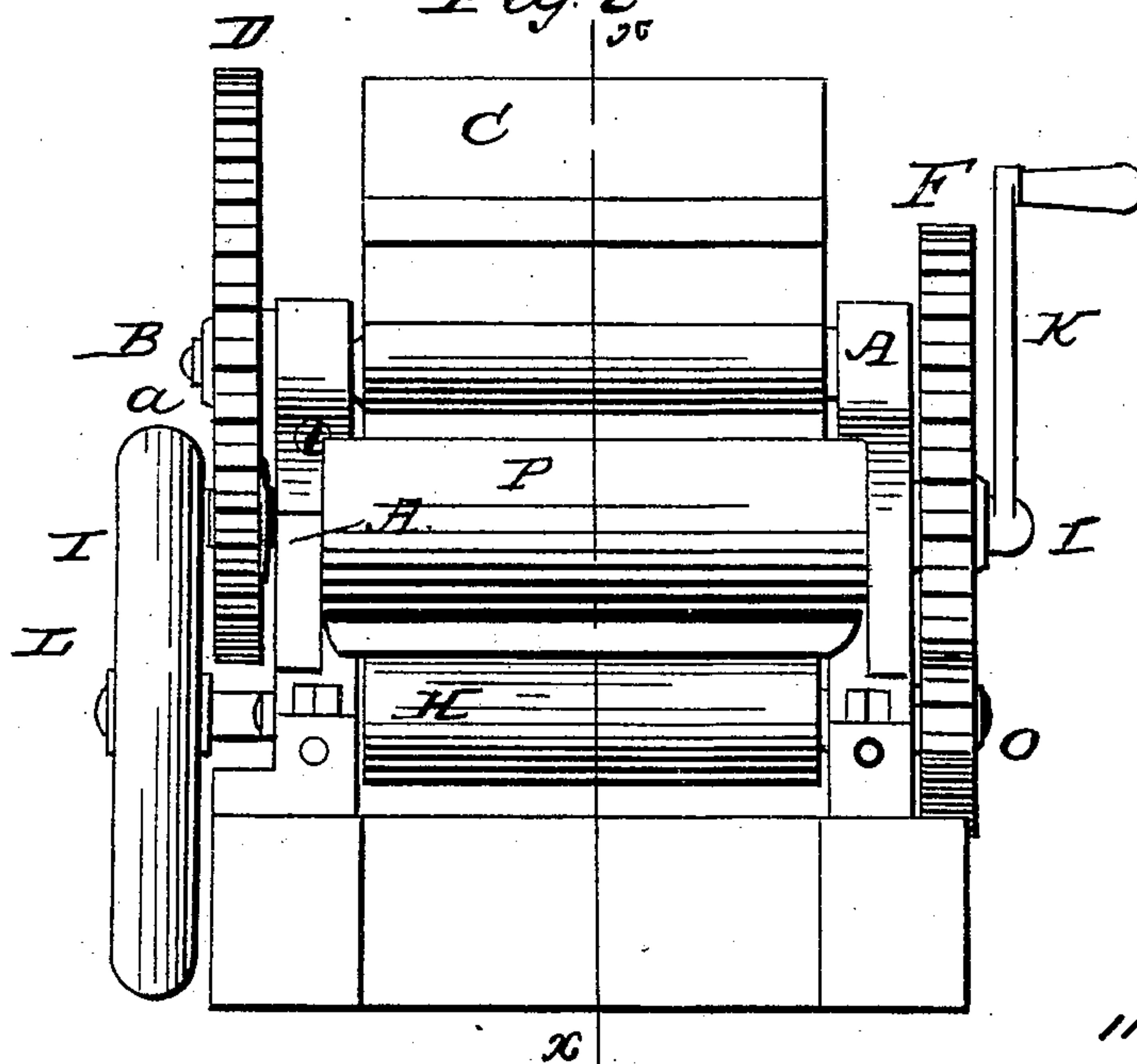


Fig. 2.



WITNESSES
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ALONZO WHITCOMB, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 89,533, dated April 27, 1869.

IMPROVEMENT IN CORN-HUSKERS.

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, ALONZO WHITCOMB, of Worcester, in the county of Worcester, and State of Massachusetts, have invented certain new and useful Improvements in Corn-Husking Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention relates to machines for husking corn; and

The invention consists in a novel construction and arrangement of the various parts of the machine, as hereinafter explained.

Figure 1 is a vertical section on the line *x-x* of fig. 2.

Figure 2 is a front elevation of the machine.

In constructing my machine, I construct a metal frame, A, of suitable form to constitute the bed and furnish bearings for the various shafts and rollers.

In the lower part of this frame, I mount two parallel rolls, covered with an elastic coating of rubber, similar to those used in clothes-wringers, with their surfaces more or less roughened, to insure their taking hold on the husks.

At one end these rolls are provided with pinions O, which gear into each other, whereby the rolls are caused to revolve in the directions indicated by the arrows marked thereon in fig. 1.

At one side of the frame A is mounted a driving-shaft, I, on which is a spur-wheel, F, which gears into the pinion O, on the adjoining roll J, and on this same shaft I is also secured a crank, K, for operating the machine.

On the opposite end of this shaft I is secured a pinion, *a*, which gears into a gear-wheel, D, mounted on a shaft, B, located transversely at the top of the frame A, this shaft B also having secured to it a set of radial wings, C, as shown more clearly in fig. 1, these wings being arranged so that their outer edges shall pass along just over the rolls H and J, as represented in fig. 1.

At the front side of the machine I secure a concave plate, P, as represented in the drawing, the lower edge of this plate P extending over and nearly covering the roll H, as shown in fig. 1, thus forming both a hopper for receiving the ear of corn, and also a guard, or shield for the roll H.

A balance-wheel, L, is secured upon the shaft of one or the other of the stripping-rolls, H or J, in this case it being attached to the roll J.

The roll H is mounted in adjustable bearings, which are set up by set-screws *e*, when necessary to bring the stripping rolls into proper position in relation to each other, and thereby insuring their seizing hold of the husks.

The concave P may be made adjustable, either with or independently of the adjustable roll.

By having the lower portion of the concave extend over the roll H, as represented, it follows that the ear of corn, instead of resting upon this roll, rests partially upon the plate and partially on the roll J, and as the latter is revolving rapidly, the ear is caused to revolve or roll over also; whereas, if the ear rested equally on both rolls, it would not revolve at all, or but slightly, as the action of the two rolls upon it would simply counteract each other.

The ear being dropped upon the concave, is moved gradually over the rolls, until it comes in contact with roll J, when it is caused to revolve, and the husks are caught between the two stripping-rolls, and as the ear continues to revolve, the husks are all removed, the husks being thrown out below the rolls, and the ear being thrown out at the opposite side by the wing C, as it sweeps along.

By this means I am enabled to construct a very simple and efficient machine.

Having thus described my invention,

What I claim, is—

1. The rubber-covered rolls H and J, arranged in the same horizontal plane, or nearly so, with a balance-wheel applied to the shaft of one of them, and both having motion imparted to them, for the purpose of stripping the husks from ears of corn, substantially as described.

2. In combination with said stripping-rolls, the concave P, arranged substantially as set forth.

3. The combination of the rolls H J, the revolving wings C, and concave P, when arranged substantially as described.

4. The use, in a corn-husking machine, of a concave, P, so constructed and arranged as to cover one of the stripping-rolls, and keep the ear from resting upon said roll while being husked, substantially as described.

ALONZO WHITCOMB.

Witnesses:

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