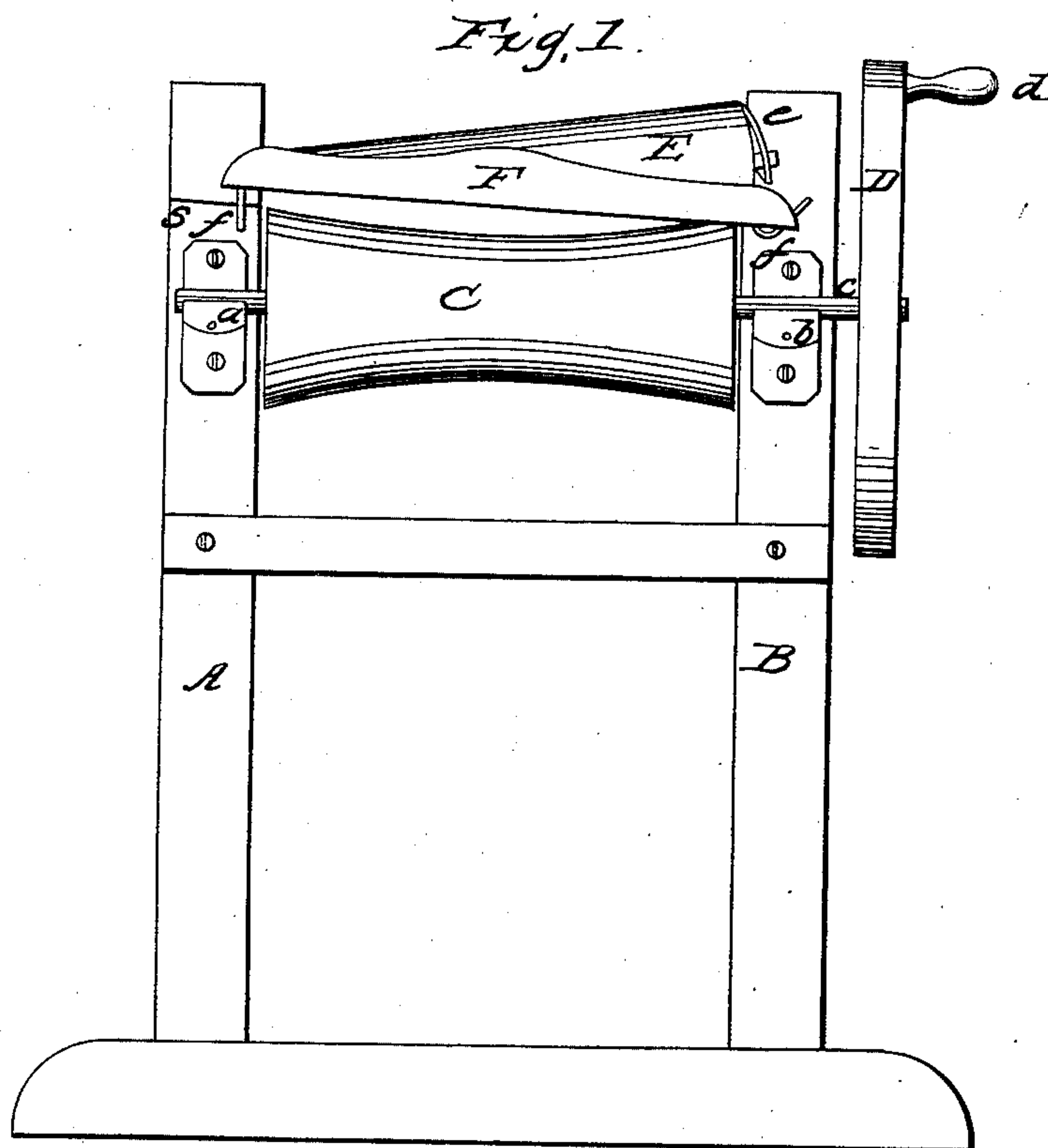
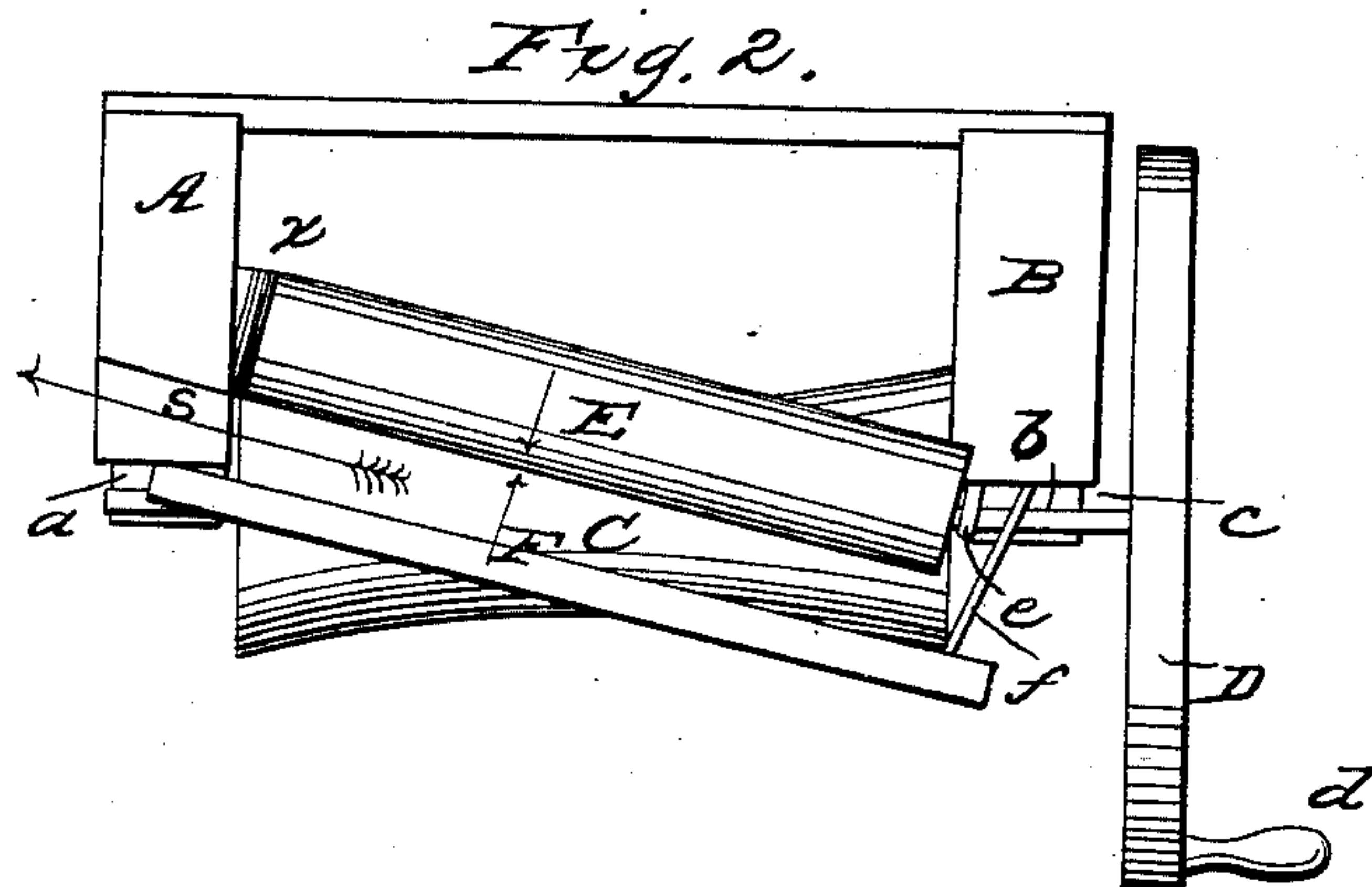


G. F. SHAW.  
Corn Husker.

No. 24,765.

Patented July 12, 1859.



Witnesses:  
Henry F. Shaw  
Charlotte A. Shaw

Inventor:  
George F. Shaw

# UNITED STATES PATENT OFFICE.

GEORGE F. SHAW, OF WOBURN, MASSACHUSETTS.

## CORN-HUSKER.

Specification of Letters Patent No. 24,765, dated July 12, 1859.

### *To all whom it may concern:*

Be it known that I, GEORGE F. SHAW, of Woburn, in the county of Middlesex and Commonwealth of Massachusetts, 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 of the construction of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front elevation, and Fig. 2, a top view.

Like parts are indicated by the same letters in both figures.

The nature of my invention consists in the use of a cylinder and a concave roller arranged in such a manner that the axis of the one shall be slightly inclined to that of the other, so that, as the ear is driven forward parallel with the cylinder, the husks shall be stripped backward from the tip of the ear toward the butt, and carried in a different direction between said cylinder, and concave roller.

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

A and B are upright studs, properly confined together at the top and bottom, as shown in Fig. 1, and constituting the frame of the machine.

C is a concave roller, about 14 inches in length, 6 inches in diameter at its extremities, and 4 at the center; being hung on an axle, or shaft, *c*, which rests in the boxes, *a* and *b*, which are screwed to the studs, A and B, as shown in Fig. 1.

D is a fly-wheel attached to the end of shaft, *c*; and *d* is the handle by means of which it is rotated by the operator.

E is the cylinder, about 3 inches in diameter, and as long as the concave roller, C. The angle which the axis of this cylinder makes with the axis of the roller, C, is shown in Fig. 2. One end of the axle of E turns in the bearing, *x*, and the other in the projecting piece of metal, *e*.

The cylinder and roller are both covered with india-rubber, or roughened leather, and pressed together either by making *e* elastic, or by applying any kind of a spring, in common use for analogous purposes, to the axle, *c*, in the boxes, *a* and *b*.

F is a board the position of which in relation to the cylinder and roller, is shown in Figs. 1 and 2, the distance between F and B being little more than the diameter of the largest ear of corn to be husked.

*f f* are strong wires passing from the studs, A and B, into F, and holding the latter firmly in place.

In order to husk, the operator places an ear of corn between the guide piece, F, and the cylinder, with the butt-end pointed to the fly-wheel, D, and rotates the same by means of the handle, *d*, causing the roller and cylinder to turn in the directions indicated by the little arrows, in Fig. 2; the action of which will be to drive the ear, as it rotates, in the direction indicated by the long arrow in Fig. 2; while the husks will be drawn through between the cylinder and roller at a right angle with the axis of the former; and the husked ear will shoot over the corner of stud, A, on to the floor, or into whatever is placed to receive it. And the operation will be performed as rapidly as a person can feed the ears into the machine, one at a time.

It is not absolutely necessary to feed the ears into the machine, with the butt to the fly-wheel; but that is the proper and more effectual way, as thus the husks will be stripped from the tip toward the butt, and severed much more easily than they would be, were the ears fed in with the butts in the opposite direction.

Owing to the increased diameter of the roller, C, as it recedes from the middle, it is also obvious that the point of the ear (fed in as recommended above) will be forced up to the rollers first, thus presenting the husks in the most favorable manner to be severed from the ear—*i. e.* from the point to the butt, as one naturally performs the operation by hand.

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

The combination and arrangement of the cylinder, E, and concave roller, C, substantially as set forth and for the purposes described.

GEORGE F. SHAW.

Witnesses:

HENRY F. SHAW,

CHARLOTTE A. SHAW.