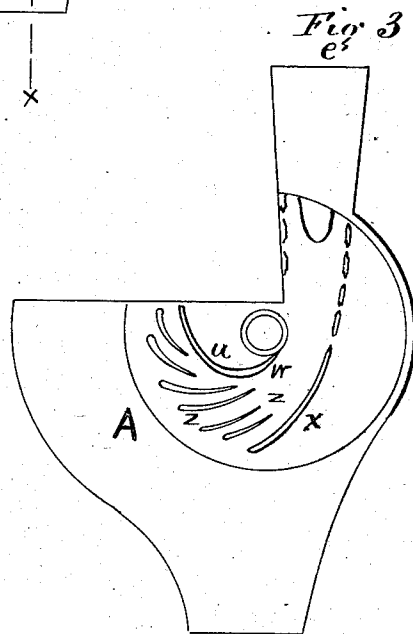
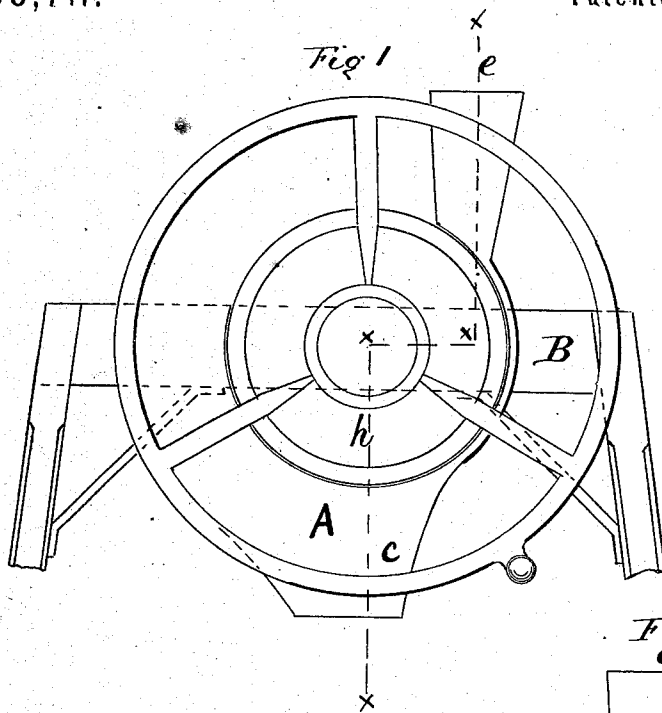


L. B. HOIT.  
Corn-Shellers.

No. 158,711.

Patented Jan. 12, 1875.



Witnesses  
Benjamin C. Pole,  
Alvin K. Parris,

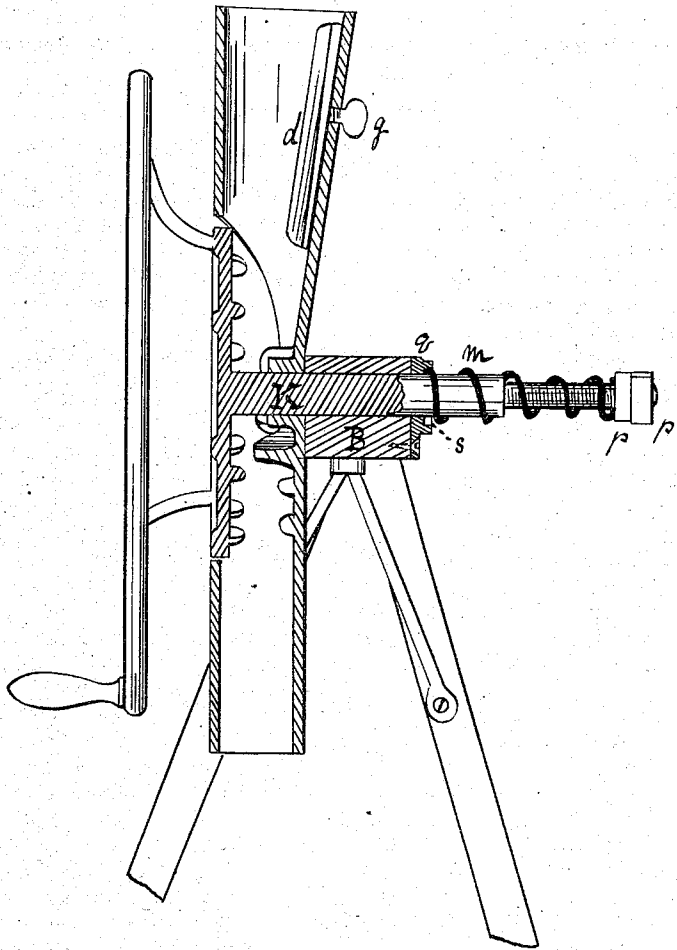
Inventor  
Lora B. Hoyt  
by his attorney,  
Chas S. Whitman

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*Fig. 2*



Witnesses  
Benjamin C. Pole  
Alvin H. Paris

Inventor  
Lora B. Hoyt  
by Charles Whitman  
att'y

# UNITED STATES PATENT OFFICE.

LORA B. HOIT, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN CORN-SHELLERS.

Specification forming part of Letters Patent No. **158,711**, dated January 12, 1875; application filed July 24, 1874.

*To all whom it may concern:*

Be it known that I, LORA B. HOIT, of Worcester, county of Worcester and State of Massachusetts, have invented certain Improvements in Corn-Shellers. The following description, taken in connection with the accompanying plate of drawings hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new, and are desired to be secured by Letters Patent of the United States.

My invention relates to that class of corn-shellers in which a toothed disk is made to operate in conjunction with a presser-board, commonly known as disk-shellers; and the nature thereof consists in certain improvements upon the patent granted to De Witt C. Sterry, dated September 3, A. D. 1872, and numbered 131,129.

In the accompanying plate of drawings, in which corresponding parts are illustrated by similar letters, Figure 1 is a longitudinal elevation. Fig. 2 is a transverse vertical section, taken on the line *x x x x*, Fig. 1. Fig. 3 illustrates the interior of the casing, the disk-plate being removed for that purpose.

A designates the casing which surrounds the disk-plate, cast in one piece and rigidly attached to the frame B. The said casing is provided with a spout, *e*, through which the shelled corn falls. E designates the hopper, into which the ear to be shelled is inserted. The said hopper is provided with a tongue, *d*, which accurately fits the interior surface of the said hopper, and extends from the top of the same to a point at or near the shaft *k*. In shelling the largest-sized corn the said tongue is not used, but in adapting the machine to corn grown north of forty degrees of latitude, or common corn, it becomes necessary to diminish the diameter of the hopper, and for this purpose the tongue is introduced and held firmly in position by the screw *g*, or in any other proper way. By the use of this device the machine may be adapted to corn of any size.

The general construction of the disk *h*, shaft *k*, and spring *m* is the same as that of similar devices described in the said patent to De Witt C. Sterry—that is to say, from the center of the disk *h*, and forming a part of the same casting, a shaft, *k*, passes through the presser-plate *u* and cross-bar of frame B. Upon the end of the said shaft, and between the same and the frame, is arranged the spring *m*, which is held in position by the nut *p* and jam-nut *p'* in such a manner as to allow the revolving disk to adjust itself to the size of the ear. *q* designates a plate attached to the frame and provided with a cylindrical projection, in which is cut an annular slot, *s*, for the reception of the end of the spring *m*. Upon the surface of the presser-plate is cast a projection, *w*, of curvilinear form. The said projection commences at a point on the right side of the hub or bearing of the shaft, and extends to a point situated at about one-third of the distance from the shaft to the extreme left of the casing. The office of the said projection is to cause the ear to pass around the casing, from the bottom of the hopper to the opening at the left of the casing, at a greater radial distance from the center of the revolving disk than it would otherwise. A somewhat similar projection is cast upon the presser-plate at *x* for the purpose of guiding the end of the ear. Between the projections *w* and *x* are arranged a series of corrugations, *z*, of curvilinear form, which remove the corn from the cob without tearing or mashing the cob.

Having thus described the construction and operation of my invention, I will indicate in the following clauses what I claim, and desire to secure by Letters Patent—that is to say:

1. In a disk corn-sheller, the presser-plate provided with the curvilinear projection *w*, commencing at a point on the right side of the hub of the shaft and extending to a point situated at or about one-third of the distance from the shaft to the extreme left of the casing.

2. In a disk corn-sheller, the presser-plate provided with the projections *w* and *x*, as and for the purposes described, whereby the

corn is caused to pass around the casing at a greater radial distance and the end of the ear is ground.

3. In a disk corn-sheller, the presser-plate provided with corrugations *z*, arranged between the projections *w* and *x*, as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of July, 1874.

LORA B. HOIT.

Witnesses:

J. T. COLDWELL,  
A. K. PARRIS.