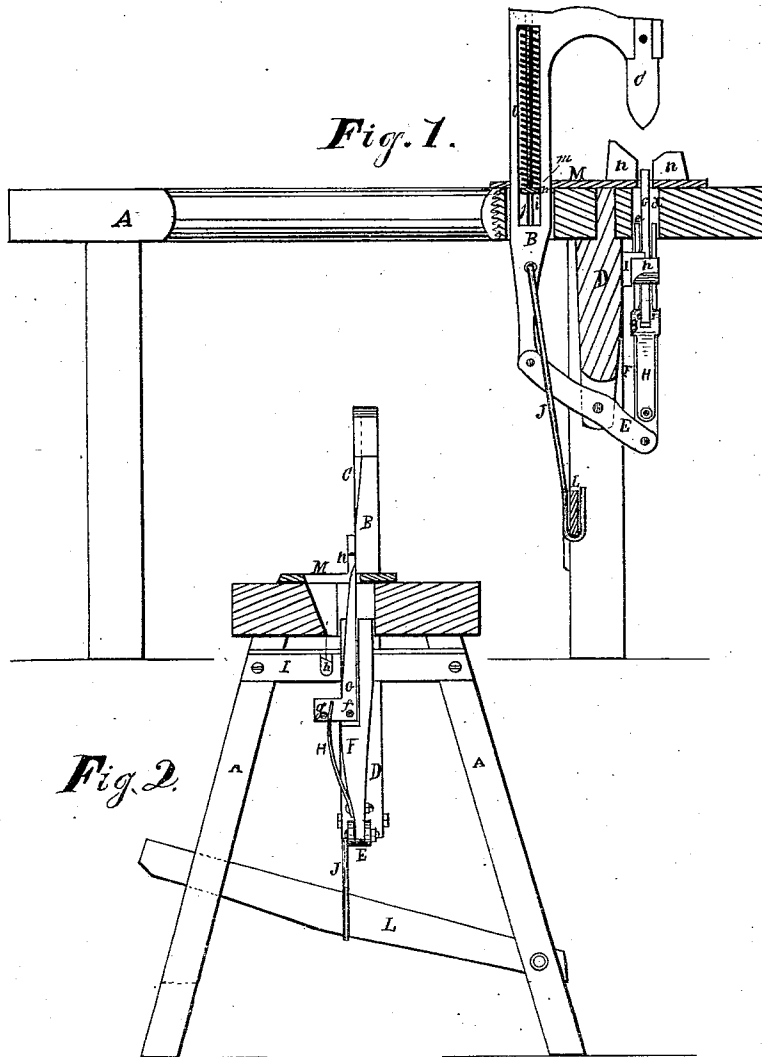


A. MERWIN.

Corn Husker.

No. 110,772

Patented Jan. 3, 1871.



Witnesses

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ABEL MERWIN, OF ST. JOSEPH, MICHIGAN.

Letters Patent No. 110,772, dated January 3, 1871.

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, ABEL MERWIN, of St. Joseph, in the county of Berrien and State of Michigan, have invented a new and useful Improvement in Corn-Huskers ; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side elevation of my invention, with a portion of the frame broken off, showing the working parts of the machine ; and

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

My invention has for its object a device by which corn may be separated from the husk ; and

The nature of my improvement consists in a vertical moving cutter-bar, provided with a device for cutting the husk from the ears, which acts uniformly with the vertical movement of an oscillating cutter for separating the same.

To the lower end of said cutter is pivoted an automatic tilting lever, communicating with the cutting-lever, whereby the uniform movement is obtained.

In the accompanying drawing—

A indicates the frame-work of the machine, which may be as shown, or it may be of any suitable form that will receive the moving parts.

B is a cutter-bar, which is so arranged as to move vertically upon guides or ways secured within a mortise cut through the platform of the frame.

The upper end of said bar is bent outward at a right angle with its edge, and is provided with a cutter-blade, C.

Secured to the lower side of the platform is a depending brace, D, to the lower end of which is pivoted an automatic tilting-lever, E, which is jointed at one end to the lower end of cutter-bar B.

Jointed to the opposite end of said lever is a vertical bar, F, the upper end of which is secured within a mortise, *d*, cut through said platform, and is fitted in a manner admitting of a free and easy vertical movement.

Said bar is provided with a vertical groove or channel, *e*, within which is secured a stripping cutting-tool, G.

The lower end of said tool is secured to the flanges of bar F, by means of pivot, *f*, passing through the same, and is bent outward at a right angle with its edge, and provided at or near the outer end with a

lug-pin, *g*, resting against the outer side of spring H, secured to the lower end of said bar.

Secured to the posts of the frame, below the platform, is a girt, I, upon which is a lug, *h*, so arranged as to come in contact with the outward-projecting end of stripping cutting-tool G, as the same is moved upward by the action of lever E, thus imparting to said tool an oscillating movement.

I provide said cutter-bar B with a slot or mortise, *i*, within which is secured a vertical rod, *j*.

Around said rod is a spiral spring, *l*, the lower end of which rests upon a guide-plate, *m*, secured to the upper side of the platform.

Attached to said cutter-bar is a pitman, J, extending downward to treadle L, secured to the frame of the machine.

Secured to the upper side of the platform is a plate, M, which is provided with vertical uprights, *n n'*, the inner sides of which are cut away, forming a recess, into which the ear to be husked is placed.

The operation of my invention is as follows :

The ear to be husked being in said recess, power is applied by the foot of the operator to treadle L, which communicates with cutter-bar B by means of pitman J, imparting to the same a simultaneous downward movement, with an upward movement of stripping cutting-tool G of bar F, by the automatic tilting movement of lever E, thus bringing the lower end of said cutting-tool in contact with lug *h*, imparting to the same an oscillating movement, by which the ear is separated from the husk as it is disengaged by cutter-blade C.

Spring *l* then recedes as the foot of the operator is removed from the treadle, and by which the cutters are adjusted to receive another ear.

Having thus described my invention,

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

1. In combination with the cutter-blade C, the cutting and stripping-tool G, constructed and arranged to operate in the manner shown and for the purpose set forth.

2. The combination and arrangement of the cutter-bars B and F, cutter-blade C, cutting and stripping-tool G, lever E, lug *h*, springs H and I, rod J, and treadle L, substantially as and for the purpose described.

ABEL MERWIN.

Witnesses:

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