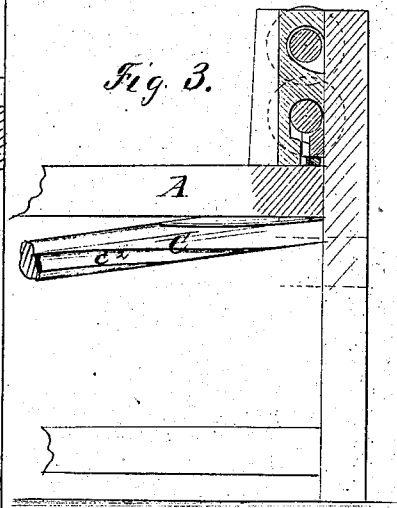
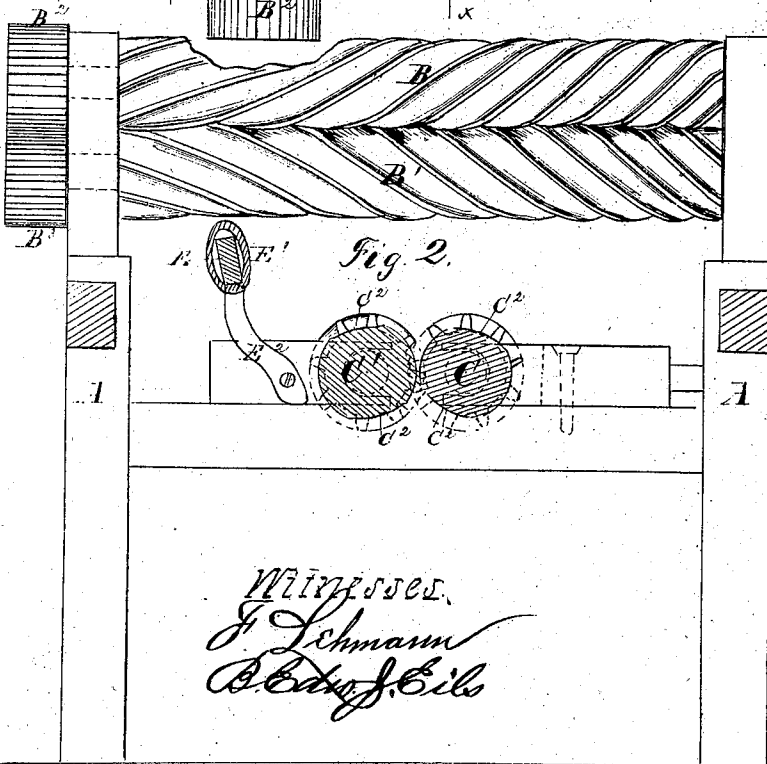
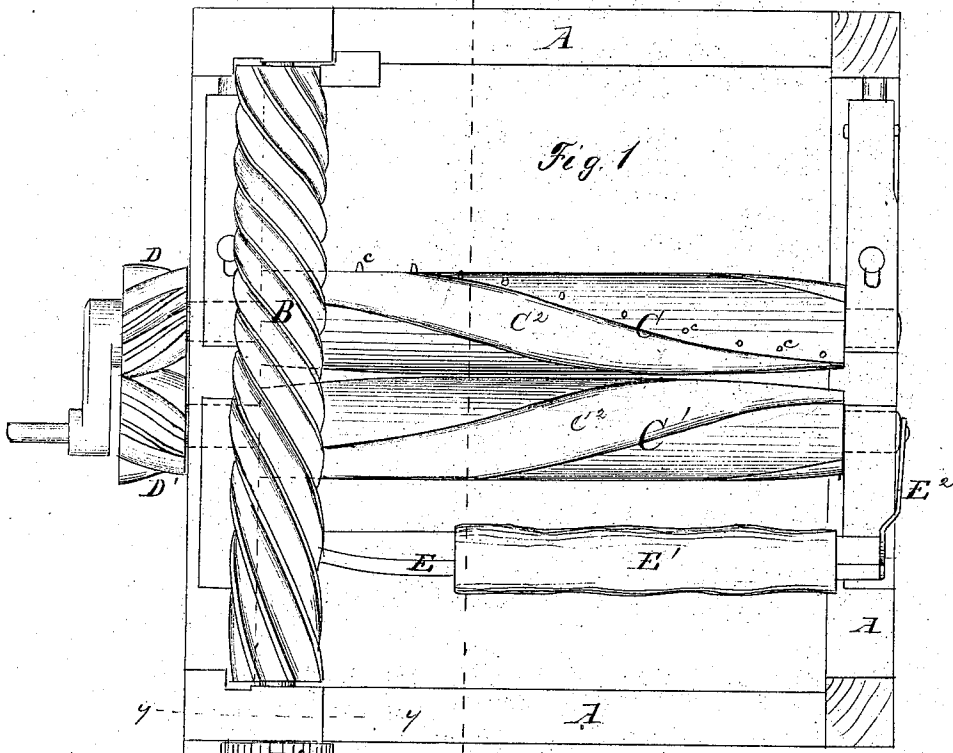


106276

Peter Philip
Corn Husker.

PATENTED AUG 9 1870



Witnesses,
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United States Patent Office.

PETER PHILIP, OF STOCKPORT, NEW YORK.

Letters Patent No. 106,276, dated August 9, 1870.

IMPROVEMENT IN MACHINES FOR HUSKING CORN.

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, PETER PHILIP, of Stockport, in the county of Columbia and State of New York, have invented certain Improvements in Corn-Huskers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a plan view of my improved machine.

Figure 2 is a sectional elevation on line *x x*, fig. 1.

Figure 3 is a section of a detached portion on line *y y* of fig. 1.

The same letters are used in all the figures in the designation of identical parts.

This invention relates to machines for husking corn, of the class wherein two sets of rolls are employed, one for stripping the ears from the stalks and the other for husking the ears as they are delivered from the stripping or picking-rolls.

The first part of my improvement consists in forming, upon the surface of the stripping-rolls, right and left-handed screw-threads and grooves of variable pitch, so arranged, with reference to each other, that the elevations of one are opposite the grooves in the other, to enable them to nip the ears from the stalk, and draw the latter, as it passes through them in a lateral direction, away from the point where it is fed in.

The second part consists in providing the husking-rolls each with one or more spiral depressions, of peculiar form, in their surfaces, which depressions, being left-handed upon one and right-handed upon the other roll, and opposite to each other, receive the ear as it falls from the picking-rolls, and allow it to settle down between the husking-rolls, so that the edges of the spiral husking-surfaces shall have a continuous bite upon the husk.

The third part consists in the application of an oscillating presser, in connection with husking-rolls, constructed as described, to gently press upon the ears, as they pass along the surface of such rolls, for the purpose of holding the ears in firmer contact with them, so that the husk may be more certainly gripped by the edges of the husking-surfaces.

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

The frame *A* is made of strong timbers, and of suitable form and dimensions to receive and support the various operative parts to be mounted upon it.

The picking-rolls *B B* are arranged across the front and in the upper portion of the frame, where their journals are supported in suitable boxes.

Springs or elastic cushions are arranged under the boxes of one of the rolls in the usual manner.

The surfaces of the rolls are provided with spiral or screw-threads, running from end to end of the same, and made of a variable pitch, by preference, as shown in the drawing.

The threads on one roll run in a reverse direction to those on the other, so that, as they are revolved, and stalks of corn are fed in at one end, they will, in drawing such stalks through, carry them from the end where they are fed in to the opposite end, and there discharge them, thus permitting of constant and uninterrupted feeding.

It will be observed that the threads of one of the rolls are opposite the grooves in the other, and mesh into them, to allow them to take a firm hold of the stalks, and facilitate the nipping of the ears.

The depth and pitch of the threads will vary in accordance with the nature of the work to be performed by them.

The rolls are geared together by spur-wheels *B²* and *B³*, and may be driven by any suitable power which should be applied to the unyielding roll.

The ears of corn, as they are nipped from the stalk, drop upon the husking-rolls *C C*, which are arranged transversely under and in rear of the picking-rolls, in an inclined position, as shown.

They revolve, by their journals, in boxes arranged upon the cross-beams of the frame, they being geared together by the wheels *D D*, to one of which the power is applied.

One of the rolls is made yielding, by placing its journal-boxes against springs or elastic cushions. I propose to construct these rolls with one or more spiral depressions, *C²*, in their surfaces, running from end to end, and in reverse directions along the respective rolls, so that, in revolving them, such depressions come opposite to each other on the upper surface, and form a bed into which the ear drops.

By making these spiral depressions in the rolls, a continuous spiral husking-surface is obtained, so that such husking-surface or surfaces will have a continuous bite upon the husk from the point to the butt of the ear, and thus strip the husk off at one operation.

Small points or teeth *c* may be arranged along the gripping-edges of the husking-surfaces, to assist in drawing the husk between them.

To hold the ears, as they pass along the inclined husking-rolls, in firmer contact with them, I provide an oscillating presser, *E*, which may be constructed of a bar of iron, covered with an elastic or yielding pad, *E¹*, and pivoted, by arms *E²*, to the cross-beams of the frame, by the side of the husking-rolls, extending the proper distance above them, as shown in fig. 2.

One of the arms *E²* is linked to a crank-pin on the journal of one of the rolls, to give to it an oscillating motion.

I have shown only one set of husking-rolls, but I propose to employ at least two sets, arranged side by side in the usual manner.

Where two sets are thus used, the presser will have a sufficient oscillation to press alternately upon the ears passing over each set.

Having described my improvements in machines for husking corn,

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

1. The picking-rolls B B', when the same are provided with spiral threads and grooves, gearing with each other, and formed of variable pitch from end to end, substantially as shown, and for the purpose described and set forth.

2. The husking-rolls C C', when provided with spiral depressions C² C² upon their peripheries, and formed as described, substantially as and for the purpose set forth.

3. In combination with the husking-rolls C C', the oscillating presser-bar E, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to the foregoing specification in the presence of two subscribing witnesses.

PETER PHILIP.

Witnesses:

F. A. LEHMANN,
B. EDW. J. ELS.