(No Model.)

C. H. TAYLOR.

HUSKING MACHINE.

No. 490,727. Patented Jan. 31, 1893.

Fig. 1.

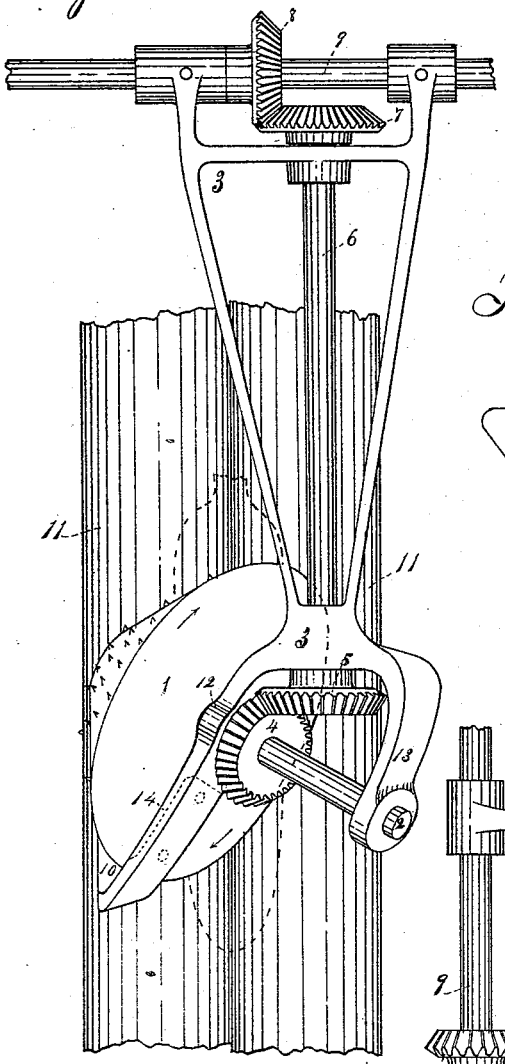


Fig. 2.

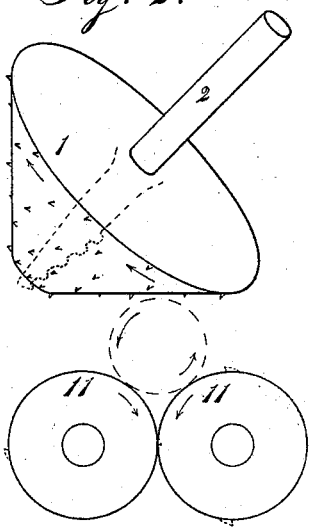


Fig. 3.

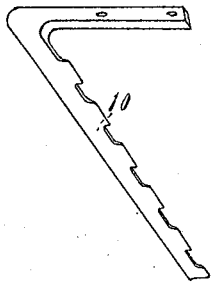
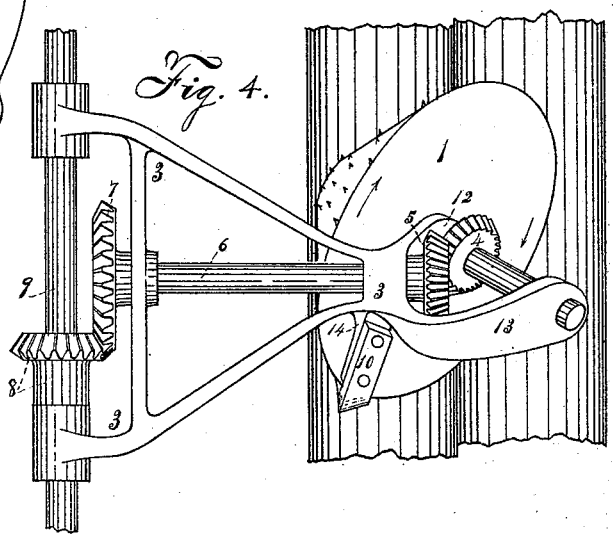


Fig. 4.



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CHARLES H. TAYLOR, OF LINCOLN, NEBRASKA.

HUSKING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 490,727, dated January 31, 1893.

Application filed July 7, 1890. Serial No. 358,014. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. TAYLOR, a citizen of the United States, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented certain new and useful Improvements in Corn-Husking Machines, of which the following is a specification.

My invention relates to machinery for husking corn in which the husks are removed from the ears by means of rollers, and the object of my invention is to enable the husking rollers to husk the corn more perfectly and rapidly than can be done by machinery now in use. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top, or plan view, of a section of a pair of husking rollers, a bevel or cone shaped roller in its proper working position, and means for supporting and operating said bevel or cone-shaped roller; Fig. 2 is an end view of a pair of husking rollers with a bevel roller above them in its proper relative position; and showing the position of an ear of corn between them; Fig. 3 is a perspective view of a guard for the bevel roller; Fig. 4 is a top view, of a section of a pair of husking rollers, a bevel roller above in its proper relative position, and showing another plan for arranging the supporting and operating mechanism for said bevel roller.

Similar numbers refer to similar parts throughout the several views.

The roller 1, is made tapering or cone-shaped, is provided with a shaft or axle 2, which extends outward from its center; and its face or cone-shaped surface should be provided with teeth or other suitable roughness for the purpose hereinafter explained. The shaft 2, of the bevel roller 1, revolves in bearings formed in the forks or arms 12, and 13, of hanger 3. The hanger 3, swings on the shaft 9, and by this means the roller 1, is held adjustably in its proper position. On the shaft or axle 2, of roller 1, is secured the bevel gear 4, into which meshes the bevel gear 5. The bevel gear 5, is secured to the end of shaft 6, which revolves in suitable bearings on hanger 3; and to the other end of said shaft is secured the bevel gear 7. On shaft 9, is secured the bevel gear 8, which meshes into bevel gear 7; and by this means rotary motion is transmitted from shaft 9, to bevel roller 1. The bevel roller 1, may be held in position and operated, with a hanger 3, extending lengthwise with the husking rollers 11, as shown in Fig. 1, or with said hanger extending from the side as shown in Fig. 4, or in any other suitable way which will give the desired result, and which will be best adapted to the kind of a husking machine to which said bevel roller is to be applied.

The object in using a bevel roller or disk in a husking machine is to prevent the ears of corn from passing over the husking rollers without being husked, and at the same time to cause them to travel forward quite rapidly. The action of this bevel roller upon the ears of corn is to press them against the husking rollers, and at the same time to cause them to travel forward, and to roll over once or more while they are passing under said bevel roller, or while the pressure is being applied; thus enabling said husking rollers to remove the husks from all sides of the ears. The bevel roller 1, should always be held and operated in such a position that its lower surface which comes in contact with the ears of corn will have both a forward and side movement; and its bevel or cone-shaped face should be provided with teeth or other suitable roughness so that its action upon the ears will be sure and uniform. The bevel roller may be provided with a guard 10, secured to the arm 14, (as shown in the drawings) for the purpose of preventing the husks, stems, &c., from being drawn around behind it. The bevel roller 1, being supported as it is by a swinging hanger 3, can adjust itself to any sized ear; and a portion of its weight may be carried by a spring of any suitable kind, applied in any way desired.

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

1. In corn-husking machines, a beveled or cone-shaped roller in combination with a pair of husking rollers, substantially as set forth and for the purposes specified.

2. The combination in a corn-husking ma-

chine of beveled or cone-shaped rollers, their driving or operating mechanism, the means for holding them adjustably in their proper position, and the husking rollers all substantially as set forth.

3. In corn-husking machines, a beveled or cone-shaped roller with its surface provided with teeth or other suitable roughness, in combination with a guard (10) and means for supporting the same, substantially as set forth and for the purposes specified.

CHARLES H. TAYLOR.

Witnesses:
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