

No. 742,387.

PATENTED OCT. 27, 1903.

C. G. BORT.  
AGITATOR FOR CORN HUSKING ROLLS.

APPLIOATION FILED JUNE 3, 1903.

NO MODEL.

Fig. 1.

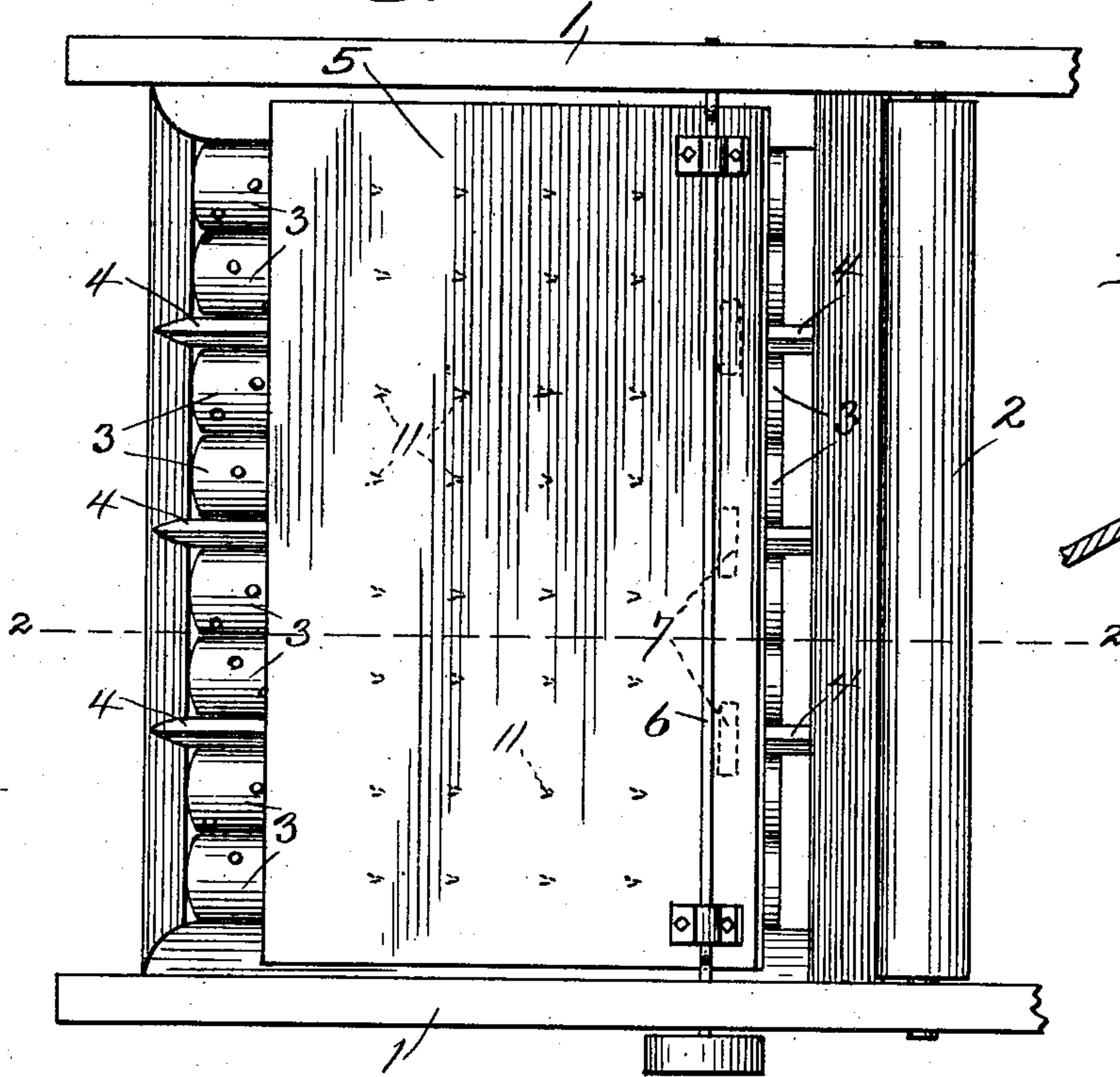


Fig. 3

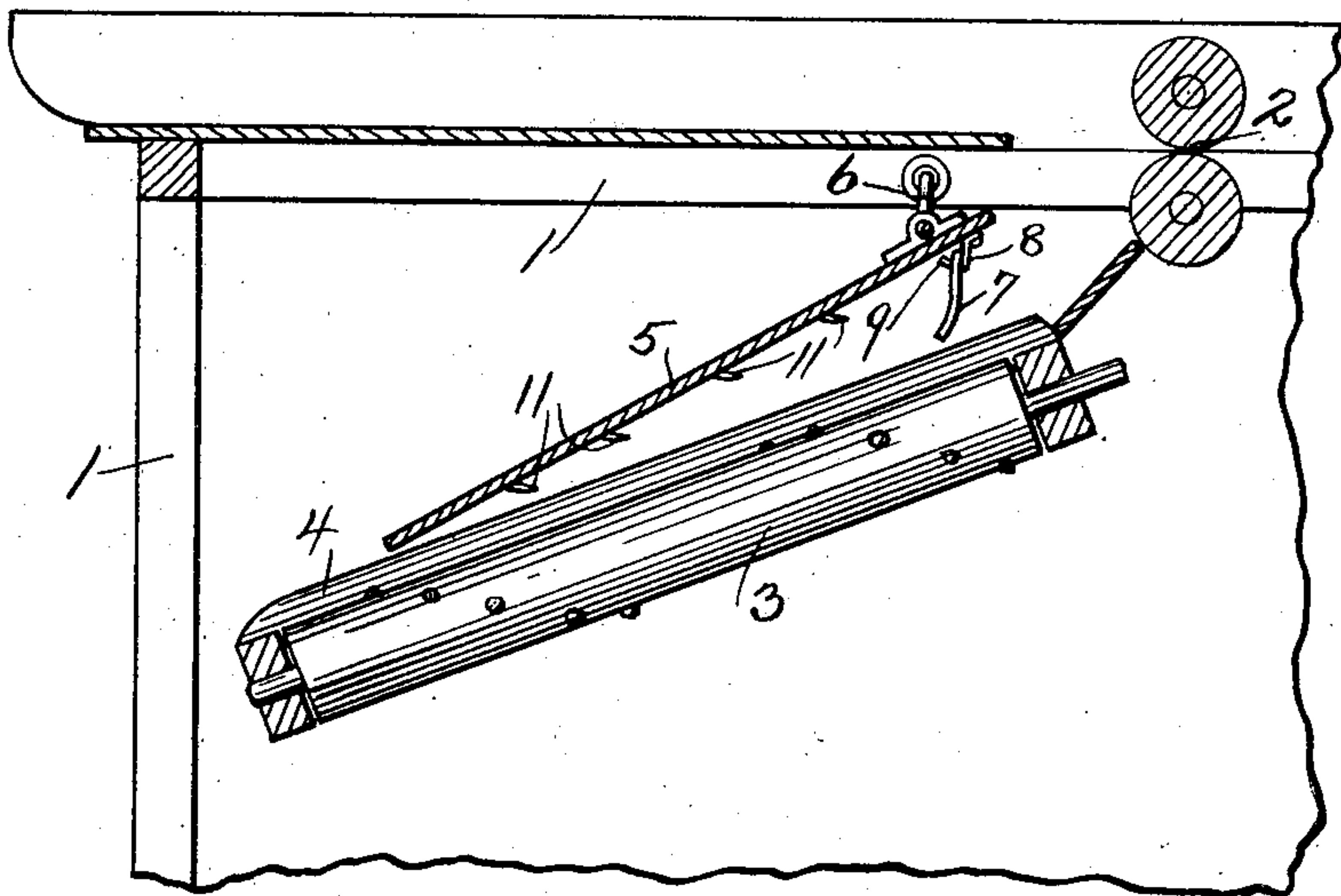
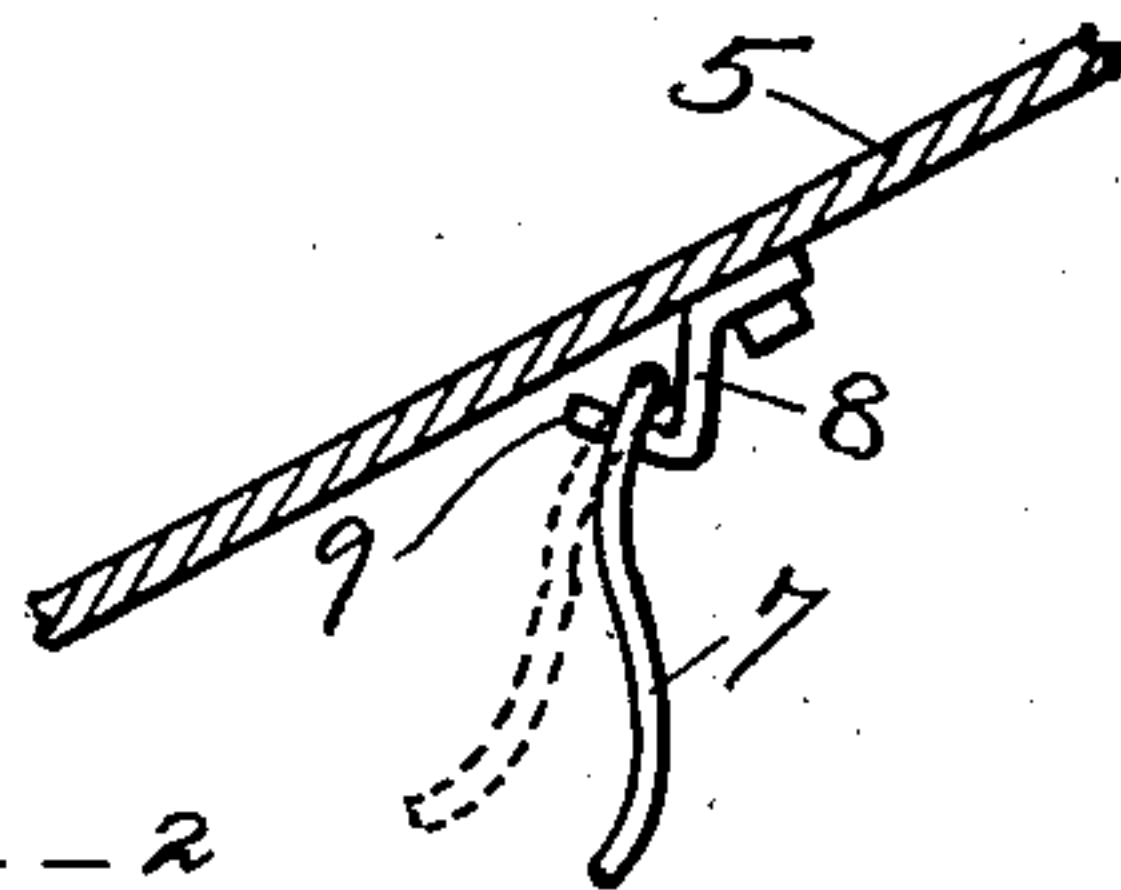
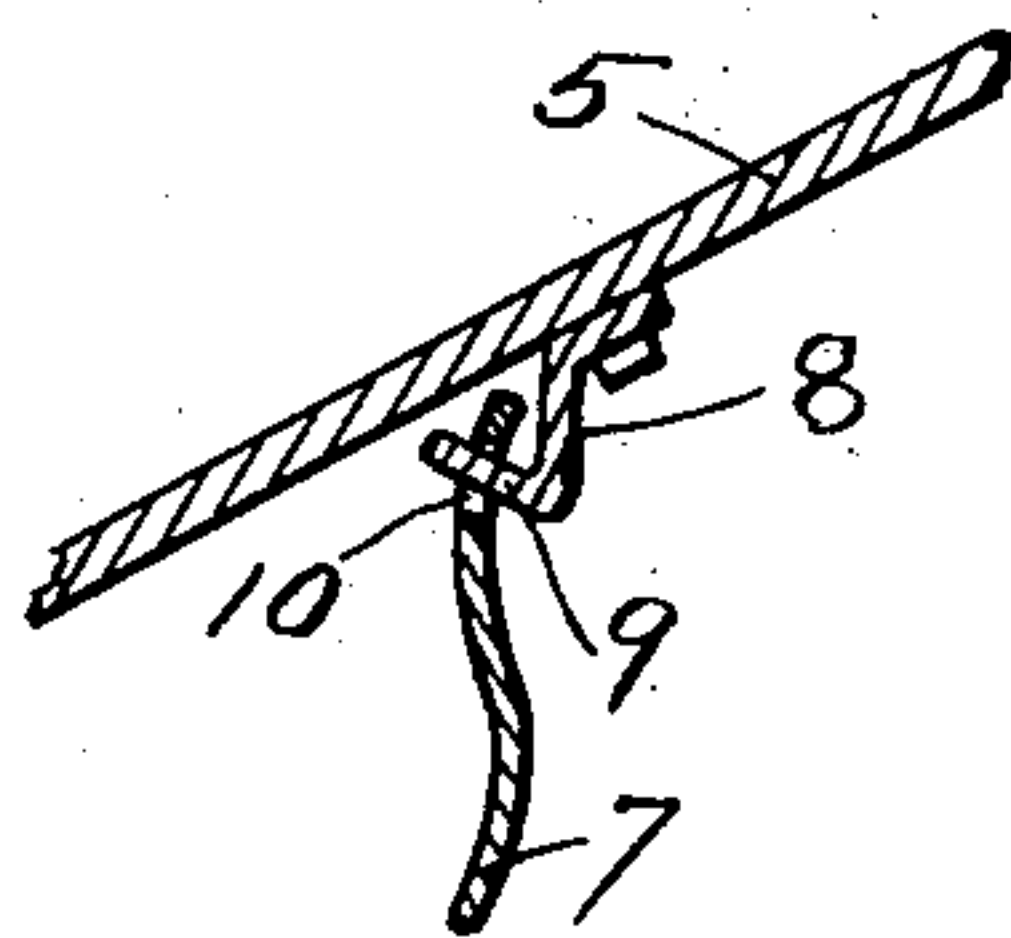


Fig. 4.



Witnesses:  
R. J. Jacker  
A. L. Weaver,

Fig. 2.

Inventor:  
Charles G. Bort,  
By Walter N. Haskell,

Ally



# UNITED STATES PATENT OFFICE.

CHARLES G. BORT, OF STERLING, ILLINOIS.

## AGITATOR FOR CORN-HUSKING ROLLS.

SPECIFICATION forming part of Letters Patent No. 742,387, dated October 27, 1903.

Application filed June 3, 1903. Serial No. 159,840. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES G. BORT, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Agitators for Corn-Husking Rolls; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention has reference to agitators for corn-shredders, and is specially designed to provide a more perfect delivery of the ears to the husking-rolls in position to have the husks removed by such rolls. In machines of this class the ears of corn after being snapped from the stalks fall upon the upper ends of the inclined husking-rolls in various positions, with the ears pointing in all directions, and unless some means is employed to prevent it such ears will continue down the husking-rolls in such confused condition, some of the ears being crosswise of the rolls or riding on other ears, so that they are not operated on by the husking-rolls. In my device I aim to avoid this by stirring and turning the ears of corn when they are first delivered to the husking-rolls, the stirring being done in a direction to retard the progress of the ears until they are brought into proper position to be acted upon by the husking-rolls.

In the drawings, Figure 1 is a plan view of a portion of a machine embodying my device with the top part thereof removed. Fig. 2 is a vertical longitudinal section in the line 2 2 of Fig. 1. Fig. 3 is an enlarged detail showing one of the beaters 7. Fig. 4 is a vertical section thereof.

1 represents the frame of the machine, 2 2 the usual snapping-rolls, and 3 3 the husking-rolls, suitably mounted in pairs, with partitions 4 separating the several pairs of rolls. A board 5 is suspended above the rolls 3 on a crank-shaft 6, journaled at each end in the frame 1. The lower end of the board 5 rides upon the upper edges of the partitions 4, so as to be permitted to reciprocate longitudinally thereon. The shaft 6 is rotated in any

suitable manner, such rotation imparting to the board 5 a continuous reciprocating movement and at the same time giving to the upper end of such board a limited vertical motion.

On the lower face of the board 5, near the upper end thereof, is a series of beaters 7, having their lower ends rearwardly curved. Each of the beaters 7 is secured to the board 5, so as to be permitted to swing longitudinally of the machine, by means of a support 8, secured to the board 5 and having a projection 9 passing through an aperture 10 in the beater. The beaters 7 are so located on the board 5 that one of such beaters is suspended above each of the partitions 4. The lower face of the board 5 is also provided with a plurality of small hooks or pickers 11, arranged thereon in any desired manner, the purpose of such pickers being to tear the husks on the corn as it passes beneath the board, causing such husks to be more easily grasped by the husking-rolls. The direction of rotation of the crank-shaft 6 is such as to move the board 5 and beaters 7 upwardly in the direction of the snapping-rolls, then upwardly and rearwardly, completing the revolution. The beaters provide a flexible interference to the ears of corn as they are delivered to the husking-rolls, the movement of such beaters tending to retard the progress of the corn and turn the ears into line, so that they will proceed in single columns down the husking-rolls longitudinally thereof.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. In a machine of the nature indicated, the combination with a reciprocating board and a plurality of partitions supporting the lower end of the board, of a series of beaters pivotally supported on the under side of said board, and means for reciprocating the board to cause the beaters to interfere with the free passage of the ears of corn beneath the board, substantially as described.

2. In a machine of the nature indicated, the combination with a reciprocating board and a plurality of partitions supporting the lower end of the board, of a series of beaters pivotally hung from the under side of the said board near its upper end, a plurality of

prongs projecting from the lower face of the board, and a crank for reciprocating the said board, substantially as described.

3. In a machine of the nature indicated,  
5 the combination with a reciprocating board, of a beater having an aperture at one end, a hook secured to the under side of the board and engaging the aperture of the beater to

support the latter, and means for reciprocating the board, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES G. BORT.

Witnesses:

REUBEN N. REED,  
I. L. WEAVER.