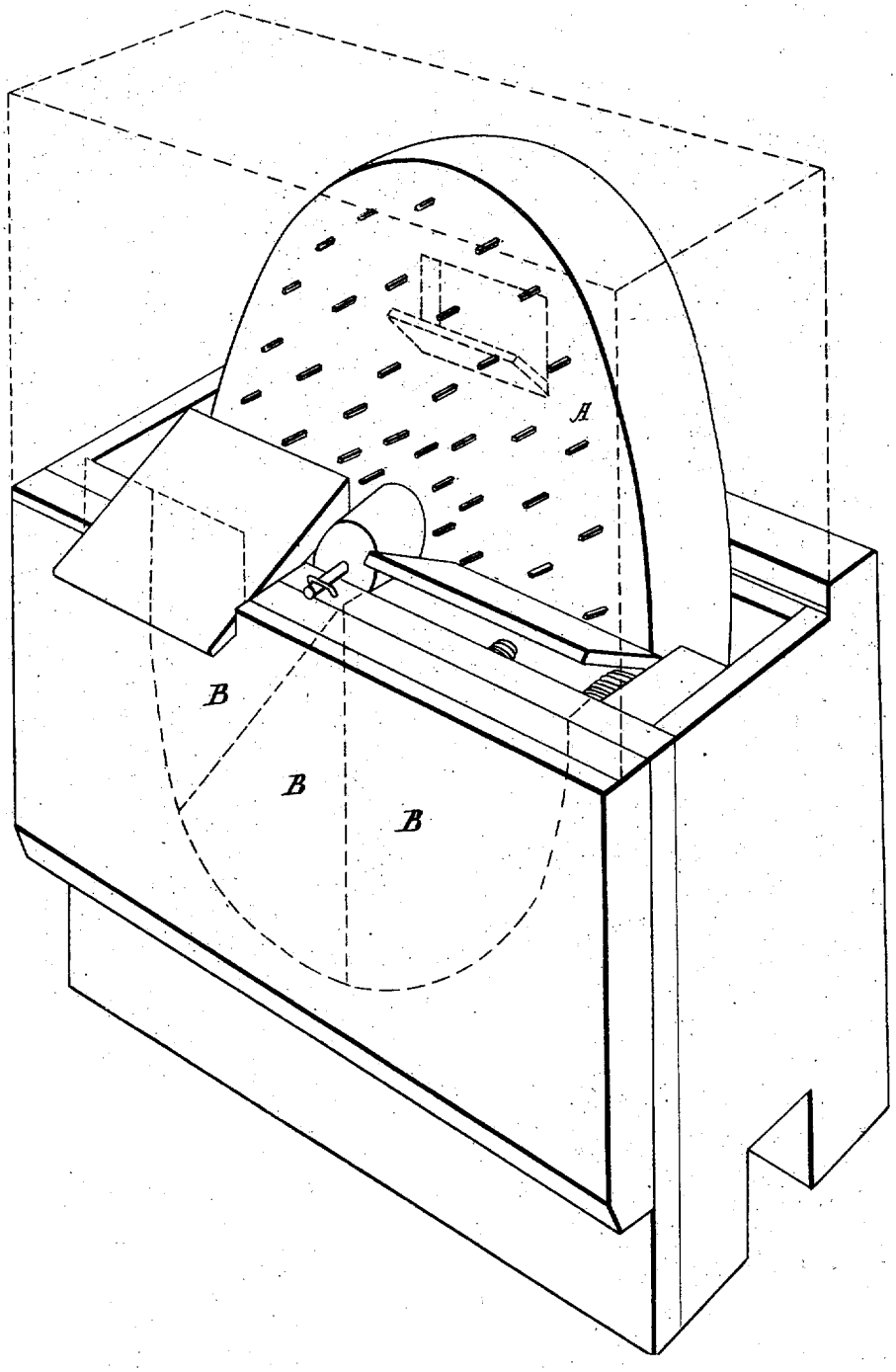
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# J. Turner,

## Corn Sheller.

Patented Aug. 13. 1835.



Aug 15 1835

# Joseph Turner Island Maine

## Letters Patent

To all whom these presents shall come: Be it known that I Joseph Turner of Island in the county of Cumberland and State of Maine have invented a new and useful improvement in a machine for separating the Cob called the Corn Sheller, and that the following is a full and exact description of the construction and operation of said machine as invented or discovered by me.

The lower body of the machine is three feet eight inches long eighteen inches wide and ten inches high. This box is formed of hard wood stock one inch and a half in thickness and secured by screws to hard wood posts the four at the ends and four inches square in the corners. In the side of this box there is an open space of eight inches high extending the whole length of the box, in the same side of the box there is fitted two posts in the corners a bar of hard wood by screws of one inch and a half in thickness and three inches deep in such a manner as to leave a space of one and a half inch between said bar and the side of the box. This bar comes up to the top of the box.

To this bar and the opposite side of the box and exactly in the middle of the box there is a post bored, the three legs are united & fastened upon one end of the post by iron screws & brass plates, the other ends of the legs are spread out so as to form a tripod, the post is three feet six inches high as by letter A in the annexed drawing. To the side of this post there are inserted four circular rods of iron, the first the inches long three eighths of an inch square and projecting from the surface of the post four eighths of an inch. These rods are set parallel from three fourths of an inch apart. The other rods are set in the bar above described, the two rods of the diagram and in the space between the bar and the side of the box there is fastened a sheet of sheet

of Cast iron or Gunmetal three inches in diameter. Another cog wheel one foot in
diameter is attached to a shaft with a crank and so fitted as to mesh into the
small cog wheel and by turning the crank to give a rapid motion to the wheel.
The large wheel is also made of cast iron and the shaft to which it is attached
revolves in lead boxes. These gudgeons are boxed down by pine binders.

On the opposite side and on the inside of the box there is fitted a
follower in the form of a semi circle corresponding in size to one half of the wheel
before described. This follower is made of hard wood one inch and a half in thick-
ness and divided into three parts as indicated by the dotted lines in the annex-
ed plan (3) (3) (3). The edges where these pieces meet are graduated one half inch. On
these pieces called the follower there are circular rows of iron teeth so placed as to in-
terlock with those on the wheel. In each of these pieces there are inserted three
pins of strong wood one inch in diameter all of which pass loosely through the side
of the box retaining the follower. When pushed forward towards the wheel to its
farthest extent in a position so that the space between it and the wheel will
be one inch and a quarter. It is thus prevented from approaching nearer
by means of a head to the pins thus described. A spiral spring is placed round
each of these pins pushing forward the follower to the greatest extent. These springs
are made of wire three sixteenths of an inch in diameter. A piece of plank
four inches in thickness is so constructed as to fit to the follower and prevent
the cob from falling down. A box twenty inches high of the same length of the
other & thirteen inches wide made of pine boards one inch in thickness &
dovetailed together at the sides and ends and screwed or nailed at the
top and opened at the bottom is then fastened to the lower box by means
of hasps at each end. This box prevents the corn from scattering. A feeder
formed by cutting a hole through the side of the upper box in a position
just half way between the centre and the right hand end of the box one
foot long and eight inches wide standing diagonally downwards in the
inner part of which there is a slide on which the ears of corn are placed
and dropped down when the machine is in motion as will appear by the
letter C. Another slide on the opposite end formed partly by cutting the upper
and partly by cutting the lower box inclining outward eighteen inches
long and eight inches wide receives the cobs and brings them out of the

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machine separate from the cone. This machine can be worked by hand or horse power with the application of Machinery and the cone is dropped down. The pans horizontally as fast as a man can pick up and put to the pedestal at a time I claim as my invention in the foregoing the following mode of three distinct pieces and the application of the spiral spring & the pillars & I also apply together with the Slide separating the Cone from the cone - the upper box preventing the cone from Lifting

Joseph Turner

Witnesses
Joseph H. Bradford
Herman Bradford

Ex.
Ch. W.

(Drawing)

1035 ab