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R. HOYT.

Corn Sealer.

2 Sheets—Sheet 1.

Patented Oct. 31, 1834.

NO PRINTED SPECIFICATIONS AVAILABLE

Fig. 1.

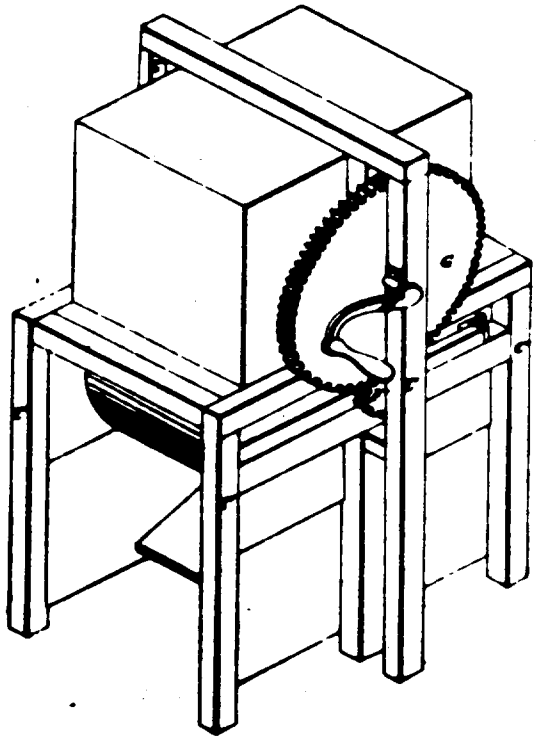


Fig. 2.

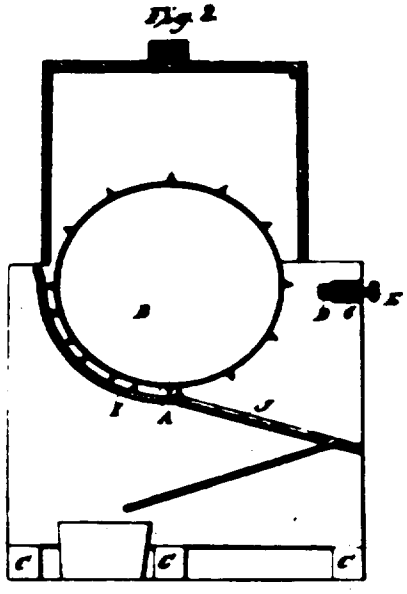


Fig. 3.

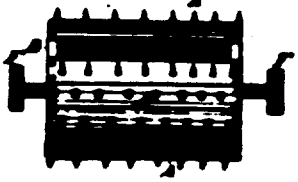
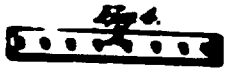


Fig. 4.



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2 Sheets—Sheet 2.

R. HOYT.

Corn Sheller.

Patented Oct. 31, 1834.

Fig 5

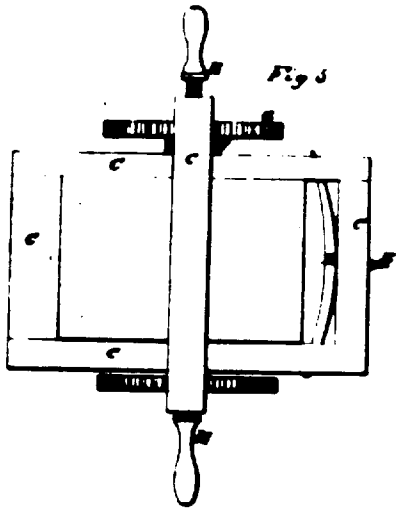


Fig 6

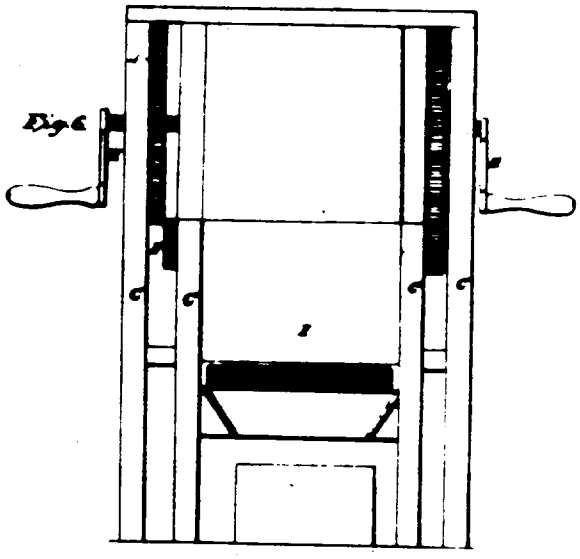
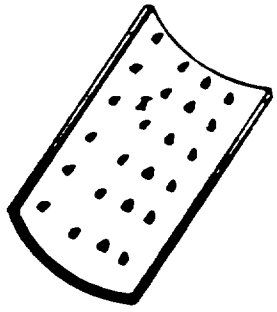


Fig 7.



Oct. 31. 1834

8482 X

441

Rodney Hoyt. Miamisburg Ohio

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Rodney Hoyt himself of his improvement in the Corn Shelling Machine

To all to whom these presents shall come. Be it known that I Rodney Hoyt of Miamisburg in the County of Montgomery and State of Ohio, have invented a new and useful improvement in the Corn Shelling Machine, and that the following is a full and exact description of said machine is improved by me — For one hand power. The frame is 30 inches long 20 inches wide & 28 inches high made of good strong timber 2½ inches square. On each side within the frame is firmly screwed or nailed a plank 1½ inch thick 13 inches wide and of the length of the frame to receive the concave. The frame to be lined below these planks with ½ inch stuff with a schute or conductor to carry off the corn the ends of the machine to be covered with plank on the outside 13 inches wide. The concave is made of cast iron with teeth one half inch long. three fourth inch wide and one inch apart and is made to encircle one fourth the circumference of the cylinder. This concave is placed at one end of the frame fitted into two grooves cut into the side pieces of the frame inclining to an angle of about 45 degrees. The cylinder is 12½ inches long & 17½ inches in diameter. it is made by securing staves of cast iron on two heads cut out of two inch plank. These cast staves are covered with teeth similar to those on the concave and made to run in spiral form around the cylinder. The cylinder is placed on two slides working in two grooves cut in the top of the side pieces. at the opposite end of the machine from the concave is a spring of elastic wood or steel running across the frame and at the center of the spring is a common screw to regulate the opening to admit the ears. against each end of this spring the slides are made to press for the purpose of letting the cylinder work to and from the concave to admit different sized ears. On the right hand side of the machine are two posts four feet high. and on the left hand side one of the same height all of which are secured by a cap piece. These posts are of timber 2½ inches square. Between these two upright posts the driving wheel is made to work. This is a common cog wheel of cast iron and made to work in and over the follower or small wheel which is attached to the end of the shaft of the cylinder. To increase power there is a driving wheel on the left hand side of the machine in every respect similar to the one on the right hand side. this wheel is made to be thrown in and out of gear at pleasure so that the machine may be worked by one or two hands.

There is a wire screen from under the cylinder running parallel with the schute to separate the cobs from the corn. Over the top of the cylinder is a tight cap or box made to prevent the corn from flying upwards. To put the machine in motion, the large wheel is turned by a crank which ope-

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ates on the cylinder. between the cylinder and the concave. drop the ears of corn and in passing through they will be completely shelled. The parts of the above specified machine which I claim as my invention are the concave in which the cylinder works. I claim the cylinder as formed with the metal surface giving it the properties of a fly wheel. making it keep longer in motion than if the cylinder were formed of a solid substance. The form of the teeth on the concave I claim as original and the left hand wheel to increase power & the manner in which it is thrown in and out of gear.

I claim the spring of steel or elastic wood and the position in which it works. and the screw regulating the opening to admit the ears. I claim the slide on which the cylinder works and the screen to separate the cobs from the corn. I claim the right to increase size and power to any extent.

Witnesses
Wm Savage
Wm Gondy

Rodney Hoyt

Drawing

820 w.t.