

(No Model.)

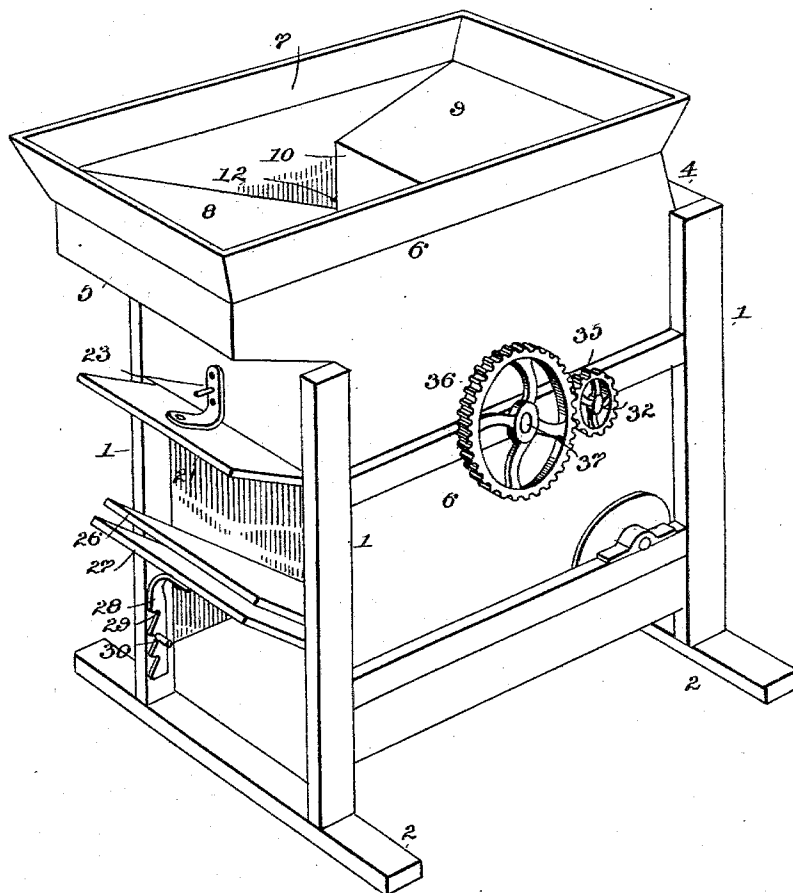
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J. M. SANDERS.
PEA HULLER.

No. 561,616.

Patented June 9, 1896.

Fig. 1.



WITNESSES:

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(No Model.)

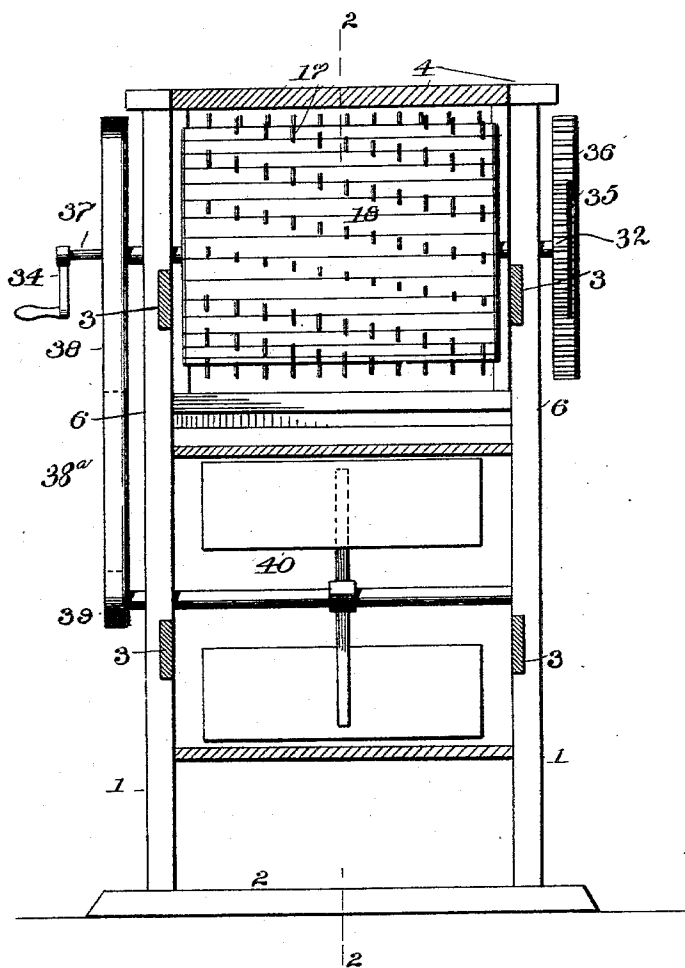
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J. M. SANDERS.
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No. 561,616.

Patented June 9, 1896.

Fig. 2.



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(No Model.)

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Fig. 3.

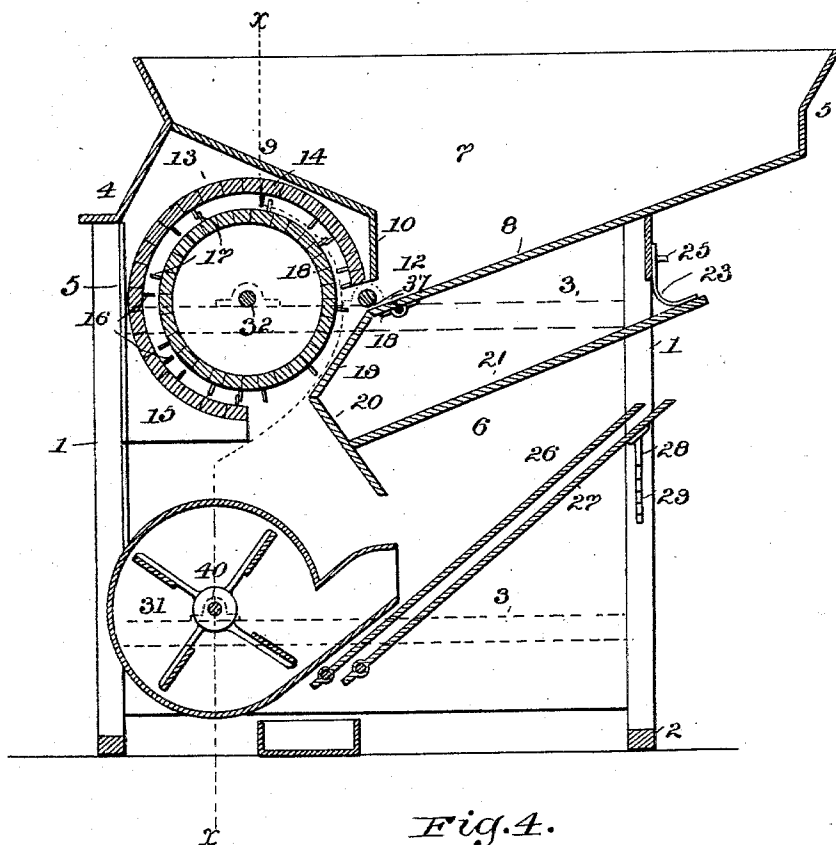
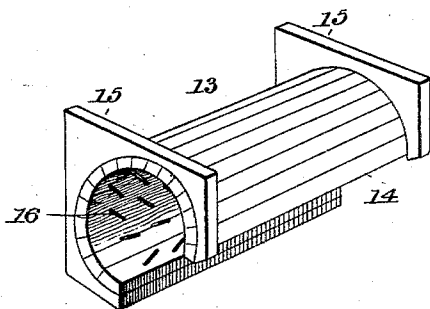


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN M. SANDERS, OF DALTON, GEORGIA.

PEA-HULLER.

SPECIFICATION forming part of Letters Patent No. 561,616, dated June 9, 1896.

Application filed January 28, 1896. Serial No. 577,145. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. SANDERS, a citizen of the United States, residing at Dalton, in the county of Whitfield and State of Georgia, have invented certain new and useful Improvements in Pea-Hullers; and I do hereby 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.

My invention relates to improvements in pea-hullers; and its object is to provide an improved construction of the same which shall possess superior results with respect to efficiency in operation.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a pea-huller constructed in accordance with my invention. Fig. 2 is a transverse section on the line *xx*, Fig. 3. Fig. 3 is a central longitudinal section of the same. Fig. 4 is a perspective view of the concave and its supporting-blocks.

In the said drawings, the reference-numeral 1 designates four uprights secured at the lower ends to transverse base-boards 2. These uprights are connected together by longitudinal bars 3 and a transverse bar 4 at one end and boards 5 at the opposite end.

The numeral 6 designates side boards forming with the said boards 5 a casing open at one end and provided at the upper end with a hopper 7, having the upper portion flaring or inclined outward. This hopper is formed with inclined bottom walls 8 and 9, the latter of which is formed or provided with a vertical wall 10. A space 12 is formed between the walls 8 and 10 for the passage of the peas to be hulled.

Located in the casing is a concave 13, formed of a series of slats 14, secured to blocks 15, secured to the machine-frame. The concave on its inner side is provided with a series of rows of spirally-arranged teeth 16, which correspond with similar teeth 17 on the periphery of a drum 18. The drum is cylindrical and the concave extends about two-thirds around the same. At the inner end of the inclined bottom is an inclined wall 18, connected with

an inclined chute 19, formed with an inclined extension 20.

The numeral 21 designates an inclined tail-board pivoted at the inner end to the sides of the machine. At the outer end it is provided with a strap 23, formed with a number of holes 24, which engage with a pin 25 and hold the board in any position to which it may be adjusted.

The numerals 26 and 27 designate two parallel inclined tail-boards, connected together with a space between, and pivoted at the inner ends to the machine-frame. The outer end of the board 27 has secured to it a bracket 28 provided with a number of teeth 29, which engage with a stud or pin 30 and serve to hold the connected tail-boards in any position to which they may be adjusted. The object of adjusting the tail-boards is to regulate the blast of the fan.

The numeral 31 designates a fan-blower of any ordinary or suitable construction.

The numeral 32 designates the drum-shaft, provided at one end with a pinion 35, which meshes with a cog-wheel 36 on a transverse shaft 37, the opposite end of which is provided with an operating-crank 34 and a fly-wheel or large pulley 38, connected by a belt 38^a with a small pulley 39 on the blower-shaft.

The operation is as follows: The peas are fed into the hopper and are caught between the teeth of the concave and drum and removed from the hulls or pods. The shelled or hulled peas and the pods or hulls then fall down into the chute, when the air-blast from the blower will blow them up on the tail-board 26, the hulls being blown out at the end of the machine, while the peas will fall into the receptacle at the bottom of the machine. Any peas which may be carried up the board 26 will fall onto the board 27, and from thence will roll down into the receptacle.

By the above construction there will be no danger of the peas being crushed during the operation, and there will be no appreciable waste, as all the hulled peas will be carried down to the receptacle. This receptacle may be provided with a screen, if desired, to prevent the entrance of any trash or refuse.

Having thus fully described my invention, what I claim is—

In a pea-huller, the combination with the frame, the casing, the hopper, the concave with spirally-arranged teeth, the drum with corresponding teeth, the opposite inclined chute, hinged to the hopper, the board connected with said chute and extending to the rear of the casing and provided with a strap having apertures therein engaging with a pin at the rear of the machine, whereby the distance of the chute from the drum can be regulated, of the pivoted tail-boards at the lower

part of the machine, the bracket secured to one of said tail-boards, provided with teeth and the pin with which said teeth engage, substantially as described.

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

JOHN M. SANDERS.

Witnesses:

W. S. WHITE,
D. K. MCKAMY.