(No Model.)

G. PRICHARD.

CORN SHELLER.

No. 287,718. Patented Oct. 30, 1883.

Fig. 1

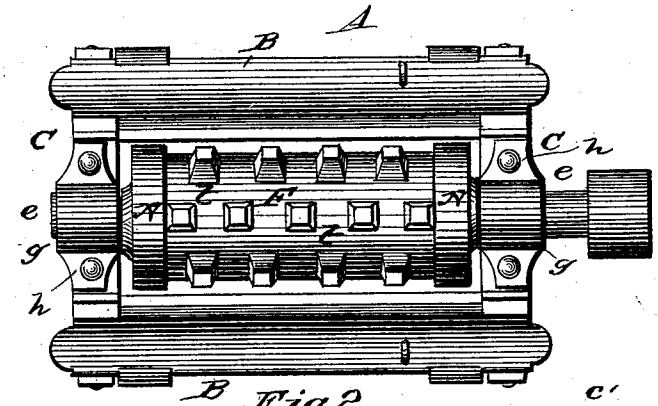


Fig. 2

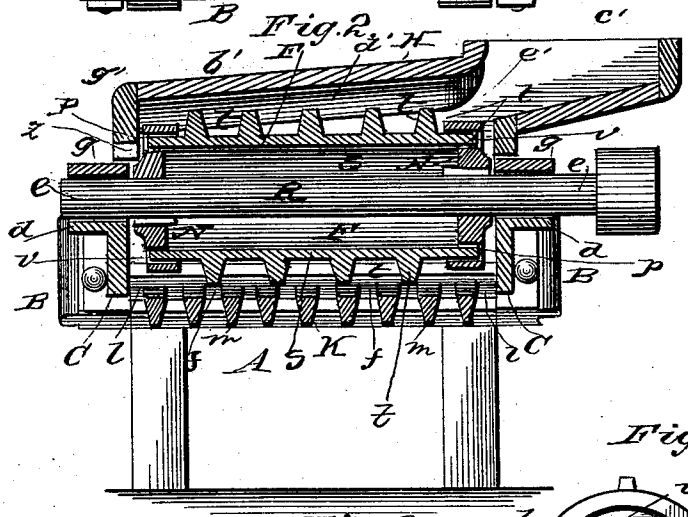


Fig. 4.

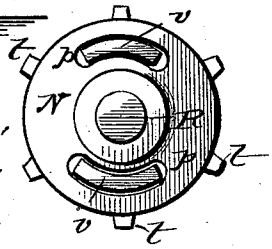
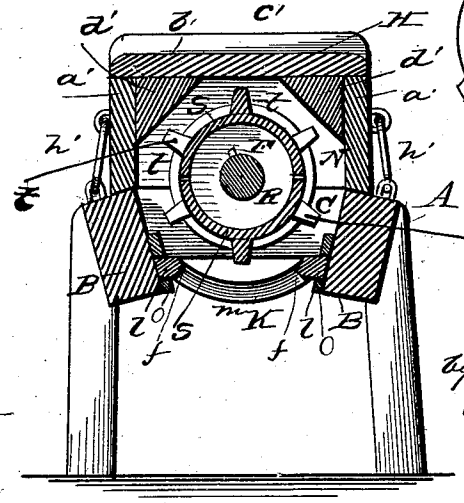


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE PRICHARD, OF PRICHARDVILLE, MICHIGAN.

CORN-SHELLER.

SPECIFICATION forming part of Letters Patent No. 287,718, dated October 30, 1883.

Application filed May 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE PRICHARD, a citizen of the United States, residing at Prichardville, in the county of Barry and State of Michigan, have invented certain new and useful Improvements in Corn-Shellers; 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 letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a top view of the cylinder, the top casing being removed. Fig. 2 is a vertical longitudinal section of the machine. Fig. 3 is a transverse section of the machine, and Fig. 4 is a detail view.

This invention has relation to power corn-shelling machines; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and particularly pointed out in the appended claim.

In the accompanying drawings, A designates a strong bed-frame provided with the sides B, which are somewhat inclined upward and outward on their inner faces.

C C are the cast ends of the frame, to which the sides are bolted. The cast ends are formed with seats *d*, for the journals *e* of the shelling-cylinder F, and caps *g* are bolted to said ends, which are made with perforated flanges *h* to receive the bolts.

On ledges or bearings O, at the lower edges of the sides B, is supported the separator-grating K, which is of elongated form and transversely concave. This grate or separating-bottom is cast with side bars, *l*, and transverse curved bars *m*, which are of V form in cross-section, so that they will deliver the grain freely in discharging. The side bars, *l*, are formed with longitudinal angular faces *f*, which project somewhat inwardly from the said bars *l* of the grating, and serve to assist the action of the cylinder in taking the corn from the cobs.

The cylinder F consists, mainly, of the circular ends N, which are cast with slots *p* on opposite sides of their central bearings, near their margins. The shaft R passes through the central bearings of these ends or heads, as shown in the drawings. The journal portions *e* of the shaft are seated in the bearings *d* of the cast ends C of the bed-frame.

s s indicate semi-cylindrical or partial-cylindrical plates, which, when fitted to each other, form the shelling-cylinder. These plates *s* are formed with externally-projecting studs *t*, which are preferably of angular form, frustum-shaped, and somewhat tapering outward from their bases. Each plate *s* is formed with a tongue, *v*, at each end, which, when the cylinder is put together, enters the corresponding slot, *r*, in the head of the cylinder, so that when the heads N are keyed on the shaft the plates *s* will be secured in position.

H represents the top of the frame or case, which is made with sides *a'* and a top, *b'*, somewhat inclined downward from the hopper end to the discharging end.

The hopper *c'* projects from the end portion of the top and forms a part thereof, as shown. Within the top are the corner strips or projections, *d'*, which extend full length of and form a part of said top, and are designed to approach the cylinder sufficiently to co-operate therewith in rubbing the corn off the cobs. The front ends of the rubbing-ribs *d'* are located just in rear of the sides of the hopper-opening *e'*, and are rounded to facilitate the feeding.

In the rear end wall, *g'*, of the top is made an opening, *z*, through which the cobs are discharged. Strong hooks *h'*, or other common fastenings, serve to secure the top to the bed-frame.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The corn-shelling machine consisting of the main frame having the curved grating bottom K, the cast ends C, and the top H, having the end hopper, *c'*, the rotating shaft R, and the curved cylindriform stud-plates *s*, connected to said shaft by the end plates, N, slotted at *p* to receive the ends *v* of the stud-plates, substantially as specified.

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

GEORGE PRICHARD.

Witnesses:

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