(No Model.)

J. A. ADAMS.

CORN SHELLER.

No. 456,460. Patented July 21, 1891.

FIG. 1.

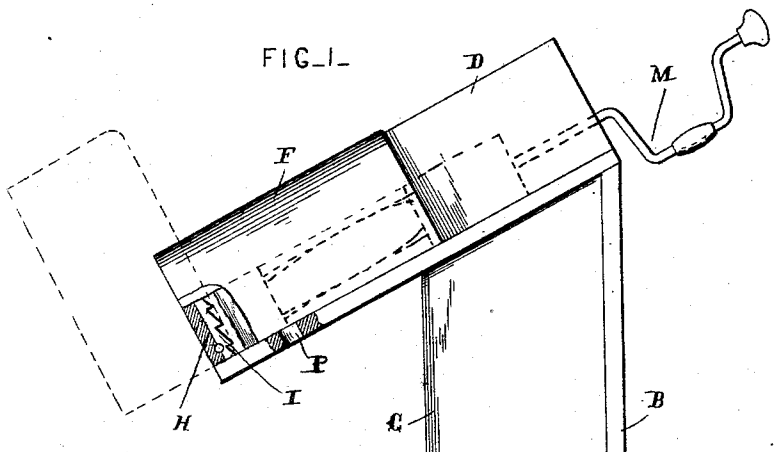


FIG. 3.

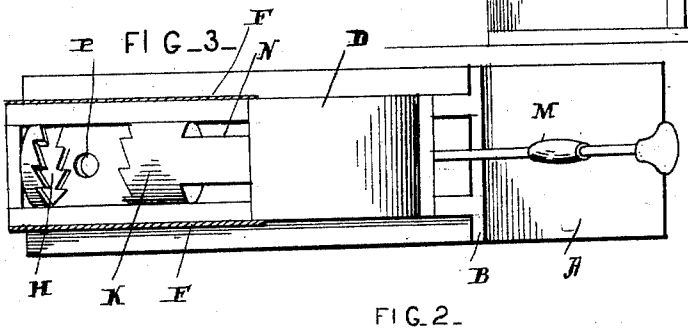


FIG. 4.

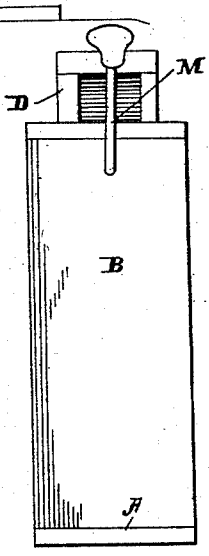
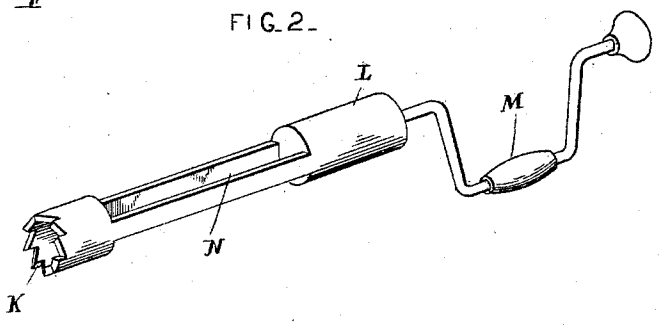


FIG. 2.



WITNESSES.

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CORN-SHELLER.

SPECIFICATION forming part of Letters Patent No. 456,460, dated July 21, 1891.

Application filed April 11, 1891. Serial No. 388,486. (No model.)

To all whom it may concern:

Be it known that I, JOHN ANDREW ADAMS, of Salyersville, in the county of Magoffin and State of Kentucky, have invented certain new and useful Improvements in Corn-Shellers; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in corn-shellers; and it consists in certain novel features of construction and arrangement of parts, which will be fully described hereinafter, and particularly referred to in the claims.

The object of my invention is to construct a simple and cheap corn-sheller in which an ear of corn can be placed and quickly and thoroughly shelled by turning a hollow shelling-tube which is provided with an operating-handle.

In the drawings, Figure 1 is a side elevation, partly in section, of a corn-sheller which embodies my invention complete. Fig. 2 is a detached perspective view of the shelling-tube. Fig. 3 is a plan view of my improved corn-sheller. Fig. 4 is an end view of the same.

A indicates a horizontal base, which is secured to any desired object, and rising from this base between its ends is a vertical board B, which extends transverse the said base; also rising from this base is a second board C, which is placed about the center of the base and has its inner edge to abut against the adjacent face of the support B. The upper ends of these two supports are cut at an incline, as shown, and secured to the upper inclined ends of these supports is a box D of any suitable size, the lower end of the said box having its upper portion or cover removed, as shown, and a concave cover F substituted therefor. This cover F is pivoted at its outer end to the outer end of the box, and is raised, as shown in dotted lines in Fig. 1, when it is desired to place an ear of corn in the box to be shelled. Made in the lower end of the box is a perforation H, and around this perforation, on the inner side of the end, is a row of ratchet-teeth I, which engage one end of the ear of corn when it is placed in position in the box to be shelled and prevent the ear from turning while it is being shelled.

The sheller proper consists of a tube having its lower or inner end formed into ratchet-teeth K, its opposite end L being made solid, and secured to this solid portion is a handle M, which is similar to the handle of an ordinary brace. Between these ends the tube is provided with the longitudinal slots N on opposite sides thereof.

When it is desired to shell an ear of corn, it is placed in the box and its lower end forced against the ratchet-teeth at the bottom of the box to prevent it from turning. The shelling-tube is then inserted through the upper end of the box and revolved by its handle, the teeth thereon removing the grains from the cob. As the tube is revolved it is at the same time forced downward into the box as the grains are removed, the cob of the ear passing into the tube and the shelled corn passing out of an opening P made in the bottom of the lower end of the box. The cob can be readily removed from the tube, as the slots in the tube will allow it to be taken hold of and forced through its lower end; or, if the cob is small enough, it can be removed through the slots by pressing it laterally, as will readily be understood.

From the above description it will be seen that I have constructed a very cheap and simple sheller, and at the same time one which is very effective in its work.

Having thus described my invention, I claim—

1. In a corn-sheller, a box having an open end, projections or teeth at its opposite end which engage the end of the ear, and a tube having teeth at one end and an operating-handle at its opposite end which is inserted into the box and revolved, the parts combined substantially as specified.

2. In a corn-sheller, a box having an open end, teeth at its opposite end, a partially-open top, and a shelling-tube having teeth at its lower end and a handle at its upper end, the said tube adapted to enter the open end of the box, the parts combined substantially as shown.

3. In a corn-sheller, a box having an open

end, teeth at its opposite end, a movable cover, and a shelling-tube adapted to enter the open end of the box, combined substantially as specified.

4. In a corn-sheller, an inclined box, a supporting-base, teeth in the lower end of the box, an opening in the bottom of the lower end of the box, and a shelling-tube having teeth on its lower end, which is adapted to enter the open end of the box, combined substantially as specified.

5. In a corn-sheller, a box having teeth at one end, its opposite end open, a cover pivoted at its outer end to the end of the box having teeth, and a shelling-tube which is adapted to enter the open end of the box, combined substantially as shown.

6. A shelling-tube consisting of a tube having its lower end provided with teeth, its upper end provided with an operating-handle, and longitudinal slots between its ends, substantially as specified.

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

JOHN ANDREW ADAMS.

Witnesses:
J. H. SUBLETH,
CALLOWAY HOWARD.