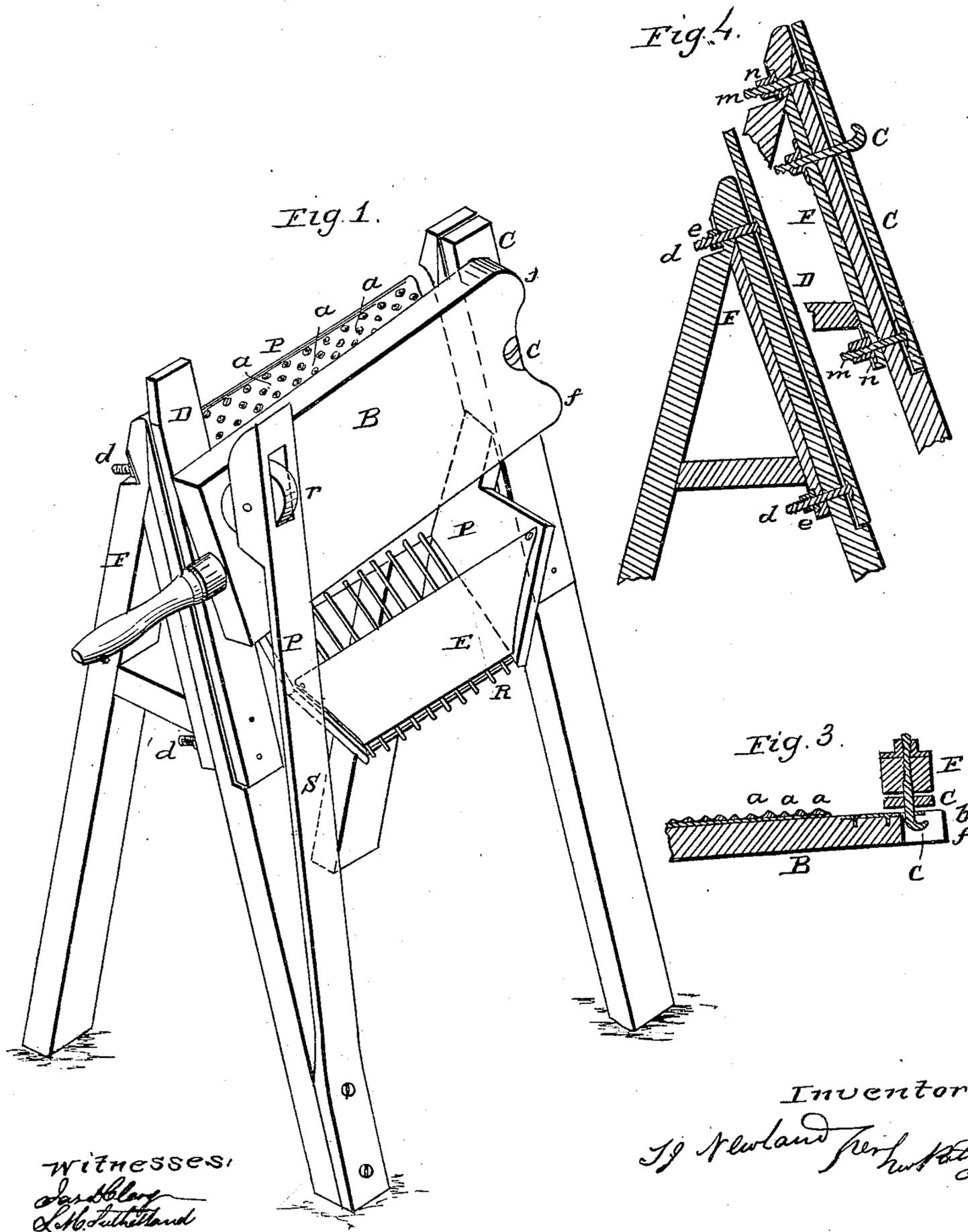


T. J. NEWLAND.

Corn Sheller.

No. 29,188.

Patented July 17, 1860.



Witnesses:
Carroll
L. M. Tuttleland

Inventor:
T. J. Newland per J. H. Patton atty

UNITED STATES PATENT OFFICE.

T. J. NEWLAND, OF WOLCOTT, VERMONT.

CORN-SHELLER.

Specification of Letters Patent No. 29,188, dated July 17, 1860.

To all whom it may concern:

Be it known that I, T. J. NEWLAND, of Wolcott, in the county of Lamoille and State of Vermont, have invented a new and useful
5 Improvement in Corn-Shellers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, forming part of this specification, in the
10 several figures of which similar characters of reference denote the same part.

Figure 1 is a perspective view of the machine. Fig. 2 is a section through pressure plate. Fig. 3 is a section through movable
15 plate and attachment thereof to the frame. Fig. 4 is a section showing adjustment of guide plate to the position of movable shelling plate.

This is an improvement in roughened
20 plate corn shellers, operated by hand. The invention consists in a certain combination of devices hereinafter to be set forth.

In the drawings F is the frame of the machine, angular and of rigid construction.
25 Between the legs of the front part of the frame is the stationary shelling plate P, filled with a system of pointed projections *a*.

The movable rubbing plate B is attached to the frame by an eye *b* near the end of the
30 plate, and a longitudinally adjustable hook *c* passing through the frame. The frame has also a guide piece C adjustable by means of two bolts *d* attached thereto passing through the frame, on which work nuts *e*
35 connected with the frame, so that by turning the nuts the piece C is made to approach or recede from the frame to follow up the adjustment of hook *c* by which the plate B is attached to the frame. The eye *b* being set
40 in from the end of the plate, the projecting portions *f* are able to bear upon plate C during the entire operation. This plate B is roughened by projecting points *a* upon its inner surface in the same manner as plate
45 P. The opposite side of the frame has an adjustable piece D against which the plate B bears during the operation. The adjustment is by means of bolts *m* and nuts *n* operating in the same manner as described
50 for plate or guide piece C.

Running up from the leg of the frame is a spring S in the head of which is a roller *r*

which bears against plate B as it is moved over plate P, and presses the ear of corn between the two. Below the plates is the
55 inclined separator R with side plates *p*, between which, in front, is hung the guard curtain E.

The shelled corn passes through the screen and the cobs roll off upon the ground under
60 the curtain, which prevents the grain from falling out to the front.

The adjustments are necessary to regulate the machine to the shelling of different sizes of corn ears, the bearing piece D being
65 adjusted to the proper position, and then the hook *c* is turned to bring it into position to keep the plate B the required distance from plate P. Guide piece C is then moved outward to receive the bearing of plate B
70 so that it may rest upon it during its movement. By this construction the plate B can be moved during the operation with precision, and without turning about its attachment as in other machines of this char-
75 acter. The spring S gives a regular pressure against the ear and greatly facilitates the operation.

The manner of using this machine is for the operator to grasp the handle of plate B
80 with his right hand, and elevate it, turning the plate about its attachment, then insert an ear between the plates in an inclined position, and bring down the plate under roller *r*. A single stroke removes all the
85 grain from the ear, and as the plate is elevated for the succeeding ear the cob is discharged. In this way the operation continues with great rapidity.

Having described my invention and the
90 operation thereof I claim—

The combination of the rigid angular frame with the stationary plate P, movable plate B, adjustable bearing piece D, adjustable guide piece C, adjustable hook *c*, eye
95 *b* in position described, spring S and roller *r* when these parts are arranged for joint operation as, and for the purpose set forth.

In testimony whereof I have hereunto signed my name before two witnesses.

T. J. NEWLAND.

Witnesses:

G. PATTEN,
JAS. D. CLARY.