A. R. HURST.

Corn Husker.

No. 16,924. Patented March 31, 1857.

Fig: 1.

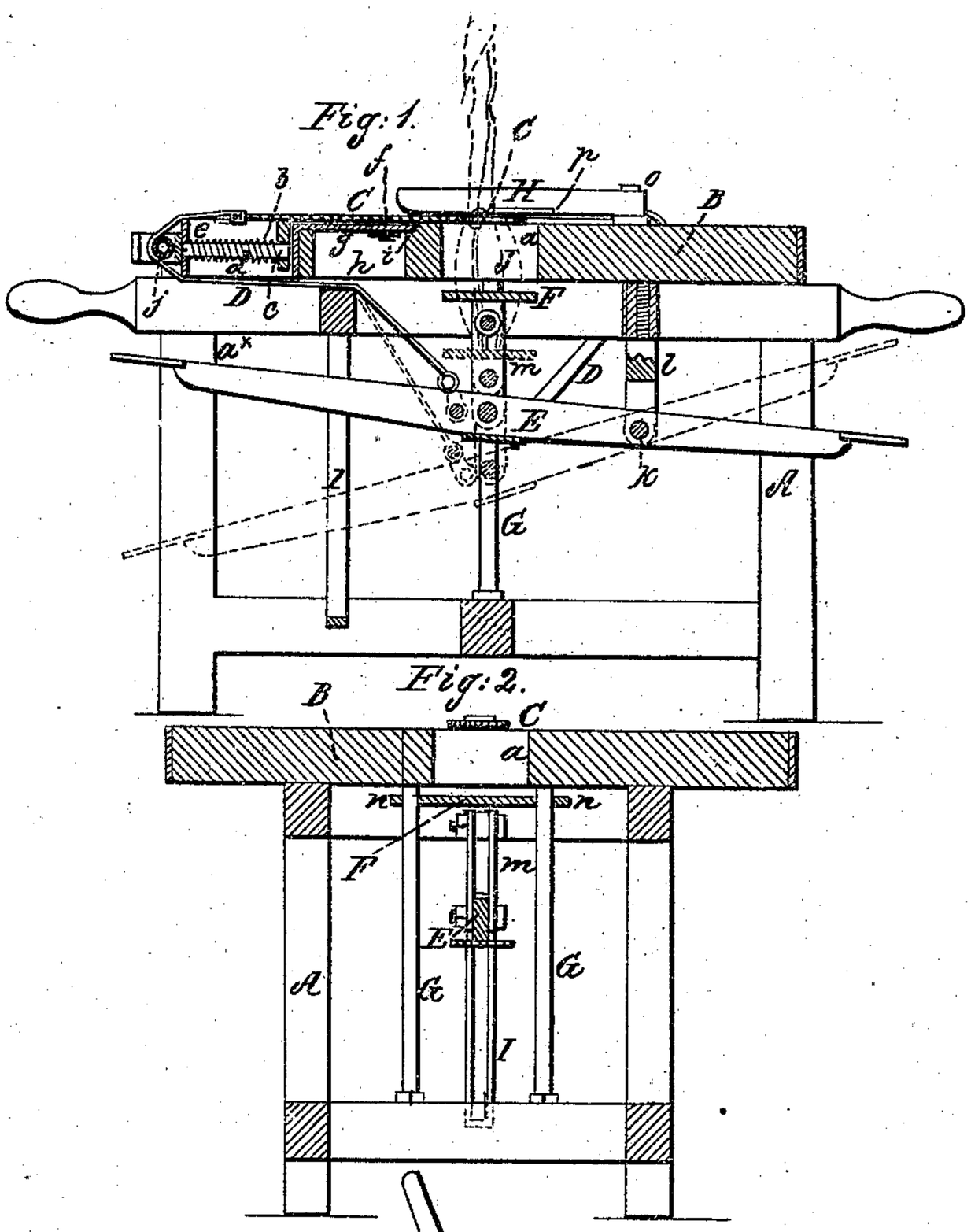
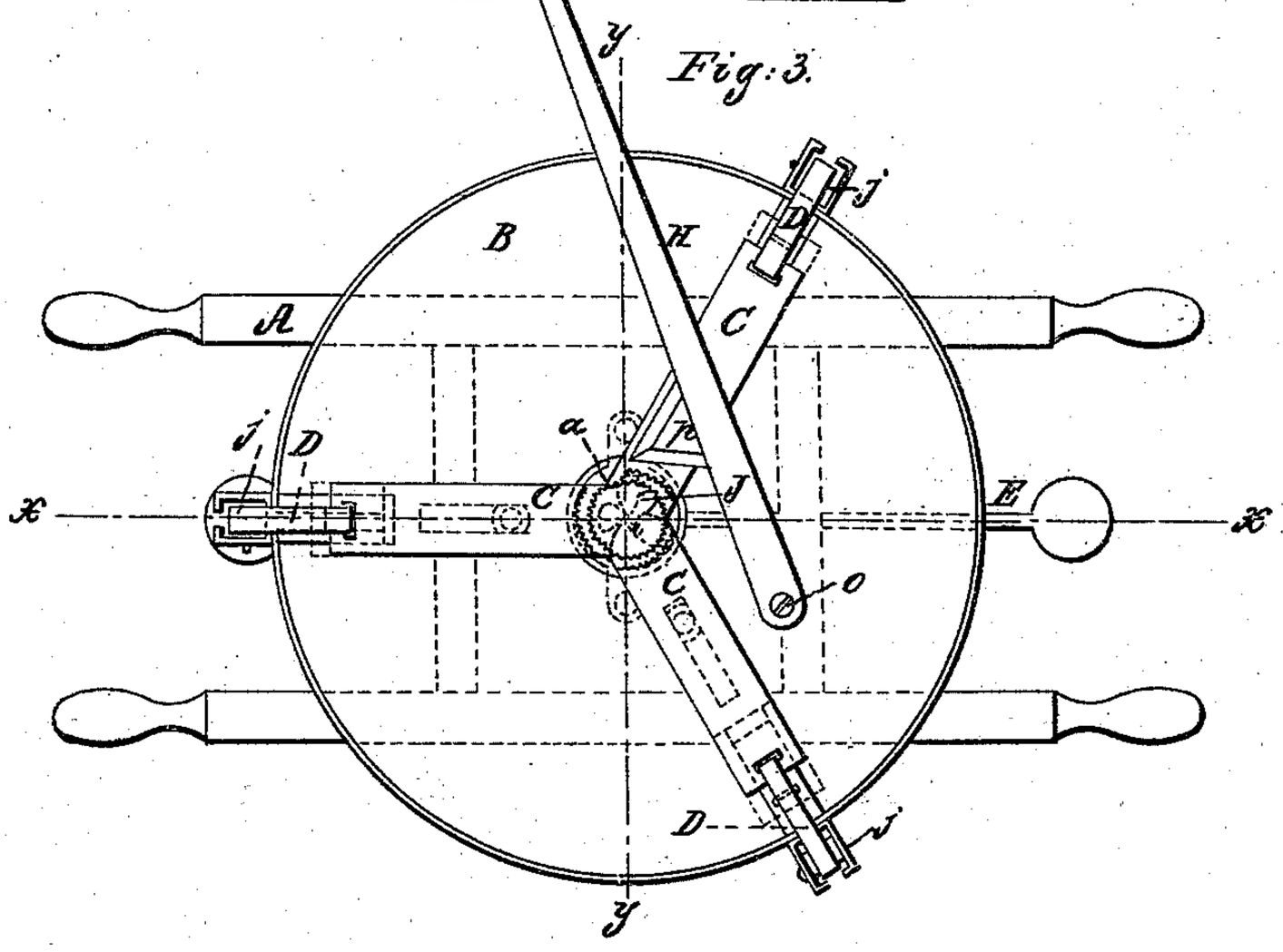


Fig: 2.

Fig: 3.



UNITED STATES PATENT OFFICE.

ABRM. R. HURST, OF NEW CUMBERLAND, PENNSYLVANIA.

MACHINE FOR HUSKING CORN.

Specification of Letters Patent No. 16,924, dated March 31, 1857.

To all whom it may concern:

Be it known that I, A. R. HURST, of New Cumberland, in the county of Cumberland and State of Pennsylvania, have invented a new and Improved Machine for Husking Corn; 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, making a part of this specification, in which—

Figure 1 is a vertical section of my improvement; (*x*), (*x*) Fig. 3, showing the plane of section. Fig. 2 is also a vertical section of ditto; (*y*), (*y*) Fig. 3, showing the plane of section. Fig. 3 is a plan or top view of ditto.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists in the employment or use of sliding jaws or plates placed upon a platform and, connected with a treadle having a plate or disk attached, the above parts being used in connection with a knife and so arranged and operating that the husks are stripped from the ears with the greatest facility and in a perfect manner.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a rectangular framing on the upper part of which a circular bed piece or platform B is placed. This bed piece or platform has a circular aperture (*a*) made through its center. On the bed piece or platform B three metal plates C, C, C, are placed, these plates are placed radially on the bed piece or, platform B. To the under side of each plate C, a pendent (*b*) is attached, and these pendents are perforated and work on rods (*c*) which are secured longitudinally in slots or openings (*d*) made through the bed piece or platform. The pendents and rods serve as guides to the plates C. Between the pendents (*b*) and the back ends of the slots (d) spiral springs (*e*) are placed, said springs being placed on the rods (*c*) one on each.

In Fig. 1 the inner ends of the plates C have rods (*f*) attached to their under sides, one to each, and these rods pass or work through slotted plates (*g*) placed over slots or openings (*h*) which are made in the bed piece or platform B, in line with the slots or openings (*d*). The lower ends of the rods (*f*) have nuts (*i*) fitted on them screw threads being cut on the rods. The rods (*f*) serve as guides for the inner ends of the plates C. To the outer end of each plate C, a strap D is attached. These straps pass over pulleys (*j*) which are attached to the periphery of the platform or bed piece B, and the lower ends of these straps are attached to a lever E below the bed piece or platform, the fulcrum pin (*k*) of this lever passes through a pendent (*l*) attached to the under side of the bed piece or platform B. The inner edges of the plates C, C, C, are made of concave form as shown clearly in Fig. 3, and the concave edges are serrated or toothed. The springs (*e*) have a tendency to keep the inner ends of the plates C thrown inward, so that their edges will be in contact and a circular opening be formed by them directly over the opening (*a*) in the bed piece or platform, the opening formed by the concave inner edges of the plates C, being somewhat smaller than the opening (*a*).

To the lever E, at about its center, a link (*m*) is attached, and the upper end of this link is pivoted to a circular plate or disk F. This plate or disk F has an ear or projection (*n*) at the opposite points of its edge or periphery, and these ears or projections have holes made through them and are fitted and work on vertical guide rods G, G, both of which are shown in Fig. 2. To the upper surface of the bed piece or platform B, a lever H is pivoted as shown at (*o*) and a triangular knife or cutter (*p*) is attached to the lever G at such a point or distance from its fulcrum that the knife or cutter will pass over the circular opening at the inner ends of the plates C, and also over the opening at the center of the platform or bed piece B. One end of the lever E works in a guide I.

The operation is as follows. One end (a^x) of the lever E is depressed by hand or foot as shown in red Fig. 1, and the plate or disk F is also depressed and the plates C, thrown back to allow the ears of corn designated by J, to be passed one at a time point downward through the opening (*a*) at the center of the bed piece or platform. The points of the ears resting upon the disk or plate F as shown clearly in red in Fig. 1. The disk or plate E is sufficiently depressed to allow the butt of the ear to be just below the inner ends of the plates C. When the

ear is thus placed the lever H is moved or operated by hand; and the knife (p) cuts off the butt or stick of the ear; the husks, by the cutting of the butt or stick, being detached from the ear; the lever E is then relieved from the pressure of the hand or foot which depressed it and the lever is brought back to its original position by the springs (e), the plates C being also thrown inward by the action of said springs and the inner ends of said plates grasp the ear J. The plate F and ear J is then forced upward by elevating the end (a^x) of the lever E, and as the inner ends of the plates C bear or press against the ear, completely encircling it, the husks of the ear are retained by the serrated or toothed edges of the plates C, while the ear is forced upward and perfectly freed from the husks.

It will be understood that the spiral springs (e) are sufficiently strong to press the inner ends of the plates C against the ear and retain the husks while the ear is forced upward on the bed piece or platform B.

The above machine will work rapidly; and there are no parts which can become choked or clogged so as to render the machine inoperative.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

The employment or use of the sliding jaws or plates C, lever E, and plate or disk F; the jaws or plates C being connected to the lever E by straps D, and the jaws or plates C placed or fitted on the bed piece or platform B; the above parts being arranged substantially as shown, and used in connection with the knife or cutter (p), for the purpose set forth.

ABRM. R. HURST.

Witnesses:
JNO. G. MILLER,
JOHN GURTNER.