A. HEULINGS.

Corn Harvester.

No. 16,921. Patented March 31, 1857.

FIG. 1.

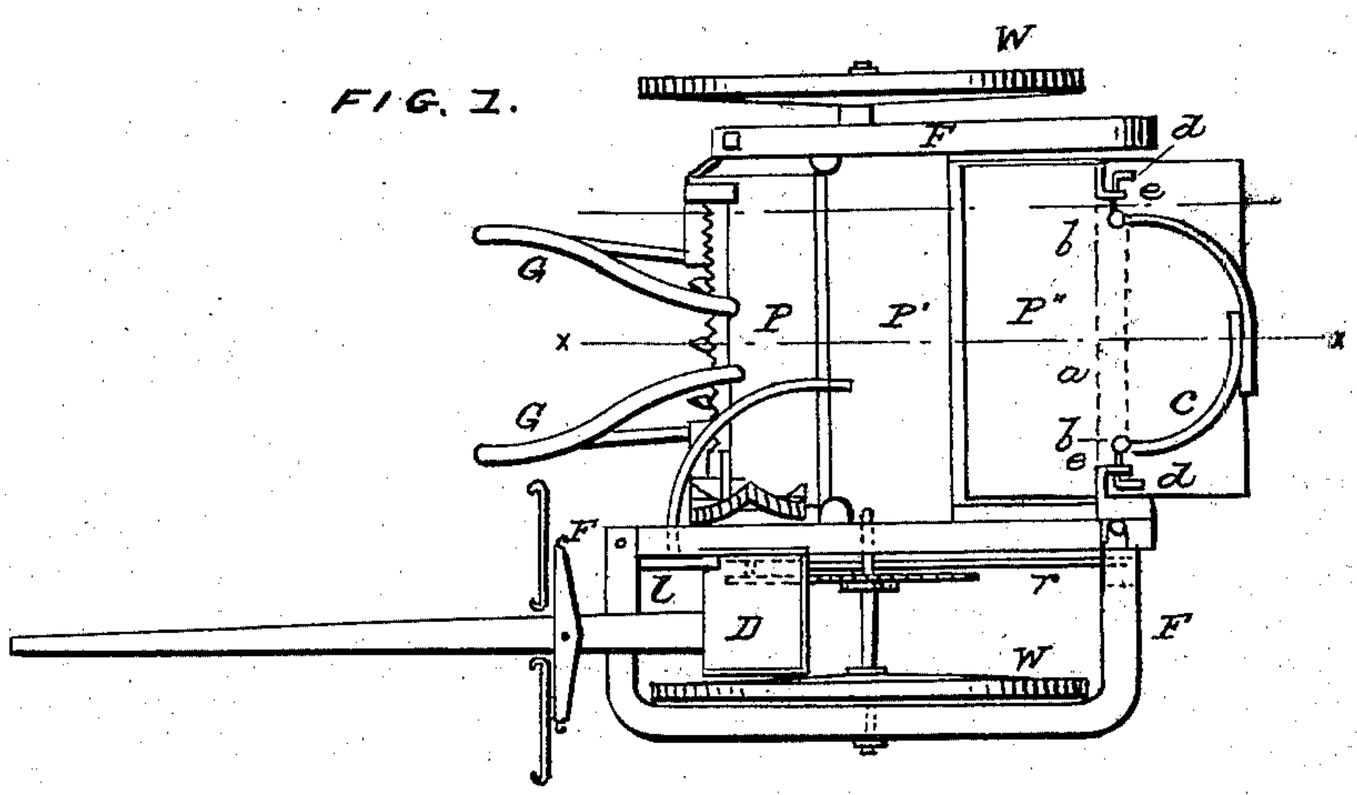


FIG. 3.

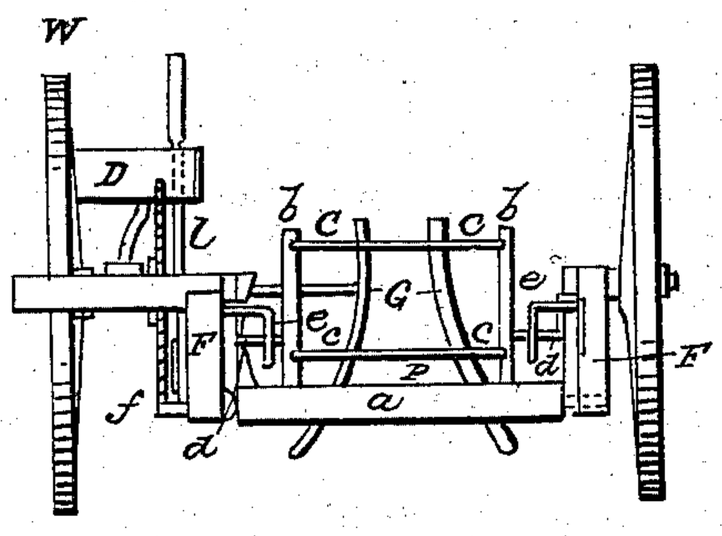


FIG. 2.

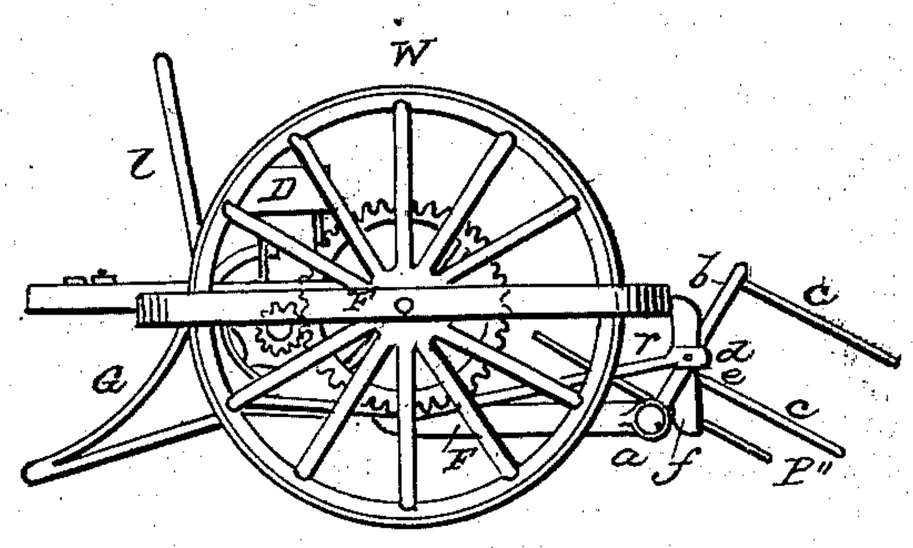
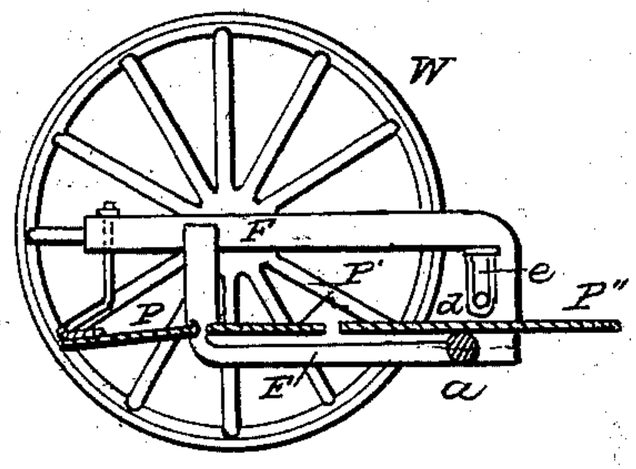


FIG. 4.



UNITED STATES PATENT OFFICE.

ABRAM HEULINGS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CORN-HARVESTERS.

Specification forming part of Letters Patent No. **16,921,** dated March 31, 1857.

To all whom it may concern:

Be it known that I, ABRAM HEULINGS, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Corn-Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, forming part of this specification, in which—

Figure 1 is a top view of the machine. Fig. 2 is a side elevation. Fig. 3 is a rear elevation. Fig. 4 is a vertical section on line *x x* of Fig. 1.

Similar characters of reference in the several figures denote the same part.

The object of my invention is the discharging of the cut product from the machine. Its nature consists in constructing the rear portion of the machine of a platform upon a horizontal shaft, and two confining-gates perpendicular to said platform, and so connected with the operating mechanism of the platform that the driver is enabled to turn the platform and move the gates at one and the same operation, the details of construction being as follows:

F is the frame, carried by wheels W.

K is the cutting-knife, upon an adjustable front platform, P.

G G are the guides by which the stalks are carried to the middle of the platform.

P′ is a fixed bed, and P″ the rear platform, secured to the rock-shaft *a*.

b b are the posts, and *c c* the bars, of the confining-gates. The posts *b* are attached to the platform P″, so as to be capable of turning on their axes when power is applied to the arms *d* of the said posts. These arms are embraced by the links *e*, swinging from the main frame F.

l is the operating-lever, *f* the arm of the shaft *a*, and *r* the rod connecting them.

D is the driver's seat.

The cornstalks are seized as soon as cut by a person standing on the fixed platform P′ and stood upon end against the securing-gates *b c*. When the tilting platform P″ is filled with the cut product the driver moves lever *l* into position of Fig. 2, causing the shaft *a* to turn and tilt platform P″. The turning of this platform causes the curved arms *d* of the posts *b* to press against the links *e* and produce a partial rotation of the said gate posts simultaneously with the tilting of the platform P″. This turning of the posts *b* effects the separation of the bars *c* and the load glides from off the machine. The driver then draws the long arm of lever Z toward him, and the platform P″ and gates are ready for the reception of another load.

What I claim, and desire to secure by Letters Patent, is—

The combination of the tilting platform P″, the gates *b c*, curved arms *d*, and swinging links *e* with the rock-shaft and its operating-lever and rod, when said parts are arranged for joint operation, substantially as described.

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

ABRAM HEULINGS.

Witnesses:

GEO. PATTEN,

JNO. B. CHAMPION.