

C. M. JENNE.
Wheel-Cultivator.

No. 44,729.

Patented Oct 18, 1864.

Fig. 1

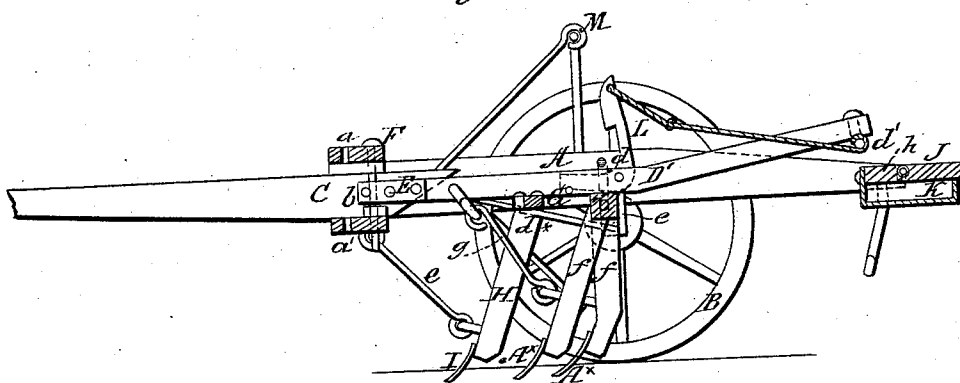
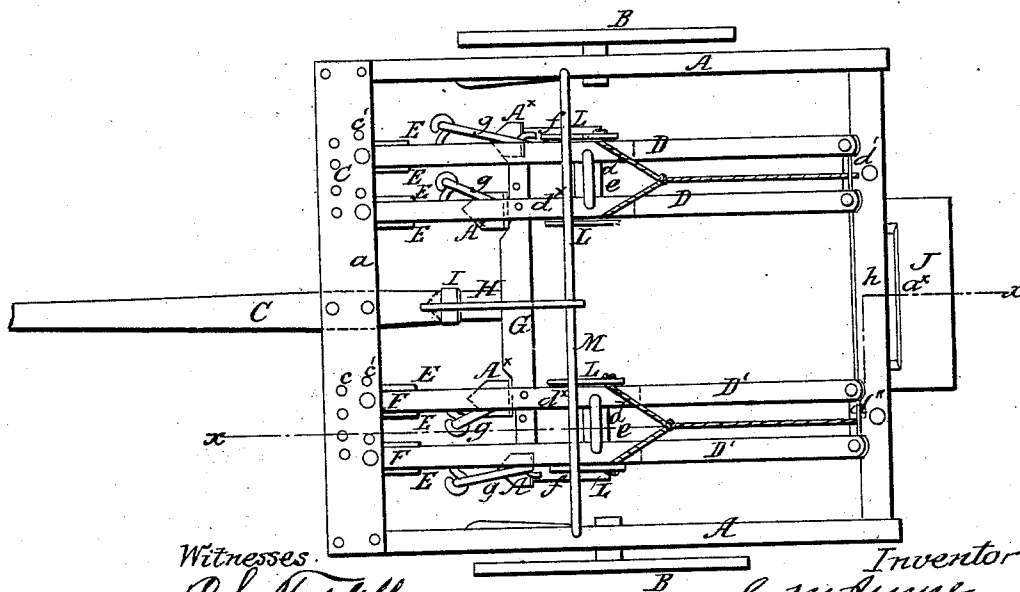


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

C. M. JENNE, OF YOUNG AMERICA, ILLINOIS.

IMPROVED CULTIVATOR.

Specification forming part of Letters Patent No. 41,729, dated October 18, 1864.

To all whom it may concern:

Be it known that I, C. M. JENNE, of Young America, in the county of Warren and State of Illinois, have invented a new and Improved Cultivator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved cultivator for plowing and cultivating crops—such as are grown in hills or drills—or plowing-in grain sown broadcast—such as oats, wheat, &c.

A represents a rectangular frame, which is mounted on two wheels, B B, and has its front end composed of two cross-bars, *a a'*, one directly above the other, with a draft-pole, C, secured between them.

DD, D'D' represent two pairs of plow-beams, the front ends of which have metal straps or plates E attached to them, one at each side, with a horizontal pin, *b*, passing through their front parts, and between the straps or plates of each beam a vertical rod, F, passes. These rods also pass through the cross-bars *a a'*, and two series of holes, *c c'*, are made for them, one series being directly in front of the other, as shown in both figures. The beams DD, D'D' of each pair are connected by rods *d d'*, the former being about at their centers and the latter near their back ends. The rods *d* have their ends bent downward and pass into the beams, one end passing entirely through the inner beam of each pair and through a bar, *e*, to which the upper ends of the plow-standards *f* are attached. By this arrangement it will be seen that a pivoted connection is obtained for the bars *e*. The rods *d'* have their ends bent so as to pass upward into the under sides of the beams. The standards *f* are braced by rods *g* from the plow-beams, said rods having a link-connection at each end, as shown in Fig. 1.

From the above description it will be seen that the plows A^x of the standards *f* may be adjusted laterally either to the right or left without

being thrown into an oblique position relatively with the line of draft; and this is an important feature, as the plows, if canted or turned obliquely, will not cast or throw the earth as desired. The plows, in order to operate well, should always have their faces at right angles to the line of draft. By means of having the front ends of the beams connected to the front end of the frame A, as shown, either plow of each pair of beams may be adjusted in advance of the other by placing the rod F of the beam to be advanced in one of the front series of holes, *c*, while the rod F of the other beam is in one of the rear series of holes. By this arrangement the plows may be made to cast the earth toward or from the plants, as may be desired. The two pairs of beams may be adjusted nearer together or farther apart, as required, by placing the rods F in holes *c* or *c'* more or less to right or left.

G represents a bar, the ends of which are connected by pivots *d^x* to the inner beam of each pair, and to the center of the bar G there is attached a standard, H, having a plow, I, at its lower end, the standard H being braced by a rod, *e*, from the lower cross-bar, *a'*. By this arrangement it will be seen that the plow I, like A^x, will always be retained with its face at right angles to the line of draft.

J is the driver's seat, connected by hinge *a^x* (one or more) to the upper end of box K, which is secured to the center of the back cross-bar, *h*, of the frame A. This box K serves as a receptacle for tools necessary to be used about the machine.

I would remark that in order to elevate the plows above the surface of the ground and retain them in that position, catches L are attached to the plow-beams to hook over or engage with a rod, M, on the framing.

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

The securing of the plow I to the device by having its standards H attached to a bar, G, which is connected to the inner beams of each pair by pivots *d^x*, substantially as and for the purpose specified.

C. M. JENNE.

Witnesses:

W. G. JENNE,
O. JENNE.