

Cultivator.

Patented March 7, 1865.

Fig. 1.

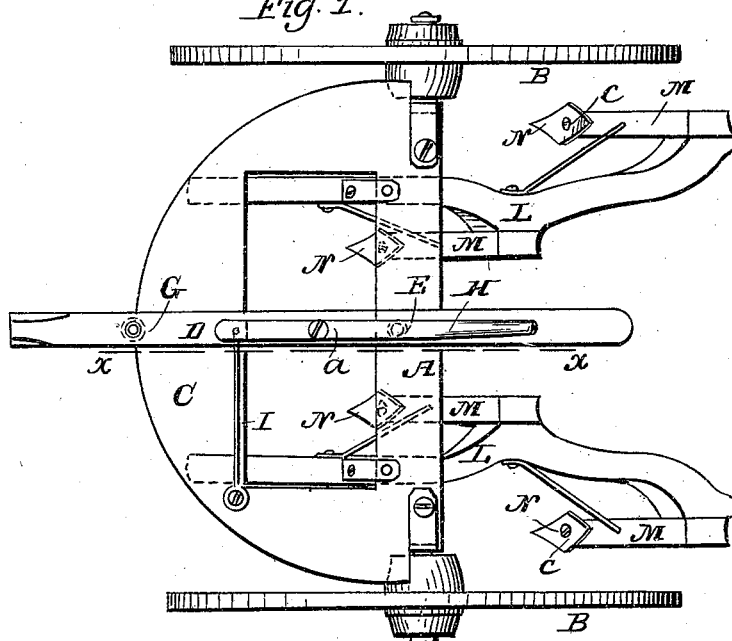
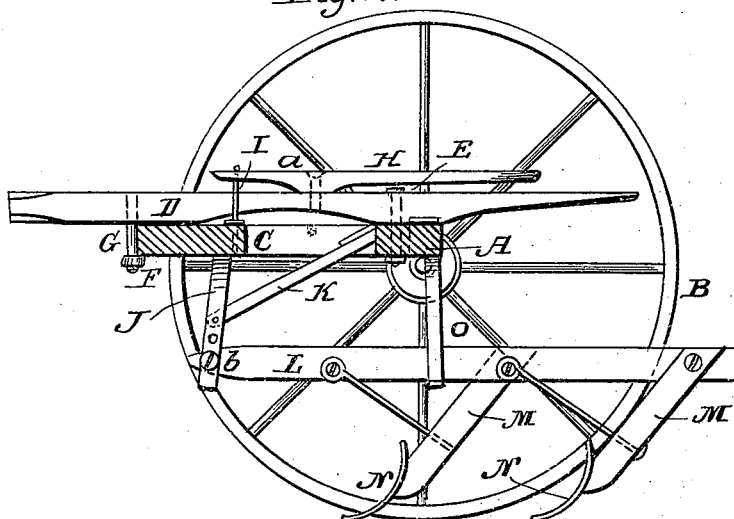


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

LORENZO D. HAUGHEY, OF ATLANTA, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 46,666, dated March 7, 1865.

To all whom it may concern:

Be it known that I, L. D. HAUGHEY, of Atlanta, in the county of Logan 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 those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

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

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved cultivator for cultivating or plowing corn and other crops which are grown in hills or drills; and it consists in a pivoted axle and a novel construction and arrangement of other parts, as hereinafter fully set forth, whereby it is believed that several advantages are obtained over other devices for the purpose specified.

A represents an axle, having a wheel, B, at each end of it, and a semicircular frame, C, at its front side.

D represents a draft-pole, which is attached by a pivot-bolt, E, centrally to the axle A, the bolt E being at the center of a circle of which the frame C is a half. (See Fig. 1.) The front or outer edge of the semicircular frame C and the draft-pole D are connected by a friction-roller, F, and a rod or bolt, G, the former being on the rod or bolt and the latter being secured to the draft-pole, the front edge of frame C bearing on roller F, as shown clearly in Fig. 2. By this arrangement a free lateral play is allowed the frame C while the latter is kept up to the draft-pole. On the draft-pole D there is secured by a fulcrum pin or bolt, *a*, a lever, H, the front end of which is connected by a rod, I, with the frame C.

J J represent two pendants or hangers, which are attached to the under side of the front part of the frame C, and are braced by rods K. In these pendants or hangers the front ends of plow-beams L L are secured by pivot-bolts *b*. These plow-beams are each provided with two standards, M M, to which plows N are attached. The plow-beams L L pass through hangers O O, which are attached to the under side of the axle A and retain the plow-beams in proper position or at a suitable height.

The plows N are of diamond or lozenge shape, and they are attached to the standards M by a pivot-bolt, *c*, the latter passing through the centers of the plows. This arrangement admits of the plows being turned or reversed, so that when one point is worn the other may be used. By actuating the lever H it will be seen that the plows, on account of the axle A being pivoted to the draft-pole, will be moved or adjusted laterally, so as to conform to the sinuosities of the rows of plants.

The machine is extremely simple and efficient, may be constructed at a small cost, and manipulated with the greatest facility.

I claim as new and desire to secure by Letters Patent—

1. The pivoting of the axle A to the draft-pole D to admit of the lateral movement or adjustment of the plows, as set forth.
2. The semicircular frame C, attached to the front side of the axle, in connection with the friction-roller F and bolt or rod G, attached to the draft-pole D, substantially as and for the purpose specified.

LORENZO D. HAUGHEY.

Witnesses:

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