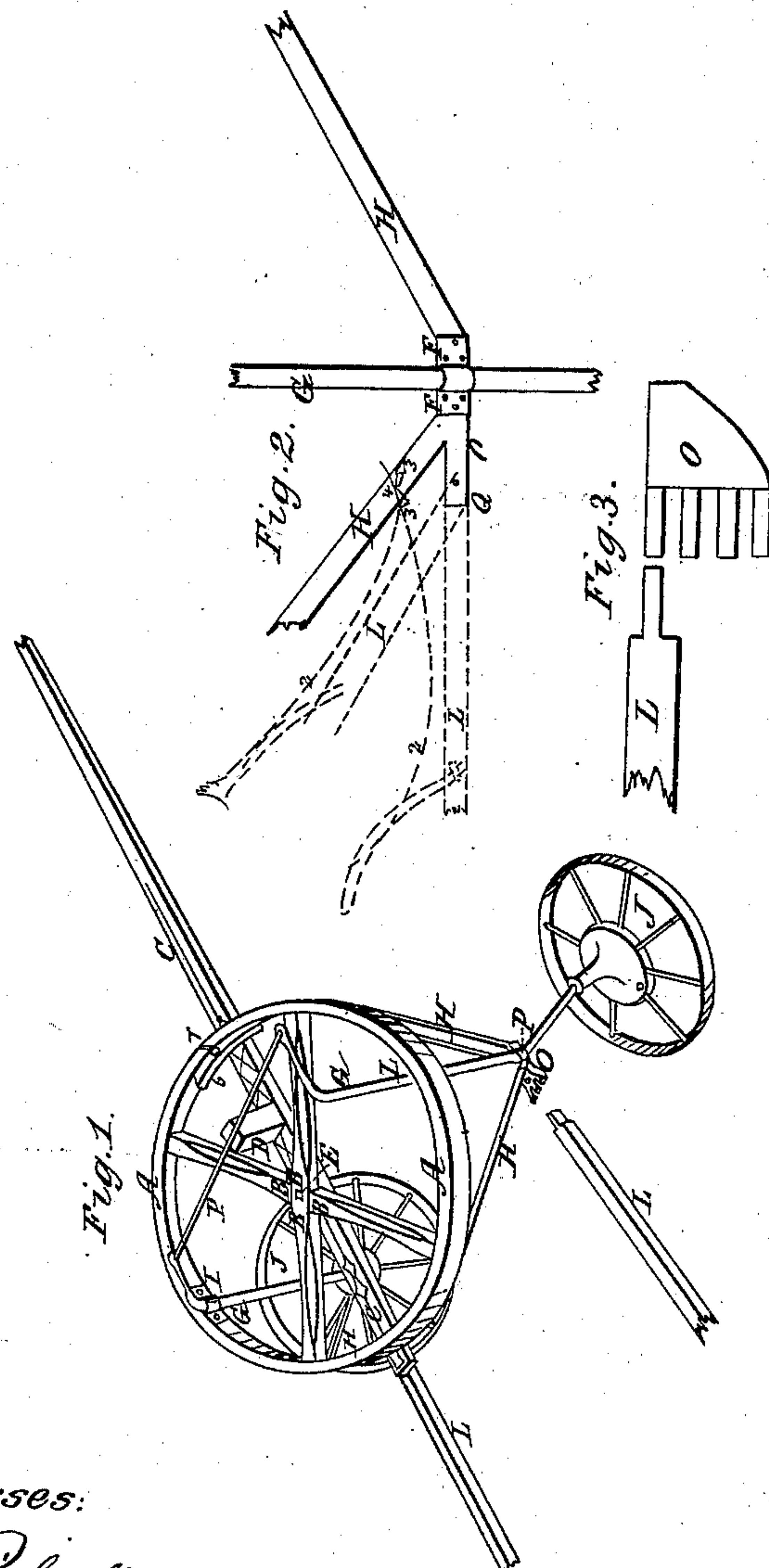


T. E. ELLETT.
Wheel-Cultivator.

No. 56,022.

Patented July 3, 1866.



Witnesses:
W. J. Richards.
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Inventor:
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UNITED STATES PATENT OFFICE.

THOMAS E. ELLETT, OF MONMOUTH, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 56,022, dated July 3, 1866.

To all whom it may concern:

Be it known that I, THOS. E. ELLETT, of the city of Monmouth, in the county of Warren and State of Illinois, have invented a new and useful Machine for Cultivating Corn; 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, making a part of this specification, in which—

Figure 1 is a perspective view with the right-hand wheel off. Fig. 2 is a longitudinal section, and Fig. 3 a plan of the clevis at O, Fig. 1.

The nature of my invention consists in providing means of attaching two double-shovel plows of any ordinary pattern in the manner as follows, for the purpose of cultivating corn.

In Fig. 1 will be seen a horizontal wheel, A, cross-bars B B, with the cast bars H H attached, the bars H H and clevis O being cast in one solid piece. The two bars L L represent the beams of two double-shovel plows.

G G represent two crank-shaped axles, connected at the top by the rod P, connected with the tongue by the block D, connected with the bars H H by boxing F, supporting the wheel A by boxing F and I and the wheels J J by boxing F.

In Fig. 2 will be seen rod 2 for elevating beam.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my plows in any of the known forms, with metal tenon at the end of beam L, Fig. 3. This tenon fits into notches in O, Fig. 1, and by placing in different notches the width of the plows apart can be regulated. When the tenon is in the notch and a horizontal pin inserted, Q, Fig. 2, the joint will be stiff laterally, but movable vertically. The side motion is obtained by the wheel A and bars H H moving with the plow-beams.

The boxes F F are bolted onto the bars H H, and support the wheel A and bars H H in a manner to admit of their having a side movement.

The tongue is connected with the wheel A, Fig. 1, by bolt z in center and sliding bolt 7 in front, and guard under wheel in rear, admitting side movement of tongue on center bolt, z, when the nut on pin 7 is loose. This

pin can be tightened and tongue stiffened when moving machine from place to place.

The tongue is connected with the bar P by block D, keeping it always parallel with the wheels J J.

The operation of the side movement is such that in plowing on hill-sides a slight inclination of the plow handles or beams up the hill will give the wheels J J an angle to the corn-row that will incline the whole machine to keep its place in the rows without that hard pushing by the plowman, and without the horses having to be kept treading on the rows next above them. This side movement, too, will enable the plows to be kept in the ground until they reach the end of ordinary rows by allowing the pin 7, Fig. 1, in the tongue to slide to left or right side of guard 6, thus keeping the plows nearly straight ahead, while the horses partly turn. By this side movement, too, the plows can readily be turned from hills of corn out of line.

The rod 2, Fig. 2, is used to elevate and support the plows when moving from place to place. By merely raising the beam the catch 3, Fig. 2, will slip over the staple 4 and hold the plows up. To lower them it is only necessary to press the rod to the handle-hold. This will release the catch and let the plows down.

The bars H H and clevis O, Fig. 1, are cast in one solid piece. The axle is supported on the bars H H by the same kind of boxing attaching axle to wheel A.

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

1. The combination of wheel A, bar P, and axles G G, with the ends at right angles, for the purpose and substantially as described.

2. The attachment of tongue with side movement, substantially as described.

3. The bars H H for supporting axle-boxes F and clevis O, substantially as and for the purpose described.

4. The rod 2, for the purpose described.

5. The combination of the axle G, bars H H, wheel A, and tongue, in a manner to produce side movement, for the purpose and substantially as described.

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Witnesses:

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