

Patented July 23. 1861.

Thos. H. Dodge

UNITED STATES PATENT OFFICE.

NATHAN CARR, JR., AND JOHN CARR, OF MONMOUTH, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 32,858, dated July 23, 1861.

To all whom it may concern:

Be it known that we, N. CARR, Jr., and J. CARR both of Monmouth, in the county of Warren and State of Illinois, have invented certain new and useful Improvements in Cultivators; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 represents a perspective view of our machine, one of the beams to which the teeth or plows are attached being shown in red lines in one position, which it can be made to assume to pass obstructions, or an irregular hill of corn or other plant. Fig. 2 represents a front view, in which the leading and supporting wheels are shown turned to avoid obstructions or hills.

In the accompanying drawings, A represents a metallic bow, to the top of which the tongue B is rigidly fastened.

C C are the beams to which the plows or cultivator-shanks D D are fastened, and also braced by rods a, as shown. To the bottom of said shanks are fastened in any convenient manner the teeth or plows E. Each beam C is usually provided with two shanks and teeth or plows, as seen in the drawings.

F F are the handles by which the plows are guided.

The front ends of beams C C are hinged to the enlarged parts G G, so that their rear ends can be freely raised, as indicated in red lines, Fig. 1.

Bow A is supported by two caster-wheels, H H, so arranged on its ends as to be at liberty to turn around.

I is the evener, hinged in the center to the

tongue B, and to which the team is to be attached.

By our machine the team can straddle a row, the bow A enabling the frame to clear the tops of the young plants, whereby three rows can be completed by passing twice across the field.

The mode of supporting bow A is also such that irregular hills can be passed with safety, since either swivel-wheel can be turned by the hill by an attendant, who can also lift the plow-beams for a like or similar purpose. Tongue B is braced by rods b b.

In the construction of our machine, we have aimed to produce a cheap, convenient, and yet have a good serviceable one. The bow A, which answers as the frame, can be made very cheap, and is not liable to get out of order. It is light, and yet the combination of the other parts with it is such as to render the machine strong and durable.

Having described our machine, what we claim as our invention, and desire to secure by Letters Patent, is—

1. Making the frame in the form of a bow, in combination with supporting it by caster-wheels H H, as shown and described.

2. In combination with said bow A and caster-wheels H H, the hinged plow-beams C C and tongue B, arranged in relation to each other as shown and described.

In witness whereof we have hereunto subscribed our names.

NATHAN CARR, JR.
JOHN CARR.

In presence of—

RICHARD WAGSTAFF,
HENRY M. ZINK.