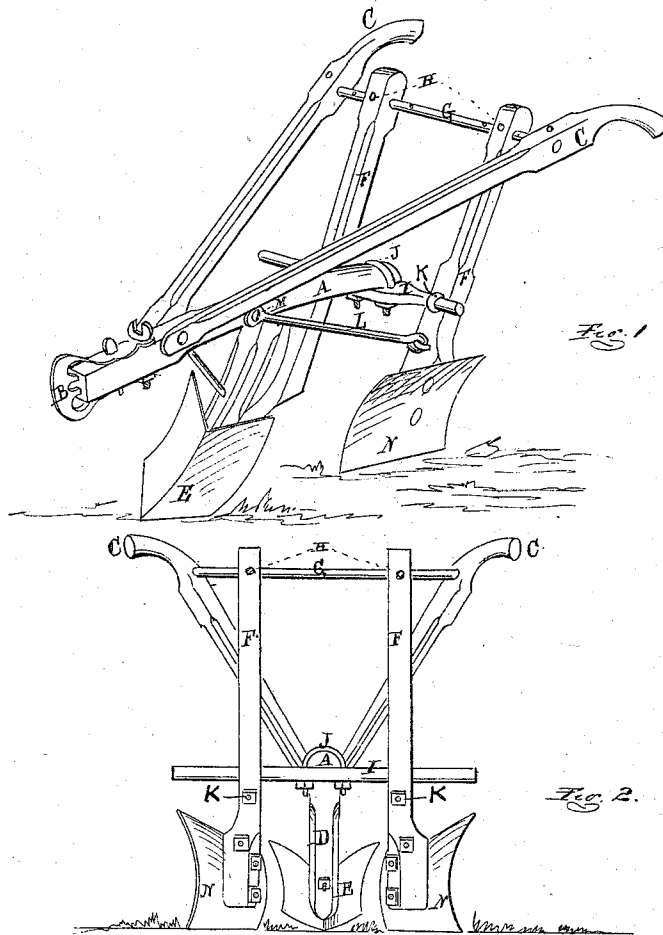


I. EMRICK.
Corn-Cultivators.

No. 135,414.

Patented Feb. 4, 1873.



ATTEST:

H. F. Everts.
H. S. Sprague

INVENTOR:

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UNITED STATES PATENT OFFICE.

IRA EMRICK, OF VERNON, MICHIGAN.

IMPROVEMENT IN CORN-CULTIVATORS.

Specification forming part of Letters Patent No. 135,414, dated February 4, 1873.

To all whom it may concern:

Be it known that I, IRA EMRICK, of Vernon, in the county of Shiawassee and State of Michigan, have invented a new and useful Improvement in Adjustable and Reversible Corn-Cultivator; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of my improved implement. Fig. 2 is a rear elevation.

Like letters refer to like parts in each figure.

The nature of this invention relates to a corn-cultivator, so arranged that it may be adjusted to varying distances between rows, and that it may be reversed so to throw the earth away from or toward the hills, as desired. The invention consists in the arrangement of the devices by which the adjustability and reversibility of the implement are secured.

In the accompanying drawing, A represents a beam, to which is secured the clevis B and the guiding-handles C. D is a standard, secured rigidly to the beam A, as shown, and to the bottom of this standard is secured the double mold-board E, of the form shown, to turn the earth both ways from the point. F are other standards, the upper ends of which are sleeved on the cross-brace G in such a manner that they may be adjusted laterally on said brace, and held at any desired point by means of the set-screws or bolts H. This cross-brace G is secured to the handles in such a manner that it may be easily removed. I is a yoke, secured at the center of its length to the rear end of the beam A by means of the

clamp J. The outer ends of this yoke pass through eye-bolts K, by means of which the standards F are secured to said yoke. L are braces, by means of which the standards derive their draft from the beam, to which the forward ends of these braces are secured by the bolt M. To the bottom ends of these standards F are secured the single mold-boards N, of the shape shown in the drawing, and which should be rigidly fastened to said standards.

To adjust this implement to varying widths, the bolts H and the eyebolts K should be loosened and the standards F moved outwardly or inwardly, as may be desired, when the bolts should be tightened.

To reverse the position of the standards F with their accompanying mold-boards from the position shown in the drawing, so as to throw the earth away from the rows, the bolt M should be withdrawn, thereby releasing the forward ends of the braces L. Then loosen the bolts H and eyebolts K, and remove the cross-brace G; then slide the standards off from the yoke I and the cross-brace G, and reverse said standards in their positions, and secure them in place by reversing the operations just described.

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

The described method of securing the standards and beams together by means of the cross-bar I, eyebolt K, and staple J, as and for the purpose set forth.

IRA EMRICK.

Witnesses:

THOS. S. SPRAGUE,
H. F. EBERTS.