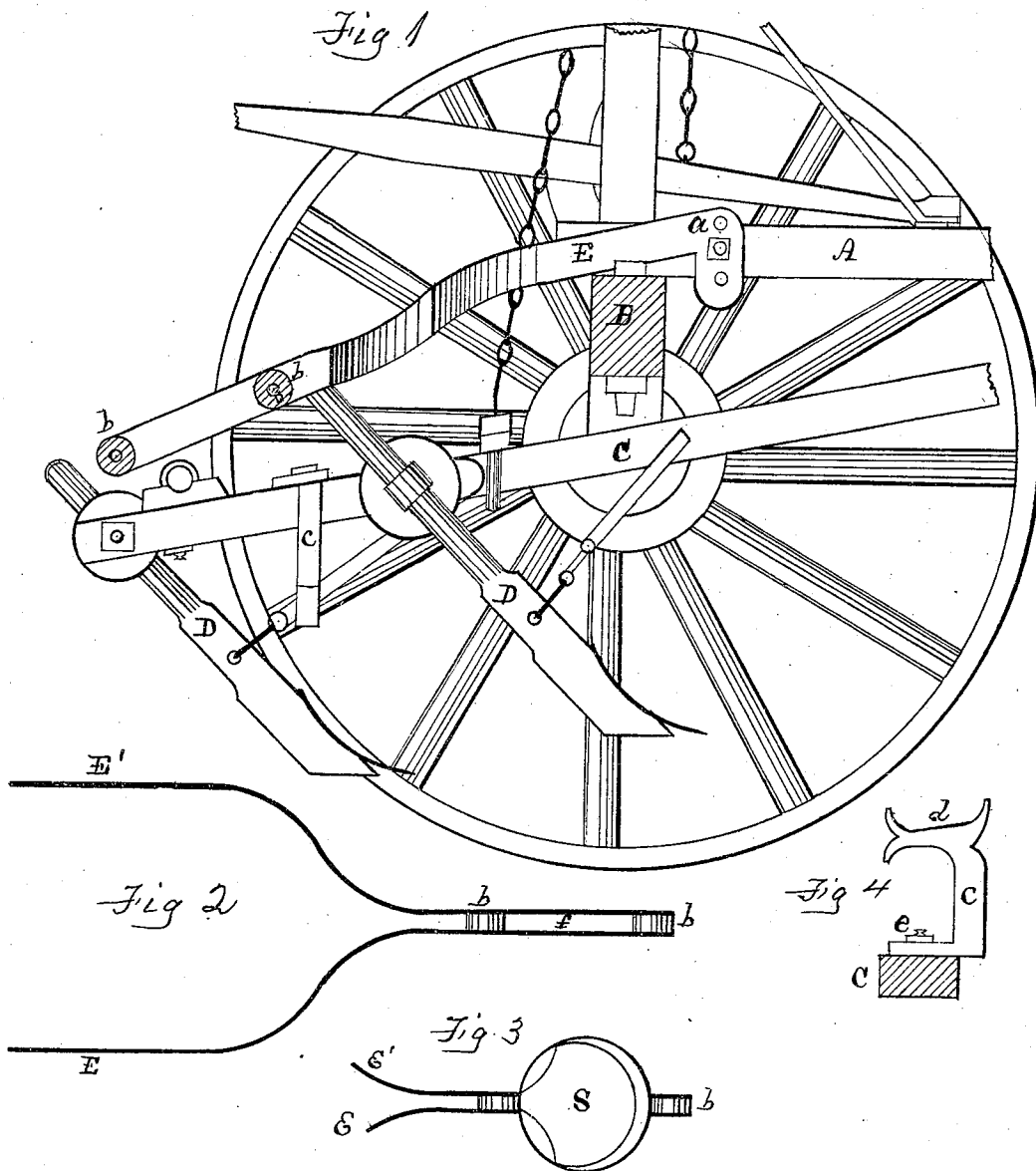


W. W. MARSH & H. McINTYRE.

Wheel-Cultivator.

No. 128,969.

Patented July 16, 1872.



WITNESSES:
Ezra P. Webster
J. P. Easter

INVENTORS:
Wm W. Marsh
Harrison McIntyre
By West & Bond
Atty

UNITED STATES PATENT OFFICE.

WILLIAM W. MARSH AND HARRISON McINTYRE, OF SYCAMORE, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 128,969, dated July 16, 1872.

SPECIFICATION.

We, WILLIAM W. MARSH and HARRISON McINTYRE, of Sycamore, in the county of De Kalb and State of Illinois, have invented certain new and useful Improvements in Cultivators, of which the following is a full description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a vertical central section; Fig. 2, a top view of the bars which support the driver's seat, with the seat removed; Fig. 3, a detail, showing the seat; Fig. 4, an elevation of the foot-rest.

Our invention relates to mounted cultivators; and consists in certain devices by means of which the foot-rests can be adjusted as may be required in cultivating corn in different stages of its growth.

In the drawing, A is one-half of the tongue; B, the axle; C, one of the plow-beams; and D D, standards to which the shovels are attached; all of which parts are made in any suitable manner. We use a split tongue, or a tongue made of two bars brought together at their forward ends. E E' are two bars, upon the rear end of which the seat S is supported. The bar E is provided with a series of holes, *a*, and is secured to A; the other bar is similar to E, and is secured to the other part of the tongue. The outer ends of the two bars E E' are brought near together, leaving a space, *f*, between them, as represented in Fig. 2. The seat is held in place by means of a bolt and nut, and the seat can be moved forward or back, as may be necessary to balance the machine. By means of the holes *a* the bars E E' can be adjusted in different positions. *c* is a foot-rest, which, as shown in Fig. 1, is secured to the top of the beam C, the part

d being below the beam. The driver's seat can be placed in a lower position than shown, and the foot-rest *c* can be bolted to the under side of the beam C; or the driver's seat can be elevated and the foot-rest placed upon the top of the beam in the position shown in Fig. 4; or the rest might be secured to the under side of the beam, its position remaining the same as in this Fig. 4. We thus furnish not less than four adjustments for the foot-rests *c*, and when this rest is in the position shown in Fig. 4 the foot of the driver can be placed either at the part *d* or at the part *e*. The bars E E' and the foot-rests each being secured in place by a bolt, the required adjustments can be easily made.

By the use of these devices, when the corn is first cultivated the seat of the driver can be so adjusted that his feet will be very near the ground, so that either by the use of his feet or with his hands he can remove earth from plants, if necessary; at the same time the foot-rests can be correspondingly lowered, so that the operator can move the beams laterally with his feet.

The seat and foot-rests can be elevated from time to time, as required in different stages of the growth of the corn.

As represented, the bars E E' are curved downward, so that by turning them over the seat will be elevated.

What we claim as new is as follows:

The adjustable foot-rests *c*, when constructed and attached to the plow-beams substantially as and for the purposes specified.

WILLIAM W. MARSH.
HARRISON McINTYRE.

Witnesses:

R. L. DIVINE,
A. C. COLTON.