E. B. MOORE.

CULTIVATOR.

No. 170,882. Patented Dec. 7, 1875.

Fig. 1.

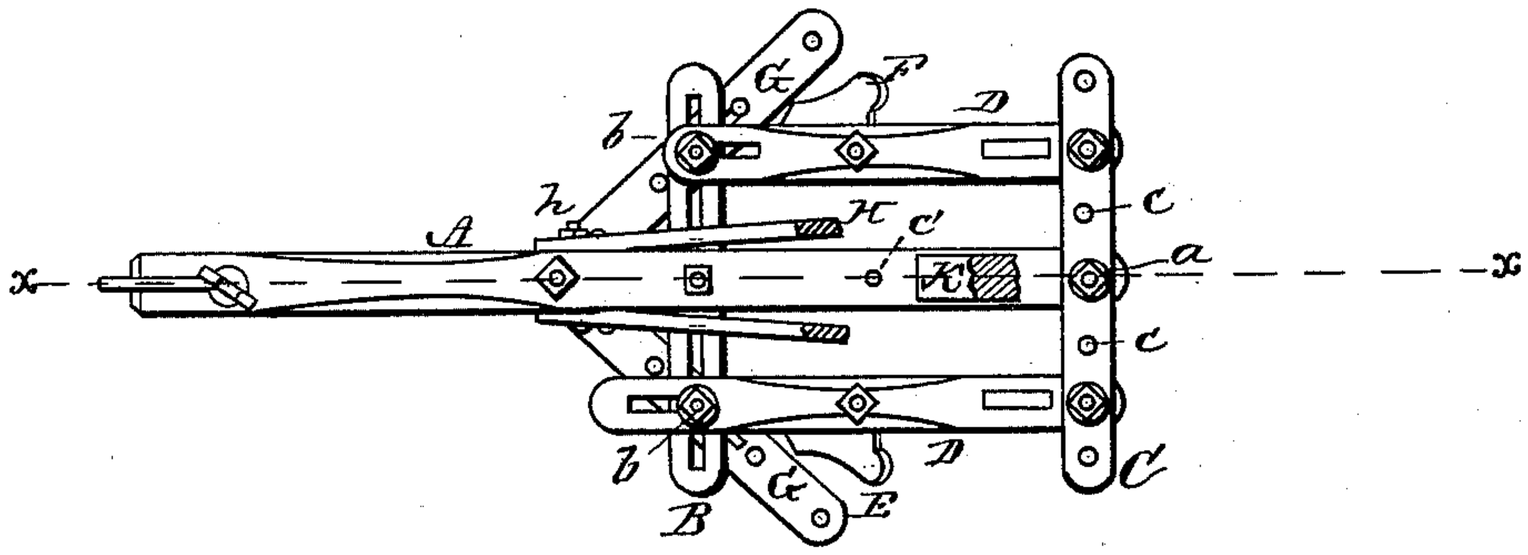


Fig. 2.

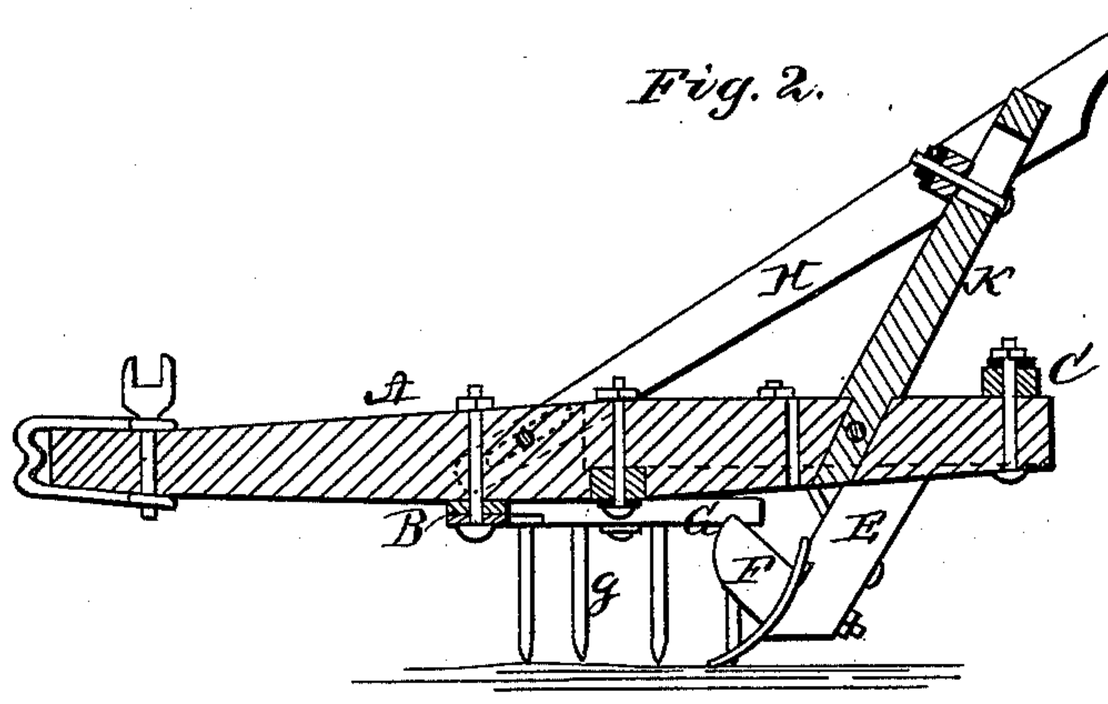
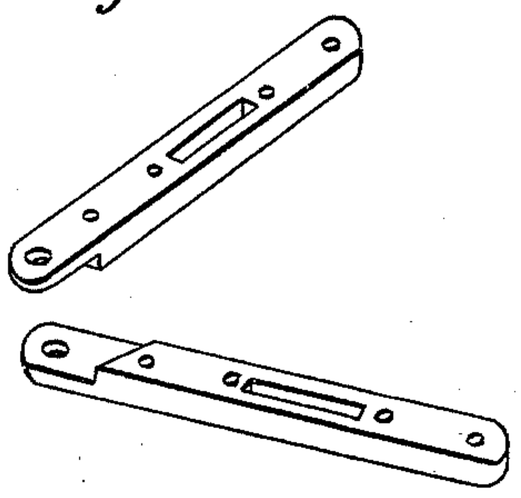


Fig. 3



WITNESSES

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UNITED STATES PATENT OFFICE.

ENOS B. MOORE, OF BELL'S MILLS, ALABAMA.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **170,882**, dated December 7, 1875; application filed August 20, 1875.

To all whom it may concern:

Be it known that I, ENOS B. MOORE, of Bell's Mills, in the county of Cleburne and in the State of Alabama, have invented certain new and useful Improvements in Cultivators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a cultivator, as will be hereinafter more fully set forth.

In the drawings, Figure 1 represents a top view of my improved cultivator; Fig. 2, a longitudinal section through the same; and Fig. 3, a detached view of the tooth-bars of the harrow.

The letter A represents the main beam of the harrow, consisting of a straight beam of wood, metal, or other suitable material, with the usual devices for hitching in front. B represents a stationary cross-beam, secured rigidly to the under side of the main beam, about midway between its two ends. C represents an adjustable cross-beam, attached to the upper side of the rear end of the main beam A. The cross-beam B is slotted at each end, for the purpose to be presently explained, and the cross-beam C is provided with a series of apertures, *c*, at equidistant points along its length, by means of which it may be shifted laterally, and secured at different places to the main beam, being fastened thereon by means of the bolt and nut *a*. D D represent two short beams, to the under side of which are secured the share-feet E E, said bars being pivoted at their rear ends to the adjustable cross-bar C, and slotted at their front ends, and secured to the stationary cross-bar B by means of screw-bolts *b b*. One of the bars D D is slightly longer than the other, which allows the two to be shifted, so as to set one of the shares in advance of the other when required, the cross-beam C swinging on its bolt for the purpose.

By means of the slots in the stationary cross-bar B the beams D D may be shifted laterally, thus regulating the distance between the plowshares, the rear ends swinging on their bolts, or being detached and secured through the apertures at either side in the rear cross-beam C, as may be desired. F F represent the plowshares, secured to the share-feet E E, and may be of any class or shape.

The letters G G represent the bars which support the harrow-teeth. They may be constructed of wood, metal, or other material, and are provided with a series of downward-projecting teeth, *g'*. Said bars are cut away in front, as shown in Fig. 3, and are attached to the main beam A by means of a screw-bolt, *a*. Said bars are slotted longitudinally about midway between their ends, and are secured to the cross-beam B by means of the bolts which fasten the beams D D to the same. This allows the said harrow-bars to be adjusted relatively to each other, as will be perceived.

Midway between the two cross-bars B and C an aperture, *c'*, is formed through the main beam A, by means of which both or either of the harrow-bars may be reversed, the front end or ends being detached and carried back, and secured at that point.

By leaving off either of the harrow-bars a right or left side harrow may be formed, as will be evident, and by reversing the harrow-bars, as just described, a center harrow will be obtained.

The letters H H represent the handles, which are slotted at their lower or forward ends, and attached to the main beam A by means of a screw-bolt, *h*. The said arms are united near their upper or rear ends by means of a cross-bar, I, which is bolted to the standard *k*, attached to the main beam, the upper end of the standard being slotted for the purpose.

By this construction the handles may be shifted or elevated or depressed, to adjust the height to the convenience of the person using the cultivator.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of the main beam A, stationary slotted cross-beam B, adjustable cross-beam C, the slotted beams D D, carrying the plow feet and shares, and the adjustable harrow-bars, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of July, 1875.

Witnesses: E. B. MOORE.

JOHN COSTON,

JOHN H. WORD.