(No Model.)

T. J. BROWN.

CULTIVATOR.

No. 360,274. Patented Mar. 29, 1887.

Fig. 1.

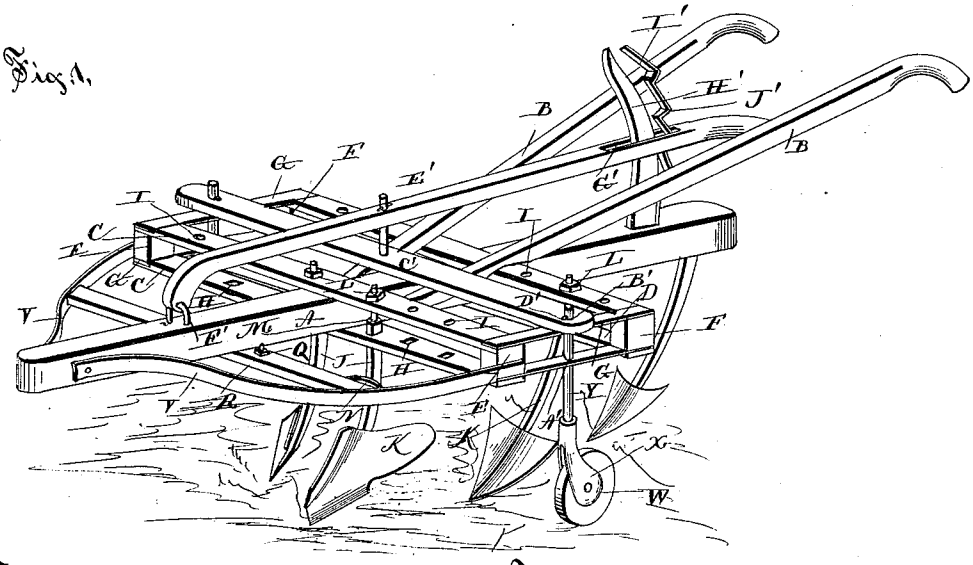


Fig. 2.

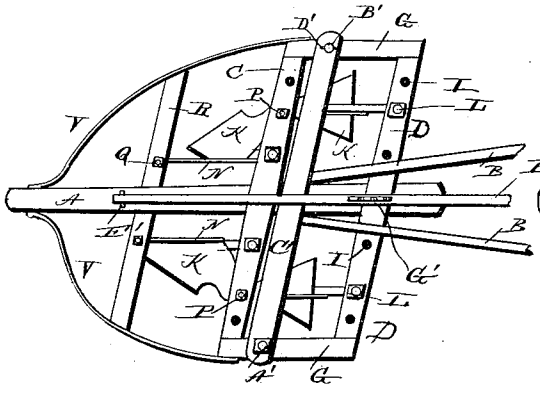


Fig. 3.

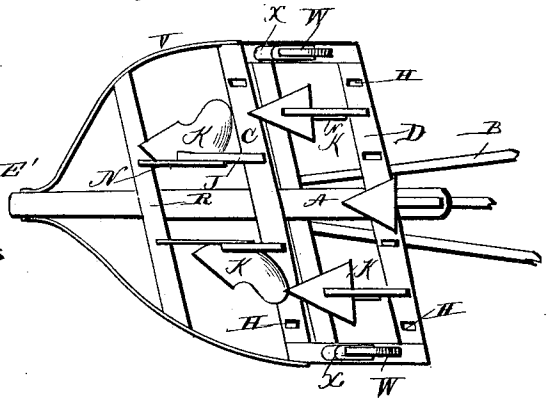
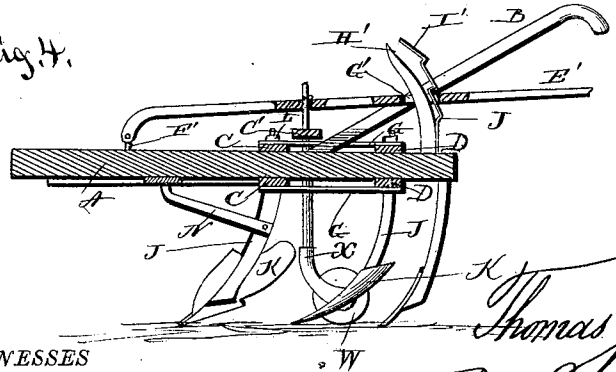


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS JEFFERSON BROWN, OF BEDIAS, ASSIGNOR TO THOMAS E. SMITH AND WILLIAM E. DARBY, BOTH OF DARBY, TEXAS.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 360,274, dated March 29, 1887.

Application filed August 3, 1886. Serial No. 209,836. (No model.)

To all whom it may concern:

Be it known that I, THOMAS JEFFERSON BROWN, a citizen of the United States, and a resident of Bedias, in the county of Grimes and State of Texas, have invented certain new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved cultivator. Fig. 2 is a top view of the same. Fig. 3 is a bottom view, and Fig. 4 is a longitudinal vertical sectional view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of cultivators in which the frame is supported upon two caster-wheels having means for raising and lowering them; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the beam, to the forward end of which the draft is attached and to which the inclined handles B B are secured, at about the middle of the beam. Two pairs of cross-beams, C C and D D, are secured at their middles to the beam at an angle to the same, and the ends of each pair are connected by means of blocks E E and F F, and the ends of both pairs of cross-beams are connected by metallic bars G G. The lower cross-beams are formed with rectangular perforations H and the upper cross-beams are formed with registering round perforations I, and the upper ends of the standards J of the plows or shovels K fit with their round reduced upper ends in the upper perforations, having nuts L, bearing against the upper sides of the beams, while the portions of the standards fitting in the rectangular perforations are shaped correspondingly and formed with shoulders M, bearing against the under sides of the cross-beams.

The lower ends of the standards, near the plows or shovels, are provided with brace-rods N, pivoted to the standards and having their upper reduced and shouldered ends fitted into perforations O in the cross-beams, and provided with nuts P at their upper ends, the said braces serving as fenders for the standards, as well as in the capacity of braces.

The braces, extending from the forward standards or from the standards in the forward cross-beam, fit into perforations Q in a cross-bar, R, secured parallel to the cross-beams to the beam, and a central forward standard, S, is secured in a perforation, T, in the beam, near the forward end of the same, and is provided with a brace, U, secured to the side of the forward end of the beam.

Curved bars or straps V are secured to the forward end of the beam, and are secured with their curved portions to the ends of the cross-bar and to the ends of the forward cross-beam, bracing the cross-bar.

Caster-wheels W are journaled in the bifurcated frames X, the upper round shanks, Y, of which are journaled in vertical perforations A′ in the bars connecting the ends of the cross-beams, and the upper ends of these shanks are inserted through perforations B′ in a cross-bar, C′, turning in the said perforations, and having collars or pins D′ above and below the cross-bar, preventing the shanks from slipping through the perforations, while allowing them to turn. This cross-bar is pivoted to the middle of a hand-lever, E′, the forward end of which is pivotally connected to the forward end of the beam by means of a pivoted link, F′, upon the upper side of the beam, and the rear handled end of the lever is provided with a longitudinal slot, G′, with which it slides upon a segmental upright, H′, upon the rear end of the beam, the said upright having a spring, I′, secured with its lower end to the lower end of its rear edge, bearing against the rear end of the slot and having downwardly-facing shoulders or steps J′, which may bear against the upper side of the lever and retain the lever in its adjusted positions. It will be seen that by depressing the rear end of this lever the cross-bar and the caster-wheels will be depressed, raising the shovels or plows off from the ground and allowing the cultivator to be transported from one place to another, and the depth to which

the plows may enter the ground may be adjusted by depressing the lever more or less, rendering the furrows made by the shovels more or less shallow.

The standards may be changed from one perforation to another in the cross-beams, allowing them thus to be adjusted at different distances from each other and in different relative positions, according to the work desired to be done, and the shovels or plows may be of any suitable construction, according to the class of work to be done.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a cultivator, the combination, with the frame bearing the standards, of caster-wheels W, provided with shanks Y, which are vertically journaled in the bars G at each side of said frame and in the ends of the cross-bar C′, the hand-lever E′, which is secured at the forward end of the beam A and pivotally connected to the center of said cross-bar and provided with a slot, G′, near its free end, the segmental upright H′, and the spring I′, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THOMAS JEFFERSON BROWN.

Witnesses:
J. A. HONSUCKER,
J. B. TUCKER.