

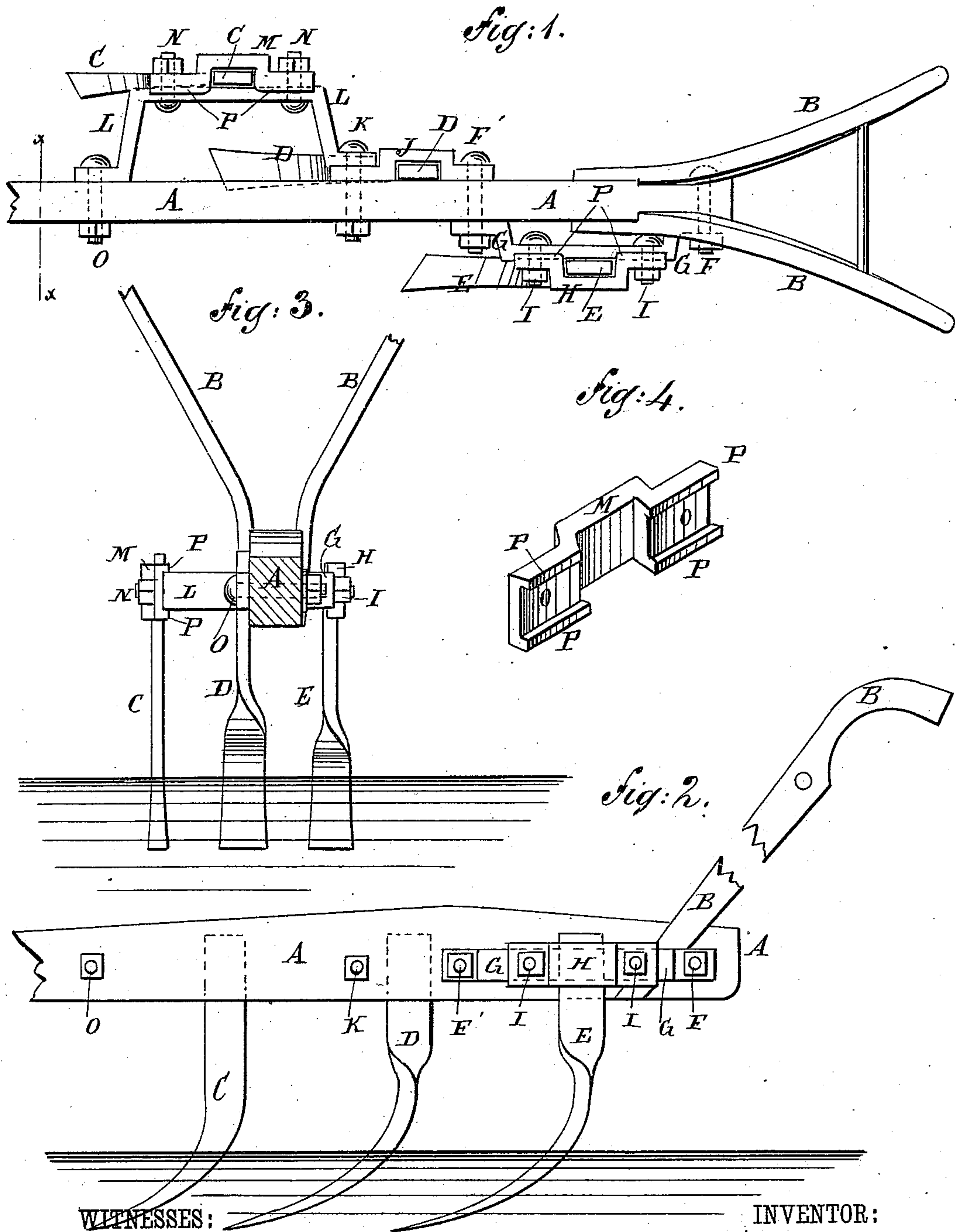
(No Model.)

H. D. TERRELL.

CULTIVATOR.

No. 292,070.

Patented Jan. 15, 1884.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY DENTON TERRELL, OF STARRSVILLE, GEORGIA.

## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 292,070, dated January 15, 1884.

Application filed July 18, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY DENTON TERRELL, of Starrsville, in the county of Newton and State of Georgia, have invented a new and Improved Single-Beam Cultivator, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improvement, parts being broken away. Fig. 2 is a side elevation of the same, parts being broken away. Fig. 3 is a front elevation of the same, the beam being shown in section through the line  $x x$ , Fig. 1. Fig. 4 is a perspective view of one of the clamping-bars.

The object of this invention is to provide single-beam cultivators constructed in such a manner that they can be readily adjusted for use as covering-plows, and which shall be simple in construction and strong, durable, and effective in use.

The invention consists in the detailed construction and combination of parts, substantially as hereinafter more fully set forth and claimed.

A represents the beam, and B the handle, of an ordinary plow-stock.

C D E are the cultivator teeth or plows, the lower parts of which are curved forward to bring them into proper position to enter the soil. The forward plow, C, is made narrow and with a straight shank to adapt it to work close to small plants without covering them with soil. The middle and rear plows, D E, are made wide to adapt them to throw soil around the plants, and have their shanks twisted to bring the upper parts of the said shanks into proper position to be secured to the plow-beam.

To the left-hand side of the beam A is secured, by bolts F F', the ends of the U-shaped bar or bracket G, against the outer side of the middle part of which is secured the shank of the rear plow, E, by the clamp H. The clamp H has a recess in its middle part to receive the shank of the plow E, and its ends

are secured to the brackets G by bolts I. The shank of the middle plow, D, rests against the right hand side of the plow-beam A, where it is secured in place by the clamp J, the middle part of which is recessed to receive and fit upon the said shank. The rear end of the clamp J is secured to the plow-beam A by the bolt F', that secures the forward end of the bracket G, and the forward end of the said clamp is secured to the said beam by a bolt, K. The shank of the forward plow, C, is secured to the middle part of the U-shaped bracket L by the recessed clamp M, the ends of which are secured to the said bracket L by the bolts N. The forward arms of the bracket L is secured to the plow-beam A by the bolt O. The rear arm of the bracket L is made shorter than its forward arm, so that the end of the said rear arm can rest upon the forward end of the clamp J and be secured by the bolt K, as shown in Fig. 1. With this construction the plows can be adjusted to work deeper or shallower in the ground by loosening the fastening-bolts of the clamps H J M. When it is desired to throw more soil around the plants, the plow C and one of the plows D E can be exchanged, or a third wide plow can be used. The bracket G is made with shorter arms than the bracket L, so that the lateral distances between the plows will be the same. By detaching the plows C D and the bracket L, moving the bracket L back and securing it to the right-hand side of the beam A by the same screws that secure the bracket G to its left-hand side, and securing the plow D to the said bracket L, a double-standard plow will be produced suitable for covering corn, cotton, and other seeds planted in rows or drills. The clamps H M are made with longitudinal flanges P along the side edges of the end parts, as shown in Figs. 3 and 4, and in dotted lines in Fig. 1, to overlap the side edges of the brackets G L and give greater firmness and steadiness to the said clamps.

I do not abandon or dedicate to the public any patentable features set forth herein and not hereinafter claimed, but reserve the right to claim the same either in a reissue of any patent that may be granted upon this applica-



tion or in other applications for Letters Patent that I may make.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

- 5 In a cultivator, the combination, with the bracket G, connected to the beam, of an approximately U-shaped clamp, H, with its arms or wings provided with upper and lower

inwardly-projecting flanges, P, and bolts I, substantially as shown and described, and for the 10 purpose set forth.

HENRY DENTON TERRELL.

Witnesses:

J. D. HARVEY,  
M. W. DAVIS.