

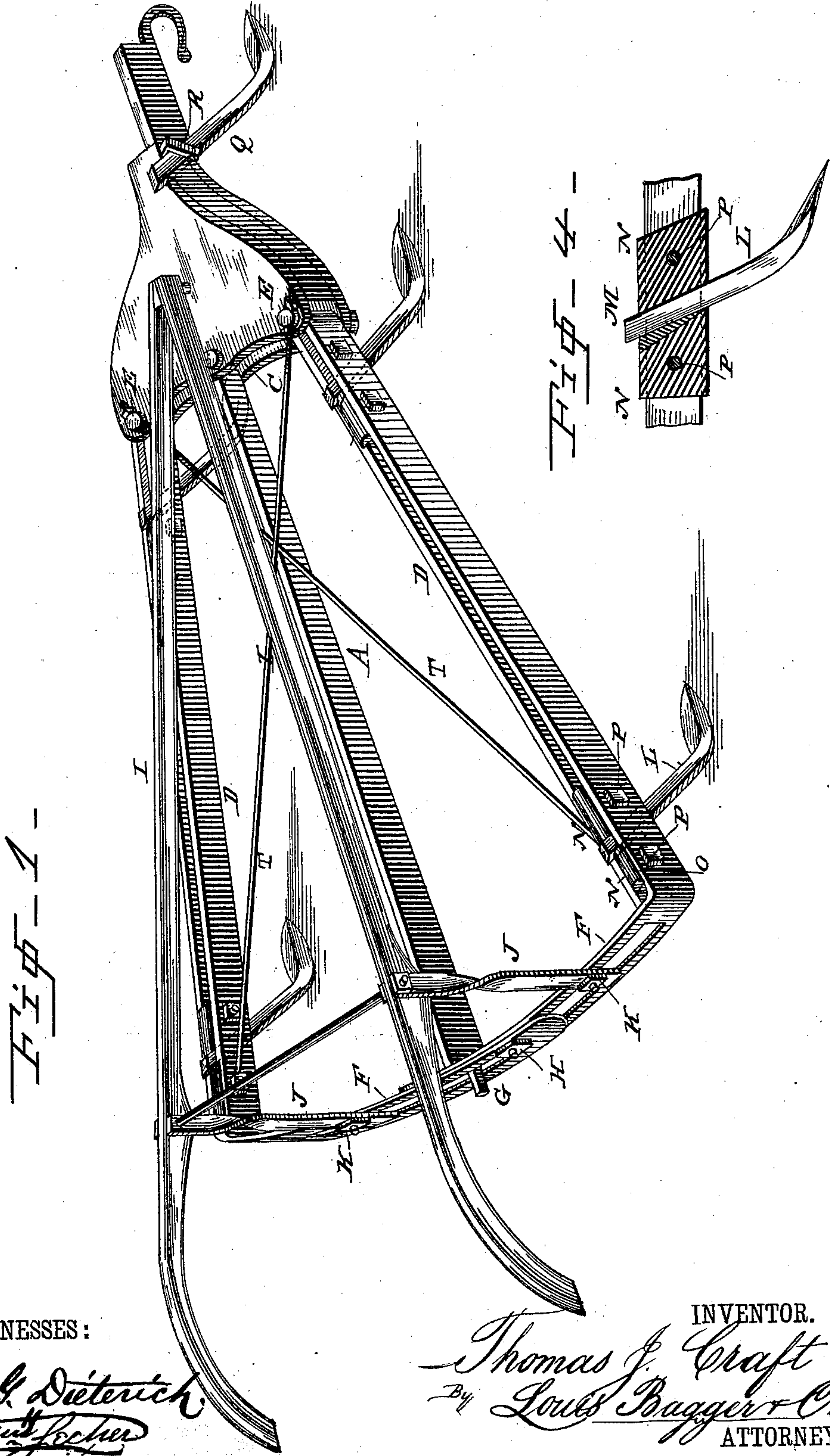
(No Model.)

2 Sheets—Sheet 1.

T. J. CRAFT.
CULTIVATOR.

No. 297,069.

Patented Apr. 15, 1884.



WITNESSES:

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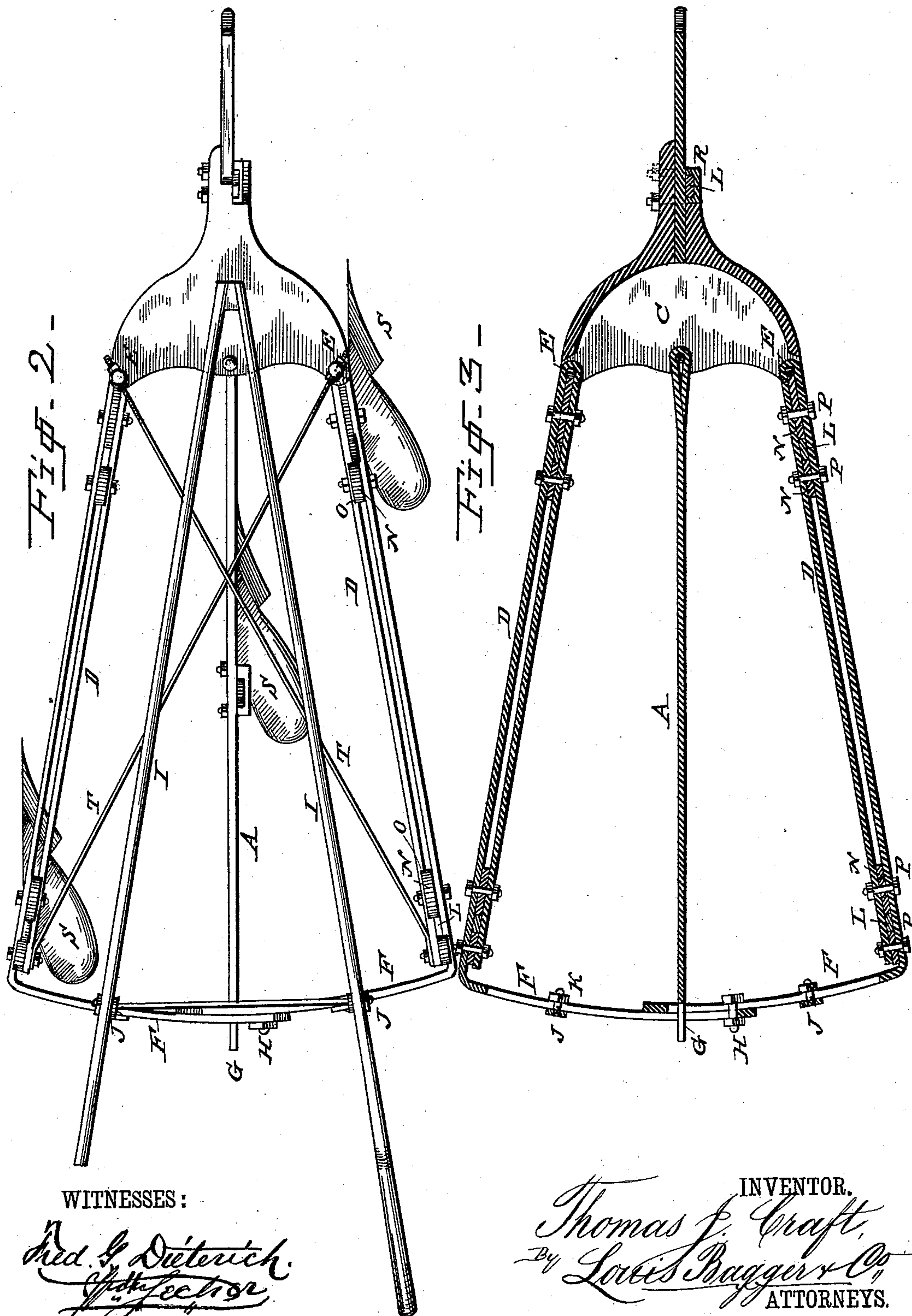
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UNITED STATES PATENT OFFICE.

THOMAS JEFFERSON CRAFT, OF ELLISVILLE DEPOT, MISSISSIPPI.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 297,069, dated April 15, 1884.

Application filed December 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. CRAFT, a citizen of the United States, and a resident of Ellisville Depot, in the county of Jones and State of Mississippi, 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 changed to operate as a gang plow. Fig. 3 is a horizontal section of a portion of the frame; and Fig. 4 is a detail view, showing the manner of securing the cultivator-teeth.

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

My invention has relation to combined cultivators and gang-plows; and it consists in the improved construction and combination of parts of a cultivator which may be, with very few changes, converted into a gang-plow, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the central longitudinal beam, to the front end of which the draft is applied, and which passes with its forward portion through a block or casting, which, for the sake of lightness, may be cast hollow, and which forms a recess, C, at its rear end, between the upper and lower flanges formed by the hollow block. Two beams, D, formed by flat doubled bars, are hinged with their doubled ends upon two vertical bolts, E E, one at each rear corner of the casting, which is triangular, and the outer portions of the doubled bars extend beyond the ends of the inner portions and are bent inward, forming slotted and curved rear pieces, F, of the cultivator-frame. These slotted end pieces slide with their slots upon the reduced rear end, G, of the central beam, and are held adjusted together by a screw-bolt and nut, H, passing through the slots. Two handles, I, are secured movably at their forward ends upon the upper side of the triangular casting, and their rear ends are secured to the rear end of the frame and supported above the same by two uprights, J, the lower ends of

which are provided with nutted bolts K, which slide in the slots of the end pieces, so that the handles may be adjusted at will. The cultivator-teeth L are secured with their shanks M each between two blocks, N, having inclined edges bearing against the edges of the shank, holding it in an inclined position, and having overturned flanges O at their upper and lower ends, which rest upon the edges of the beam, and secured by means of screw-bolts P, the shanks of the teeth and the blocks being placed between the doubled portions of the beams, and their securing-bolts passing through the portions of the beams and through the blocks. The front tooth, Q, is preferably secured by an inclined bail, R, upon the forward end of the central beam.

When the cultivator is to be changed to a gang-plow, the cultivator-teeth are removed, and the plows S preferably arranged, as shown in Fig. 2, one upon the forward end of one of the outer beams, near the hinge, another plow upon the central beam, near its middle, and the third plow upon the other outer beam, near its rear end, the plows being secured, in the same manner as the cultivator-teeth, by blocks clamping their standards. To brace the plow, two braces, T, pass with their screw-threaded forward ends through perforations in the heads of the bolts E at the rear corners of the triangular casing, and are provided with adjusting-nuts upon the said ends, and, crossing each other, are secured at their rear ends to the rear ends of the outer beams. In this manner it will be seen that a simply-constructed and easily-changed combined cultivator and gang-plow is provided, which may be converted to either of its uses in a very short space of time, and only requiring the use of a common wrench.

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

1. The combination of the central beam, the triangular hollow casting, and the doubled outer beams, hinged at their doubled ends to the rear corners of the triangular casting, and secured at their inwardly-bent rear ends to the rear end of the central beam, as and for the purpose shown and set forth.

2. The herein-described combined cultivator and gang-plow, consisting of the central

beam, the triangular hollow casting, the outer
doubled beams, hinged at their doubled ends
to the rear corners of the triangular casting,
and having slotted inwardly-bent rear ends
5 sliding with their slots upon the rear reduced
end of the central beam, and connected ad-
justably together by means of a nutted bolt
passing through the slots, handles secured
movably at their forward ends to the triangu-
10 lar casting, uprights pending from the rear
portions of the handles and secured adjusta-
bly to the slotted end pieces by means of nut-

ted bolts, and the braces hinged to the trian-
gular casting, crossing each other, and hinged
at their rear ends to the rear ends of the outer 15
bars, as and for the purpose shown and 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 CRAFT.

Witnesses:

JEFFERSON TAYLOR HERRINGTON,
ALFRED JAMES DAVIS.