(No Model.) 2 Sheets—Sheet 1.

J. SHERMAN.

CULTIVATOR AND COTTON CHOPPER.

No. 300,650. Patented June 17, 1884.

Fig. 1.

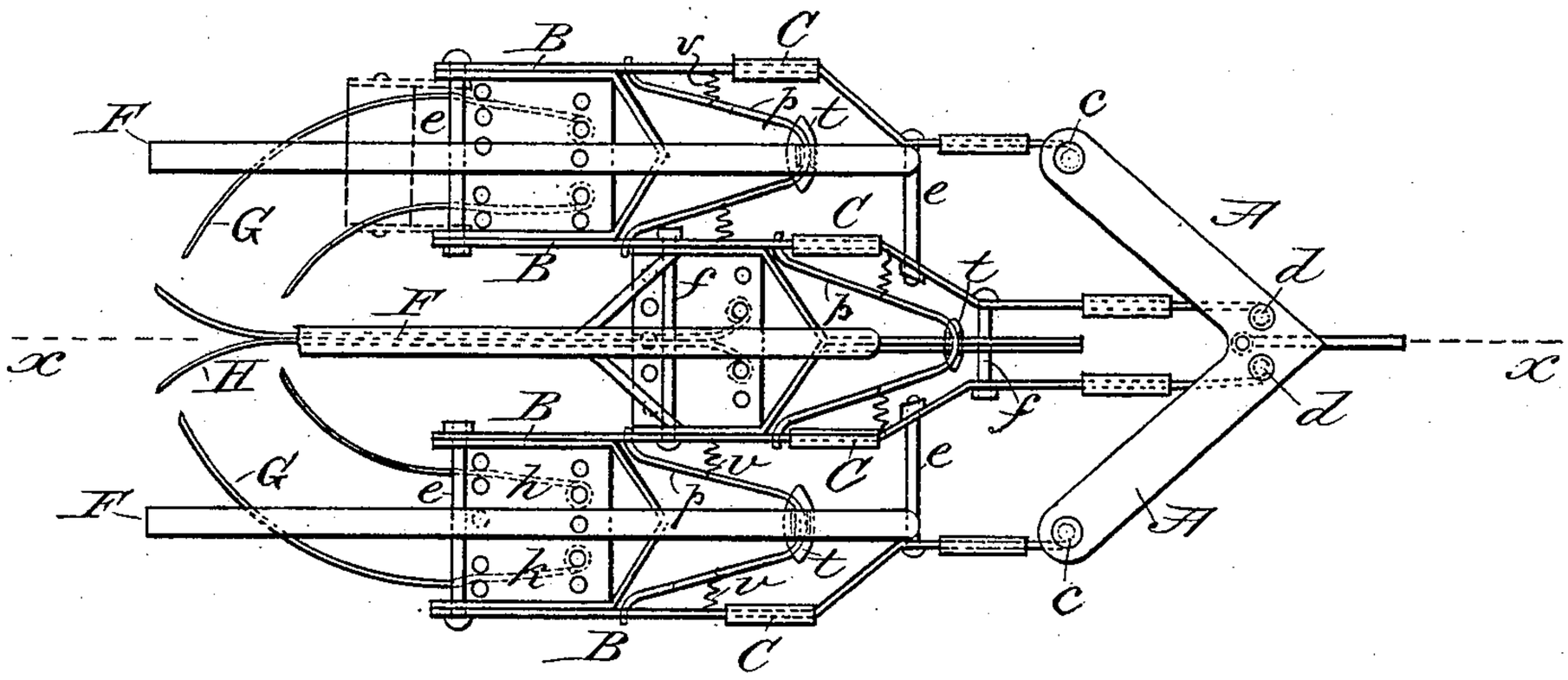


Fig. 2.

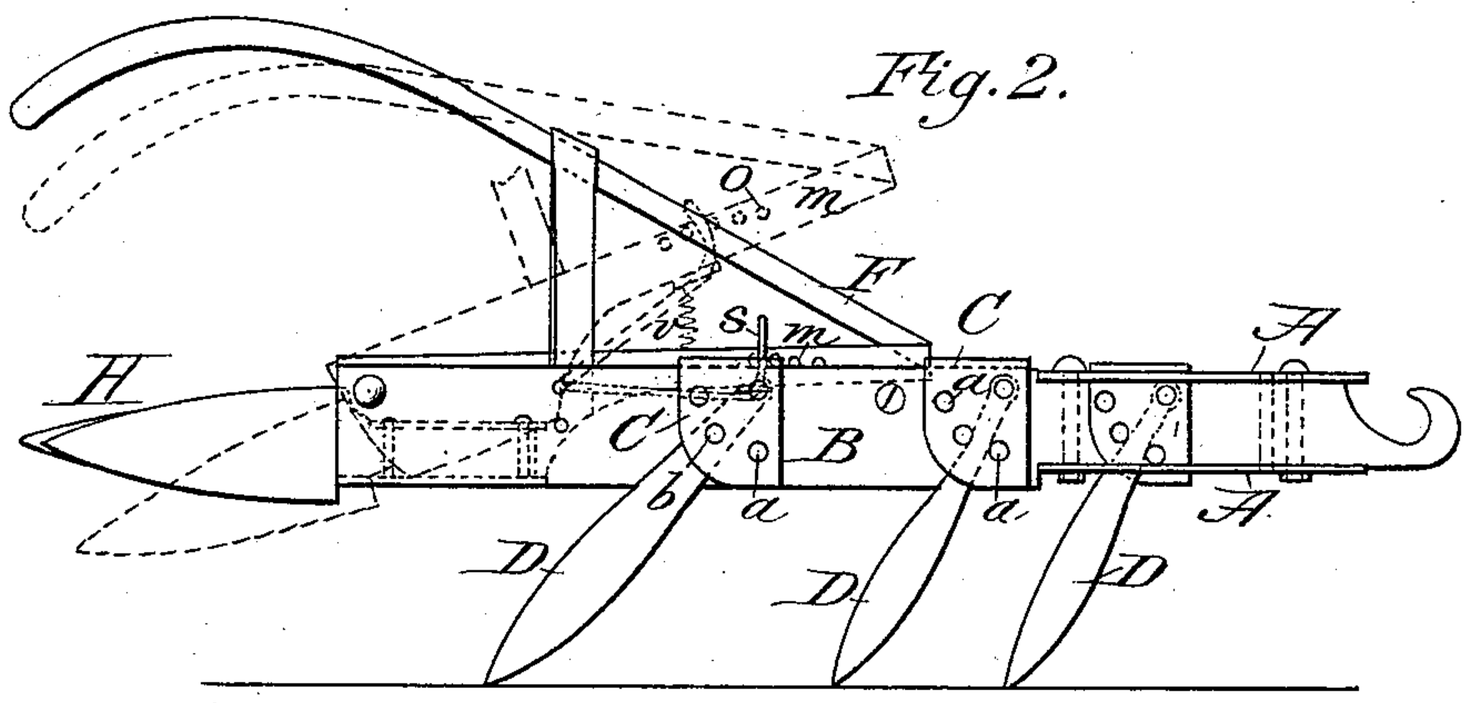
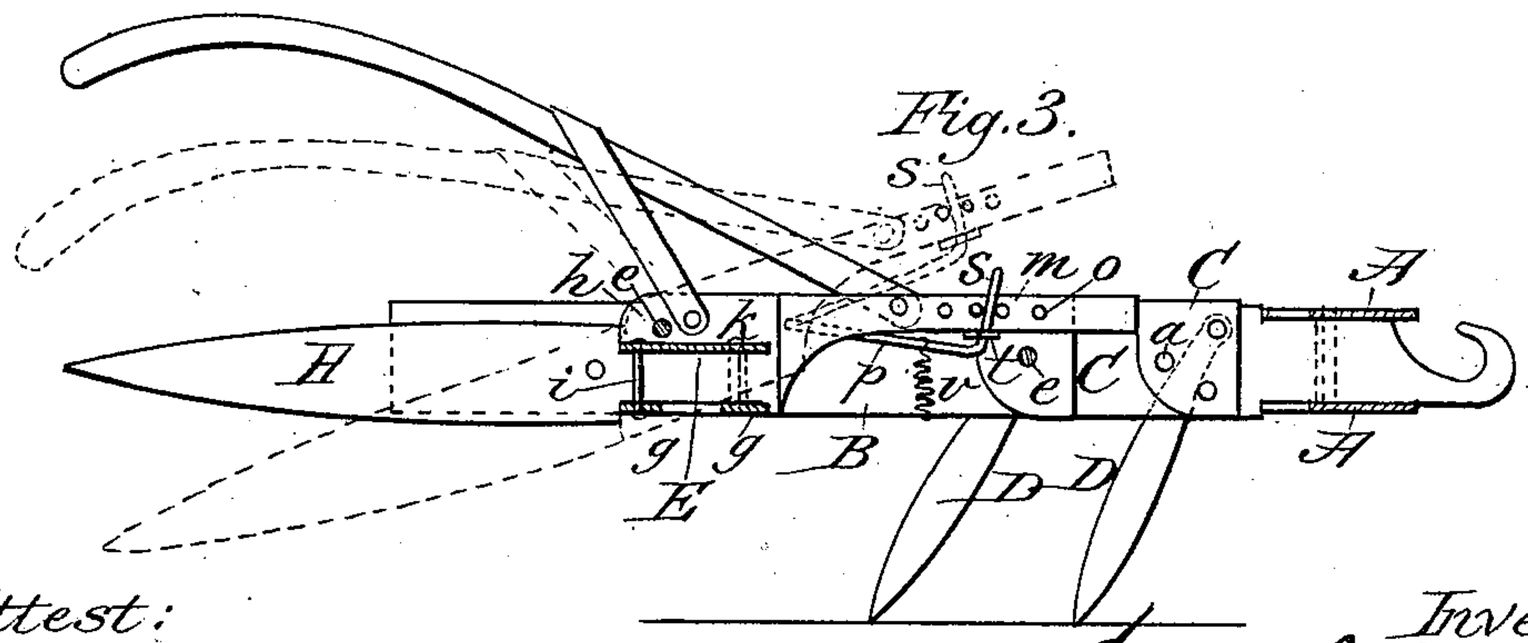


Fig. 3.



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Inventor:
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(No Model.) 2 Sheets—Sheet 2.

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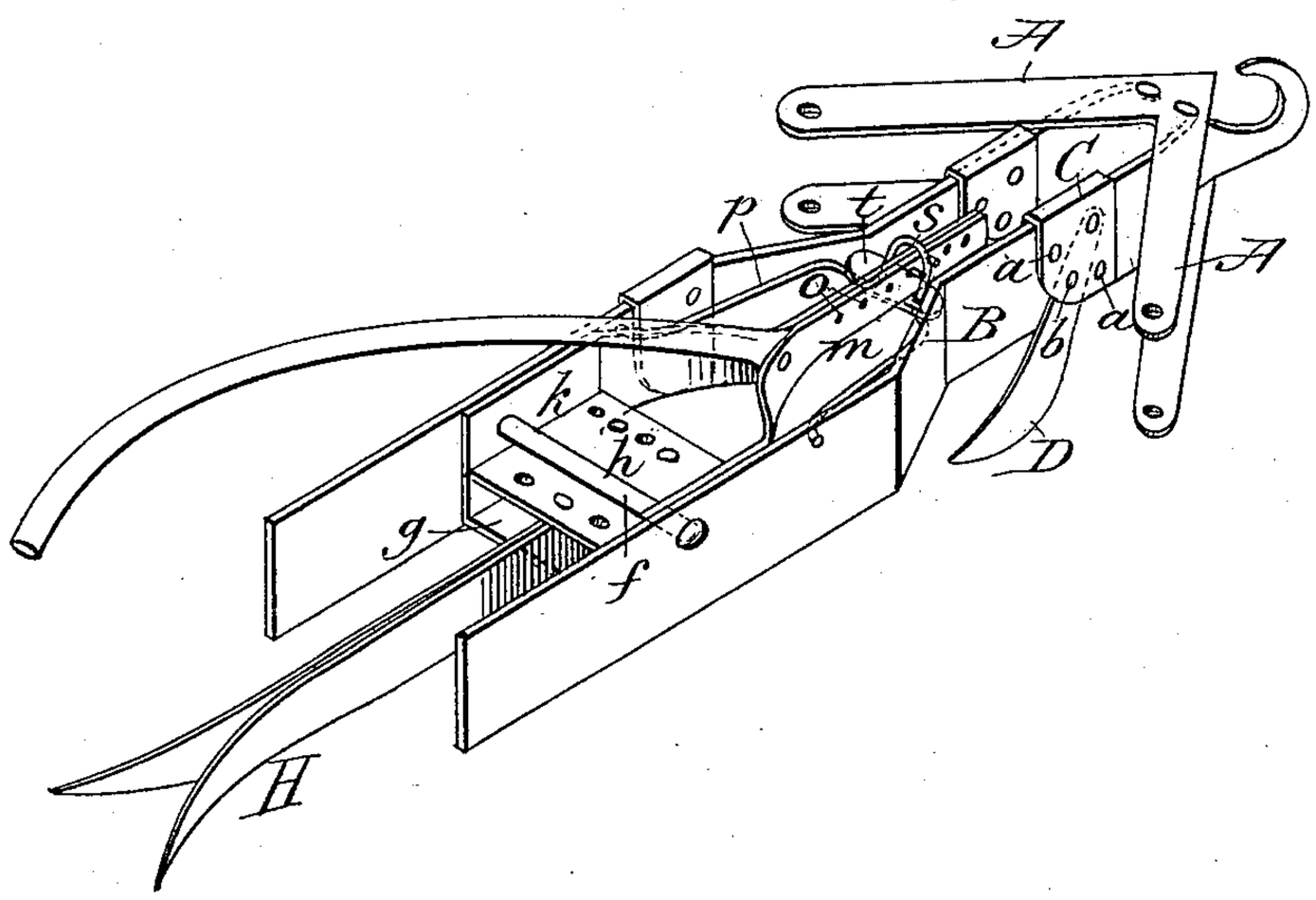
Fig. 4.



Attest:
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A. R. Brown

Inventor:
Josiah Sherman
by J. C. Tasker atty.

UNITED STATES PATENT OFFICE.

JOSIAH SHERMAN, OF ATLANTA, GEORGIA.

CULTIVATOR AND COTTON-CHOPPER.

SPECIFICATION forming part of Letters Patent No. 300,650, dated June 17, 1884.

Application filed October 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH SHERMAN, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Cultivators and Cotton-Choppers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in cultivators and cotton-choppers; and it consists in the construction and arrangement of devices, as hereinafter more fully described and claimed.

In the annexed drawings, illustrating the invention, Figure 1 is a plan or top view of my improved cultivator. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal section. Fig. 4 is a perspective view with the outer beams removed.

Like letters of reference designate like parts in the several views.

The frame of the machine consists of the front pieces or plates, A A, and the bent or crooked beams B B, that are secured thereto. These beams are each formed in two or more lines, as shown, each of which is provided with a cuff or clasp, C, by which a harrow-tooth or other cultivating device is adjustably secured to each line of the beam. It will be seen that the harrow-tooth D is pivoted to the side of the beam beneath the cuff, which is provided with a series of perforations, *a a*, arranged in the segment of a circle, so that the tooth when inclined in any desired position can be held by a bolt or pin, *b*, passed through one of said perforations.

The beams B B are preferably connected to the front pieces, A A, by means of bolts *c c d d*, and they are also connected laterally by bolts or braces *e e f f*.

Between the beams B B, and pivoted upon the rear bolts, *e* and *f*, respectively, are arranged boxes E E, for the attachment of suitable cultivating devices. Each of these boxes consists of bottom pieces, *g g*, and a cap piece, *h*, as shown in Figs. 3 and 4. The parts *g h* are connected by bolts *i* and by side pieces, *k k*, that are elongated forward to form a shank, *m*, which is provided with perforations *o o*. This shank *m* passes through a bail, *p*, that is pivoted between the beams, and has at its upper end a rearwardly-bent loop, *s*, that is provided with a washer, *t*. After the shank *m* has been passed through the loop *s*, above the washer *t*, a handle or lever, F, is attached to the forward end of the shank, by which the pivoted box, with its attached cultivator, may be adjusted or operated. By depressing the levers F, the cultivators G H, attached to the boxes E, will be projected into the soil; or, if a cotton-chopper or hoe is secured to the box E, it may be thus readily operated by an oscillating or vibratory movement of the lever. When the cultivator G or H has been moved by means of the lever F to any desired position, the box E may be securely held by means of a pin or bolt passed through the perforated shank *m*, above and below the loop *s*. If desired, a spring, *v*, may be attached to the bail *p*, and connected by its other end to any convenient part of the frame of the machine, for the purpose of imparting the required degree of elasticity to the operation of the parts.

The cultivators G H may be of any suitable form, according to the character of the work to be accomplished. These cultivators are attached to the boxes E between the plates *g h* by means of bolts *i i* in such a manner that they can be adjusted laterally to any desired angle by withdrawing the bolts from one set of perforations in the plates *g h*, then turning the cultivators to the desired position, and reinserting the bolts in other convenient places.

The machine represented in the drawings is intended more particularly as a walking-cultivator to be drawn by one horse; but it may, if desired, be provided with a seat for a driver, and draft attachments for more than one horse may also be arranged.

It will be observed that the various parts of the machine are so connected as to be readily taken apart for repairs, storage, or transportation.

By withdrawing the bolts *c c* and *e e*, the outer or side beams may be readily detached,

leaving the front pieces, A A, and the central beams, B B, with their attachments to form a smaller machine, as shown in Fig. 4, which will be useful for gardening or other light agricultural purposes.

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

1. In a cultivator, the combination of the beams B B, pivoted boxes E E, composed of plates *g h k*, and bolts *i*, said boxes being provided with perforated shanks *m*, and handles F, the bails *p p*, springs *v v*, and the laterally-adjustable cultivators attached to said boxes, substantially as described.

2. In a cultivator, the combination of the beams B B, boxes E E, having perforated shanks *m m*, the bails *p p*, and pins for adjustably connecting said bails and shanks, substantially as described.

3. In a cultivator, the combination of the frame A B, formed in detachable parts, the harrow-teeth D, the pivoted boxes E, having shanks *m*, and levers F, the bails *p*, and the laterally-adjustable cultivators G H, attached to said boxes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSIAH SHERMAN.

Witnesses:

A. R. BROWN,
E. L. WHITE.