

(No Model)

A. S. BETHUNE.
FOOT PLOW OR CULTIVATOR.

No. 585,303.

Patented June 29, 1897.

Fig. 1.

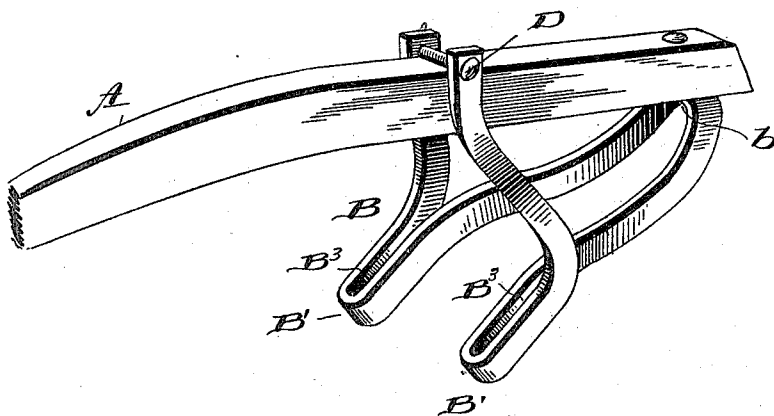


Fig. 2.

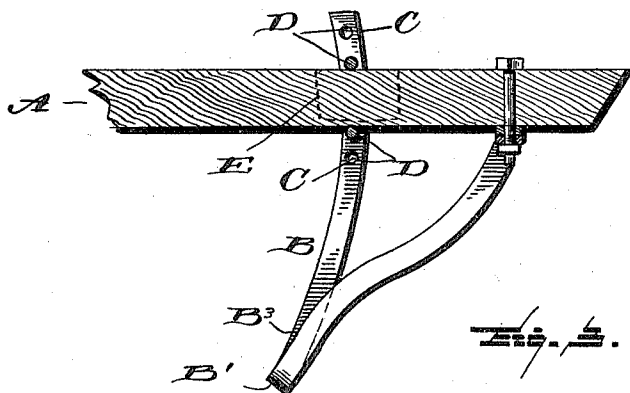
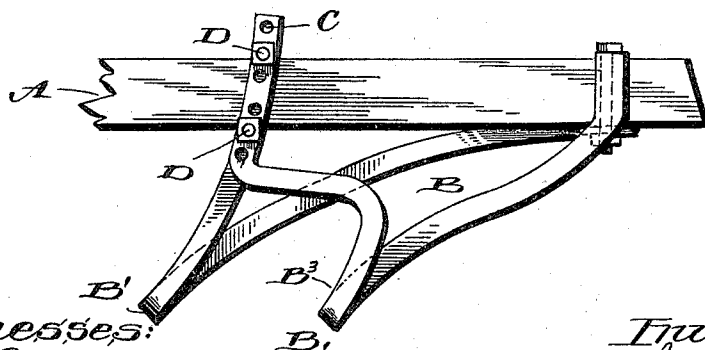


Fig. 3.



Witnesses:
L. C. Mills
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UNITED STATES PATENT OFFICE.

ALFRED SOLON BETHUNE, OF TALBOTTON, GEORGIA.

FOOT PLOW OR CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 585,303, dated June 29, 1897.

Application filed April 3, 1897. Serial No. 630,623. (No model.)

To all whom it may concern:

Be it known that I, ALFRED SOLON BETHUNE, a citizen of the United States, residing at Talbotton, in the county of Talbot and State of Georgia, have invented certain new and useful Improvements in Foot Plows or Cultivators; 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 of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in plow or cultivator attachments, and especially to an adjustable foot-plow for attachment to the shovel of a plow or cultivator-teeth; and it consists, preferably, of a single piece of bar metal, which is bent so as to form sockets in which the cultivator-teeth or plow-shovel may be held, the said bar being so bent as to be thoroughly braced when it is secured at two locations to the plow-beam.

The invention relates, further, to the provision of a foot plow or cultivator which is adapted to be laterally adjustable, being formed of separate pieces of bar metal which are held to a plow-beam and capable of vertical as well as lateral adjustment, the two loops or sockets in the said bar being arranged either side by side or one in advance of the other, as may be desired.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of the parts, as will be hereinafter more fully described, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved foot plow or cultivator, showing the two plow or cultivator carrying members arranged side by side, with a slight space inter-

vening. Fig. 2 is a sectional view through the plow-beam, showing one of the standards in elevation. Fig. 3 is a view of the plow-beam shown made in sections adjustably held to a plow-beam.

Reference now being had to the details of the drawings by letter, A designates a plow-beam of ordinary construction, and B designates the one-piece bar-metal frame, designed to be securely held to the beam and to hold the cultivator-teeth or plow-shovel. This bar is bent upon itself at its longitudinal center, at which location it is securely bolted, as seen at *b*, to the plow-beam. The section of the said bar is then bent into a compound curve, thence bent upon itself at *B'*, forming sockets *B³*, in which the cultivator-teeth or plow-shovel may be adjustably held. Each portion of the said bar is then bent inwardly and then in parallel planes, between which parallel portions the said plow-beam is designed to pass.

In order to adjustably hold the said ends of the bar to the plow-beam, it is my purpose to provide apertures C, through which the bolts D may be passed to raise or lower the cultivator-teeth-carrying portion of the device.

Fig. 3 shows the foot-plow made of two sections which are adjustably clamped on opposite sides of the beam, and, if desired, blocks E may be interposed between the ends of the foot-plow, whereby the bars may be laterally adjusted.

From the foregoing it will be seen that a foot plow or cultivator constructed in accordance with my invention will be simple in construction, embodying strength and simplicity, and may be easily and quickly adjusted for use on either cultivator or plow beams in the manner described.

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

1. A foot plow or cultivator, made of a single piece of bar metal, bent upon itself, to form sockets, in which cultivator-teeth are designed to be held, and means for securing the foot-bar to the plow-beam, substantially as shown and described.

2. A foot plow or cultivator made of a

single piece of bar metal bent at its longitudinal center upon itself, thence bent to form a compound curve, and upon itself to form cultivator-teeth-carrying sockets, thence bent
5 upward in parallel planes and designed to be adjustably held to the plow-beam, substantially as shown and described.

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

ALFRED SOLON BETHUNE.

Witnesses:

S. B. BALDWIN,
P. M. WESTON.