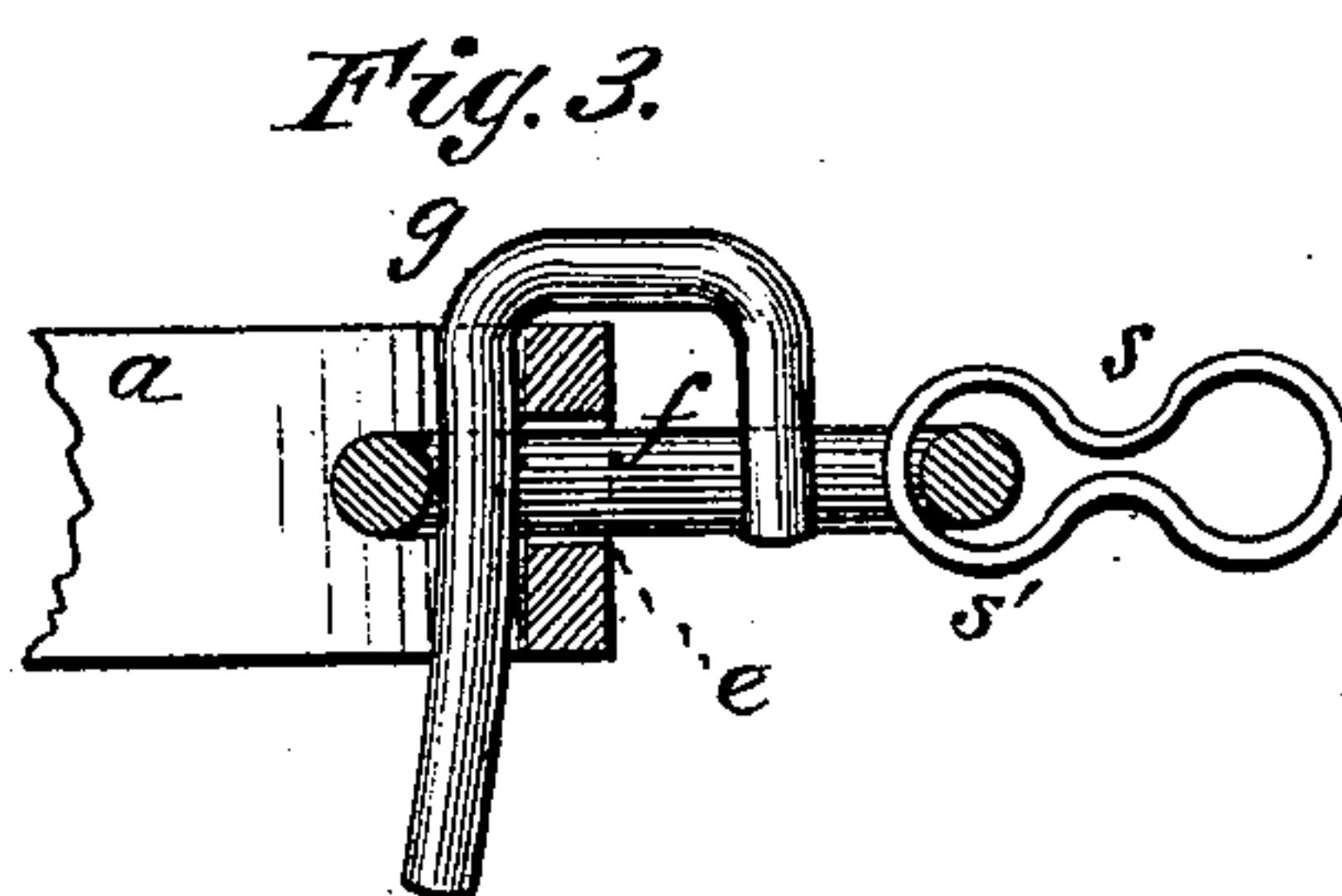
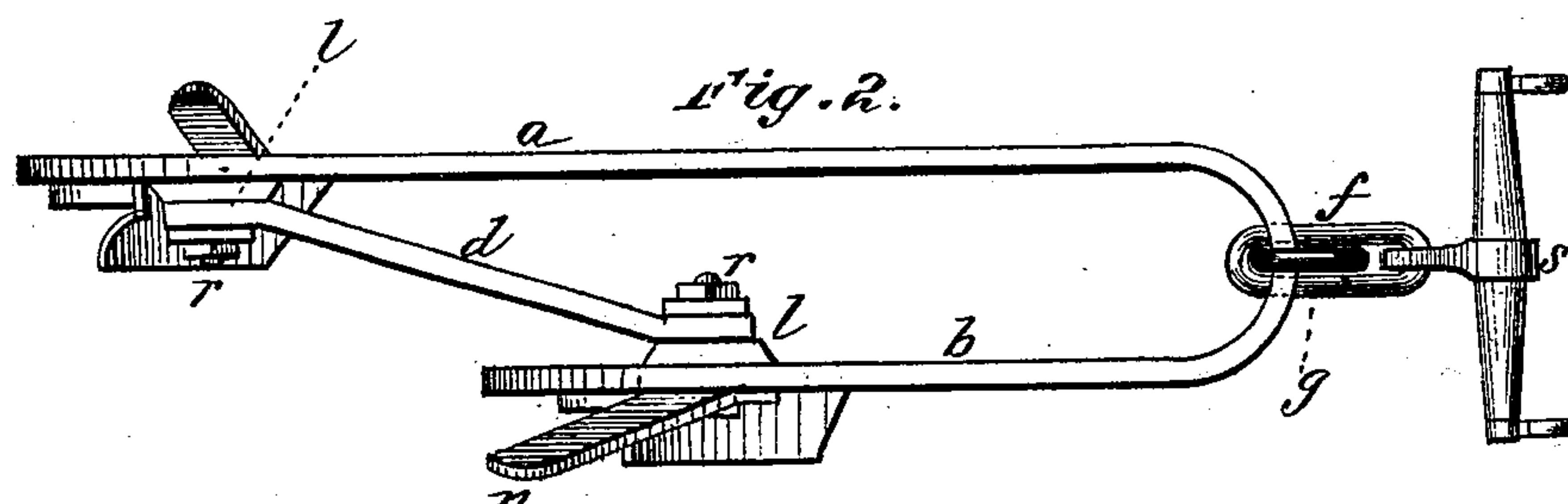
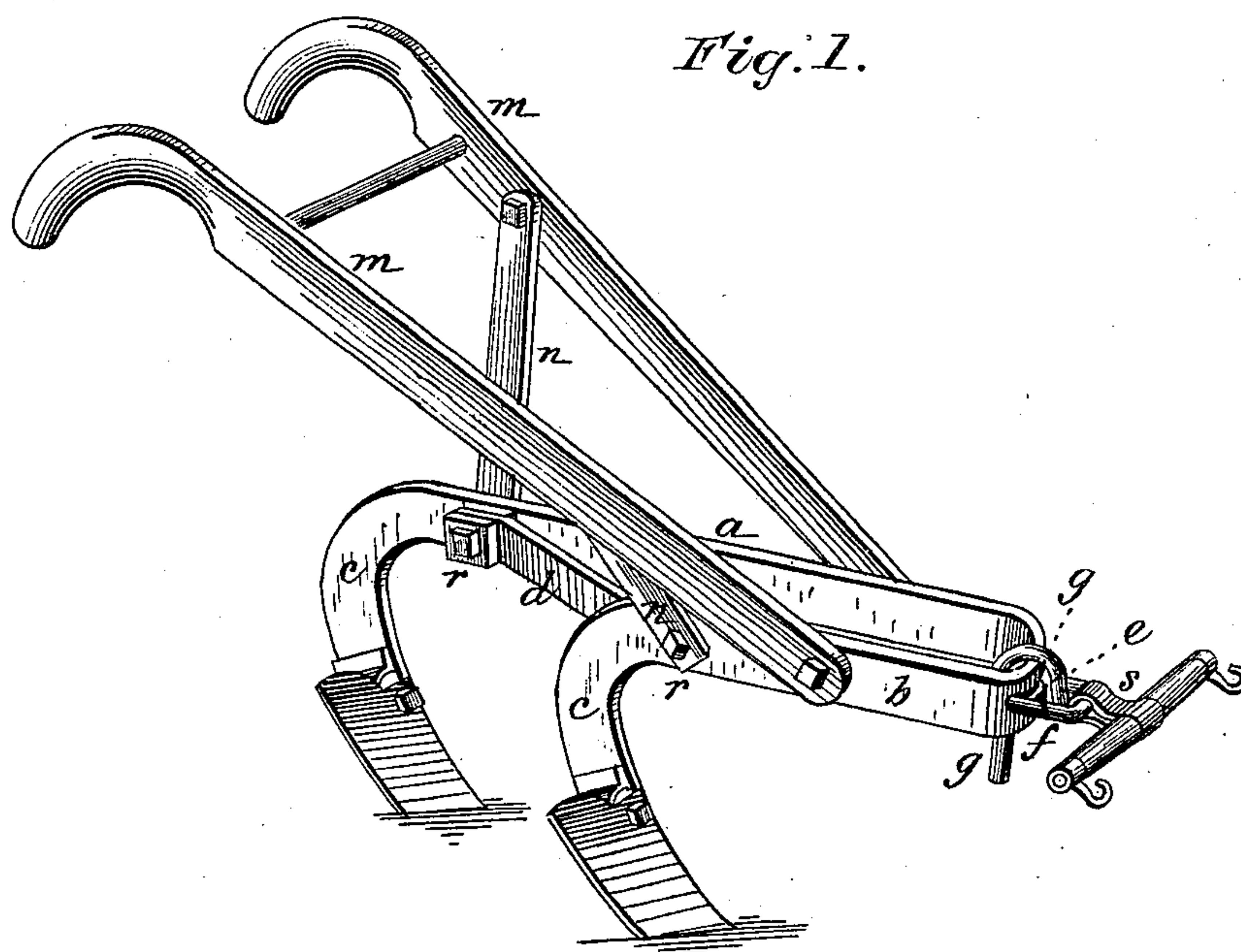


(No Model.)

M. T. HANCOCK.
CULTIVATOR.

No. 253,164.

Patented Jan. 31, 1882.



WITNESSES

Thos. L. Dieterich
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UNITED STATES PATENT OFFICE.

MILTON T. HANCOCK, OF THOMASVILLE, GEORGIA, ASSIGNOR TO JAMES P. TURNER, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 253,164, dated January 31, 1882.

Application filed January 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, MILTON TAYLOR HANCOCK, a citizen of the United States, residing at Thomasville, in the county of Thomas and State of Georgia, have invented new and useful Improvements in Cultivators, of which the following is a specification.

A flat bar of iron is bent so as to form parallel long and short beam sides, with the front bend provided with a horizontal slot for a draft-link, which is secured by a pin which straddles the curved beam end, giving a short and close whiffletree-connection, rendering it much easier to manage the cultivator, and forming a simple and durable draft attachment. The ends of the beam sides are connected by a diagonal brace and terminate in curved standards for the shovels. The brace extends from the curved standard of the short beam side to the curved standard of the long beam side, rendering the sides stiff at the standards, while bracing them lengthwise.

Referring to the accompanying drawings, Figure 1 represents a view in perspective of my improved cultivator; Fig. 2, a top view, showing the diagonal brace, the draft-link, and the pin which secures it to the curved beam end; and Fig. 3, a vertical section of the draft attachment.

A flat bar of wrought-iron, about half an inch thick by about two inches wide, is bent so as to form the long side *a* and the short side *b* of the beam, the ends terminating in the curved standards *c c* for the shovels. The sides are parallel, and a brace, *d*, bolted to the standard end of the short side *b*, extends diagonally to and is bolted to the standard end of the long side, the ends of the brace being parallel with the beam sides and firmly bracing the standard end of the sides at the points where bracing is required to resist the pressure and strain upon the shovels, and at the same time bracing the sides lengthwise to equalize the strain upon the long and short sides of the beam. The parallel sides of the beam form a front curved end, in the middle of which I make a horizontal slot, *e*, long and wide enough to receive a horizontal link, *f*, which projects within to the bend to receive

the pin *g*, which hooks over the curved end of the beam sides and fastens the link to the beam. This construction gives a very close and durable connection for the whiffletree and allows the cultivator to be handled with much less labor than with a long draft-connection. The pin may also be adapted for use as a wrench to remove the fastening-bolts of the brace, so as to adjust the beam sides to run the shovels at a greater width by means of blocks *l*, placed between the ends of the brace *d* and the beam sides. In this adjustment the curved end of the beam will have sufficient spring.

The handles *m* are secured to the beam sides and braced by braces *n n*, which are secured to said beam sides by the same screw-bolts, *r*, which fasten the diagonal brace to said beam sides. A piece welded on the side of each standard forms a slot, through which the bolt passes to secure the shovel to the standard and allow it to be adjusted as it wears away.

The whiffletree or double-tree bar is attached to the draft-link by the middle iron, *s*, which is formed with an eye, *s'*, and the link is split to allow it to be inserted into said eye, the link being sprung open at the split to put it through the eye, so that the link is fastened to the beam by the hook-pin and to the whiffletree by its middle-eyed iron.

I claim—

1. The bent bar forming the frame and the curved standards, and its curved front end having the horizontal middle slot, *e*, in combination with a link, *f*, secured to said bent bar within the front middle slot, *e*, and the hook-pin *g*, substantially as described.

2. The bent bar forming the curved standards, and the curved front end having the horizontal middle slot, *e*, in combination with the link *f*, the hook-pin *g*, the draft attachment, and the diagonal brace *d*, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

M. T. HANCOCK.

Witnesses:

A. E. H. JOHNSON,

J. W. HAMILTON JOHNSON.