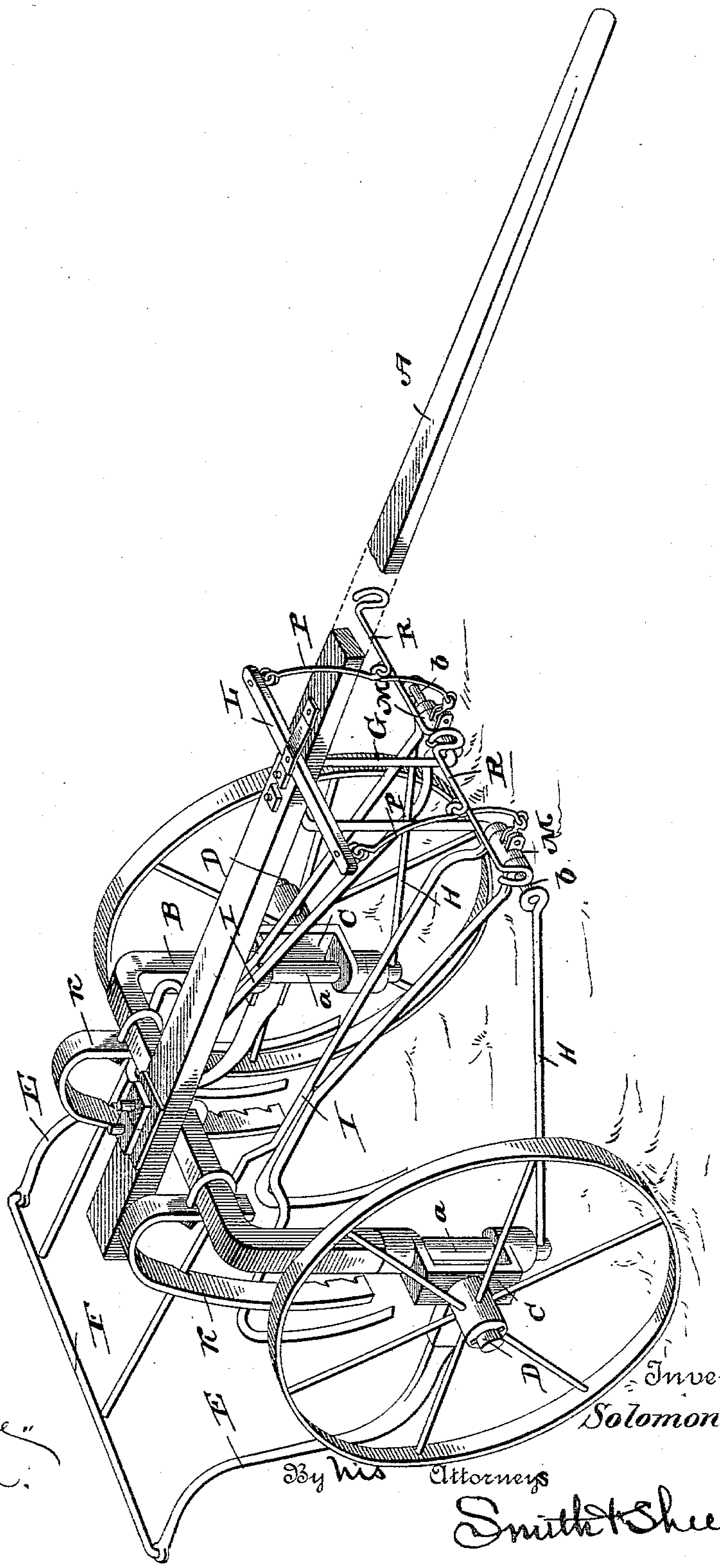
(No Model.)

S. DRAPER.

CULTIVATOR.

No. 387,778. Patented Aug. 14, 1888.



Witnesses.
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UNITED STATES PATENT OFFICE.

SOLOMON DRAPER, OF SULLIVAN, INDIANA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 387,778, dated August 14, 1888.

Application filed May 29, 1888. Serial No 275,464. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON DRAPER, a citizen of the United States, residing at Sullivan, in the county of Sullivan and State of Indiana, have invented certain new and useful Improvements in 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.

This invention has relation to improvements in cultivators, and it has for its main object to provide means whereby the frame may be moved from one side of the road to the other without pulling upon the lines of the draft-animal; and a further object of the invention is to ease the draft, which latter I accomplish by bringing all of the plows under the main frame.

The invention will be fully understood from the following description and claims, when taken in connection with the accompanying drawing, in which the figure is a perspective view of a cultivator constructed according to my improvements.

Referring by letter to the said drawing, A indicates a tongue or draft-beam. Secured to this draft-beam near its rear end is an arched beam, B, which has its lower ends arranged vertically and terminating in annular plain portions *a* to receive brackets C. These brackets have vertical eyes formed in them for the reception of the ends of the arched frame or beam B, and formed therewith or firmly secured thereto on the outer side of the brackets are spindles D to receive the supporting-wheels. These brackets have fixed to them the forward ends of rearwardly and upwardly curved arms E, which latter are connected by means of a pivoted transverse hand-bar, F, which constitutes a shifting frame for the entire machine, or a means of moving the wheels parallel in opposite directions to change the course of its draft. Secured to this draft-beam, in advance of the arched bar B, is a smaller arched bar, G, which has its ends terminating in lateral horizontal branches *b*, to receive the forward ends of the cultivator-beams, as will be presently described. The lateral arms of the front arched bar or rods G, are respectively connected, by means of rods H, with the lower ends of the rear arched bar, B.

I indicates the cultivator-frames, there being two sets illustrated in the present instance, and one handle employed for each set. The forward ends of the cultivator-beams are journaled on the lateral branches of the front arched bar, G, and are prevented from leaving the same by means of the rods H, which connect the two arched frames. These rods also serve to prevent the rear arched beam, B, from being lifted out of the hinge-brackets C.

K K indicate notched bars or arms, which are secured at one end to the rear arched frame, and their opposite ends are curved upwardly and downwardly, the notches being so formed therein as to receive and sustain the handles of the plows or cultivator-beams when raised to various heights.

L indicates a whiffletree, which is pivoted to the upper side of the draft-beam in advance of the front arched frame, and the opposite ends of this whiffletree are connected, by means of clips M, with the horizontal branches of the front arched frame, through the medium of depending rods or bars P, the singletrees R being attached, by means of eyes, to the said depending arms P, for the attachment of the draft.

By the construction illustrated it will be seen that a person walking in rear of the machine may shift the same to either side without pulling on the lines of the draft-animals by simply moving the hand-bar F in a direction opposite to that in which it is desired to move the machine.

Having described my invention, what I claim is—

1. The combination, in a wheel-cultivator, of the main frame, the arched bar B, having annular portions *a* formed on its lower ends, the brackets journaled on the said ends *a* and provided with spindles, the rearwardly-extending arms fixed to the brackets, and the hand-bar pivoted to and connecting the ends of the said arms, substantially as specified.

2. The combination, in a cultivator, of the front and rear arched bars secured to the

draft-beam, the axle-spindle journaled on the ends of rear arched bars, and having rearwardly-extending arms pivotally connected, the front arched bar terminating in horizontal branches, the rods connecting the said branches with the lower ends of the rear arched bar, the cultivator-frames journaled on the front arched bar, and the curved notch-bars for engaging the handles of the cultivators, substantially as specified.

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

SOLOMON DRAPER.

Witnesses:
W. C. HULTZ,
J. LOCKWOOD.