

(No Model.)

2 Sheets—Sheet 1.

O. J. KING.
Cultivator.

No. 227,543.

Patented May 11, 1880.

Fig. 1

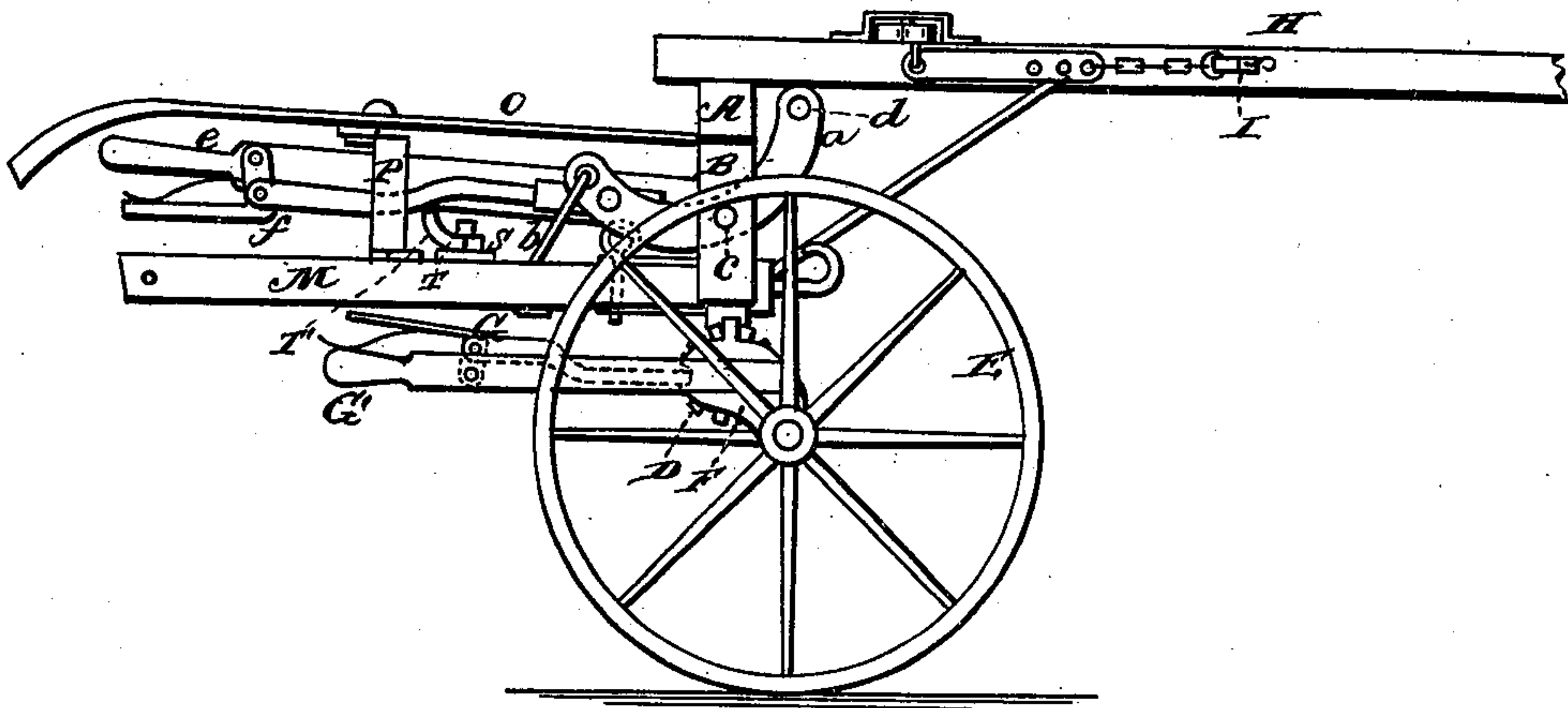
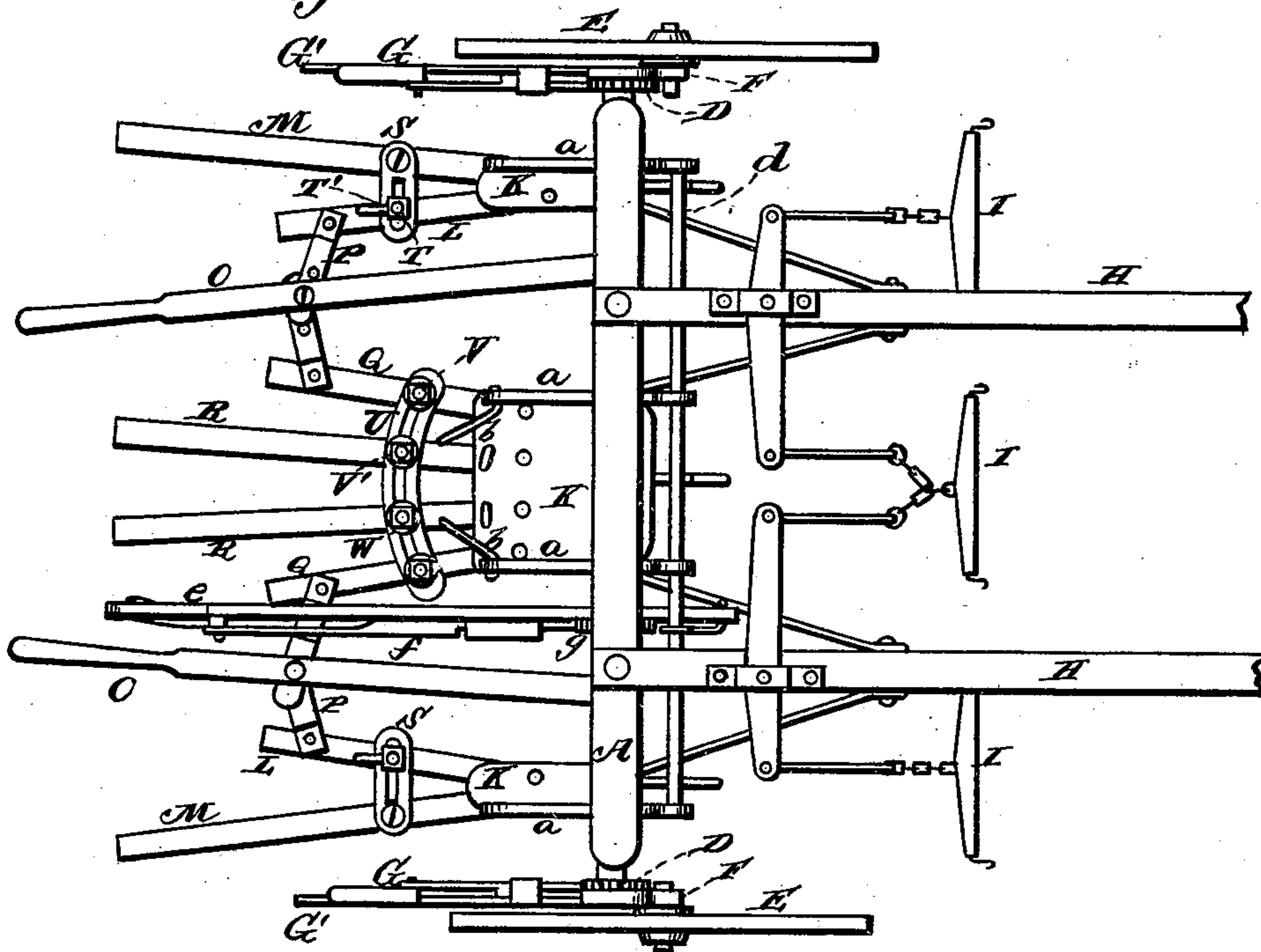


Fig. 2.



WITNESSES

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Fig. 3.

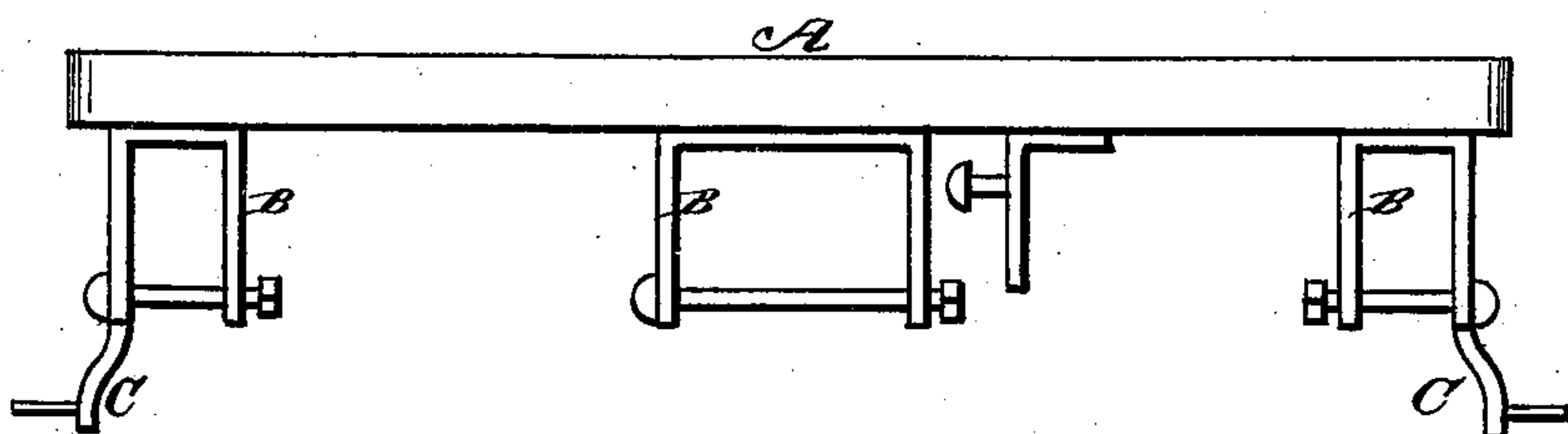


Fig. 4.

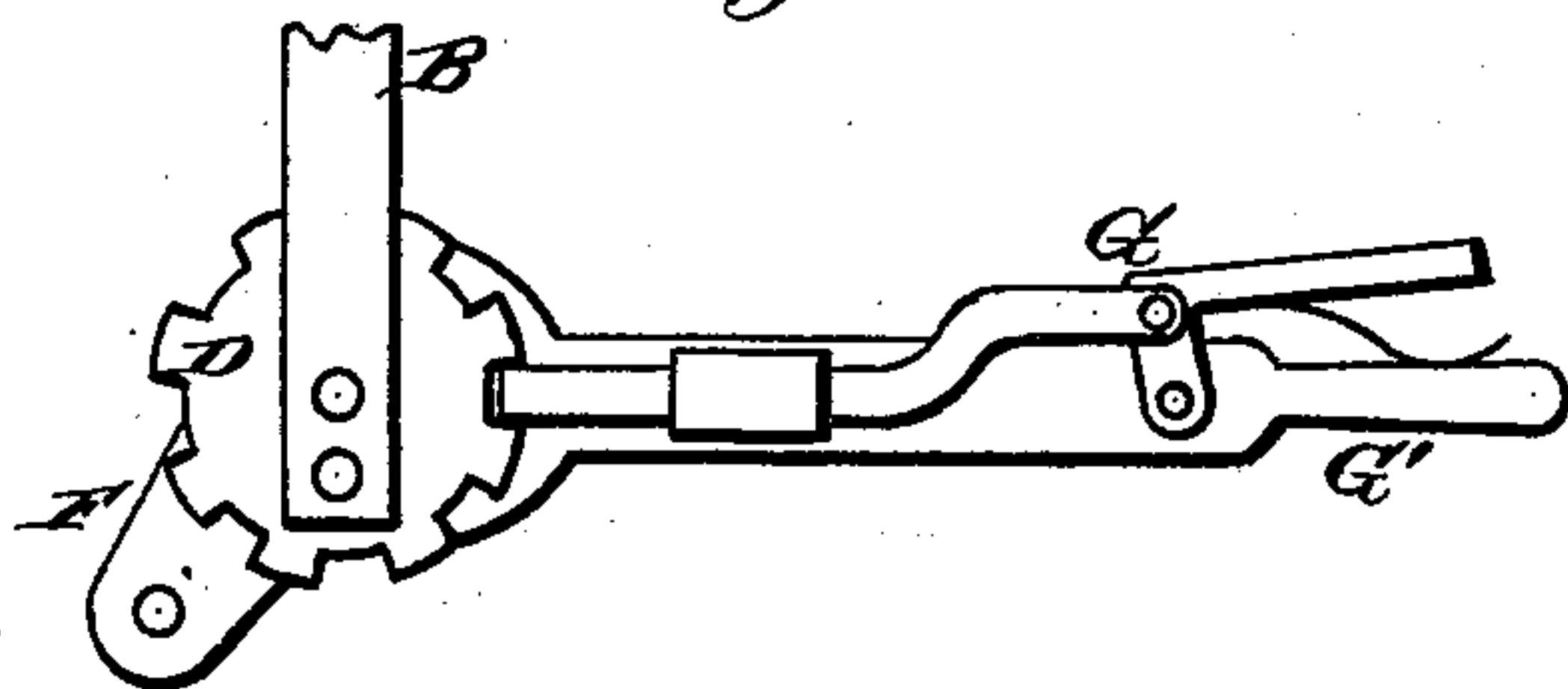
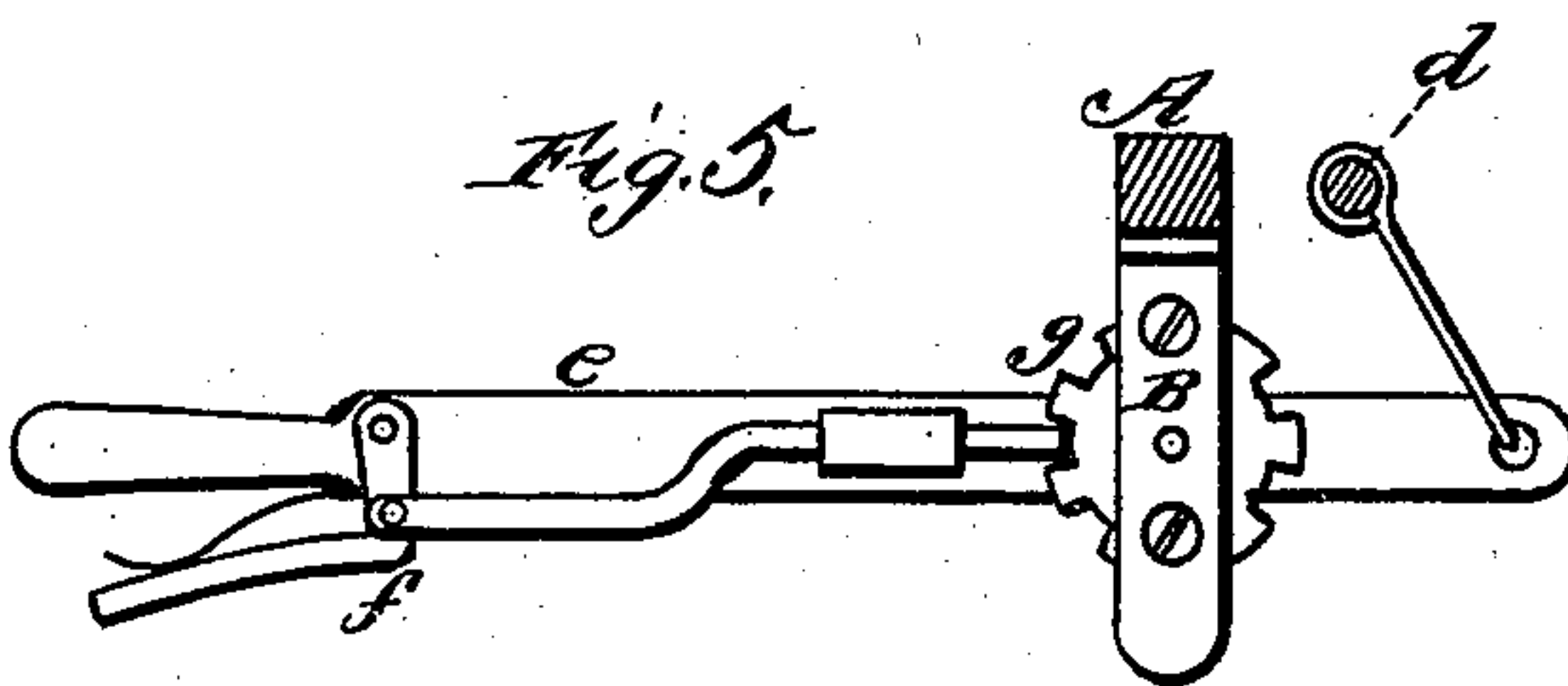


Fig. 5.



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UNITED STATES PATENT OFFICE.

ORLANDO J. KING, OF CHARITON, IOWA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 227,543, dated May 11, 1880.

Application filed March 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, ORLANDO J. KING, of Chariton, in the county of Lucas and State of Iowa, have invented certain new and useful
5 Improvements in Double Straddle-Row Three-Horse Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed
10 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my cultivator. Fig. 2 is
15 a plan view of the same; and Figs. 3, 4, and 5 are detail views.

The nature of my invention relates to cultivators; and it consists in the features of construction and combination hereinafter set
20 forth, and particularly pointed out in the claims.

A designates a cross-bar of the main frame, this bar being long enough to straddle two rows. This bar has standards B secured to its
25 under side, the standards being composed of bent bars, as illustrated. The two end standards extend down lower than the remaining standards, and are curved, as at C, and to these curved parts C are secured the ratchet-wheels
30 D. The axles of the wheels E are secured to plates F, which are pivoted to the ratchet-wheels, and connected with the plates F are latching-levers G. The axles of the wheels being thus mounted upon these plates, the
35 wheels can be raised or lowered by means of the hand-levers G', to which the latching levers are connected.

H H are the poles, and I I the single-trees. K are coupling-plates between the standards,
40 and L are short and M long shovel-beams. The long beams M are rigidly secured between the coupling-plates, and the short beams L are pivoted.

The short beams L are adjusted by levers
45 O, connected with angle-bars P P, which are secured to said short beams, and also to the

short beams Q Q of a set of center beams, comprising the short beams Q Q and the long beams R R.

The beams L and M are connected by slotted plates S S and bolts T T with nuts T' T', and
50 beams Q R are connected by a curved slotted plate, U, bolts V being secured to the beams and passed through the slot of the curved plate. These bolts have nuts V', washers W being interposed between the nuts and the
55 curved slotted plate.

All of the long beams herein shown are connected with curved plates a a by rods b, these plates being secured by bolts c to the standards. These curved plates a turn upon the
60 bolts or pivots c, and are connected at their upper ends in advance of the main cross-bar A with a rod, d, and this rod connects with a hand-lever, e, which is held in place by a latching-lever, f, and a ratchet, g, with which the
65 latching-lever engages. This admits of an up or down adjustment of the beams.

What I claim is—

1. The combination of the straddling-beam A in a cultivator with the standard B, coupling-plate K, and the long and short shovel-
70 beams, arranged as herein described, the said long beams being rigidly secured to the coupling-plates, and the short beams being pivoted and connected with levers, substantially as
75 herein shown and set forth.

2. The combination of the straddling-bar A in a cultivator with a series of fixed and adjustable beams, arranged to be raised or lowered by hand-levers e and segment-levers a,
80 the coupling-plates K, holding the forward ends of the beams and pivoted between the standards B, and shaft d, substantially as herein shown and set forth.

In testimony that I claim the above I have
85 hereunto subscribed my name in the presence of two witnesses.

O. J. KING.

Witnesses:

DELL STUART,
F. H. SPRAGUE.