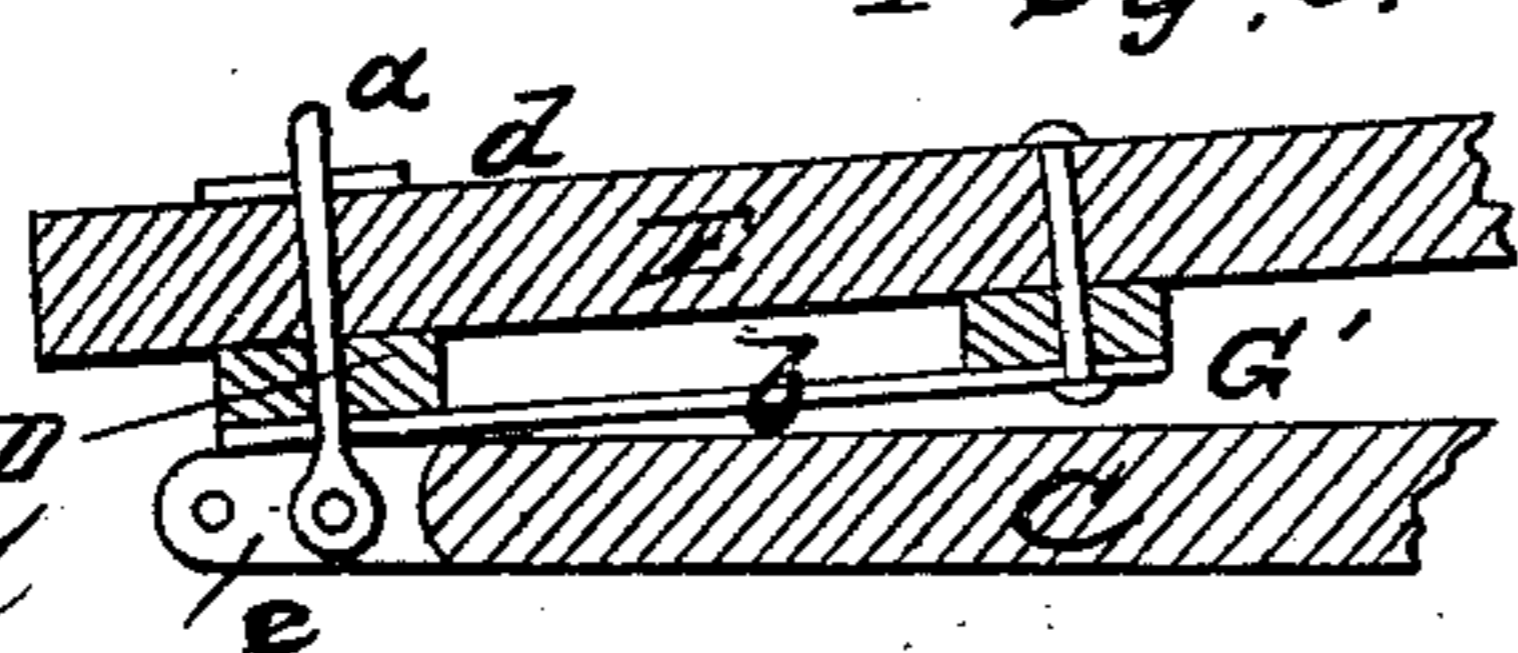
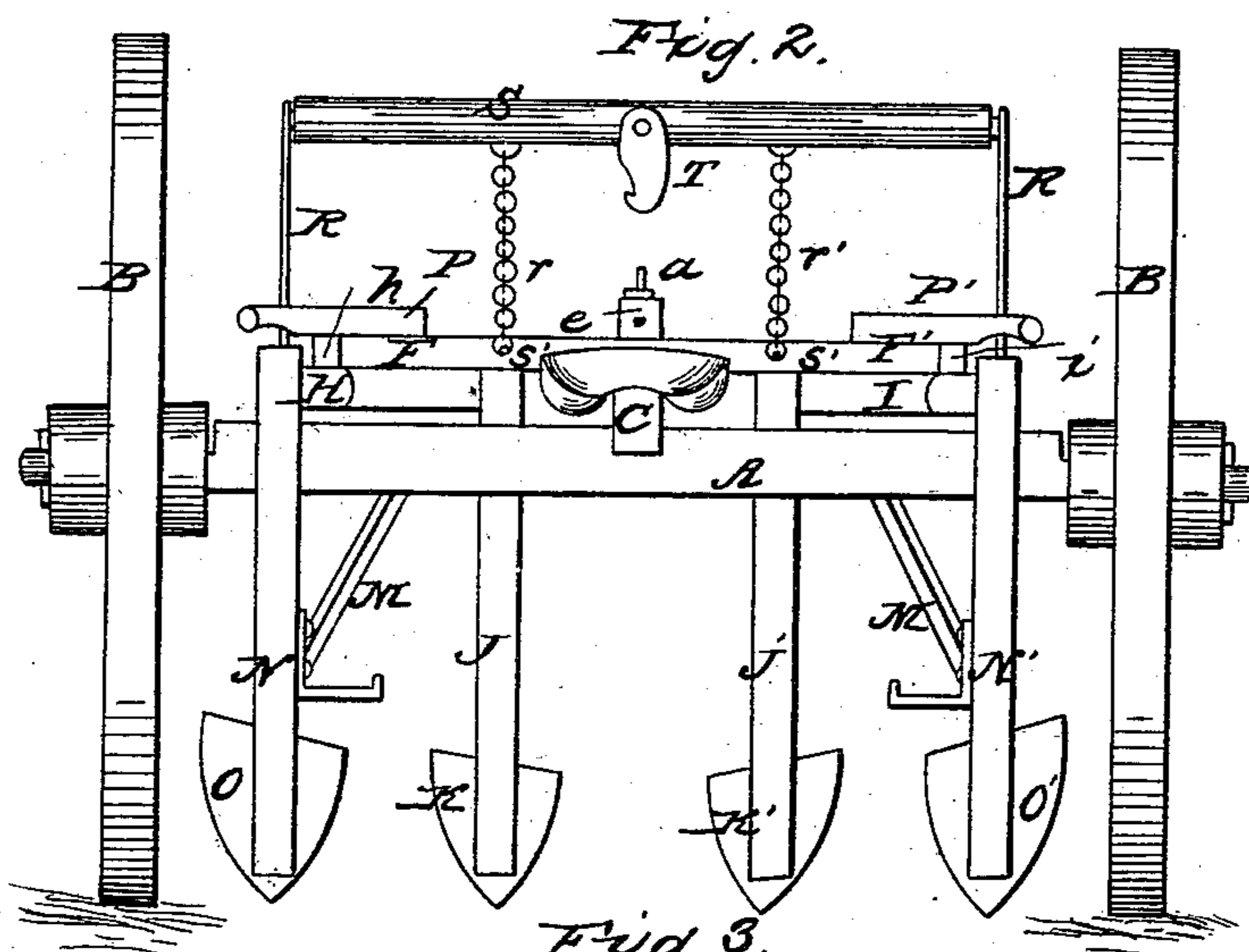
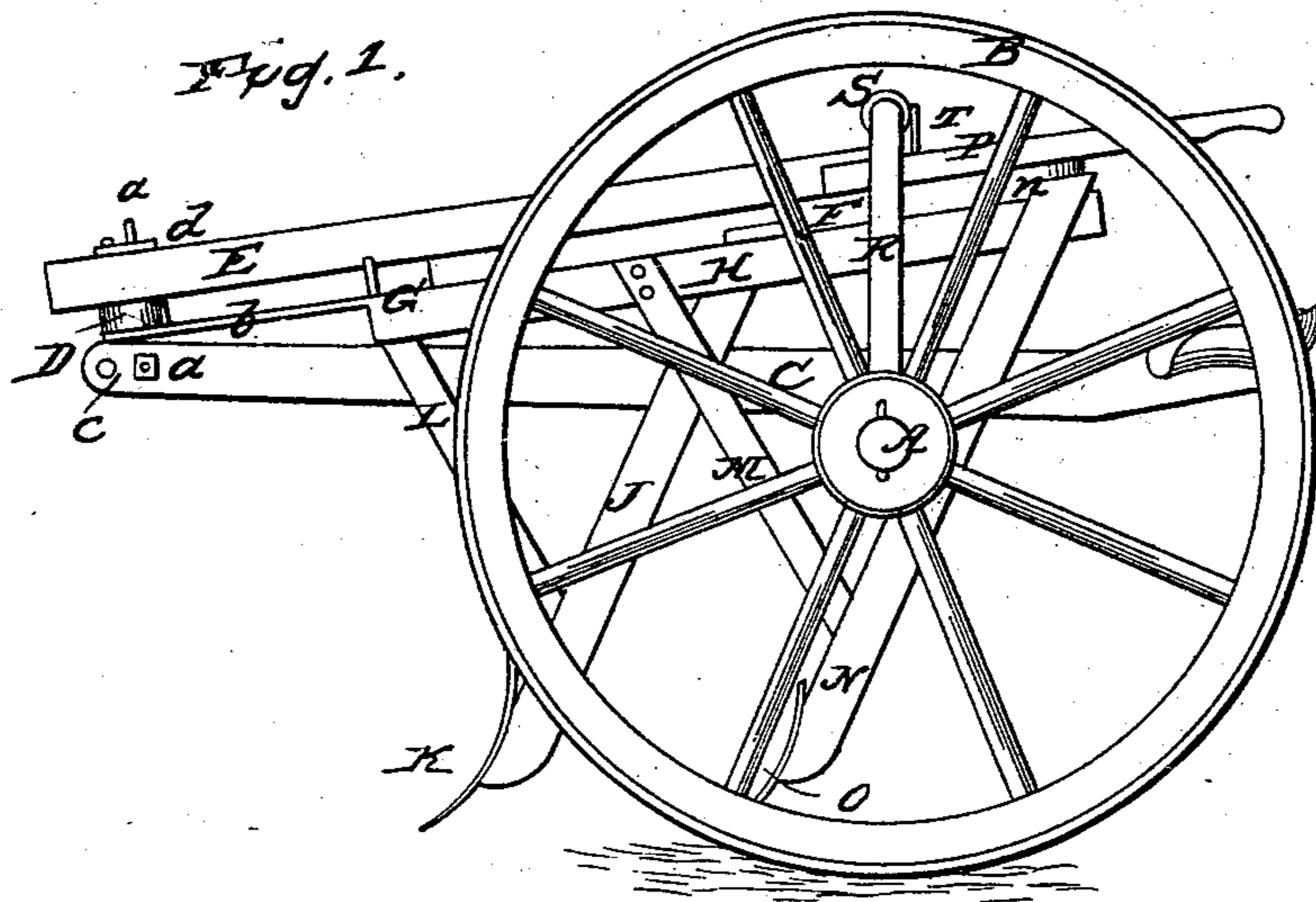


CHAPPELL & MONTGOMERY.

Cultivator.

No. 84,611.

Patented Dec. 1, 1868.



Witnesses

do Our and

Wm. Mansden

Inventors:

Isaac H. Chappell
James Montgomery

By *Alex. A. C. Hauke & Co*
their attorneys



ISAAC H. CHAPPELL AND JAMES MONTGOMERY, OF DECATUR,
ILLINOIS.

Letters Patent No. 84,611, dated December 1, 1868.

IMPROVEMENT IN CULTIVATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, ISAAC H. CHAPPELL and JAMES MONTGOMERY, both of Decatur, in the county of Macon, and State of Illinois, have invented new and useful Improvements in Cultivators; and we do hereby declare the following to be a full and correct description of the same, sufficient to enable others skilled in the art to which our invention appertains, to fully understand and construct the same, reference being had to the accompanying drawings, which make part of this specification, and in which—

Figure 1 is a side elevation of our improved cultivator;

Figure 2 is a rear elevation of the same; and

Figure 3 is a sectional view of part of it.

Like letters of reference indicate like parts in the several figures.

The nature of our invention consists, first, in a novel connection of the draught-pole to the seat-bar, whereby an easy management of the cultivator-plow frame is obtained; secondly, in a novel means of elevating the cultivator-plow frame by a roller pivoted between two standards, to which the frame is connected by chains, and to which it can be secured in an elevated position when the plows are out of the ground.

A, in the drawings, may represent the axle, on which the wheels B move.

On the centre of this axle A is secured the seat-bar C, the forward end of which is slotted at c.

In this slot c is pivoted a pin, a, which passes through a bar, b, the whiffle-tree D, and draught-pole E, a nut, d, moving on its threaded end, holding the different bars together.

The bar b is secured at its rear end to the under side of the front cross-piece G of the frame to which the draught-pole E is fastened.

These cross-pieces, F and G, are secured to the side-beams H I, which converge towards the forward end of the frame.

On the inside of these beams H I are fastened standards J J' of the plows K K', which are braced to the cross-piece F by braces L, while braces M brace the

standards N N' of the plows O O', secured to the outside of beams H I, and to the rear of standards J J', the axle A passing between the two sets of standards.

On the rear ends of beams H I are formed blocks h i, to which handles P P' are attached, their forward ends being fastened on the cross-piece G.

On the axle A, outside of beams H I, are secured uprights, R R', between which a roller, S, is pivoted.

Attached to this roller are chains r r', which hook over pins or hooks s s', on the rear side of cross-piece G.

By means of these chains and hooks the plow-frame can be set at any depth required.

The end of the draught-pole E is provided with a pin or hook, e, over which the lever-hook T on the roller S, may be hooked when it is desired to elevate the plows entirely out of and over the ground.

The advantages of our improved attachment of the draught-pole and seat-bar are many.

The draught-pole E, being pivoted laterally on pin a, allows a lateral movement of the plow-frame, while a horizontal movement is given to it by the slot c, in which pin a is pivoted.

The seat, with the driver's weight, balances the draught-pole, and assists in elevating the plow-frame.

The hook T may be used as a lever on the roller S, to elevate the frame momentarily, to avoid stones, stumps, rocks, &c., while, by the chains r r' and hooks s s', the frame can be set to any required depth.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. A cultivator, the draught-pole and plow-frame of which are pivoted on the seat-bar, substantially as and for the purposes set forth.

2. The attachment of the draught-pole to the seat-bar, by means of the pin a, pivoted in slot c and nut d, substantially as and for the purposes set forth.

ISAAC H. CHAPPELL.
JAMES MONTGOMERY.

Witnesses:

JAMES TRAVIS,
JOHN W. COLEMAN.