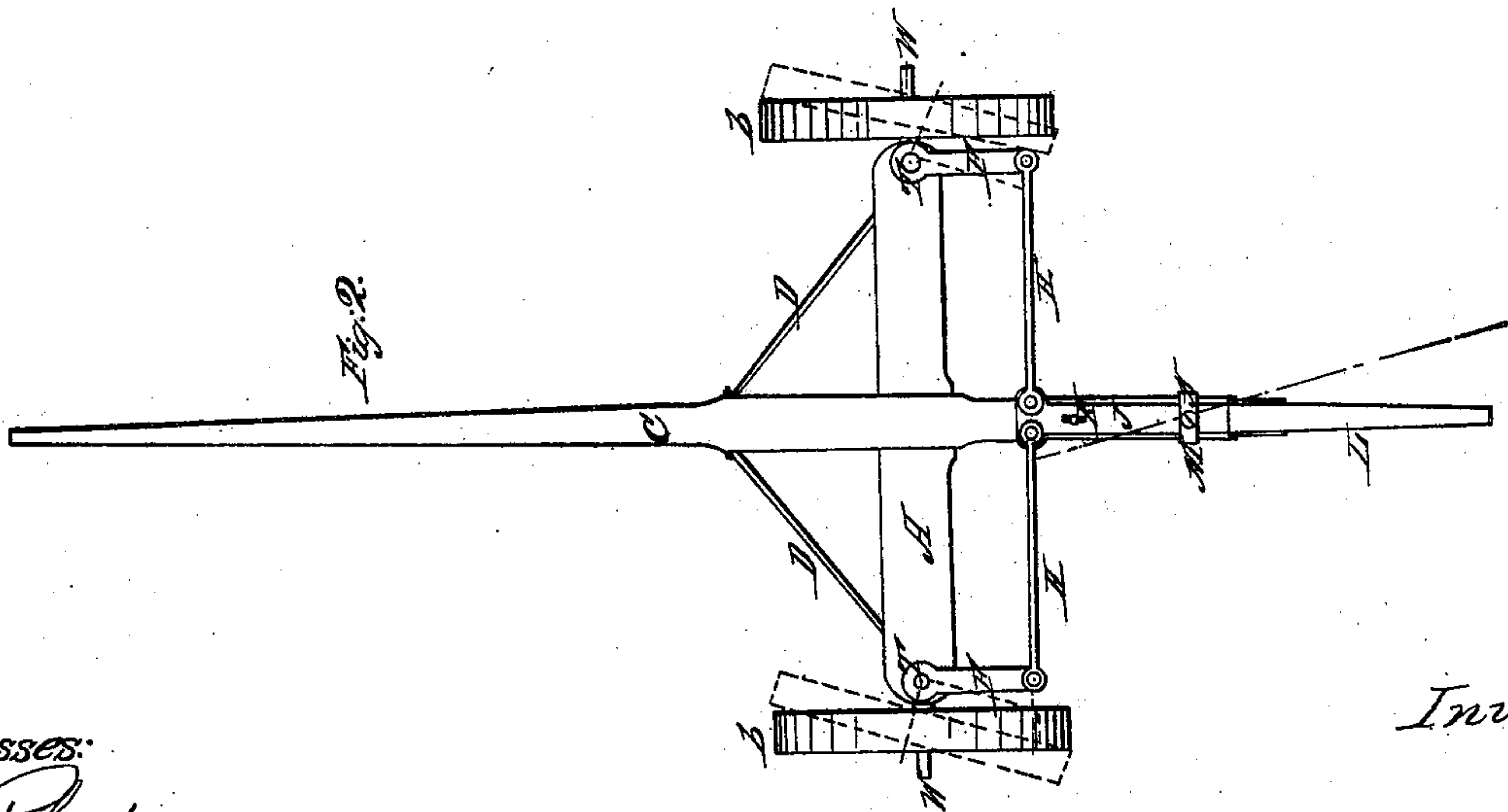
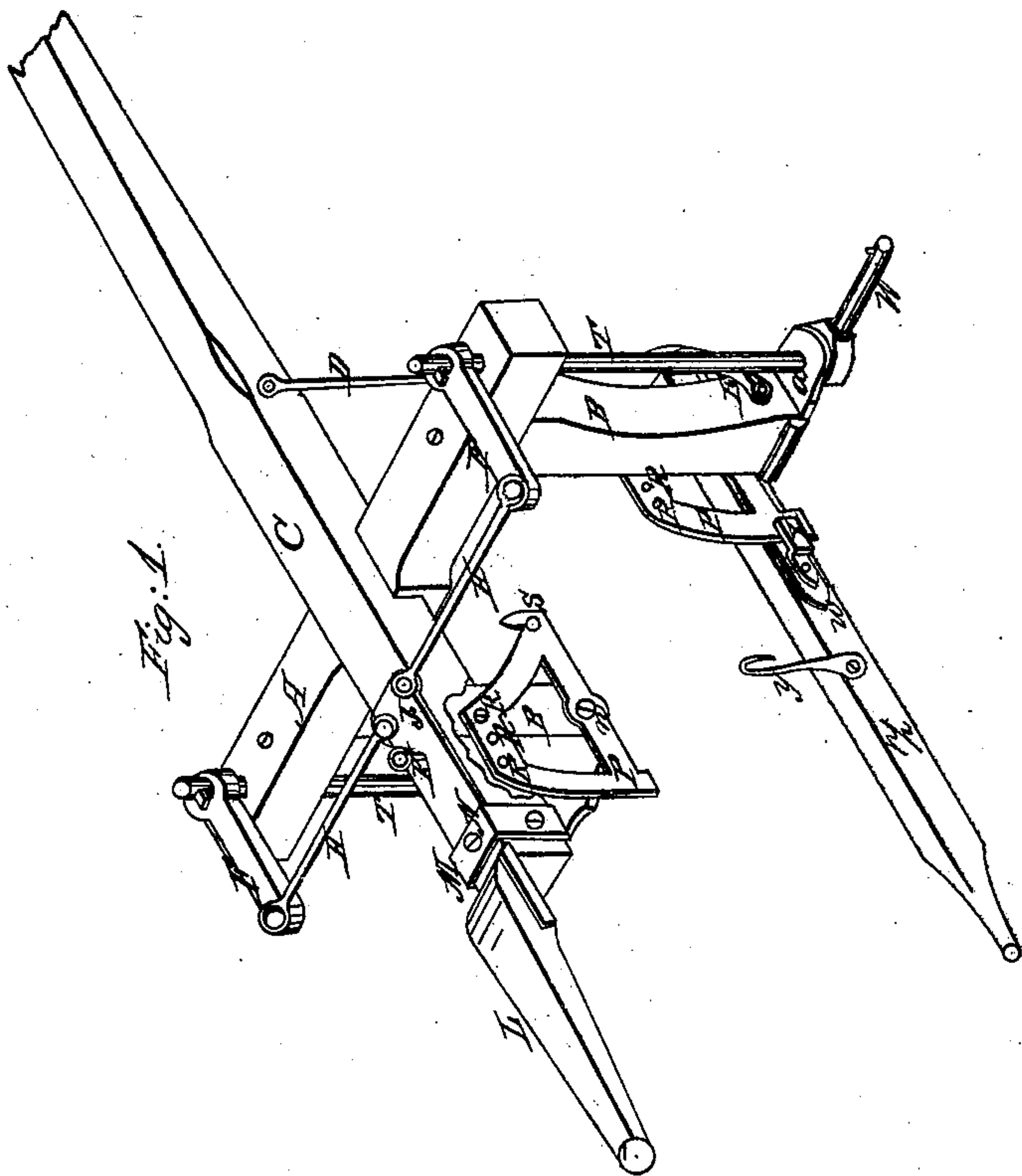


R. H. Henry

Cultivator.

N^o 85,662.

Patented Jan. 5, 1869.



Witnesses:
V. B. Richards
J. B. Hart

Inventor:

R. H. Henry

United States Patent Office.

R. H. HENRY, OF MONMOUTH, ILLINOIS.

Letters Patent No. 85,662, dated January 5, 1869.

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 I, R. H. HENRY, of Monmouth, in the county of Warren, and State of Illinois, have invented certain new and useful Improvements in Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in that class of cultivators in which the supporting-wheels are so pivoted to the main frame as to allow their direction being changed in relation to the said frame, for the purpose of giving side movement to the plows, to avoid hills out of line, &c.; and

The invention consists in the construction and arrangement of the joint for attaching the plow-beams to the main frame, and in the combination of the same with the main frame in such manner as to allow of the most perfect control of the plows by a simple hand-lever.

Figure 1 is a perspective view, showing one plow-beam (the right-hand one) attached, and the other (the left-hand one) off.

Figure 2 is a top plan or view of the wheels, axle, and tongue, and the device for controlling the direction of the wheels.

Similar letters of reference indicate corresponding parts.

Letters B B represent upright posts, supporting, on their top, the axle A, and, at their base, the plates *a a*.

D represents braces, connecting the uprights B to the tongue or draught-pole C.

T represents vertical axles, pivoted, or operating in suitable bearings through the ends of axle A, and through the plates *a*.

The vertical axles T have the wheel-spindles W attached to their lower end, at right angles with them-

selves, and carry, at the upper end, the arms F, attached to them by means of a key.

H represents rods, pivoted to the arms F at their out ends, and to a lever, J, at their in ends, or adjacent ends, the lever J having an operating-handle, L, and being pivoted, at N, on the rear end of tongue C.

M represents a guard, for holding the lever J in place.

It will readily, by reference to fig. 2, be seen that, by moving the lever L to the position shown by the dotted lines, the direction of the frame will be changed, and consequently the plows, and that rows of plants may be plowed or cultivated to much nearer their ends than by the usual plows and devices hinged at the end of beams.

P R S represent the part of joint which is attached to uprights B, and to which the beam-plate *w* is pivoted at S, allowing free vertical movement of the plows, which are held steady, at the same time, by the guard X.

The plate P is pivoted at *n*, and, by changing the bolt R, the points of the beams may be raised or lowered.

Having thus described my invention,

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

The adjustable plates P, beam-plate W, and guard X, constructed and arranged substantially as described, and combined with the frame A B C D, axles T W, arms F, rods H, and lever J L, substantially as and for the purpose described.

Subscribed and witnessed, this 4th day of September, 1868.

R. H. HENRY.

Witnesses:

W. B. RICHARDS,
IRA A. PALMER.