

(No Model.)

J. C. DOANE.

CULTIVATOR.

No. 300,055.

Patented June 10, 1884.

Fig. 1.

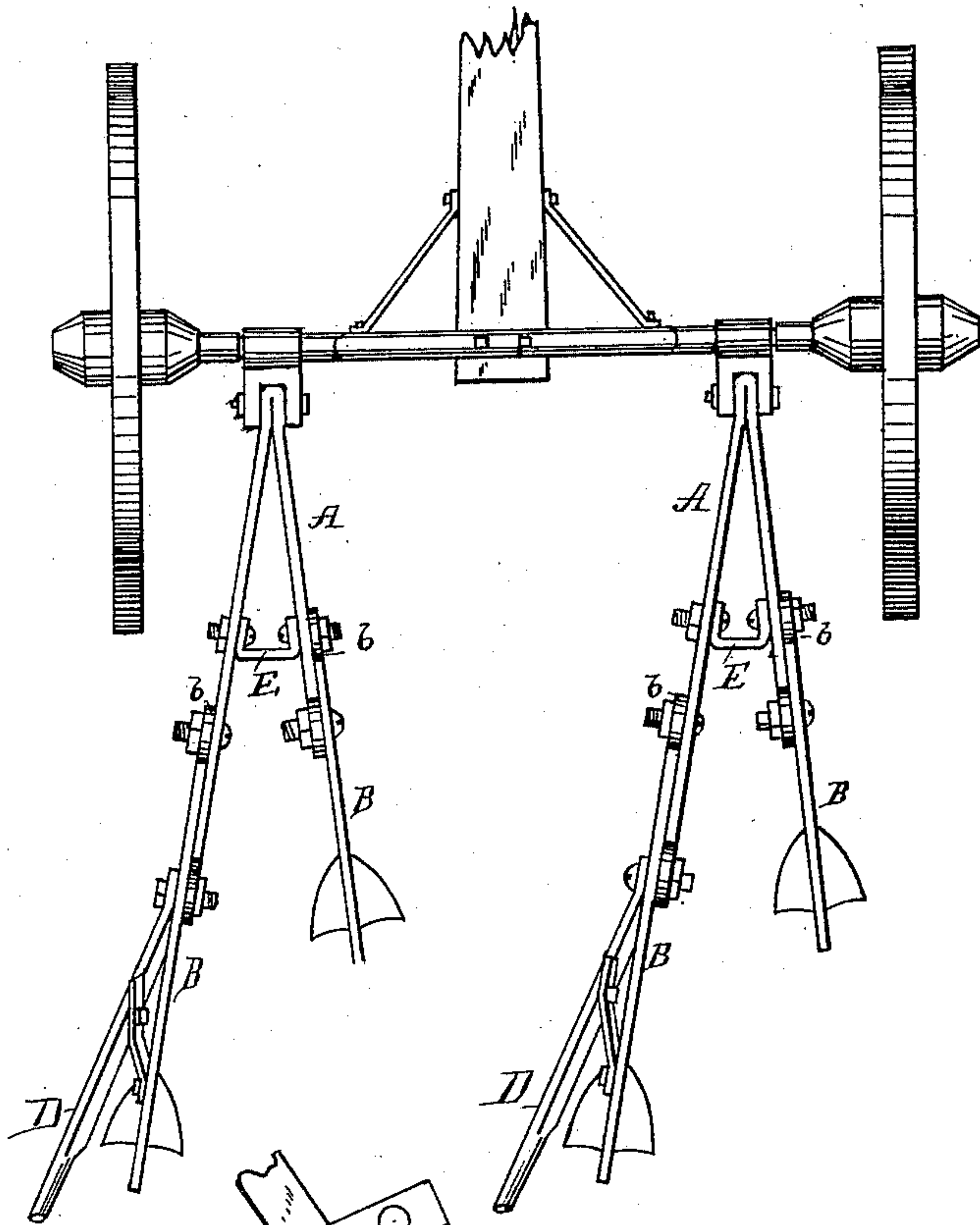
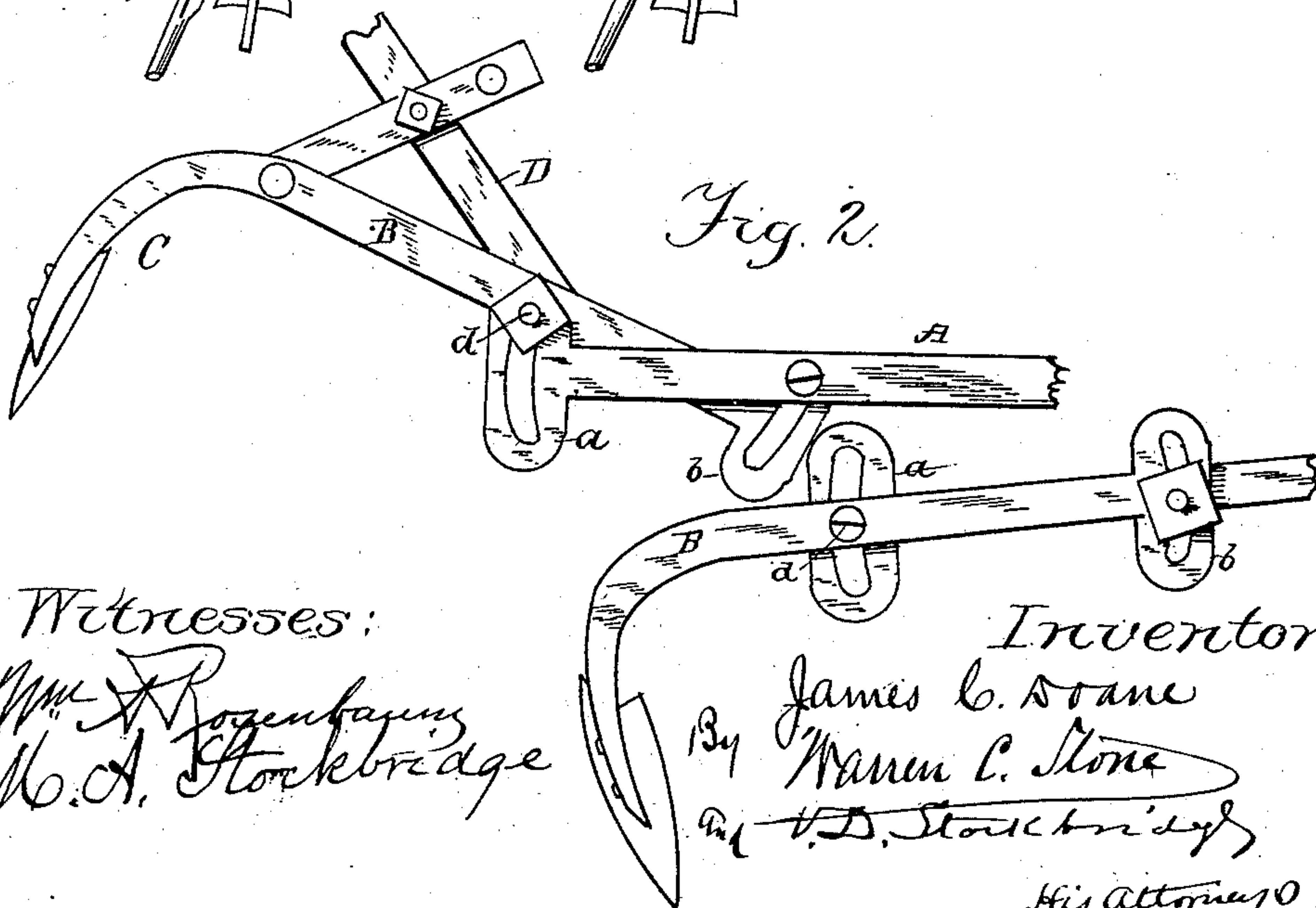


Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES C. DOANE, OF WESTERN, NEBRASKA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 300,055, dated June 10, 1884.

Application filed December 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, J. C. DOANE, a citizen of the United States, residing at Western, in the county of Saline and State of Nebraska, have invented certain new and useful Improvements in Cultivators; and I do hereby 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

In the drawings, Figure 1 is a plan of a straddle-row cultivator, and Fig. 2 is a side elevation of one of the drags with a part broken away, showing my invention, which consists in making the sides or beam in two parts, each having slotted cross-heads, and coupling them together by bolts.

The object of this construction is to provide for adjusting the plows or teeth at any angle that may be desired with the line of draft, and at a greater angle than if only one slotted cross-head were employed, so that the plows will work to a greater or less depth, to suit the circumstances required in use. A further object is to make the ordinary slip joint or connection so that should the plows be obstructed by a root or stone the coupling could slip or give way and would have a greater swing than would the ordinary single slip-joint.

A is the bifurcated beam of a cultivator, and B B are the separate extensions to which the plows are attached. The main part of the

beam is provided with slotted cross-heads *a a* at the rear ends, and the extensions B B are also provided with like slotted cross-heads, *b b*, at their forward ends, and bolts *d d* pass through the extensions B B into and through the slots *a a*. By means of suitable nuts, either thumb-nuts or nuts provided with a handle, the parts are clamped together and held at any desired angle with each other under any ordinary strain, but in such way that an extraordinary strain will produce a slip and permit the plow to assume a position like that illustrated in the drawings at C, when it will readily ride over a root or other usual obstruction.

D D are the handles, adjustably connected with the extension-piece. The sides of the beam are supported by a brace or stay, E, which may be moved back and the frame contracted in width, if desired.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a cultivator-drag, the combination of main beams and extensions, each provided with slotted cross-heads and secured together, as described, whereby the adjustment and relief of the plows is secured, as specified.

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

JAMES C. DOANE.

Witnesses:

A. BAMER,
JENNIE BAMER.