

(No Model.)

F. E. GRISWOLD.

CULTIVATOR.

No. 398,041.

Patented Feb. 19, 1889.

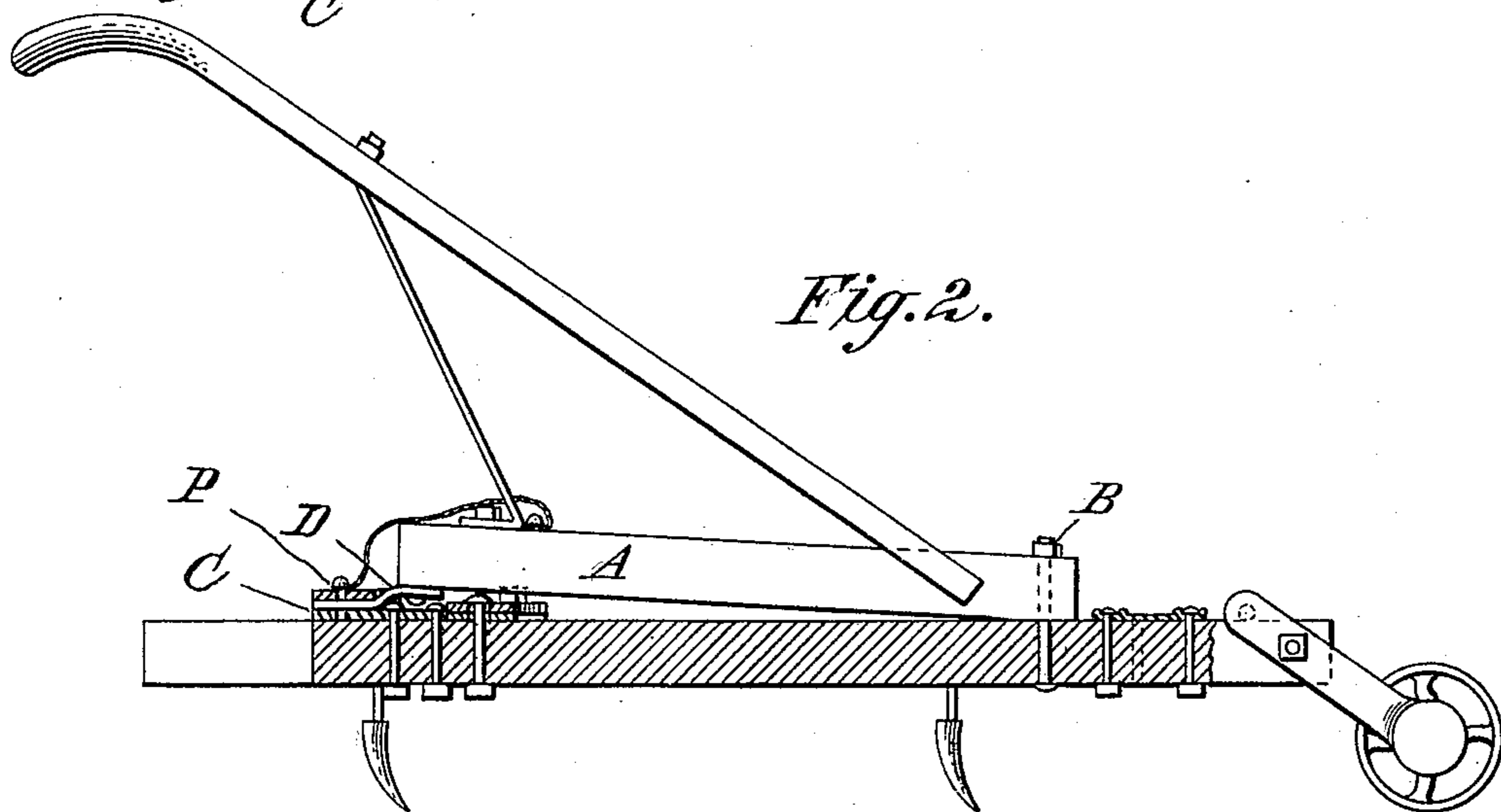
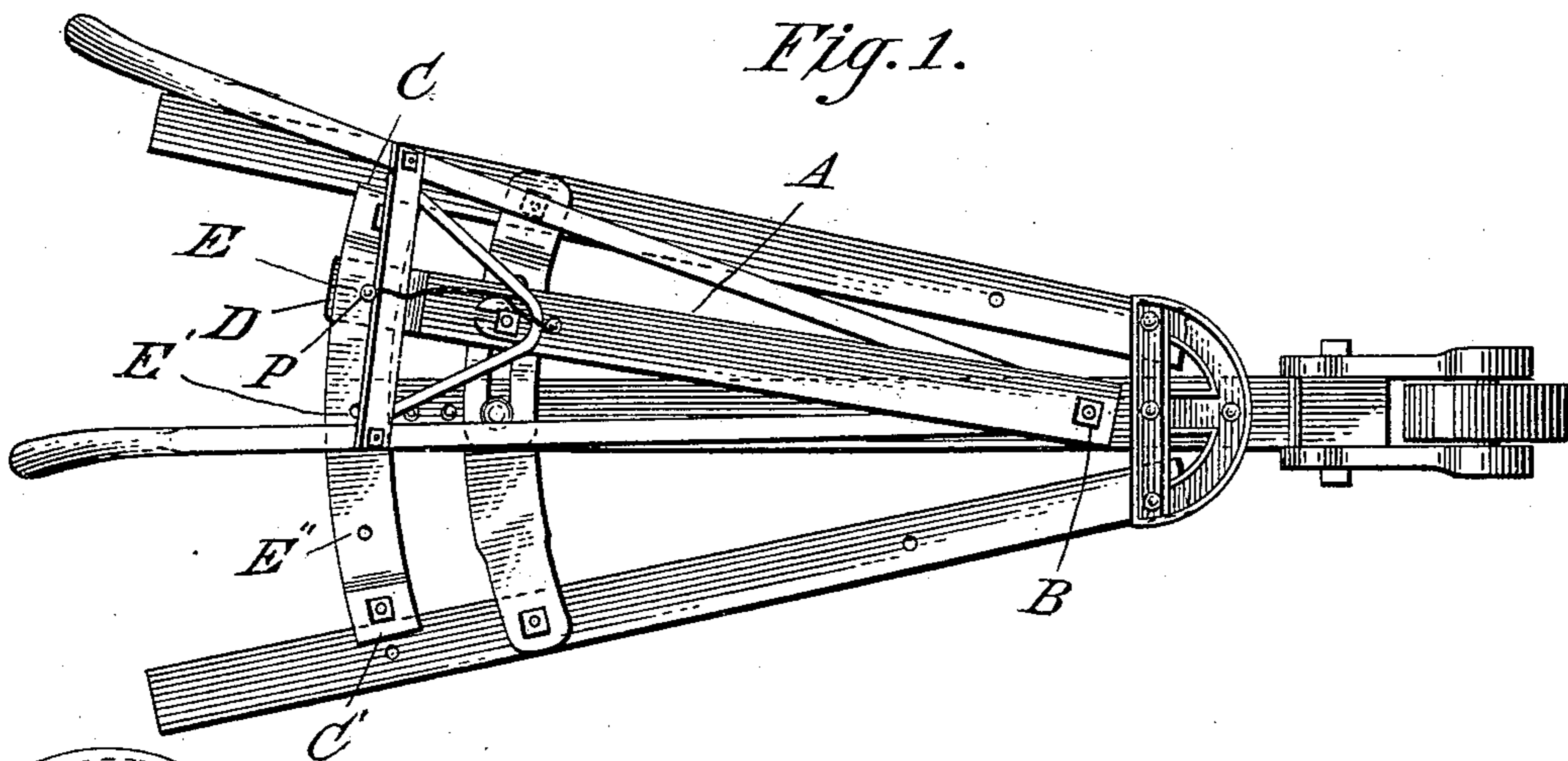
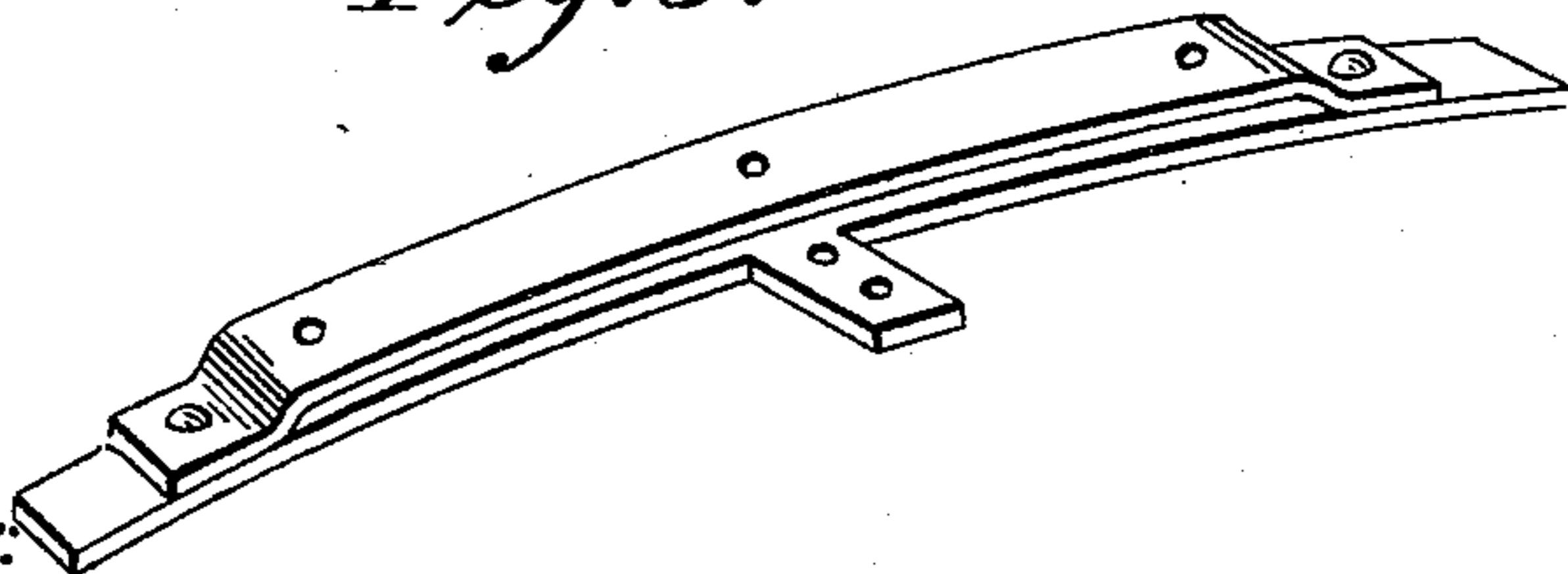


Fig. 3.

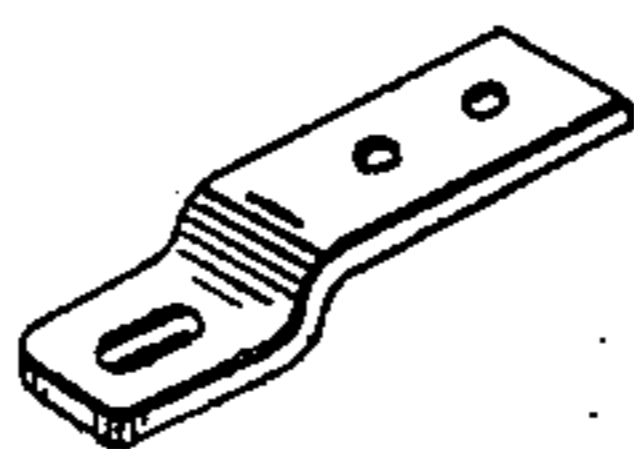


Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

FRED E. GRISWOLD, OF NAPLES, NEW YORK, ASSIGNOR OF ONE-HALF TO
LUCIEN E. MUNSELL, OF SAME PLACE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 398,041, dated February 19, 1889.

Application filed July 19, 1888. Serial No. 280,453. (No model.)

To all whom it may concern:

Be it known that I, FRED E. GRISWOLD, a citizen of the United States, residing at Naples, in the county of Ontario and State of New York, have invented a new and useful Appliance for the Fastening and Shifting from Side to Side of the Handles of a Cultivator, of which the following is a specification.

My invention relates to an improvement in cultivators, in which the handles are fastened to a middle piece of wood or metal that is independent of and may be entirely separated from the main part or body of the cultivator, being attached thereto, by means of an iron bolt, near the point where the handles are permanently fastened in the old style of cultivators. This bolt serves as a pivot on which the piece supporting the handles may turn from side to side, and to the rear end of this piece (which supports the handles) is attached a small iron plate that slides laterally between two curved iron plates riveted together and fastened at the back end of the cultivator; and the invention consists in improved means for the lateral adjustment of cultivator-handles. I attain this object by the mechanism illustrated in the accompanying drawings.

Figure 1 represents a cultivator with my appliance attached. Fig. 2 is a side view, and Fig. 3 shows the construction of the arc and plate.

Similar letters of reference indicate corresponding parts in all the figures.

A represents the piece or handle-beam,

which may be constructed of wood or metal, (when constructed of metal the piece A and plate D are substantially one,) to which the handles are attached.

B represents the bolt which fastens the handle-beam A to the body of the cultivator, and serves as a pivot on which the handle-beam A turns from side to side.

C C' represent the iron plates, riveted together, between which slides the plate D. This is really one piece, and is fastened to the back end of the center beam of the cultivator. It forms an arc of a circle of which the bolt or pivot B is the center.

D represents the iron plate fastened to the back end of the above-described handle-beam A and sliding in C C'. It may be fastened with the iron pin P, so as to be stationary at three points—E, left side; E', middle; E'', right side.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

An appliance for the fastening and lateral shifting of the handles of a cultivator, consisting of the piece or handle-beam A, the bolt B, the arc C C', the plate D, and the pin P, all substantially as set forth, and for the purposes specified.

FRED E. GRISWOLD.

Witnesses:

S. L. DEYO,
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