

(No Model.)

T. MEIKLE.

COMBINED PLOW AND CULTIVATOR.

No. 269,871.

Patented Jan. 2, 1883.

Fig. 1.

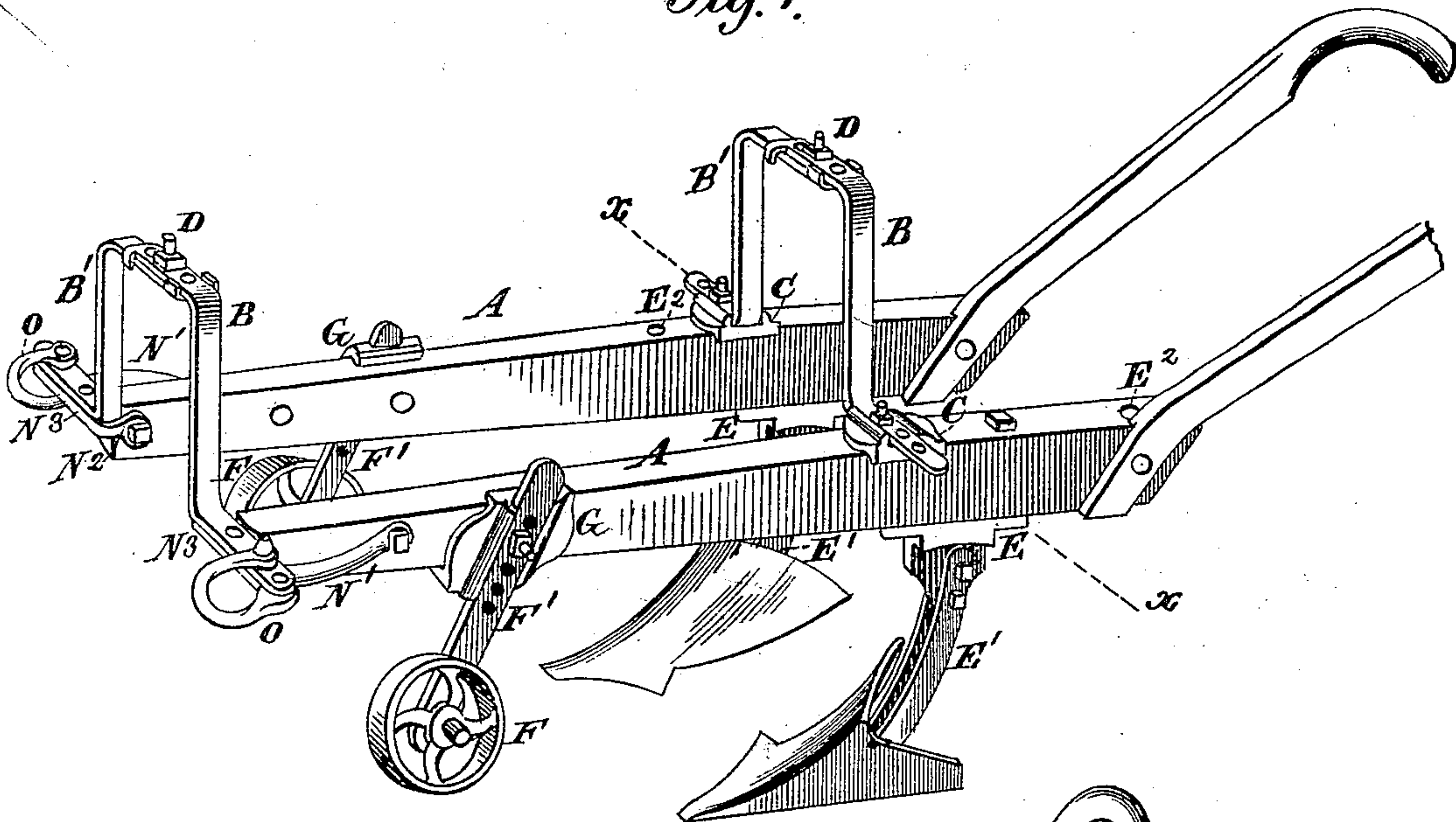


Fig. 2.

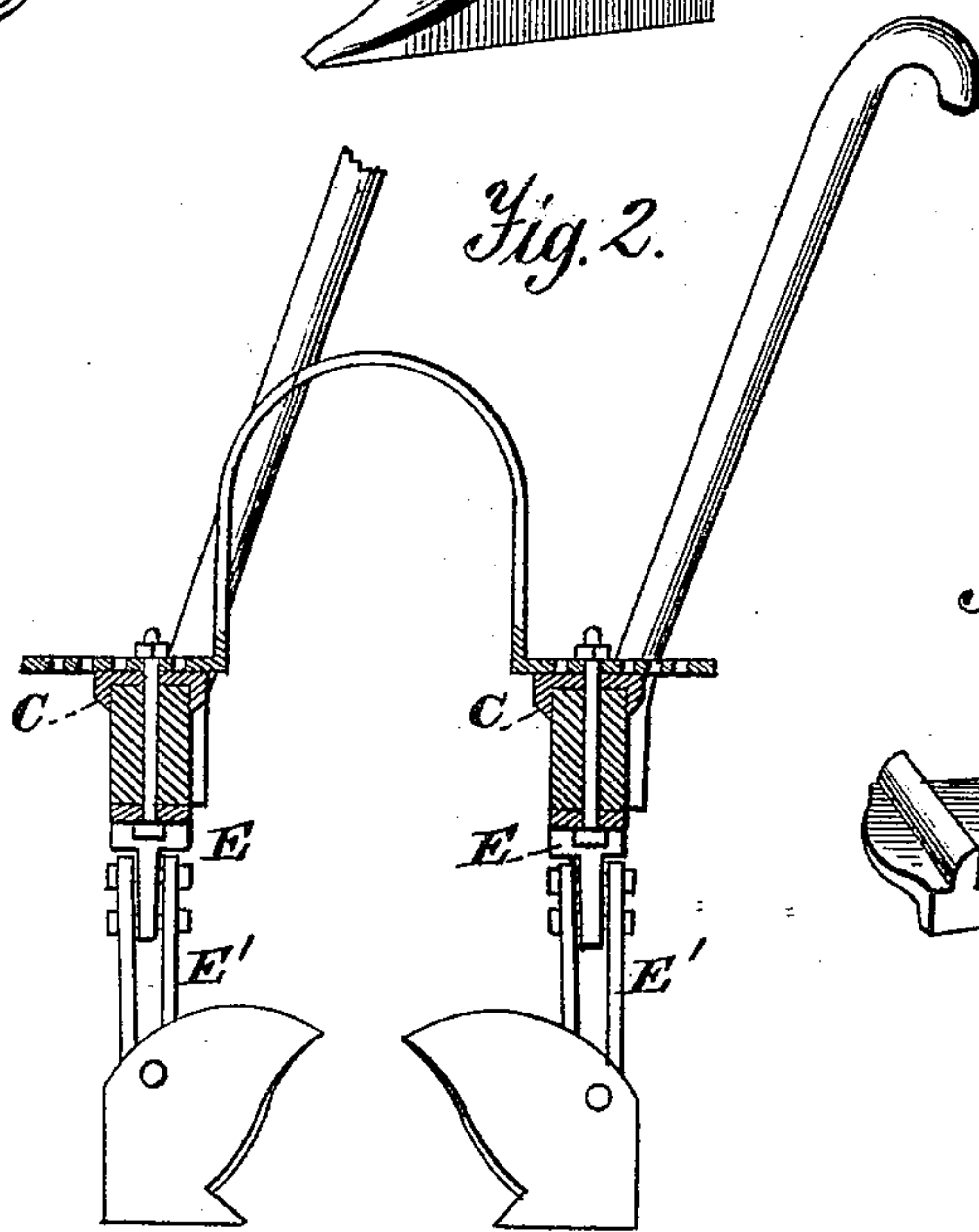


Fig. 3.

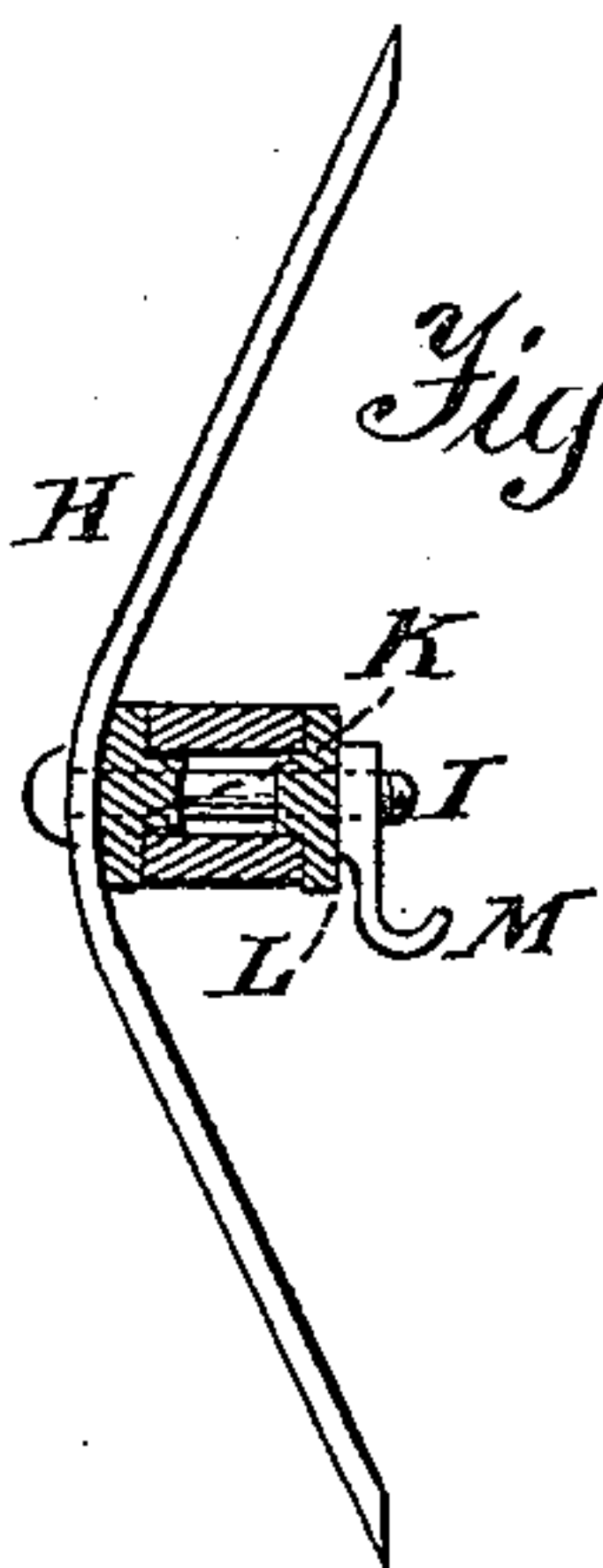


Fig. 4.

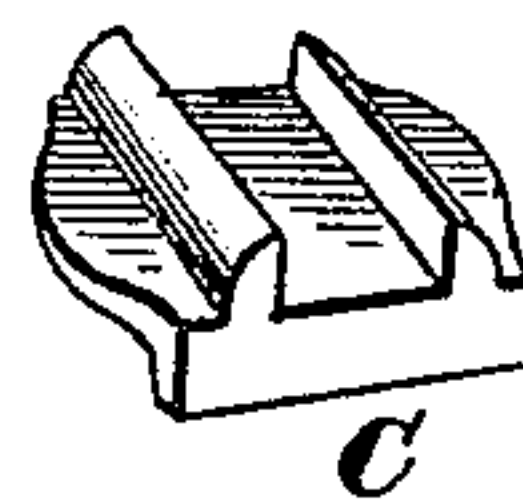
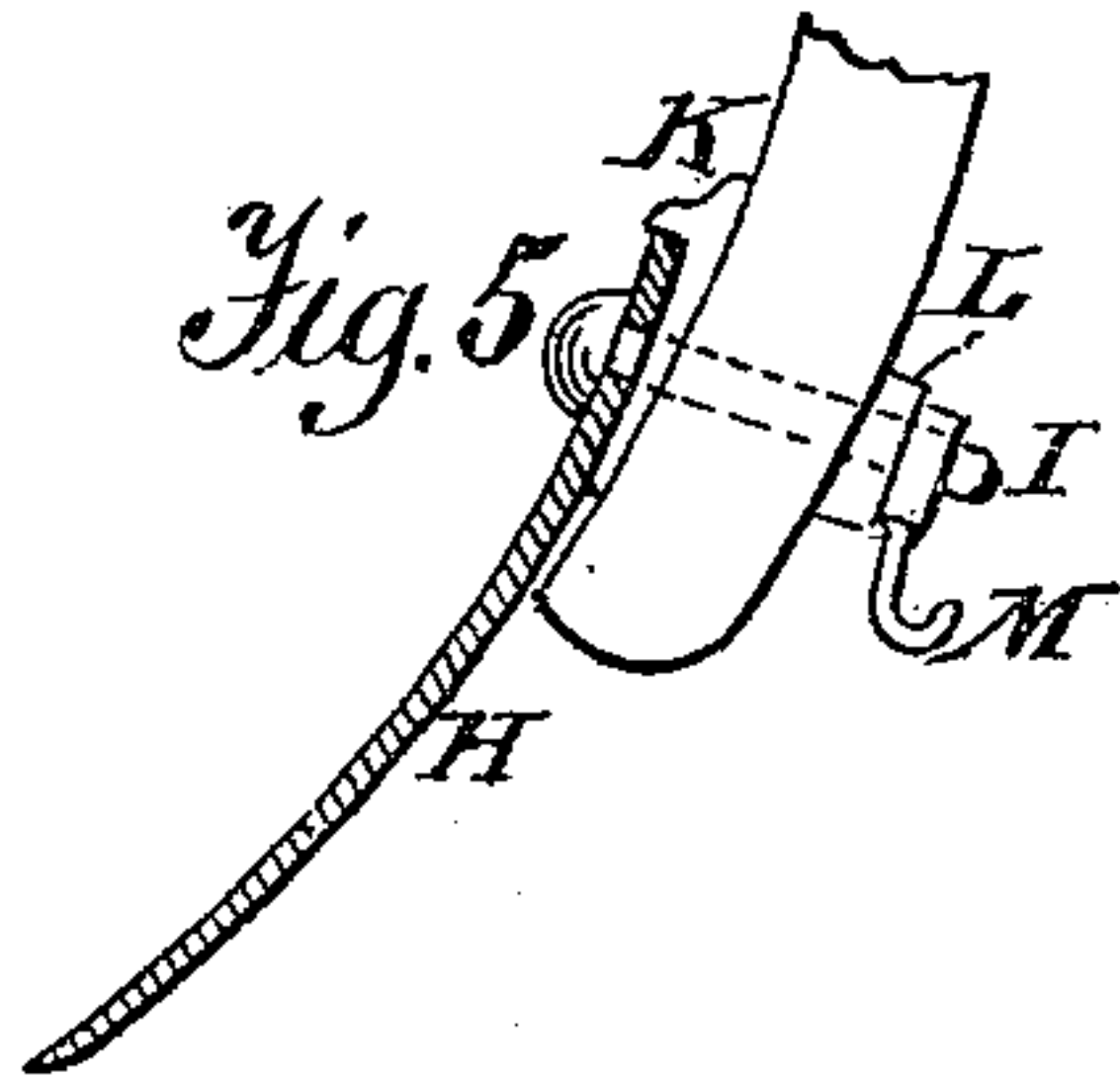


Fig. 5.



Witnesses.
A. Ruppert
J. G. Mason.

T. Meikle.
Inventor.
by R. Mason
his atty.

UNITED STATES PATENT OFFICE.

THOMAS MEIKLE, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO THOMAS MEIKLE & CO., OF SAME PLACE.

COMBINED PLOW AND CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 269,871, dated January 2, 1883.

Application filed August 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MEIKLE, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in a Combined Plow and Cultivator, of which the following is a specification.

This invention has for its object the construction of a plow which may be used either as a hilling or a breaking plow.

In the annexed drawings, making a part of this specification, Figure 1 is a perspective view. Fig. 2 is a section taken on the line *x*. Fig. 3 is a sectional view of the shovel. Fig. 4 is a perspective view of the plate or bracket. Fig. 5 is a sectional view of a shovel, showing the bolt and washers.

A A are the beams of the plow, which may be adjustably connected by means of bows. These bows are formed as shown, being bent upward, so as to permit the plow to run over the standing corn or other plants which are being cultivated. One of these bows is placed at the front end of the beam and the other near the rear end. They are made in two parts, B and B'. The part B is widened and bifurcated at the upper end, the points being turned up, so as to receive between them the straight bar B'. These points preserve the two bars in line, and they are fastened together by a bolt which passes down through holes bored through both bars. The points of the bar B may be bent over, so as to embrace the bar B' on all sides. These bows are secured to the beams by means of the recessed plates C, which are made with flanges projecting from their outer and inner edges, so as to clasp the beam of the plow. The bows may be thus secured to the plates and the plates to the beams by a single bolt passing down through the three parts, the bow being received in the recesses formed across and on the upper face of the plates. By shifting the bolt D which fastens the two bars of the bow together the beams may be adjusted nearer together or farther apart, as desired.

I have shown in Fig. 2 bows made in one piece, the horizontal portion being fitted into the recesses in the plates C, and having a series of holes bored through them, such bows being in like manner attached by a single bolt pass-

ing through the horizontal portion of the bows, the plate, and the beam.

T-formed brackets E are attached to the beams by means of bolts passing through the horizontal flanges, one of these bolts that secure the brackets to the under side of the beam being the same that secures the plate C and bows in position. The standards E' E' are attached adjustably by means of bolts passing through two of a series of holes formed in the vertical part of the brackets, as shown.

Wheels F are attached to standards F', and these are adjustably secured by means of a single bolt passing through one of a series of holes in the standard, and through the recessed plates G, which are formed with flanges on their upper and lower edges to receive the beam, the outer faces of the plates being recessed to receive the standards F'.

When the plow is to be used for hilling, the standards E' E', carrying the plows, are arranged opposite one another, as shown in Fig. 1. When the plow is to be used for breaking, one of the brackets E is moved forward and the other back, the rear and forward bolts of the brackets entering respectively the holes E² in the beams. When this is done the left-hand plow is taken off and a right-hand one is substituted.

The shovels shown in Figs. 3 and 5 (marked H) may be used instead of the plows shown in Fig. 1. They may be attached to the open standards by means of a single bolt, I, passing through the shovel, and having on the inner face of the shovel washers K. These are formed with a flange at the top, to hook over the upper edge of the shovel, with tongues on their rear face, which are received into the space in the slot of the open standard. The bolt I extends back through the washer K and through the slot in the open standard, and is secured in rear of the standard by a second washer, L, which has tongues on its inner face, fitting into the slot in the standard, so as to prevent the washer from turning, the whole being firmly secured and held in place by the nut M, which is screwed onto the threaded end of the bolt I. By this device I am enabled to fasten the shovel to the standard by means of a single bolt.

A brace, N, formed as shown, Fig. 1, is attached by its long arm N' to the outer face of the beam by a bolt, and to the inner face of the beam by the short arm N², the front part of the brace N³ having a series of holes corresponding to the holes in the horizontal part of the front bow, a single bolt fastening the brace and bow together.

The clevis O is attached by a bolt passing through the horizontal part of the bow and the brace N.

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

1. In combination with the beams, bows, and flanged and recessed plates C, the T-formed brackets E, whereby the bow and one end of the bracket can be secured to the beam by a single bolt, substantially as set forth.

2. In combination with the plow-beams and standards carrying the plows, the wheels attached to vertically-adjustable standards, and flanged and recessed plates G, whereby the vertically-adjustable wheel-standards may be secured to the beams by a single bolt, substantially as set forth.

3. In combination with the forward bow and clevis, the brace to which the bow and clevis are secured, adjustable by a single bolt, substantially as set forth.

THOMAS MEIKLE.

Witnesses:

EDMUND HEFFIELD,
CH. G. STIGLITY.