

(No Model.)

M. L. RINEHART.  
PLOW.

No. 409,709.

Patented Aug. 27, 1889.

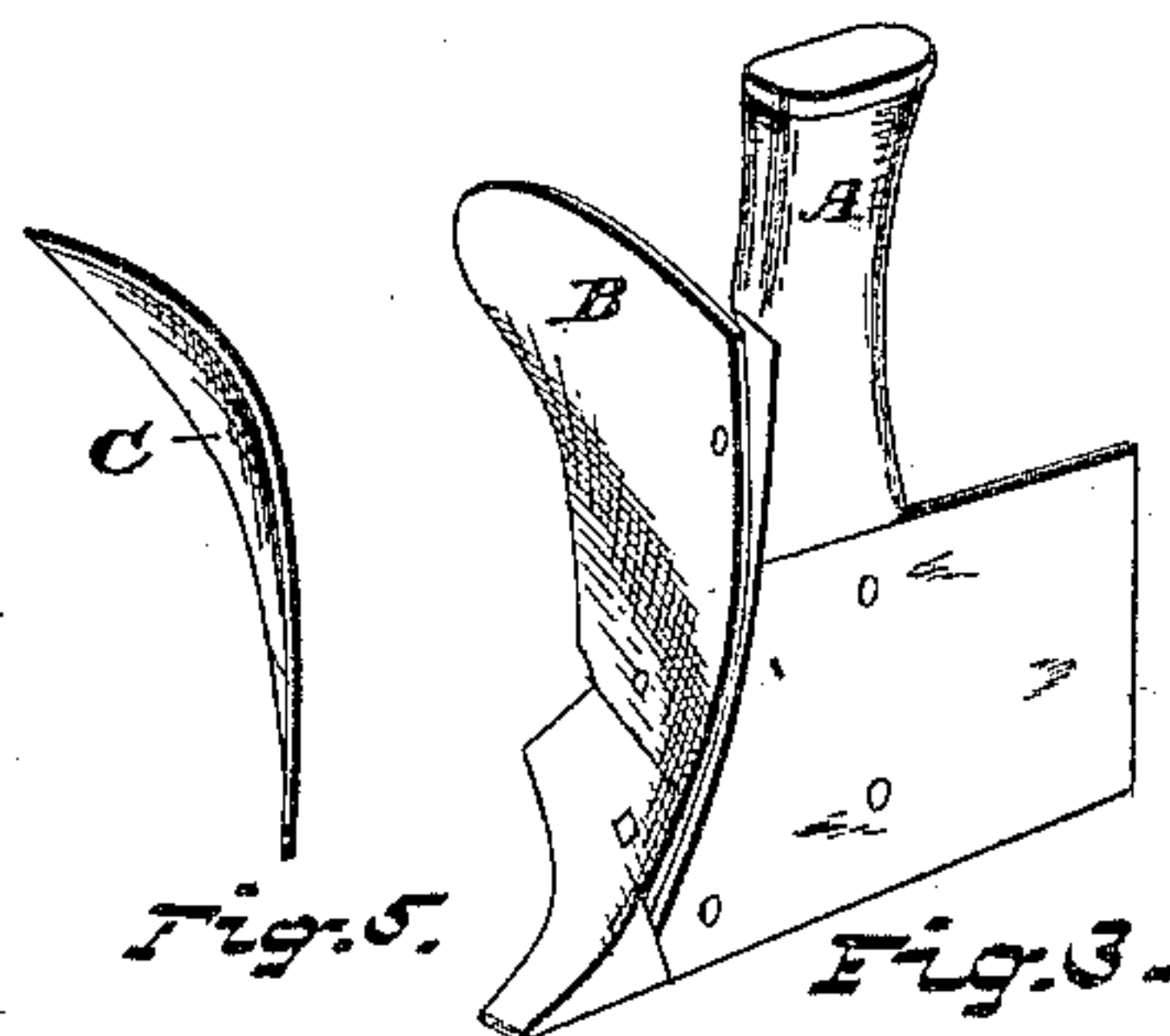
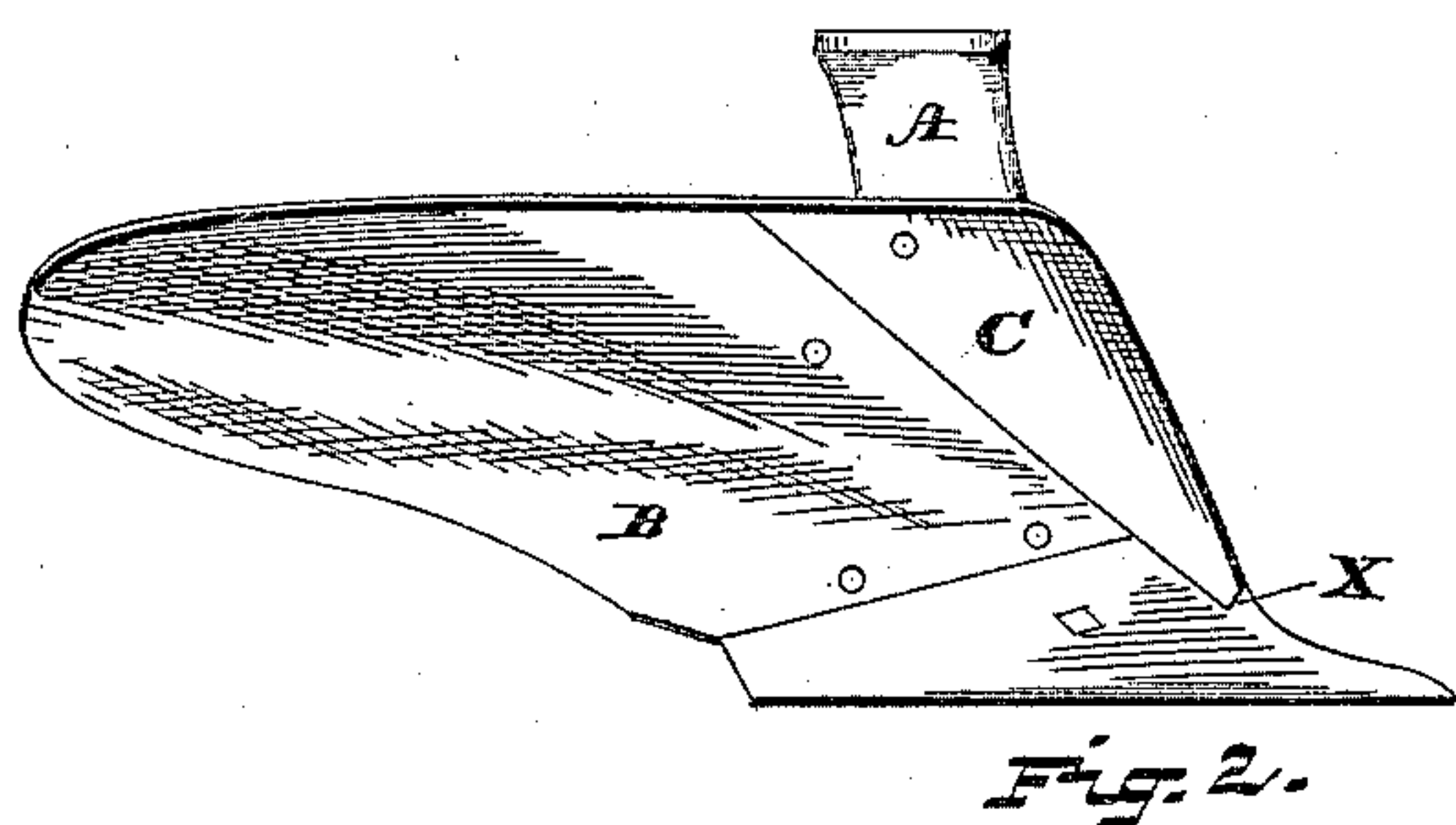
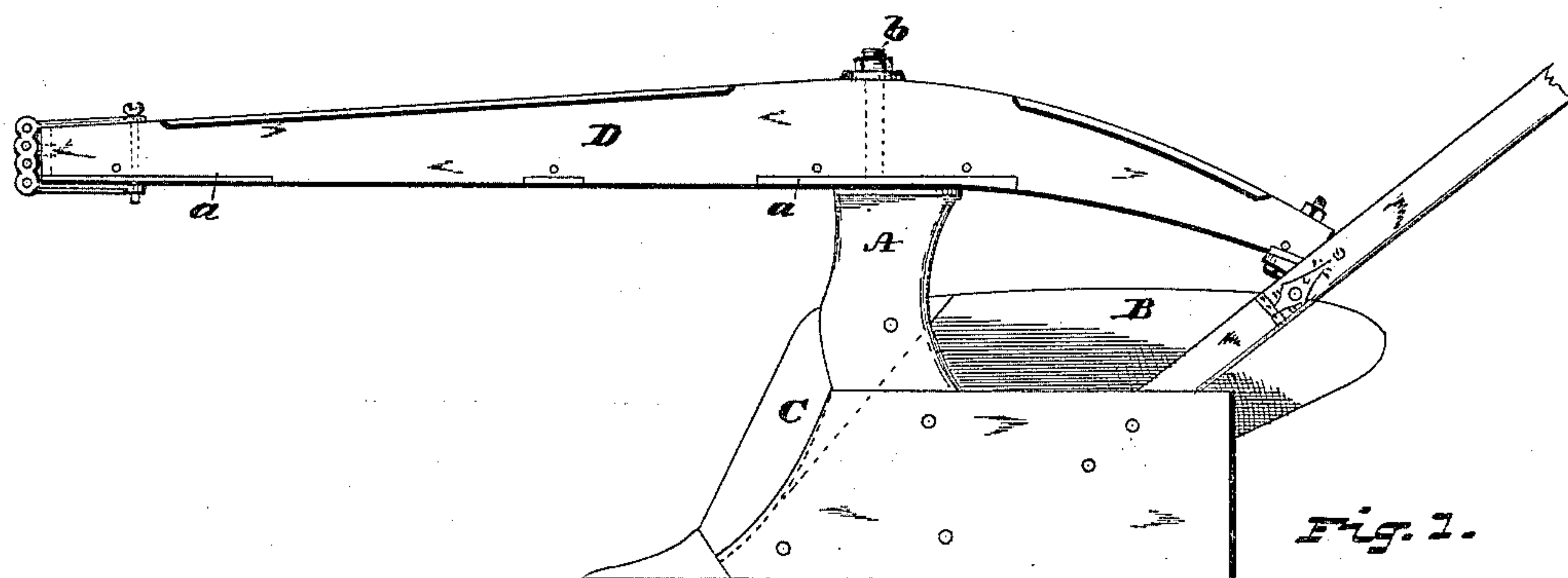
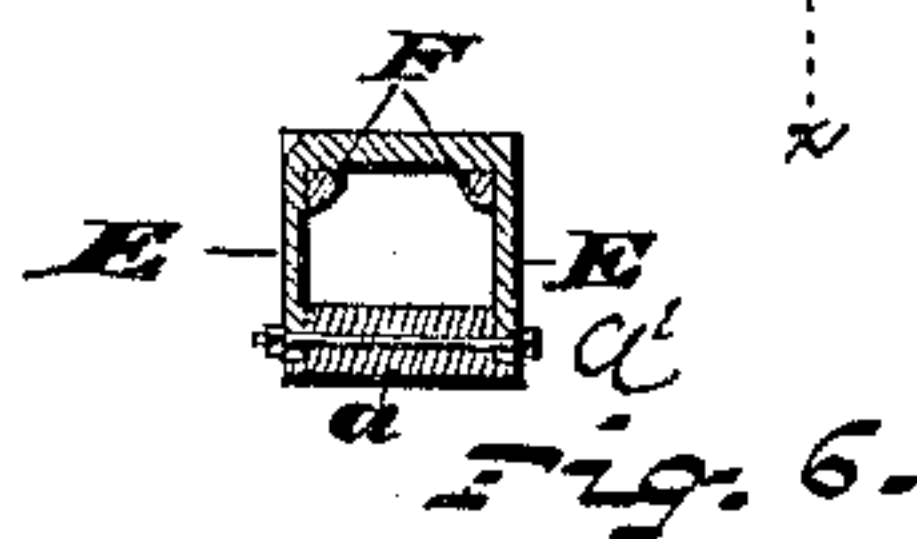
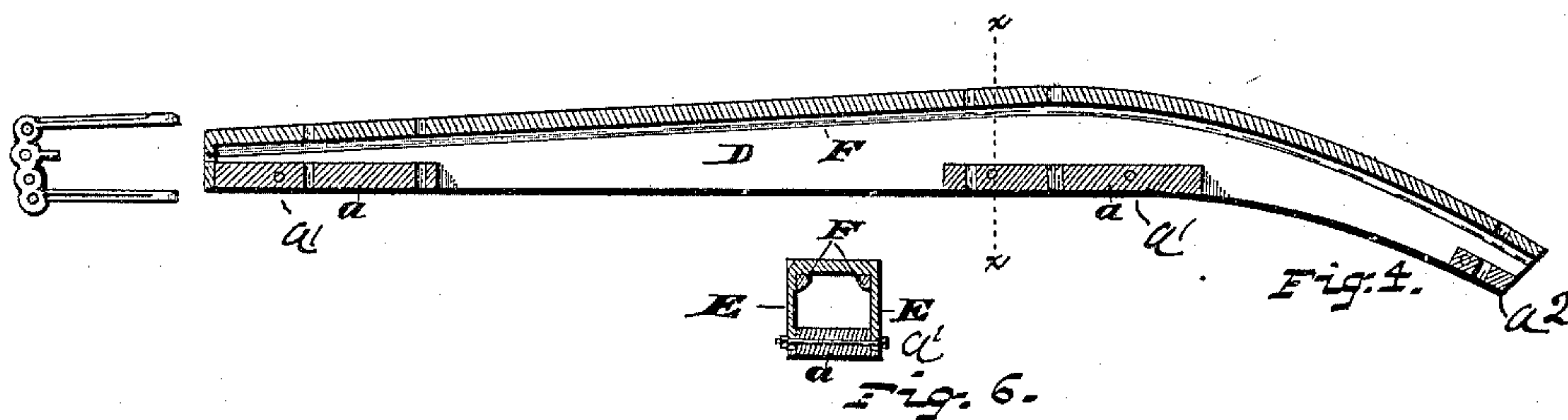


Fig. 5.



Witnesses

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# UNITED STATES PATENT OFFICE.

MARTIN L. RINEHART, OF RICHMOND, OHIO.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 409,709, dated August 27, 1889.

Application filed February 21, 1889. Serial No. 300,727. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN L. RINEHART, a citizen of the United States, residing at Richmond, in the county of Jefferson, State of Ohio, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a side elevation looking toward the landside. Fig. 2 is a view of the mold-board, cutter, and share, showing side elevation. Fig. 3 is a perspective view. Fig. 4 is a longitudinal section of the beam. Fig. 5 is a detached view of the cutter. Fig. 6 is a transverse section through line  $x x$ , Fig. 4.

The present invention has relation to plows; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claim.

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

In the accompanying drawings, A represents the standard, which is constructed in the ordinary manner, reference being had to properly attaching the mold-board, cutter, and share.

The mold-board B is substantially of the form shown in Fig. 2. The front or forward end of the mold-board is beveled or inclined in a straight line from its top edge to the bottom or lower edge, as shown in Fig. 2.

The cutter C is substantially of the form shown in the drawings, and is located as shown in Fig. 2. This cutter is bent or curved to correspond with the curvature of the mold-board, the front or forward end being provided with a cutting-edge, which is designed to take the place of the ordinary cutter located upon the share or attached to the beam. It will be seen that by curving this cutter C to correspond with the curvature of the mold-board the furrow will be cut to correspond with the curvature of the cutter and will be carried back or passed along the cutter and mold-board, and thereby commencing the turn of the furrow the instant the cutter penetrates the land.

For the purpose of assisting in holding the cutter C in proper position and at the same time forming a tight joint, the front or for-

ward end of the landside is beveled, which receives the back edge of the cutter C, said cutter being firmly seated on the mold-board, as shown in Fig. 2. The bottom or lower end of the cutter C is seated on the share, as shown at X, Fig. 2.

The beam D is formed of metal, by forging or rolling the metal into the shape of what is known as "channel-iron." For the purpose of assisting in strengthening the beam D, the ribs F are provided, which are formed integral with the beam proper, and are located substantially as illustrated, Figs. 4 and 6.

For the purpose of assisting in strengthening the beam and at the same time providing a means for attaching the beam to the post or standard A and also the clevis, the strengthening-blocks  $a$  are provided, which are formed of such a size that they will fit the bottom or lower portion of the beam D, as illustrated in Figs. 4 and 6, and are securely held in proper position by means of the clamping-bolts  $a'$ .

For the purpose of providing a means for attaching the rear end of the beam to the plow-handles or their equivalent, the block  $a^2$  is provided, which is located as shown in Fig. 4 and is securely held in proper position by means of suitable clamping-bolts.

It will be seen that by my construction I am enabled to provide a metal plow-beam which will be strong and light and at the same time have the appearance of a wood beam.

It will be understood that blocks  $a$  and  $a^2$  are formed of metal.

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

The combination of the herein-described beam D, formed of metal and in the shape of channel-iron, and provided with the strengthening-ribs F and the blocks  $a$  and  $a^2$ , the clamping-bolts  $a'$ , and the post or standard A, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MARTIN L. RINEHART.

Witnesses:

E. A. C. SMITH,  
F. W. BOND.