

(No Model.)

A. RICHARD.

PLOW.

No. 247,110.

Patented Sept. 13, 1881.

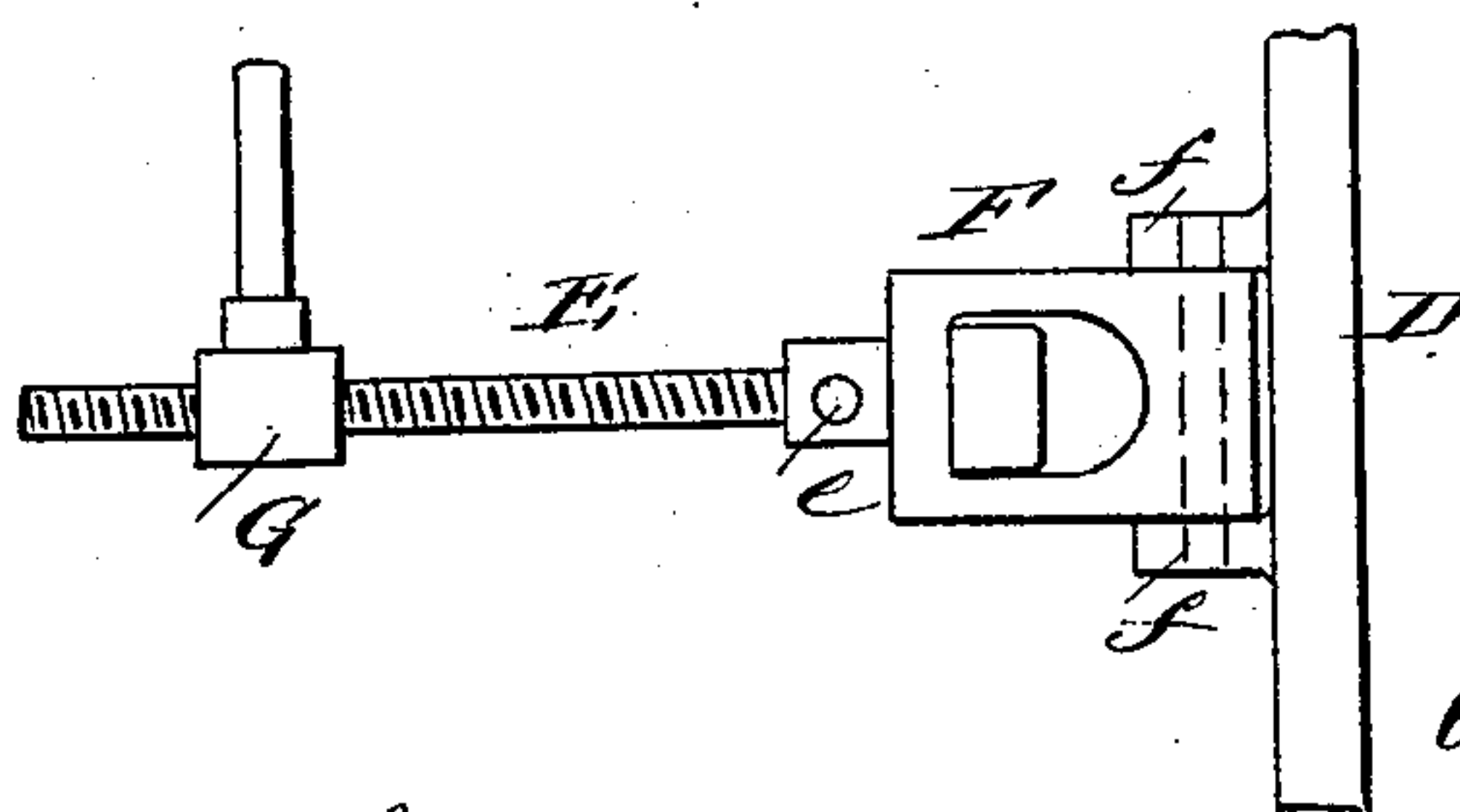
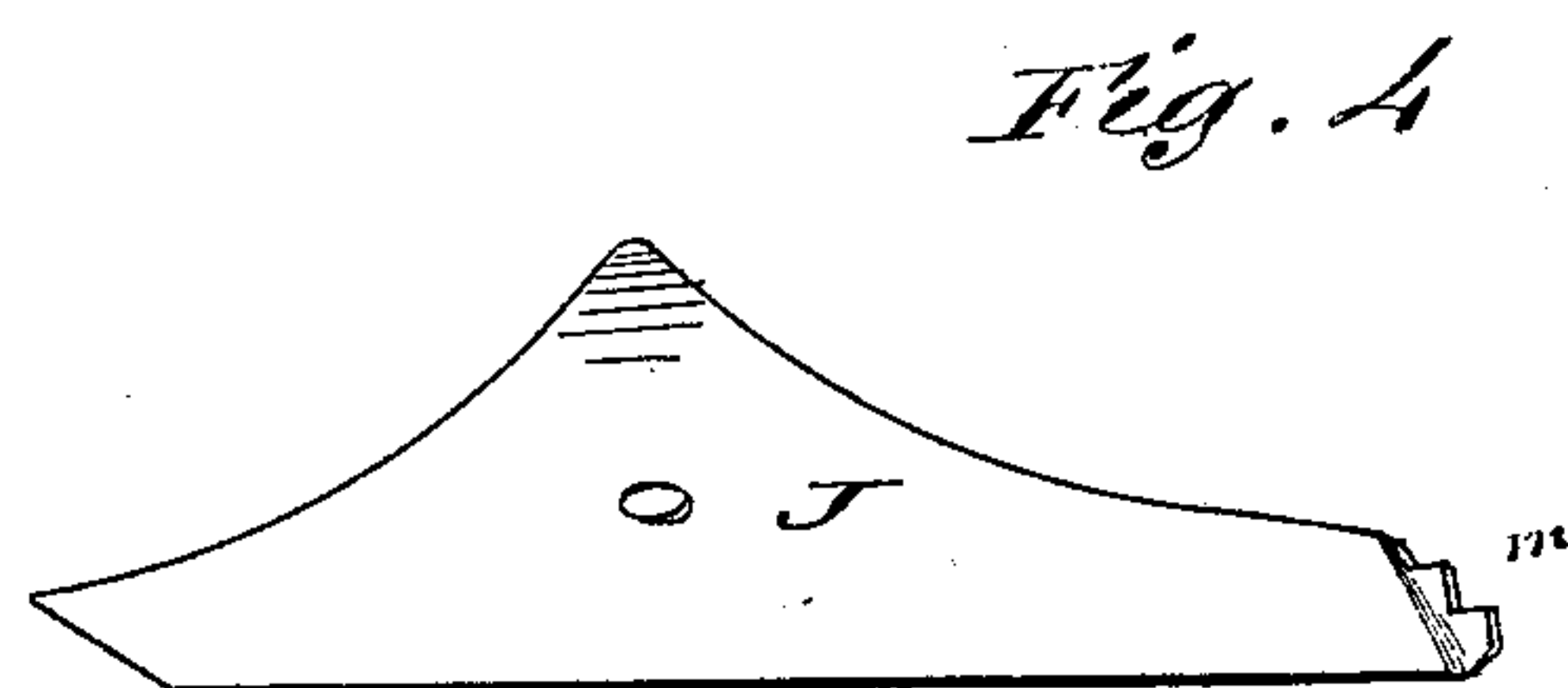
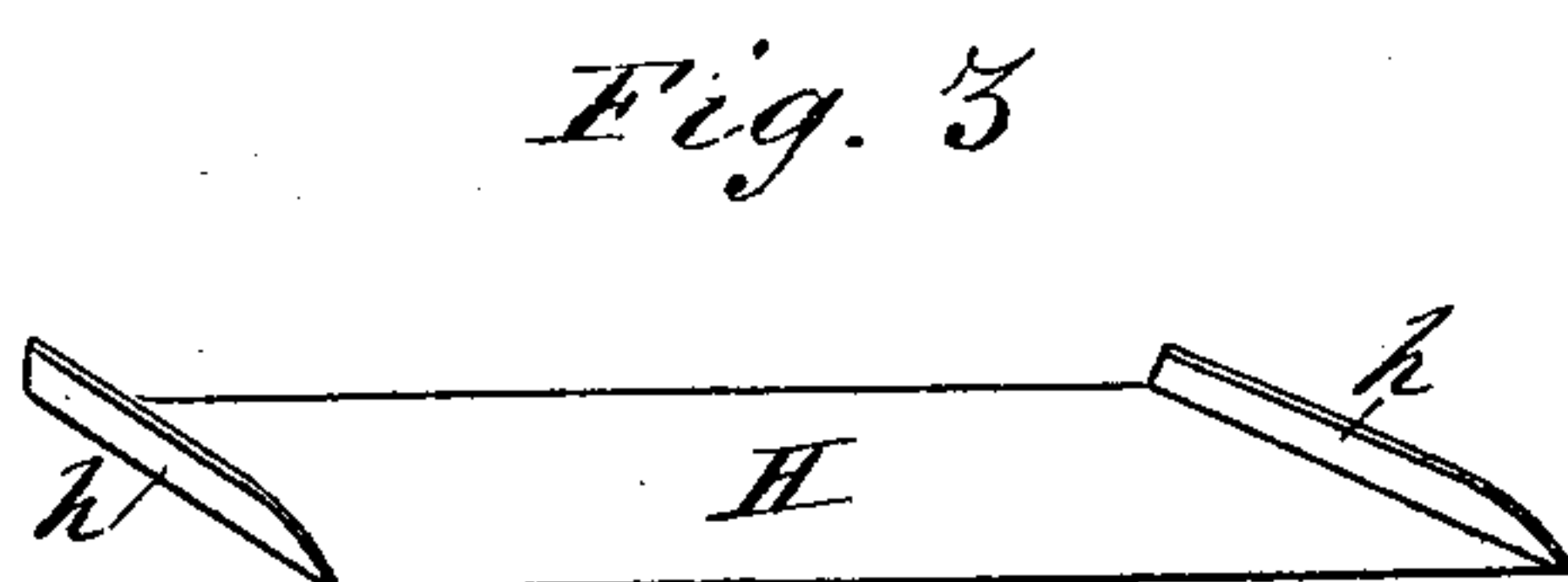
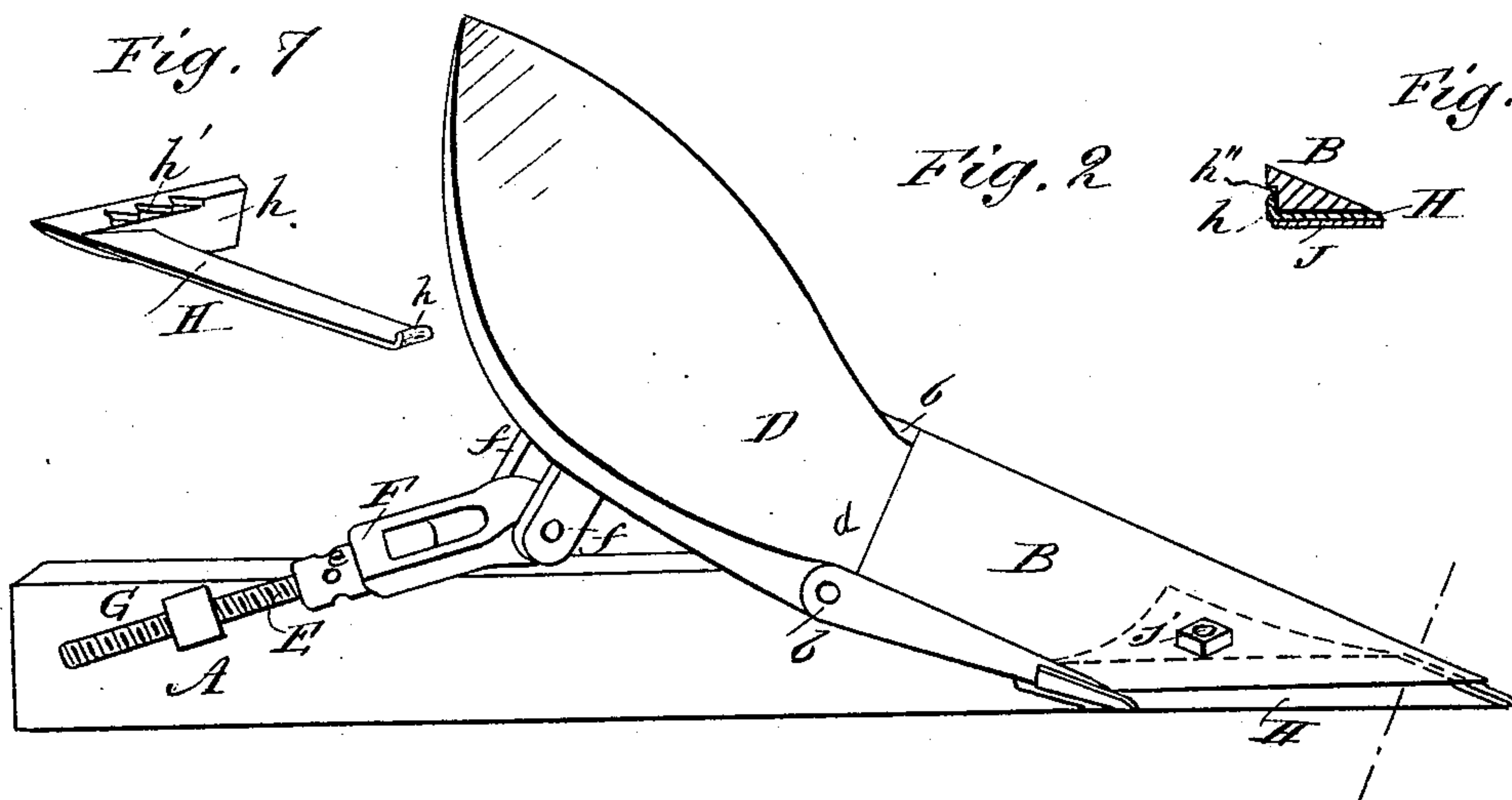
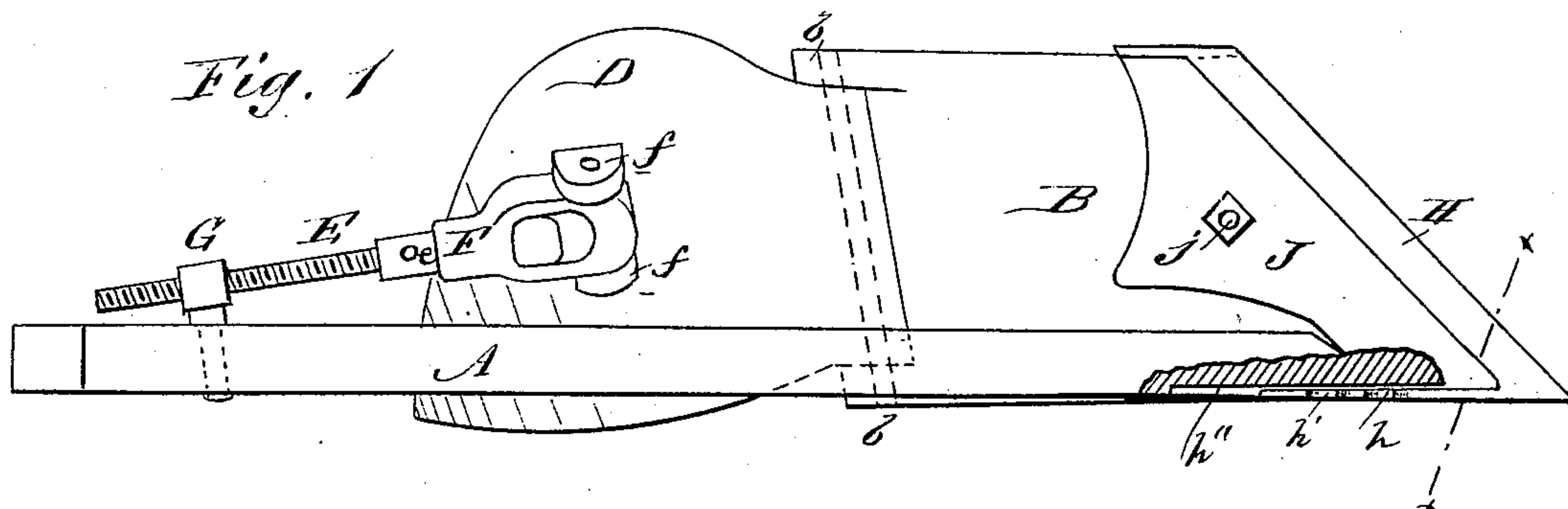


Fig. 5

WITNESSES:

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UNITED STATES PATENT OFFICE.

ARMAND RICHARD, OF GRAND COTEAU, LOUISIANA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 247,110, dated September 13, 1881.

Application filed June 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, ARMAND RICHARD, of Grand Coteau, in the parish of St. Landry and State of Louisiana, have invented a new and Improved Plow, of which the following is a full, clear, and exact specification.

My invention relates to improvements in plows; and it consists in the peculiar construction and arrangement of the parts, as herein after more fully set forth.

In the accompanying drawings, Figure 1 is a bottom view of my improved plow. Fig. 2 is a side view thereof. Fig. 3 is a perspective view of the cutting-blade removed. Fig. 4 is a perspective view of the clamp for holding the blade in place. Fig. 5 is a detail view of the adjusting-rod of the mold-board. Fig. 6 is a section of the plowshare, taken on the line *x x* of Fig. 1; and Fig. 7 is a bottom view of the cutting-blade provided with notches in the bottom edge of one of its flanges.

Similar letters of reference indicate corresponding parts.

The landside A of the plow may be of any approved form and construction, and the share B may be secured to it in any suitable manner, or the share and the landside may be cast in one piece. The upper corners of the share B are provided with the perforated and extended lugs or ears *b b*, to and between which the mold-board D is hinged by the rod *d*. The under side of the mold-board D is provided with the perforated lugs *f f*, between which is hinged the yoke F, in which is swiveled the screw-rod E, which passes through the threaded collar G upon the landside. The screw-rod E is adapted to be turned by means of a rod inserted in the hole *e*, or any other suitable means for holding and adjusting the mold-board.

To the cutting-edge of the share B, and upon its underside, is secured the blade H by a clamp, as shown at J, and the bolt *j*. The clamp J is preferably concave and of the outline shown, so that it will impinge against the blade at different points. The blade H is preferably rhomboidal in form, with the end flanges, *h*, thereof upturned, as shown. The flange *h* of the cutting-blade H, on the landside of the plow, is adapted to slide in the groove *h''* in the share, on the landside of the share, whereby lateral movement of the cutting-blade in one direction is prevented, and vertical strain on the

cutting-blade is resisted by the flange abutting against the edges of the groove.

The flanges of the cutting-blade may both project upwardly from the upper face of the cutting-blade; or one may project upwardly from the upper face of the cutting-blade, and the other flange downwardly from the lower face of the cutting-blade.

The function of the flange on the mold-board side of the cutting-blade is mainly that of a strengthening-rib for the cutting-blade, although when said flange projects upwardly it is made to fit over the outer edge of the share.

In Fig. 7 I have shown the flange *h* of the cutting-blade, which fits into the groove *h''* in the share, as projecting in rear of the blade. The bottom edge of the flange is provided with serrations or notches *h'*, adapted to receive teeth *m* on the clamp J. (Shown in Fig. 4.)

It will be observed that by this construction as the blade wears away it can be adjusted by loosening the clamp-bolt *j* and removing the teeth of the clamp from the notches in the flange and setting the blade farther forward, as desired, when the clamp-bolt can be again tightened.

It will also be observed that the clamp-bolt does not pass through the cutting-blade, which would weaken the blade by forming a hole in it for the passage of the clamp-bolt.

I am aware that shovel-plows provided with double mold-boards, each hinged to a shovel and adapted to be adjusted out or in simultaneously by mechanism connected with both mold-boards, have heretofore been employed, and I therefore lay no claim to such invention.

I am also aware that in a single mold-board plow the mold-board has heretofore been hinged, and I therefore lay no claim to such construction.

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

1. The combination, with the share B, provided with the perforated ears *b b* and rod *d*, and a single hinged mold-board, D, having lugs *f f*, of the hinged yoke F, screw-rod E, having its head swiveled in the yoke, and screw-threaded collar G, pivoted to the landside, substantially as described, and for the purpose set forth.

2. The combination, with the share B, pro-

vided with a groove, h'' , of a cutting-blade provided with a flange, h , adapted to be inserted and adjusted in said groove, substantially as described, and for the purpose set forth.

5 3. The cutting-blade H, having end flanges projecting in opposite directions from the blade, one of said flanges projecting in rear of the blade, and provided with notches h' on its
10 lower edge, substantially as described, and for the purpose set forth.

4. The combination, with the blade H, having end flanges, h h , one of which projects in rear of the blade, of the share B, having groove

h'' , with teeth h' , substantially as described, 15 and for the purpose set forth.

5. The combination, with the blade H, having the end flanges, h h , and notches h' , and share B, having groove h'' , of the clamp J, provided with teeth m , substantially as described, 20 and for the purpose set forth.

ARMAND RICHARD.

Witnesses:

C. P. SMITH,
M. CASSE.