

(No Model.)

D. W. LYSLE.

2 Sheets—Sheet 1.

PLOW.

No. 392,047.

Patented Oct. 30, 1888.

FIG. 1.

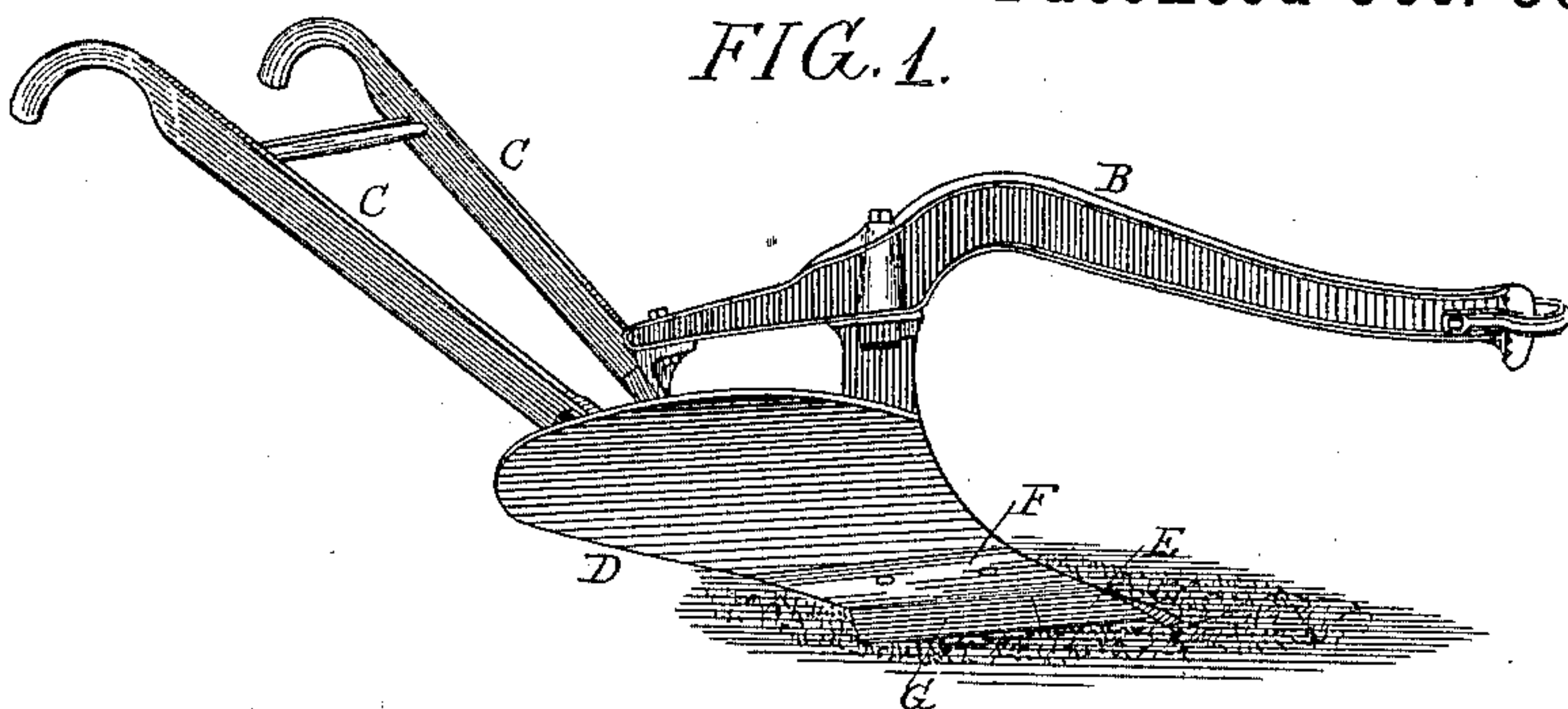


FIG. 2.

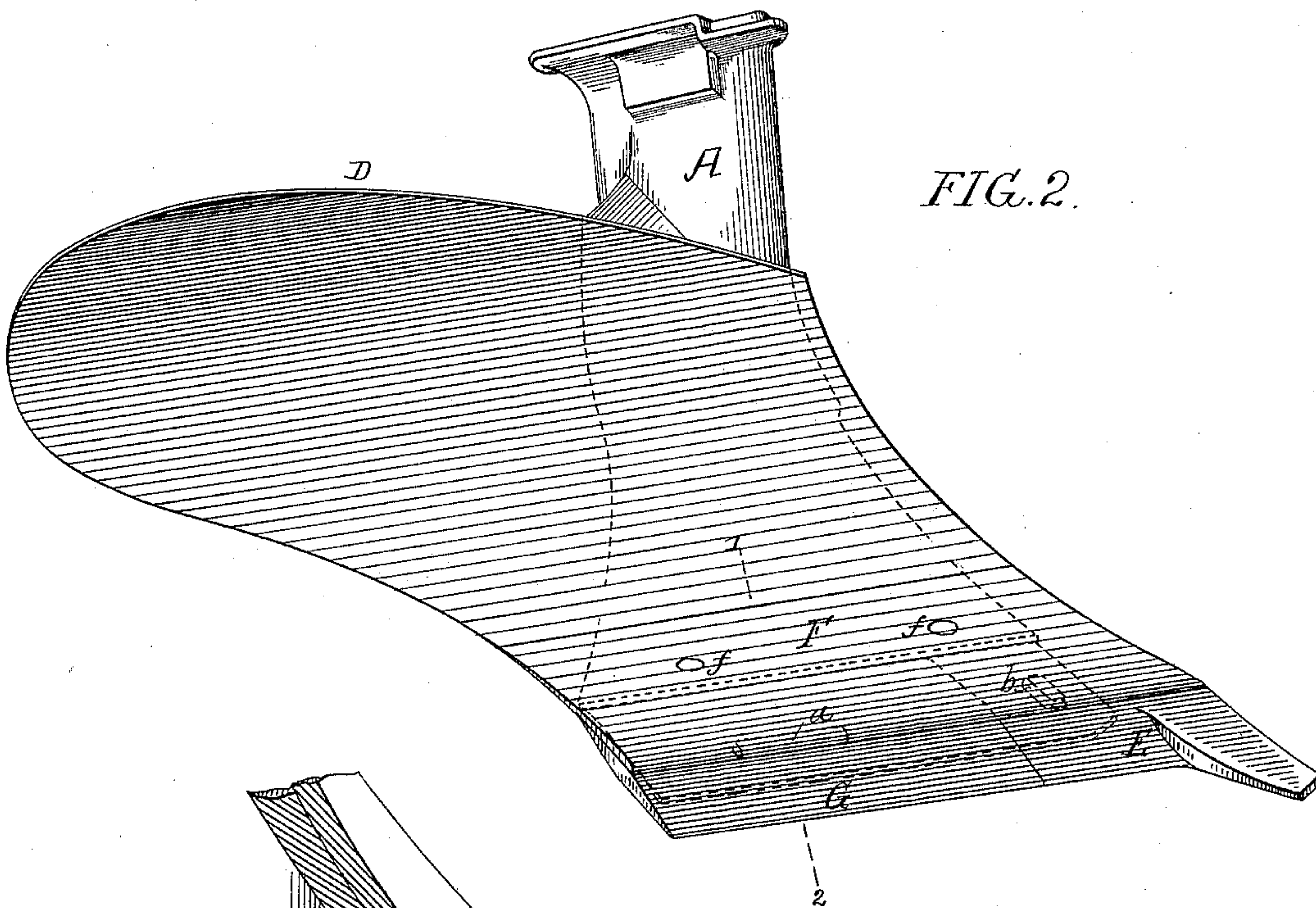
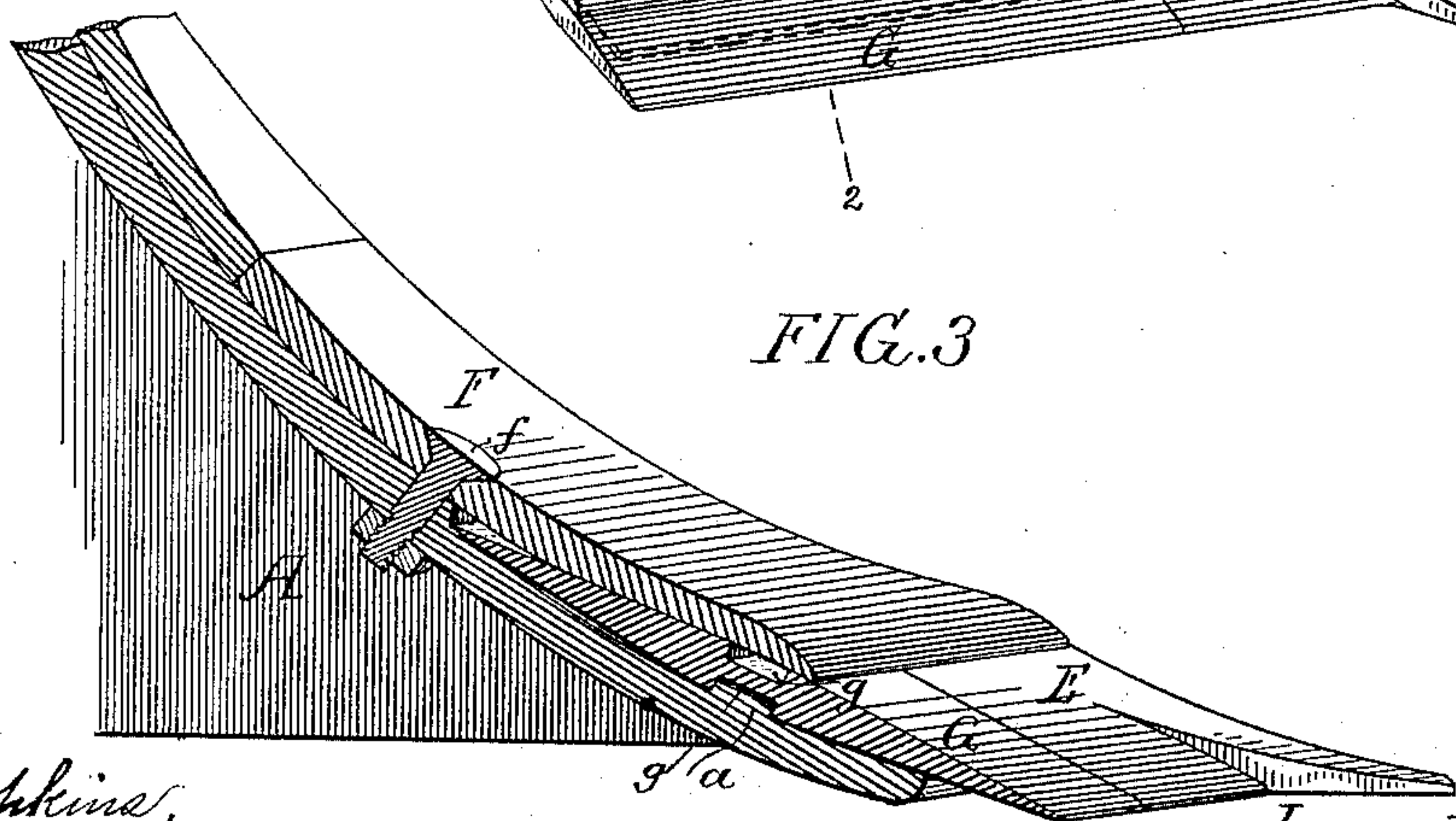


FIG. 3.



Witnesses:
Albert Popkins,
Jas. L. Midmore.

Inventor:
David Willis Lysle,
by his Attorneys
Howson & Howson.

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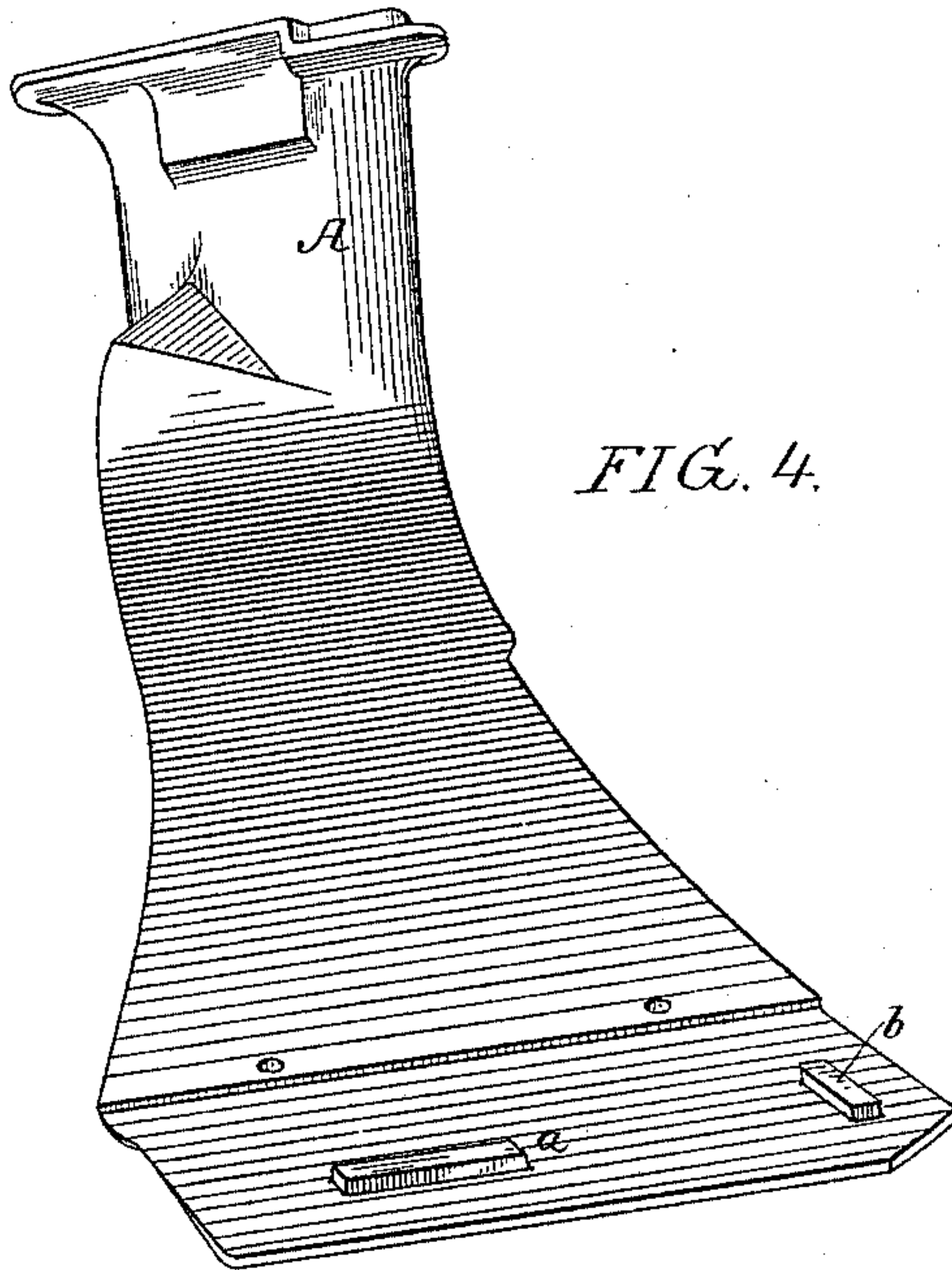


FIG. 4.

FIG. 5.

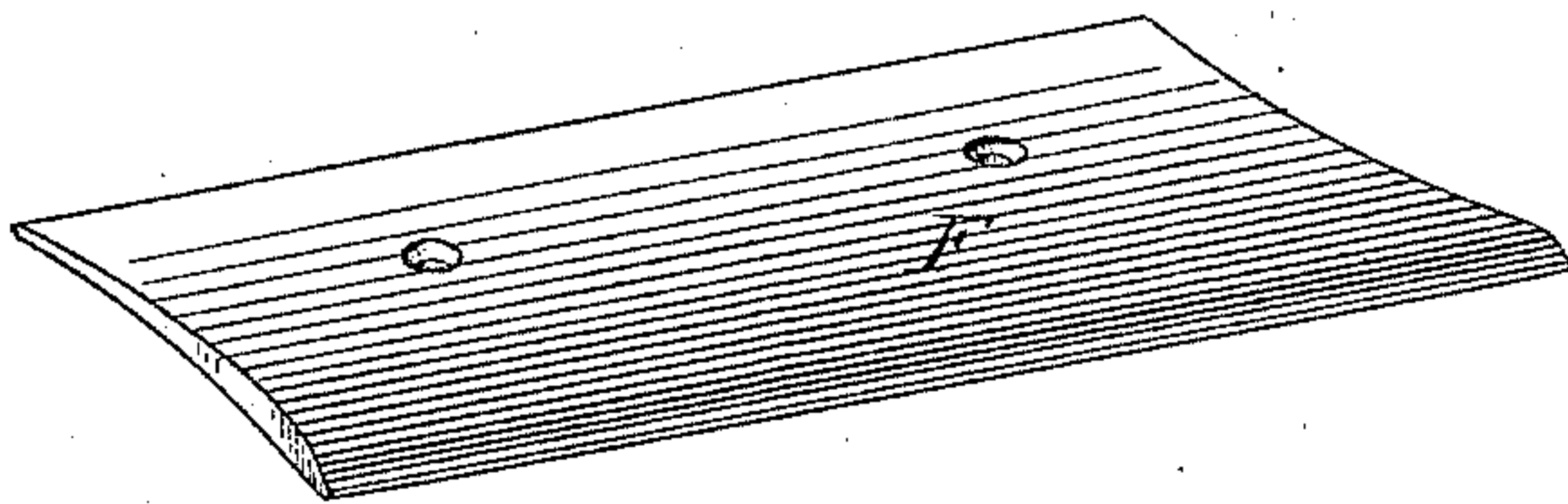


FIG. 7.

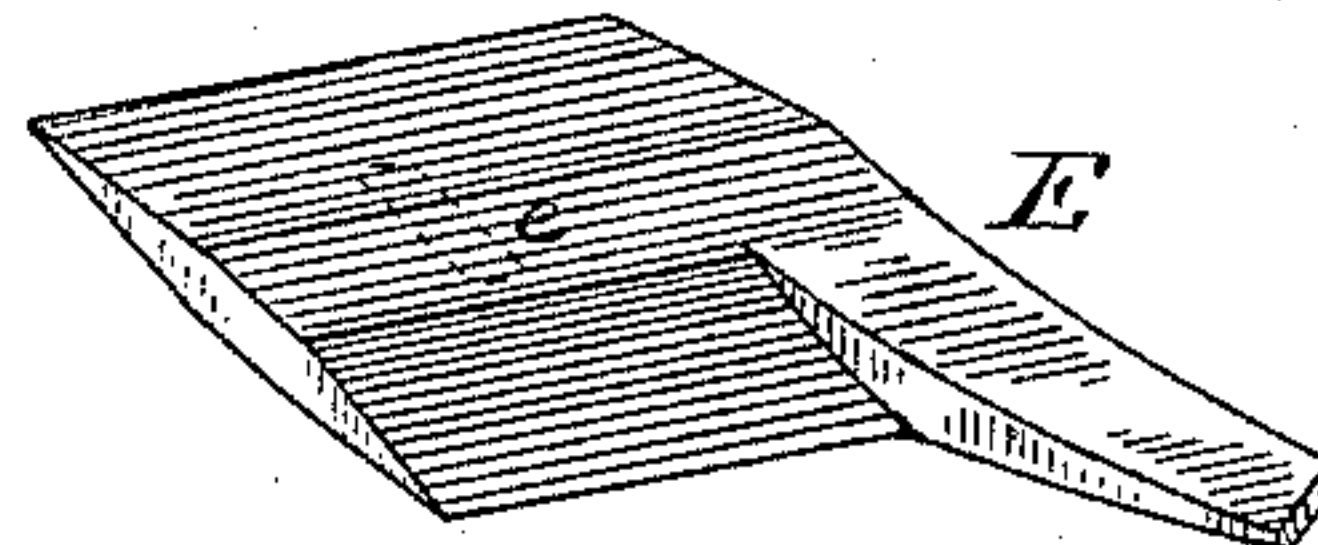


FIG. 6.

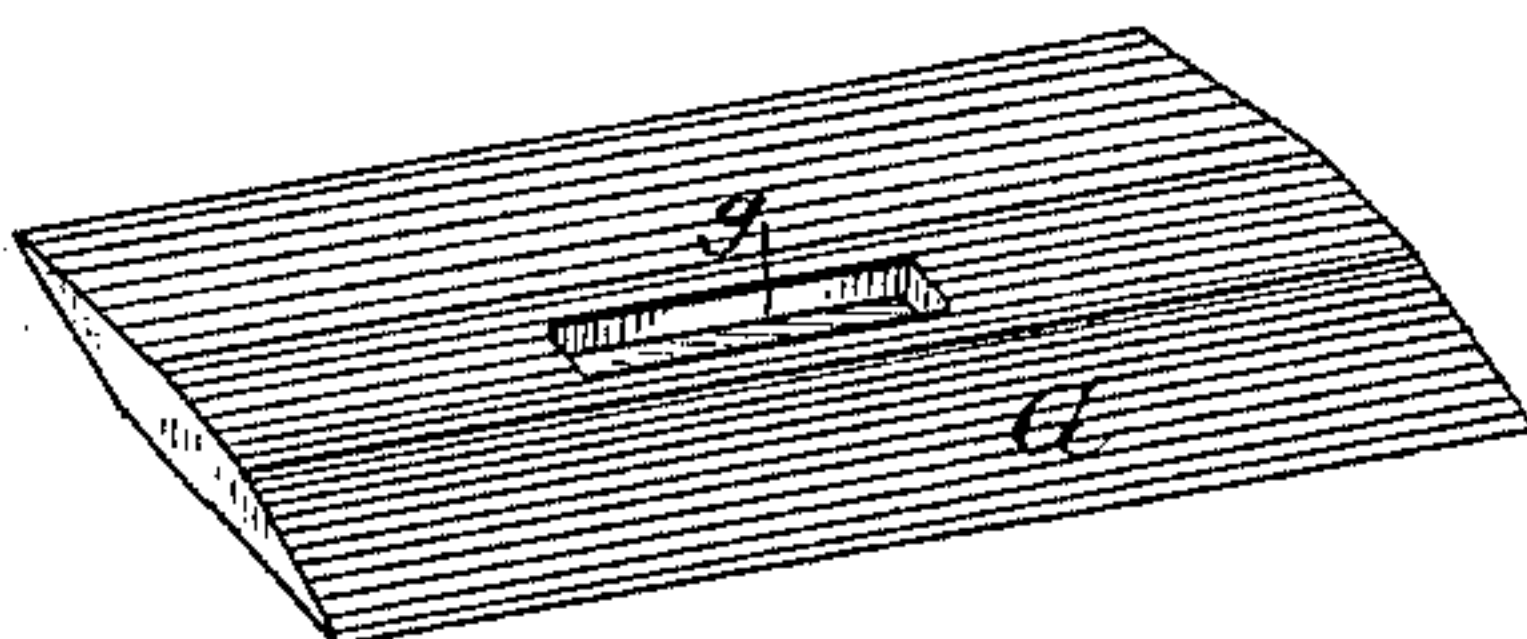
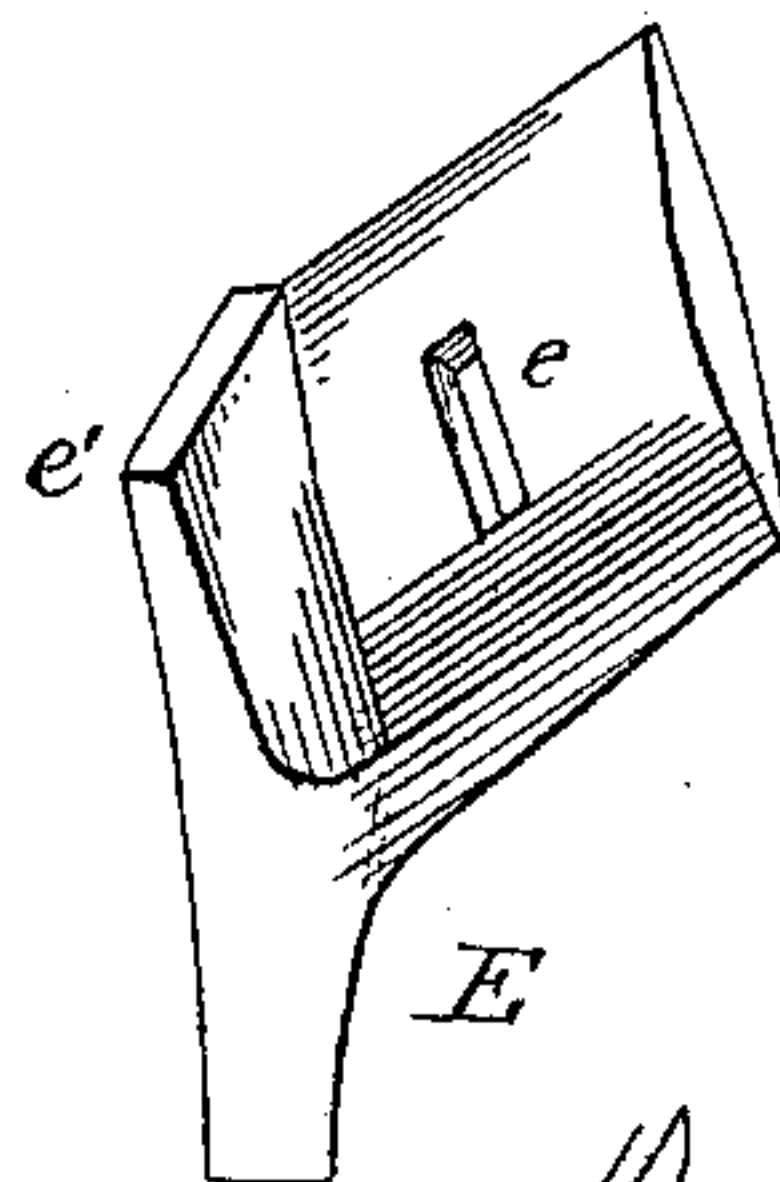


FIG. 8.



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UNITED STATES PATENT OFFICE.

DAVID WILLIS LYSLE, OF AVONDALE, PENNSYLVANIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 392,047, dated October 30, 1888.

Application filed March 10, 1888. Serial No. 266,793. (No model.)

To all whom it may concern:

Be it known that I, DAVID WILLIS LYSLE, a citizen of the United States, residing at Avondale, Chester county, Pennsylvania, have invented certain Improvements in Plows, of which the following is a specification.

The object of my invention is to so construct a plowshare that the cutting-edge can be reversed or turned when worn, and that the point can be detached and both the cutter and point fastened by means of a clamp-piece, as fully described hereinafter.

In the accompanying drawings, Figure 1 is a perspective view of a plow with my improvement. Fig. 2 is a side view of the share. Fig. 3 is a transverse section on the line 1 2, Fig. 2; and Figs. 4, 5, 6, 7, and 8 are perspective views of the parts detached.

A is the post of the plow, secured to the beam B, and C C are the handles.

D is the mold-board, secured to the post by bolts in the usual manner.

E is the point of the plow, made separate from the cutting-edge, and secured in position by the cover or clamp-plate F, which also holds the cutting-plate G firmly in place. This clamp-plate F is secured to the post by means of screw-bolts *f f*, passing through the plate and post as near the rear of the cutting-plate G as possible, the heads of said bolts being flush with the face of the plate. The point E has a recess, *c*, formed in its under side, as shown in the inverted perspective view, Fig. 8. This recess fits over a rib, *b*, on the post A of the plow, tending, with the overlapping rib *e'* of the point, to keep the point perfectly rigid. A rib, *a*, on the post A fits into a groove, *g*, on the under side of the cutter-plate G. This cutter-plate has another groove *g* on the upper side, and is made reversible, being capable of turning both around and upside down, so that the four corners of the cutting-plate can be used alternately as the others become worn. The surface of the clamp-plate is flush with that of the mold-board, presenting a smooth surface from the point to the outer end of the mold-board, allowing the plow to travel unobstructed through the earth.

By making the plate F clamp the cutter-

plate G, I am enabled to make the cutting-plate strong, dispensing with the usual bolt-holes, the strain being taken up by the clamp-piece F to a great extent.

I am aware that reversible cutting-plates of plows are not new; but usually the plates form part of the point, or when independent are secured directly by bolts, whereas I dispense with bolt-holes in the cutting-plate and secure the latter through the medium of a clamp-plate, which not only clamps the cutter-plate, but also protects a greater portion of it. This clamping-plate covers and hides the worn edges when they are reversed, and the points being separate can be readily renewed without renewing both cutting-plate and point, the plow, to all intents and purposes, being a new plow.

It will be understood that in place of ribs on the post grooves may be formed, in which may rest ribs on the cutting-plates and point.

I claim as my invention—

1. The combination of the post of the plow, the reversible and invertible cutting-plate, and the separate detachable point, the said cutting-plate being free from bolt-holes, with a clamping-plate having a surface flush with that of the mold-board and overlapping the inner edges of the cutting-plate, so as to cover said inner edges and secure the plate to the post, all substantially as specified.

2. The combination of the post of the plow, the reversible cutting-plate, and the separate detachable point, both free from bolt-holes, but both having locking-ribs adapted to recesses or ribs on the post, with a clamping-plate abutting against and flush with the mold-board, said clamping-plate overlapping both the cutting-plate and point and covering the locking ribs or recesses of the plate, all substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID WILLIS LYSLE.

Witnesses:

EDWARD M. RILEY,
HENRY HOWSON.