

J. W. FIELDS.
Mold-Board for Plows.

No. 223,124.

Patented Dec. 30, 1879.

Fig: 1.

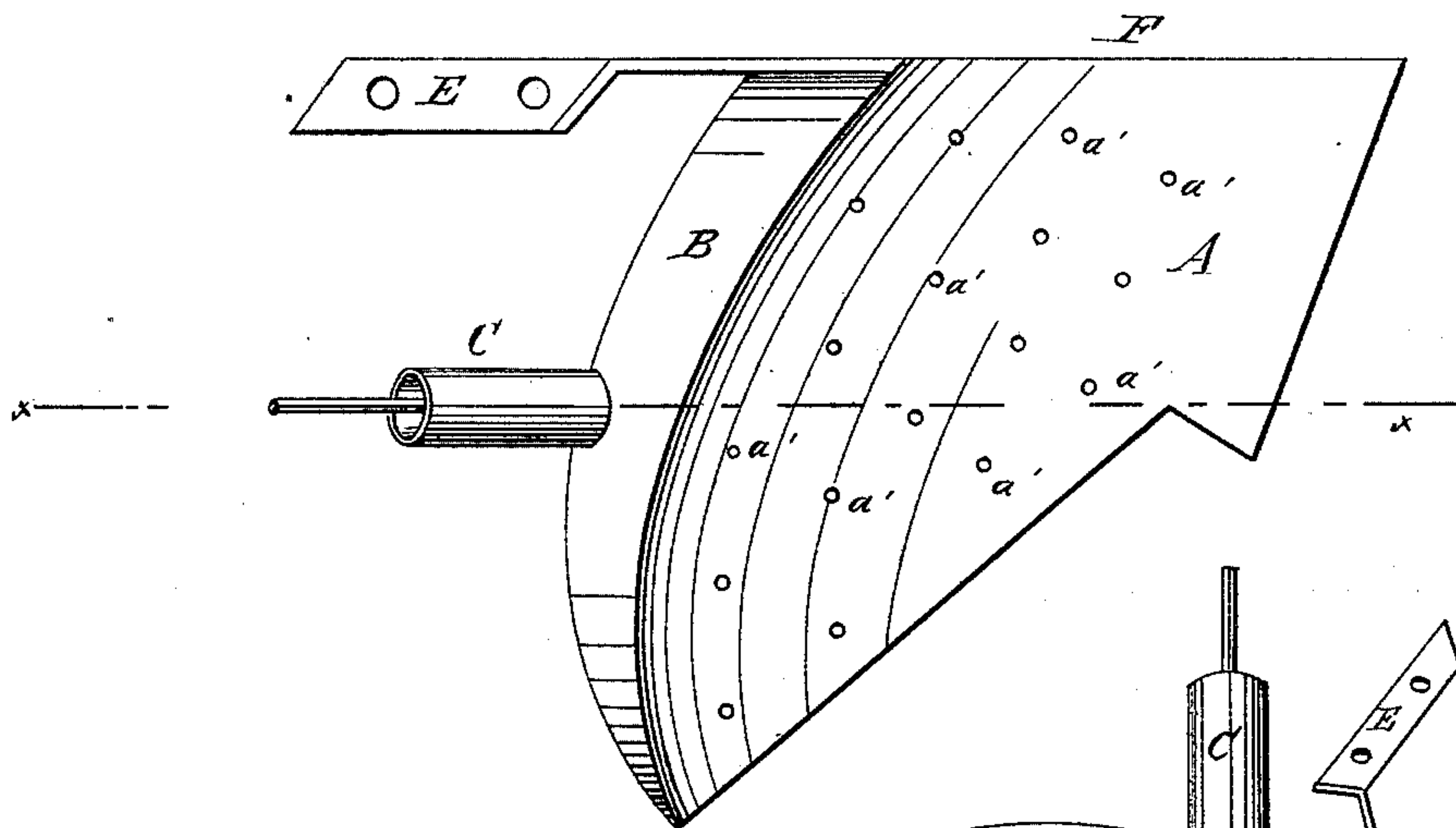


Fig: 3.

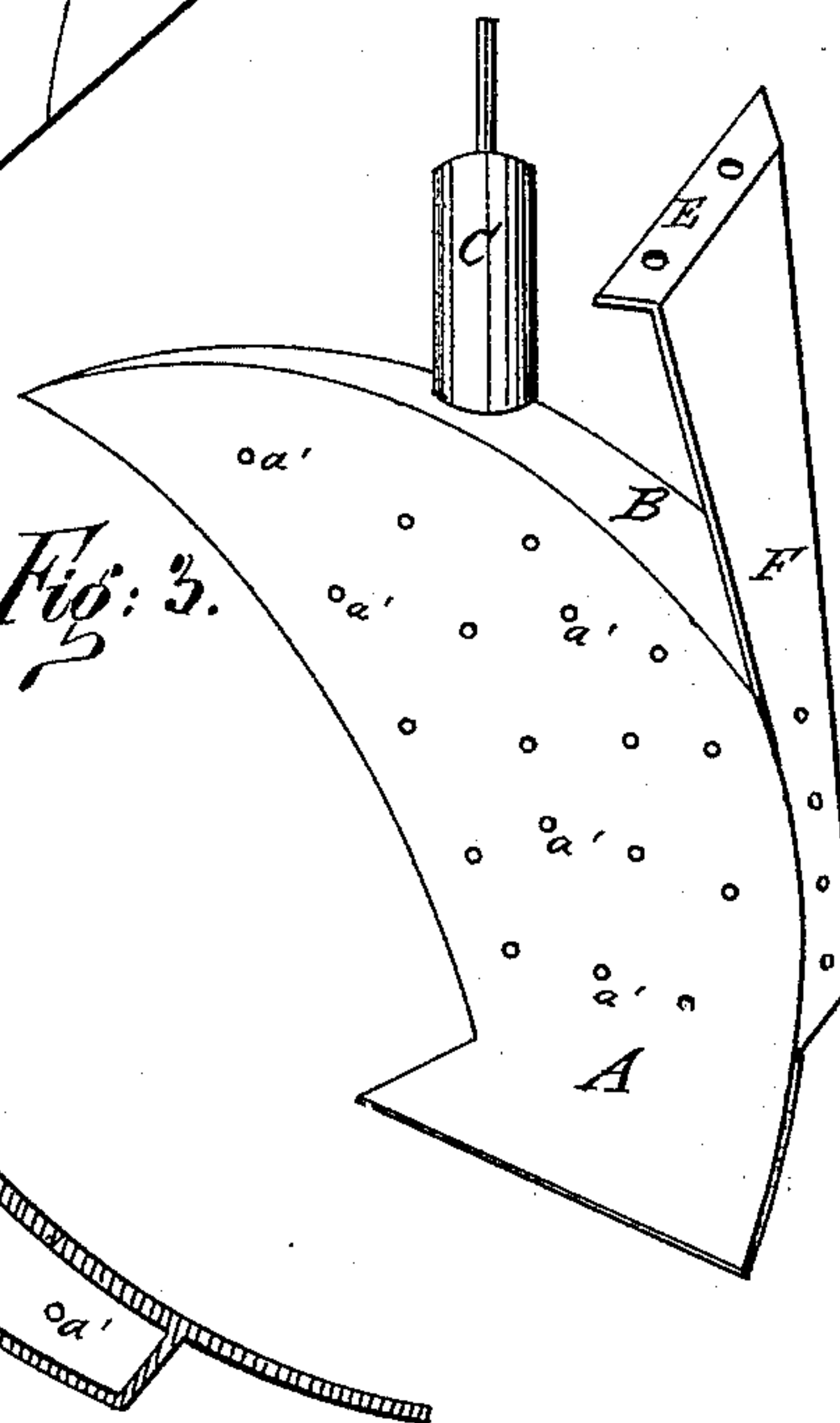
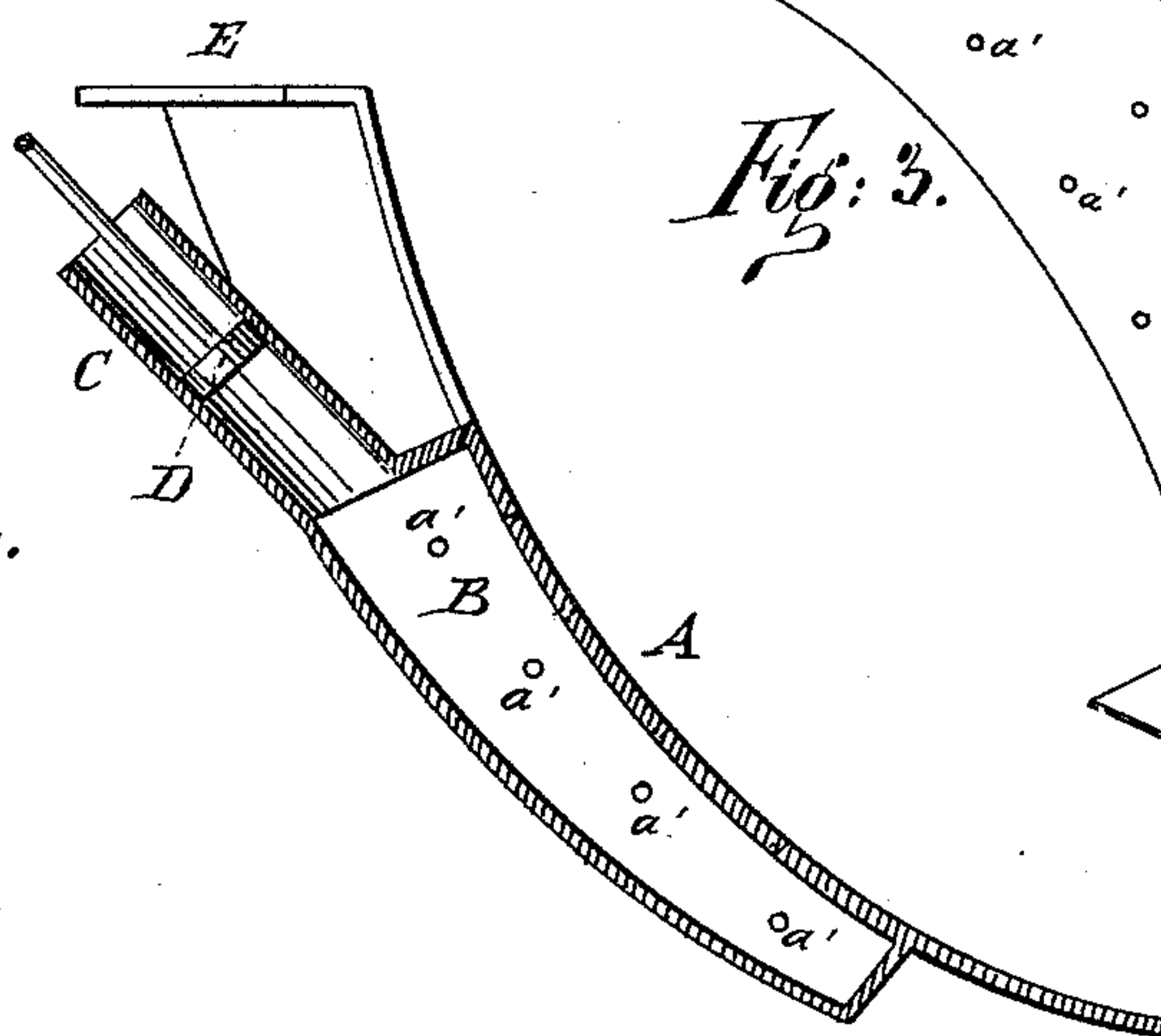


Fig: 2.



WITNESSES:

Chas. Nider.
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UNITED STATES PATENT OFFICE.

JOHN W. FIELDS, OF SHERMAN, TEXAS.

IMPROVEMENT IN MOLD-BOARDS FOR PLOWS.

Specification forming part of Letters Patent No. **223,124**, dated December 30, 1879; application filed September 1, 1879.

To all whom it may concern:

Be it known that I, JOHN W. FIELDS, of Sherman, in the county of Grayson and State of Texas, have invented a new and Improved Mold-Board for Plows, of which the following is a specification.

Figure 1 is a top view of the mold-board. Fig. 2 is a sectional view on line *x x*, Fig. 1; and Fig. 3 is a perspective view of the device.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a device for supplying water and air to the face and land-side of a mold-board, to prevent the earth from adhering to them; and it consists in perforating the mold-board and land-side with small holes and attaching to the back of the mold-board a water-reservoir and a piston and pump or other device for forcing water and air through the perforations, so as to lubricate the faces of the plow, and thus prevent the adhesion thereto of earth.

In the drawings, A represents the face of the mold-board, provided with perforations *a'* *a'* through the face A of the board, and through the land-side F also, as shown in Figs. 1 and 2, respectively.

B represents the chamber or reservoir attached to the back of the mold-board, for containing the water or air.

C represents the force-pump, and D the piston, through and by which air and water may be forced through the perforations *a'* *a'*. E is the usual standard by which the mold-board is attached to the plow-beam.

The piston D may be of sufficient weight to press downward and force the water out gradually, or rapidly enough under the ordinary conditions of plowing the peculiar soil of Texas, for which this device is especially intended; but should the perforations become clogged the piston D may be forced down with sufficient power to clear the holes *a'* *a'* at once.

The device is equally applicable to mold-boards of every description.

I am aware that a perforated wooden mold-board having at its back a recess to contain oil is not new; hence I do not claim it; but,

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

The combination of a water and air chamber and a force-pump with a metallic perforated mold-board and land-side, in the manner substantially as herein described.

JOHN W. FIELDS.

Witnesses:

GEO. M. SUTHERLAND,
J. T. CUNNINGHAM.