

I. M. FORD.
Plows.

No. 146,815.

Patented Jan. 27, 1874.

fig. 1.

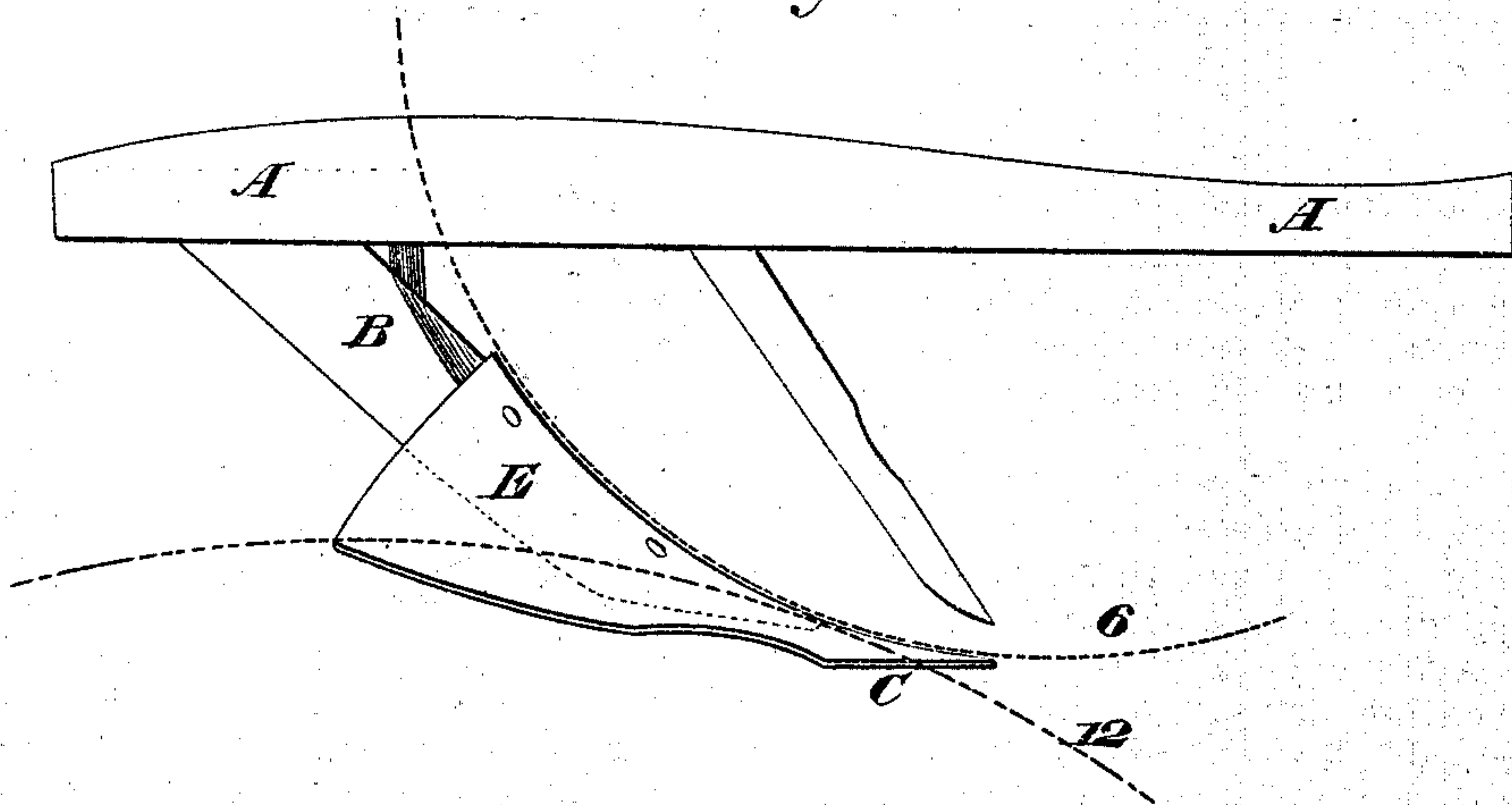


fig. 2.

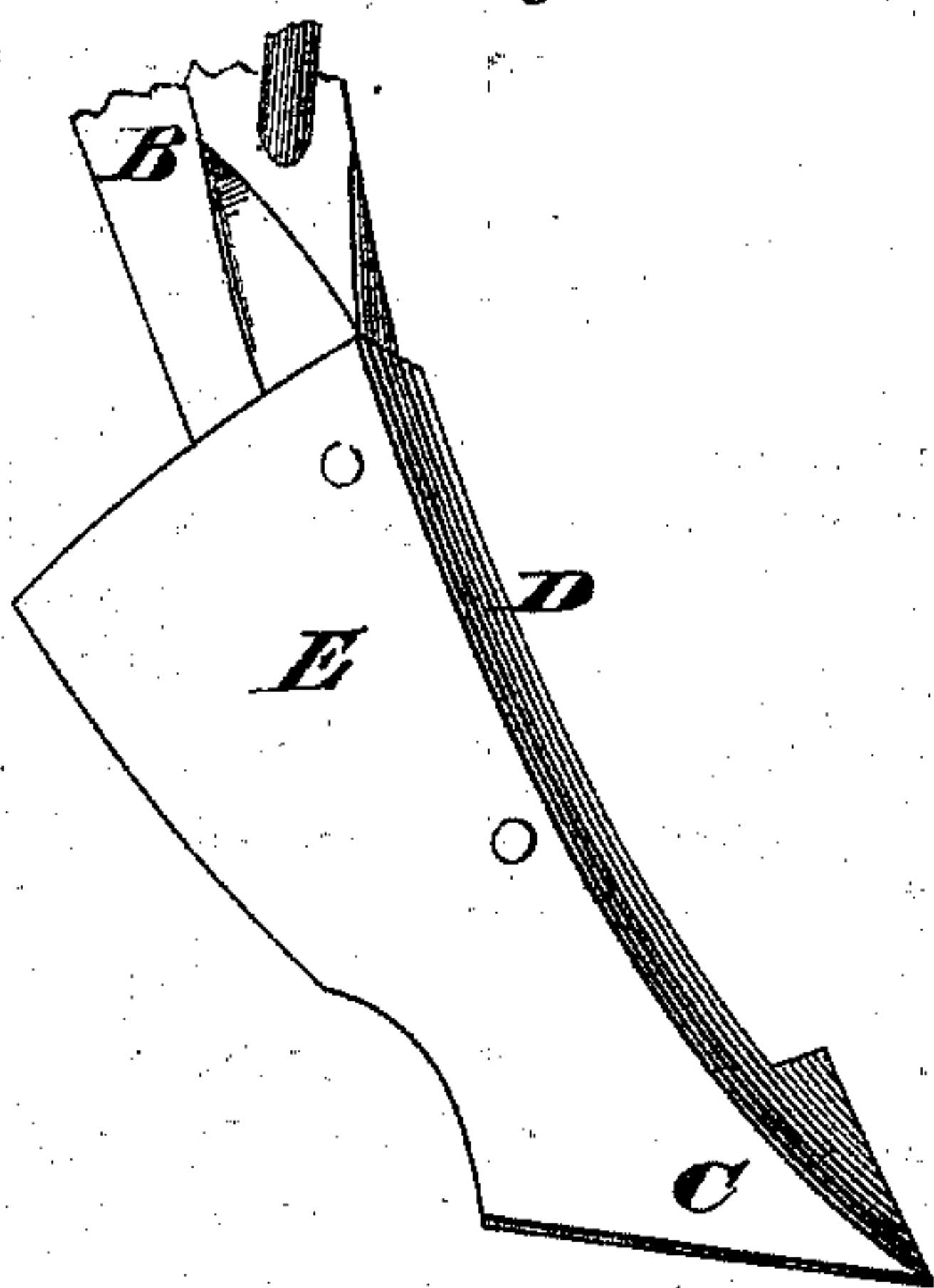
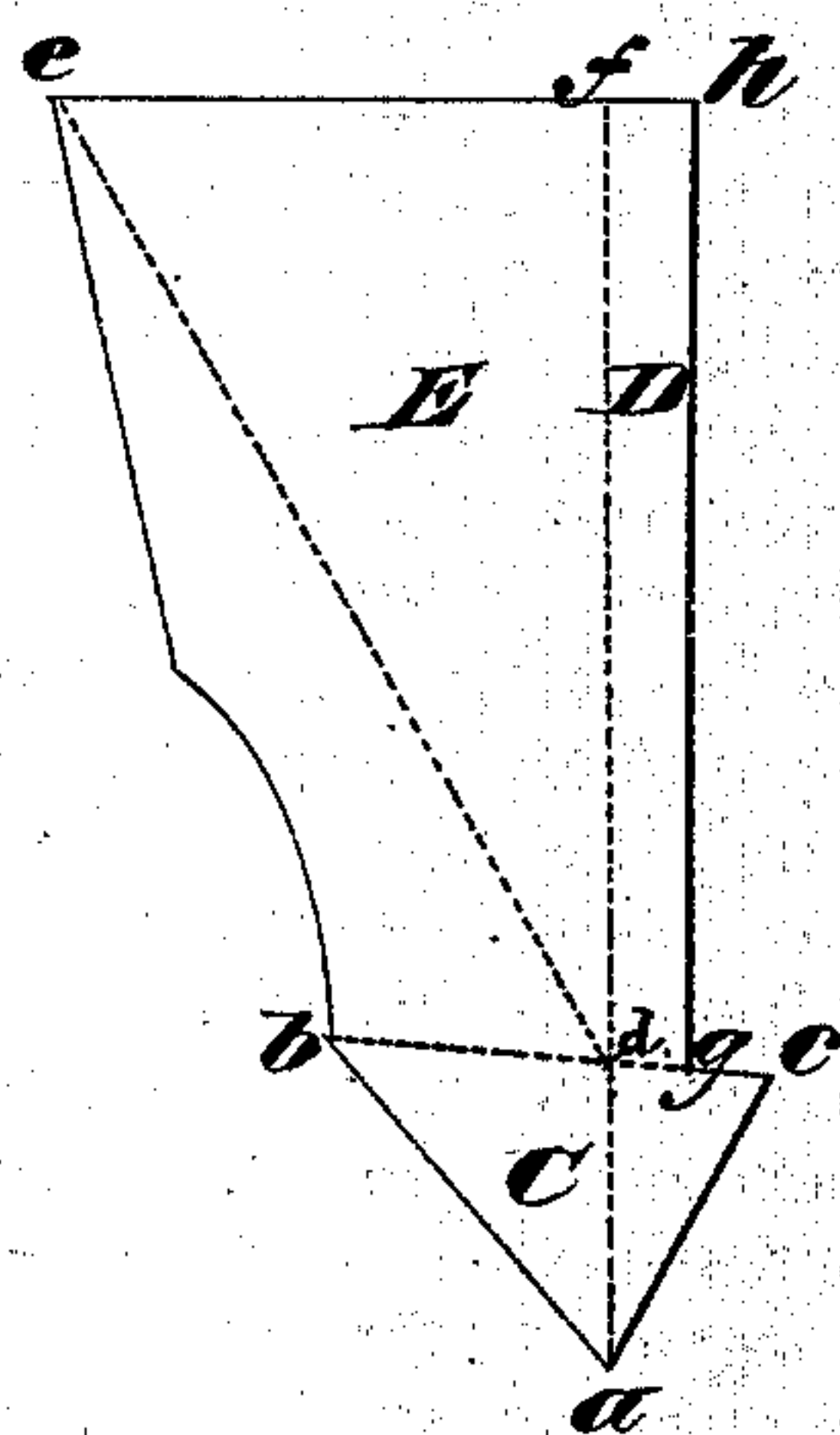


fig. 3.



WITNESSES:

Gustave Dietrich
Philbrick

INVENTOR:

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BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

ISAAC M. FORD, OF BELTON, TEXAS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **146,815**, dated January 27, 1874; application filed December 1, 1873.

To all whom it may concern:

Be it known that I, ISAAC M. FORD, of Belton, in the county of Bell and State of Texas, have invented a new and useful Improvement in Plows, of which the following is a specification:

Figure 1 is a side view of my improved plow-plate, shown as applied to a standard and beam. Fig. 2 is a perspective view of the same; and Fig. 3 is a diagram illustrating the mode of laying out the plate.

My invention has for its object to furnish an improved plow, which shall be so constructed that it will scour and keep bright in the stiffest and most sticky prairie-soil, and will thus work without clogging where ordinary plows cannot work. The invention consists in an improved plow-plate, formed of a single piece of iron or steel, with its point in the form of an isosceles triangle with a rearwardly-inclined land-side flange, with the angular line between the land-side flange and the mold-board concaved upon the arc of a circle about six feet in diameter, and with the mold-board convexed, so that a line drawn from its rear corner to the point of intersection of the said angular line and the point may be upon the arc of a circle of about twelve feet in diameter, as hereinafter fully described.

A represents the plow-beam, to the rear part of which the upper end of the standard B is attached. The forward side of the standard B is concaved to form a seat for the plow-plate upon the arc of a circle of six feet in diameter. C D E is the plow-plate, which is made of a single piece of iron or steel, and formed in the manner hereinafter described, and struck or pressed into the desired form. C is the point, which is laid out in the form of an

isosceles triangle, *a b c*, the base *a c* of the triangle forming the land side of the point, and one of the equal sides *a b* forming the mold-board side of the point, as shown in Fig. 3. D is the flange or land-side of the plate, which is made about two inches wide, and is bent or inclined to the rearward, as shown in Fig. 2, so that dirt, weeds, or trash will slide off and not clog the plow. The land-side corner *c* of the point C projects about two inches beyond the edge *g h* of the flange D. The plate so formed is bent into such a shape that the angular forward edge of the plow along the line *d f* may be concaved upon the arc of a circle of about six feet in diameter, and the mold-board E may be convexed, so that the line *d e* may be upon the arc of a circle of about twelve feet diameter.

With this construction, the plow-plate will scour smooth, and the most sticky soil will not adhere to it.

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

An improved plow-plate formed of a single piece of iron or steel, with its point C formed at irregular angles, as shown, and with a rearwardly-inclined land-side flange, D, extending from the angular line *f d*, the latter being concaved upon the arc of a circle, as set forth, and the mold-board E, from its rearward corner *e* to the point at *d*, being convexed, as specified, all constructed and arranged substantially as herein shown and described.

ISAAC M. FORD.

Witnesses:

GEORGE M. McWHISTER,
JNO. H. JOHNSON.