

(No Model.)

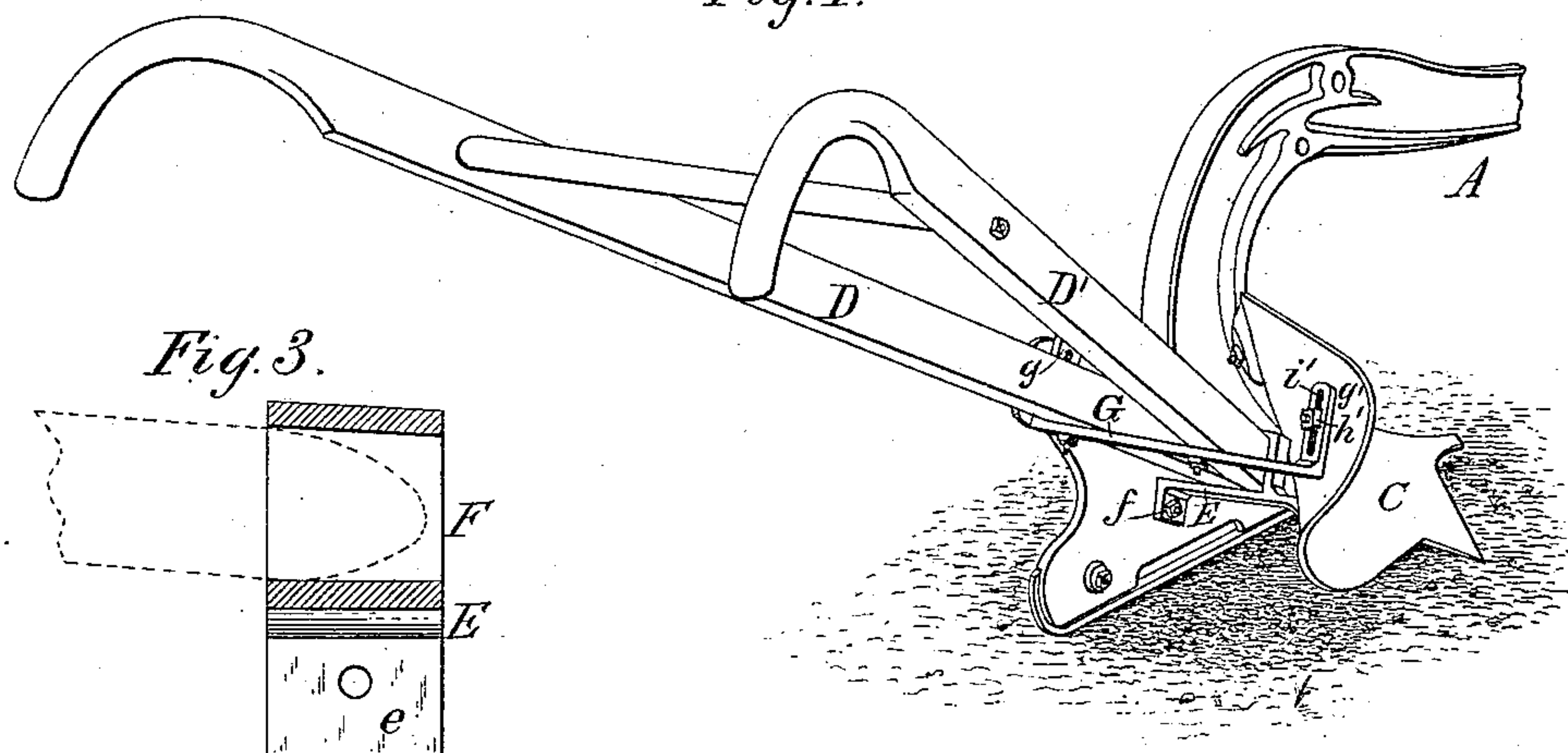
J. RITZ.

PLOW.

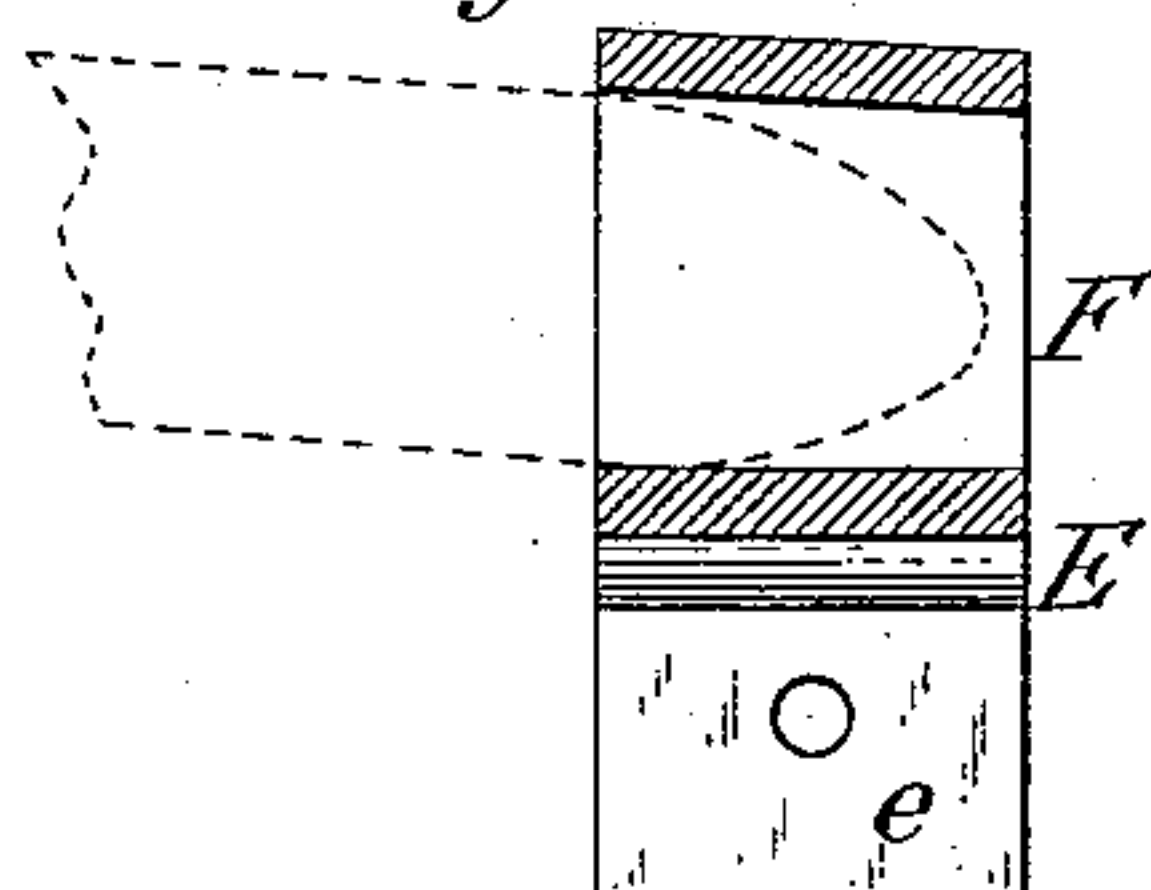
No. 297,450.

Patented Apr. 22, 1884.

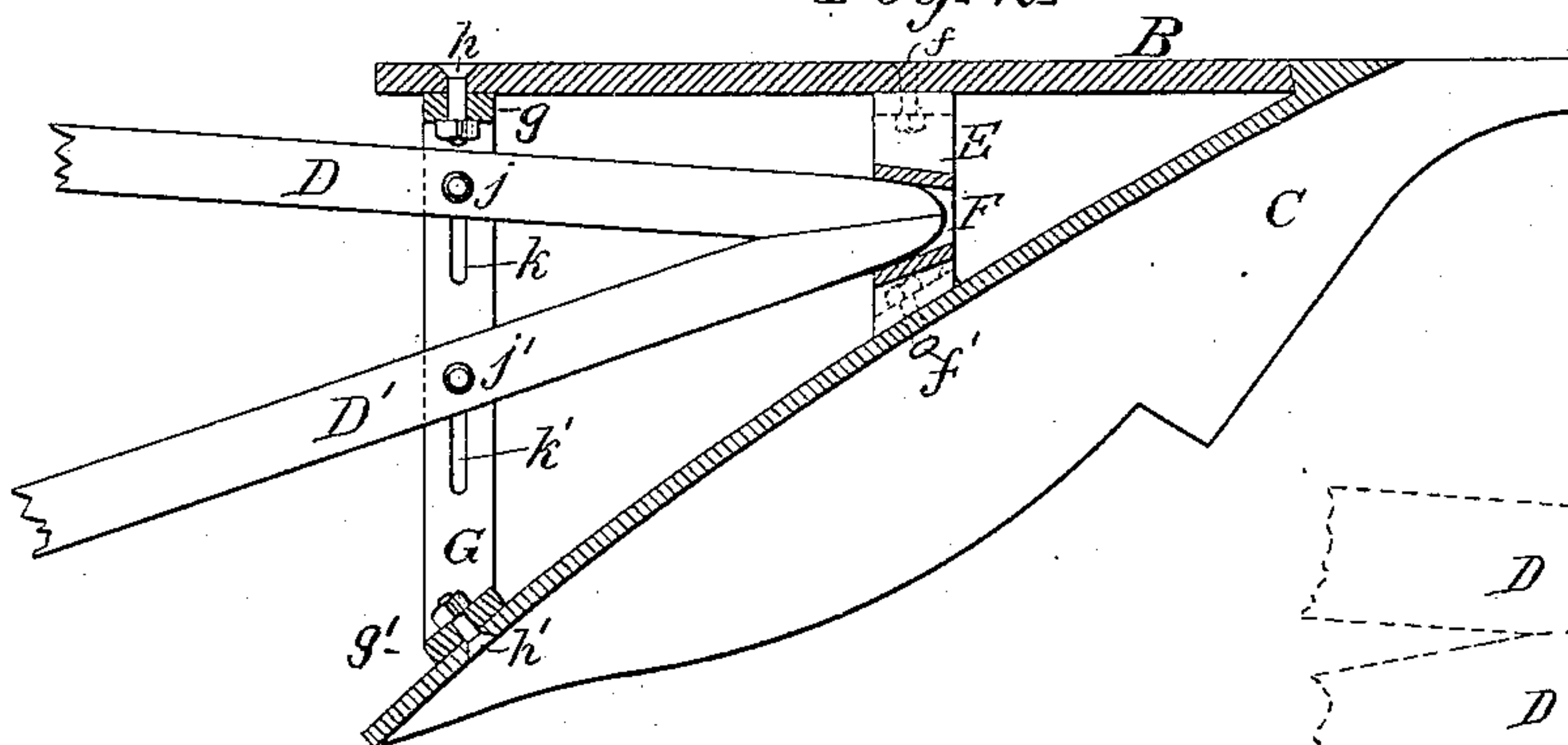
*Fig. 1.*



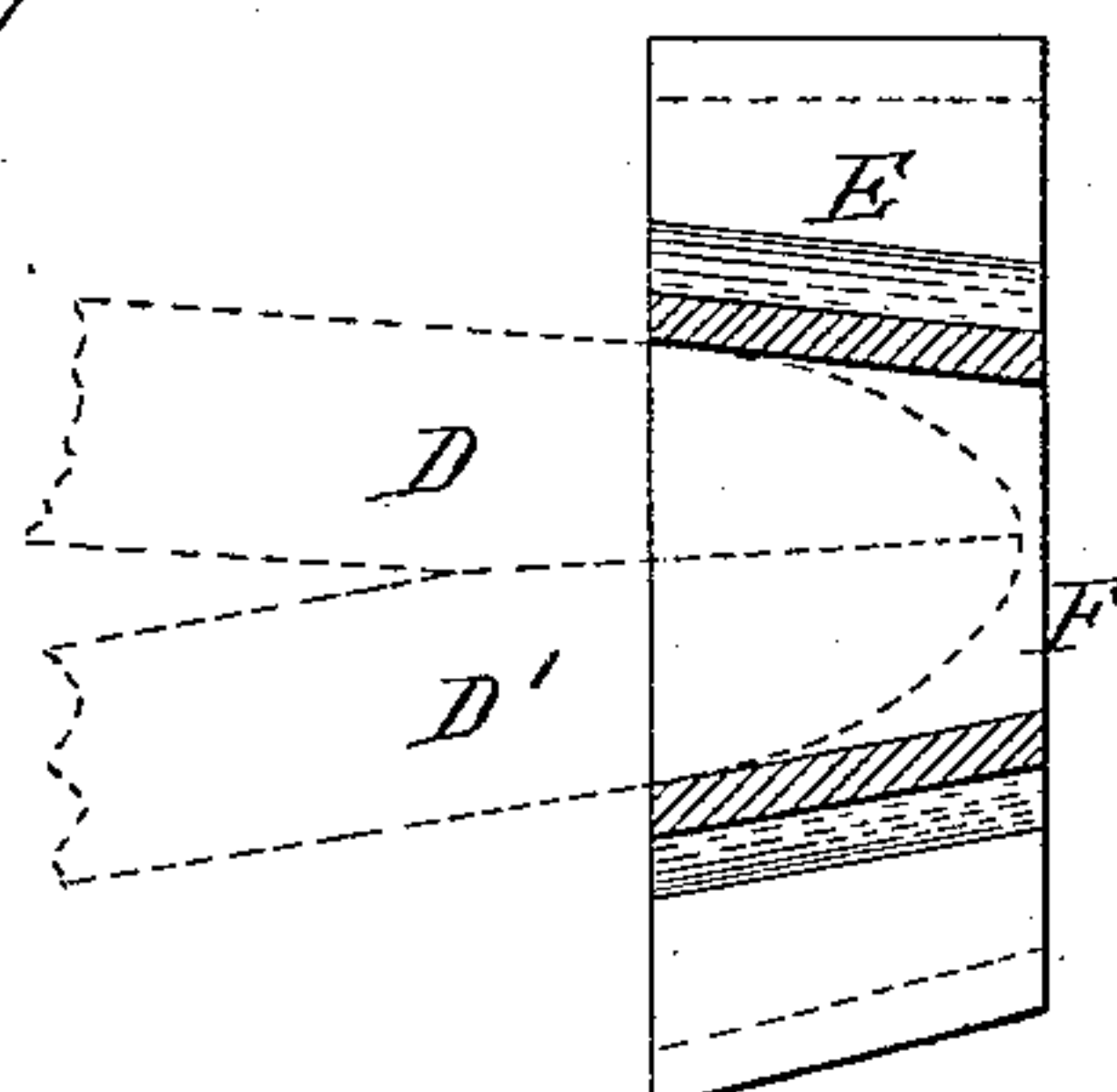
*Fig. 3.*



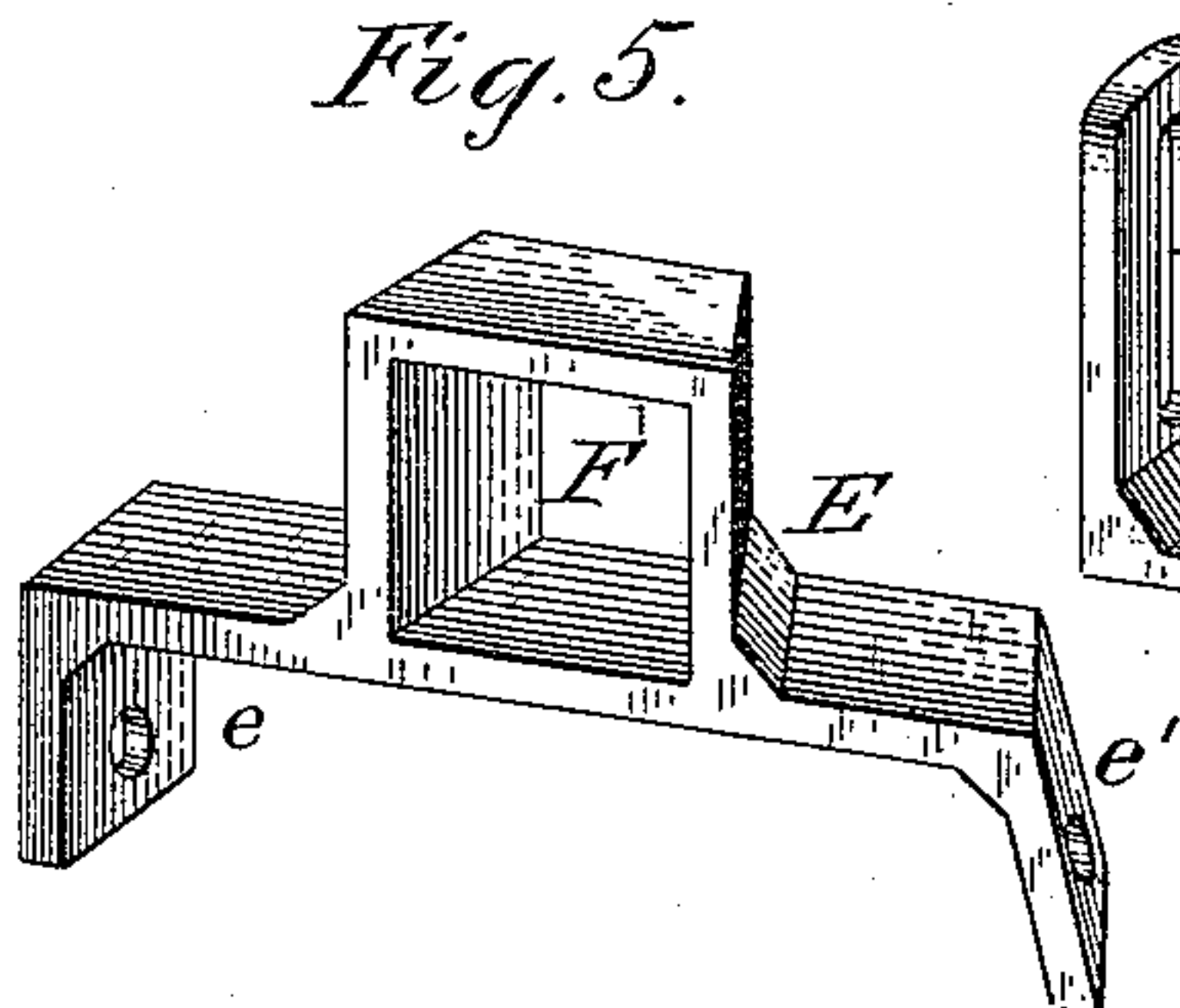
*Fig. 2.*



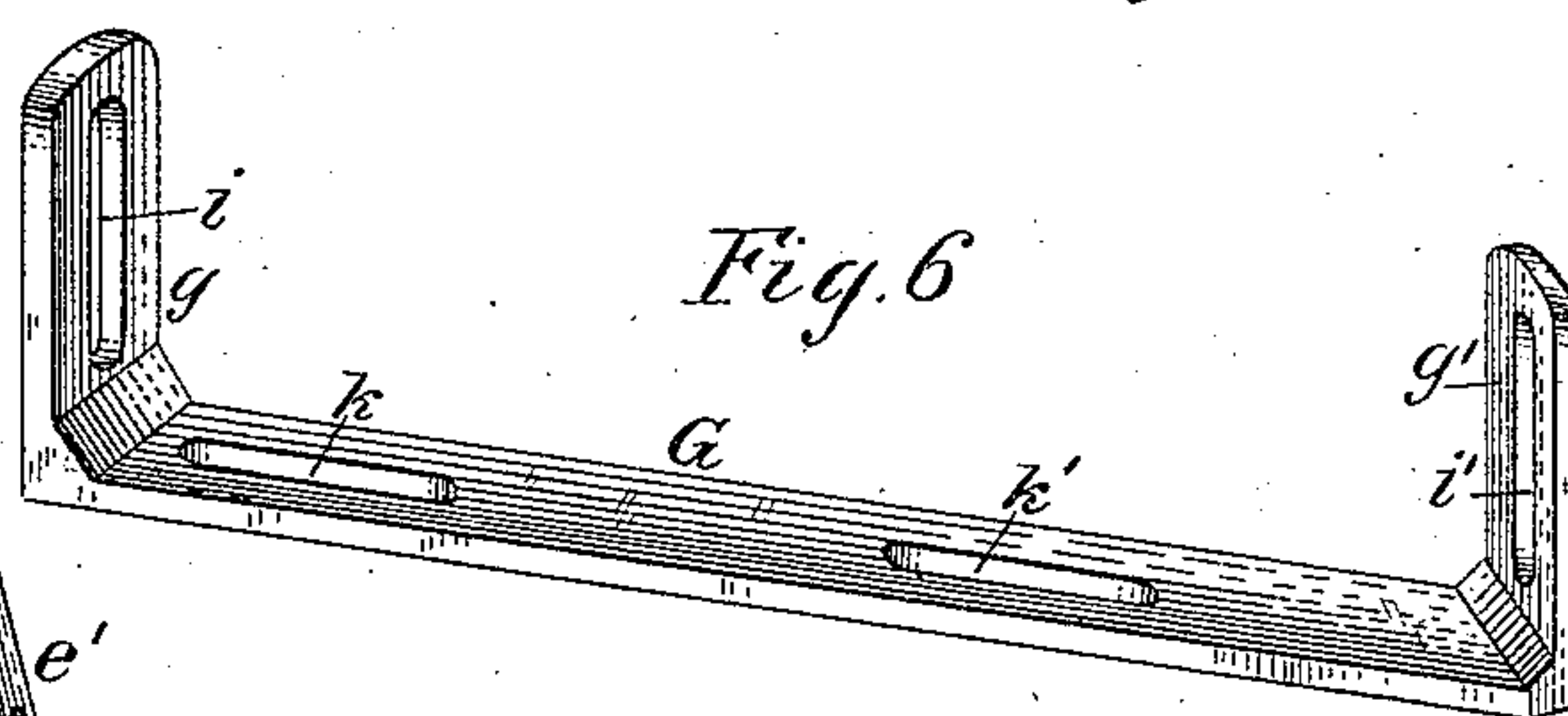
*Fig. 4.*



*Fig. 5.*



*Fig. 6*



Thos. L. Popp  
Geo. E. Pittman } Witnesses.

John Ritz Inventor.  
By Wilhelm & Bonner Attorneys.



# UNITED STATES PATENT OFFICE.

JOHN RITZ, OF GOWANDA, NEW YORK, ASSIGNOR OF ONE-HALF TO  
WILLIAM DAUBER, OF SAME PLACE.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 297,450, dated April 22, 1884.

Application filed December 10, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN RITZ, of Gowanda, in the county of Erie, in the State of New York, have invented a new and useful Improvement in Plows, of which the following is a specification.

This invention relates to certain new and useful improvements in plows; and it has for its object to provide a simple device for adjustably securing the handles to the plow, so that they can be adjusted both horizontally and vertically, said device serving at the same time to connect the mold-board and landside in a strong and substantial manner.

With these objects in view my invention consists in the improvements hereinafter fully described and specifically claimed.

In the accompanying drawings; Figure 1 is a perspective view of a plow provided with my improvements. Fig. 2 is a horizontal section of the plow. Fig. 3 is a vertical section, and Fig. 4 a horizontal section, of the socket in which the lower ends of the handles are secured. Fig. 5 is a perspective view of said socket. Fig. 6 is a perspective view of the brace connecting the mold-board to the landside.

Like letters of reference denote like parts in the several figures.

A represents the plow-beam. B represents the landside, and C the mold-board, all of any suitable or well-known construction.

D D' represent the handles, having their lower ends arranged between the landside and mold-board in a well-known manner.

E represents a brace extending transversely from the lower front portion of the landside to the lower front portion of the mold-board, and provided with a socket, F, which receives the lower ends of the handles D D'. This brace E and socket F are preferably constructed in one piece of cast-iron. The brace E is provided with ears *e e'*, fitted, respectively, against the inner sides of the landside and mold-board, and secured thereto by bolts *f f'*.

G represents a brace extending from the upper rear portion of the landside to the upper rear portion of the mold-board. This brace is provided at its ends with ears *g g'*, fitted against the inner sides of the landside and

mold-board, and secured thereto by bolts *h h'*, respectively. The ears *g g'* are constructed with upright slots *i i'*, through which the bolts *h h'* pass, so that, upon loosening these bolts, the brace G can be raised and lowered on the landside and mold-board, thereby raising and lowering the handles D D', supported on this brace. The handles D D' are secured to the brace G by bolts *j j'*, which pass through horizontal slots *k k'*, formed lengthwise in the brace G. The proper adjustment of the handles D D' to suit the height of the person using the plow is effected by raising or lowering the brace G on the landside and mold-board, and the handles may be adjusted from right to left, or vice versa, when it is desired to change the draft of the plow, by loosening the bolts *j j'* and changing the position of the handles on the brace G. The lower ends of the handles D D', which are secured in the socket F, are rounded off, as shown in Figs. 3 and 4, to permit of a limited horizontal and vertical movement of the handles in the socket F, which is necessary in adjusting said handles.

The braces E and G can be reversed and used, either side up, by changing the ears of the braces to conform to the curvature of the mold-board. My improved adjusting device avoids the casting of lugs or projections on the mold-board, and is therefore especially adapted for use on steel plows, but may also be applied to plows of cast or chilled iron.

Straight handles can be applied to plows provided with my improvements, and as the handles are hung in the center of the plow the plow is more easily handled than when they are attached to the sides.

The braces E and G secure the mold-board and landside firmly together.

I am aware that a slotted brace extending from the landside to the mold-board, and fitting with its end against a lug on the mold-board, is not new; but it is well known that there is great difficulty in forming these lugs on steel mold-boards, and I am enabled by the use of my construction of the braces to place the ends of the braces directly against the smooth inner sides of the mold-boards, thus rendering unnecessary the forming of any lugs or projections upon the mold-board.

I claim as my invention—

The combination, with the landside B, mold-board C, and handles D D', of a brace, G, provided with horizontal slots *k k'* and  
5 ears *g g'*, having upright slots *i i'*, the ear *g'* being fitted directly against the inner side of the mold-board, and a brace, E, having a socket, F, formed upon the upper part of said brace and integral therewith, in which the

lower ends of the handles D D' are secured, in substantially as set forth.

Witness my hand this 27th day of November, 1883.

JOHN RITZ.

Witnesses:

FRED J. BLACKMAN,  
WILLIAM DANBER.