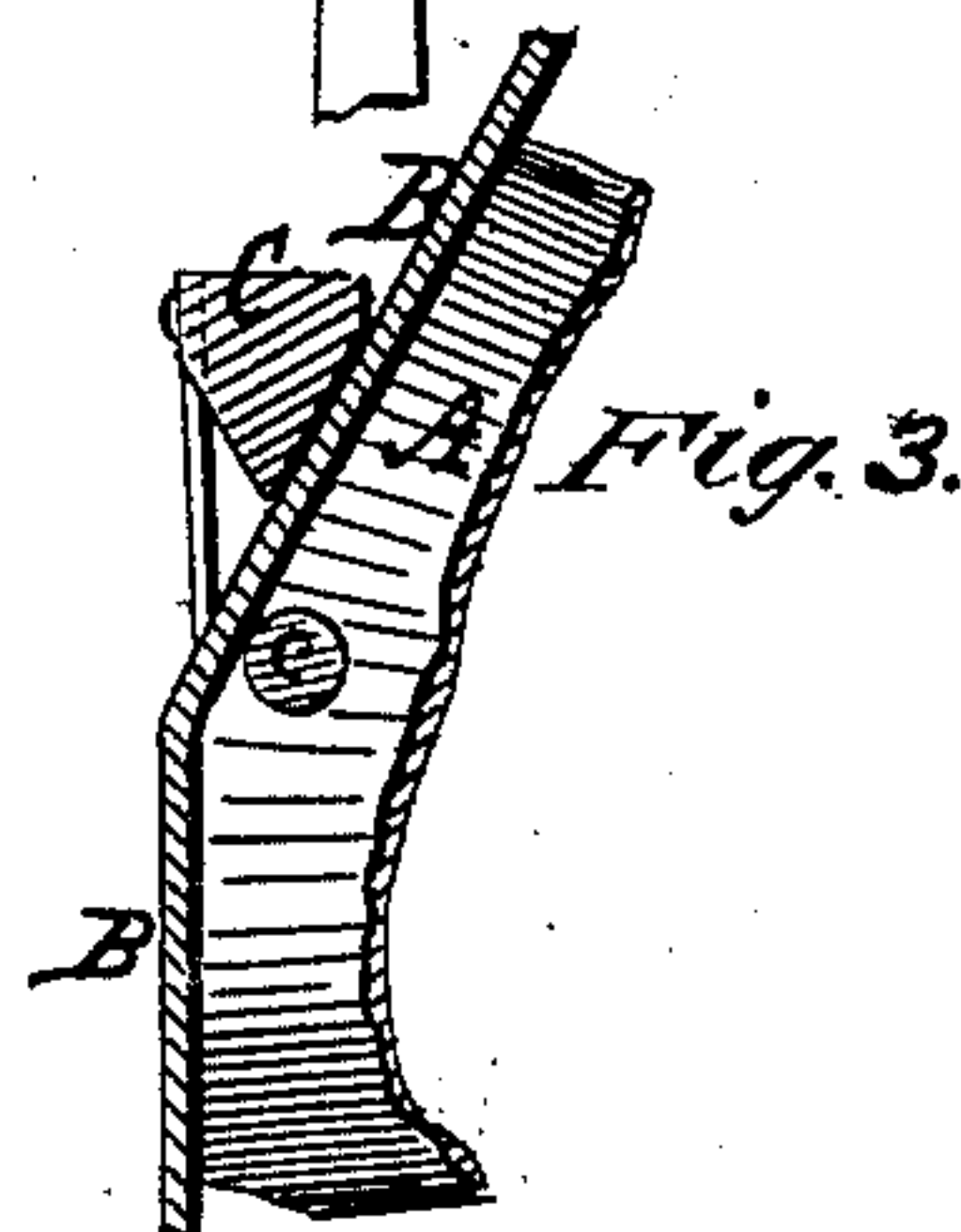
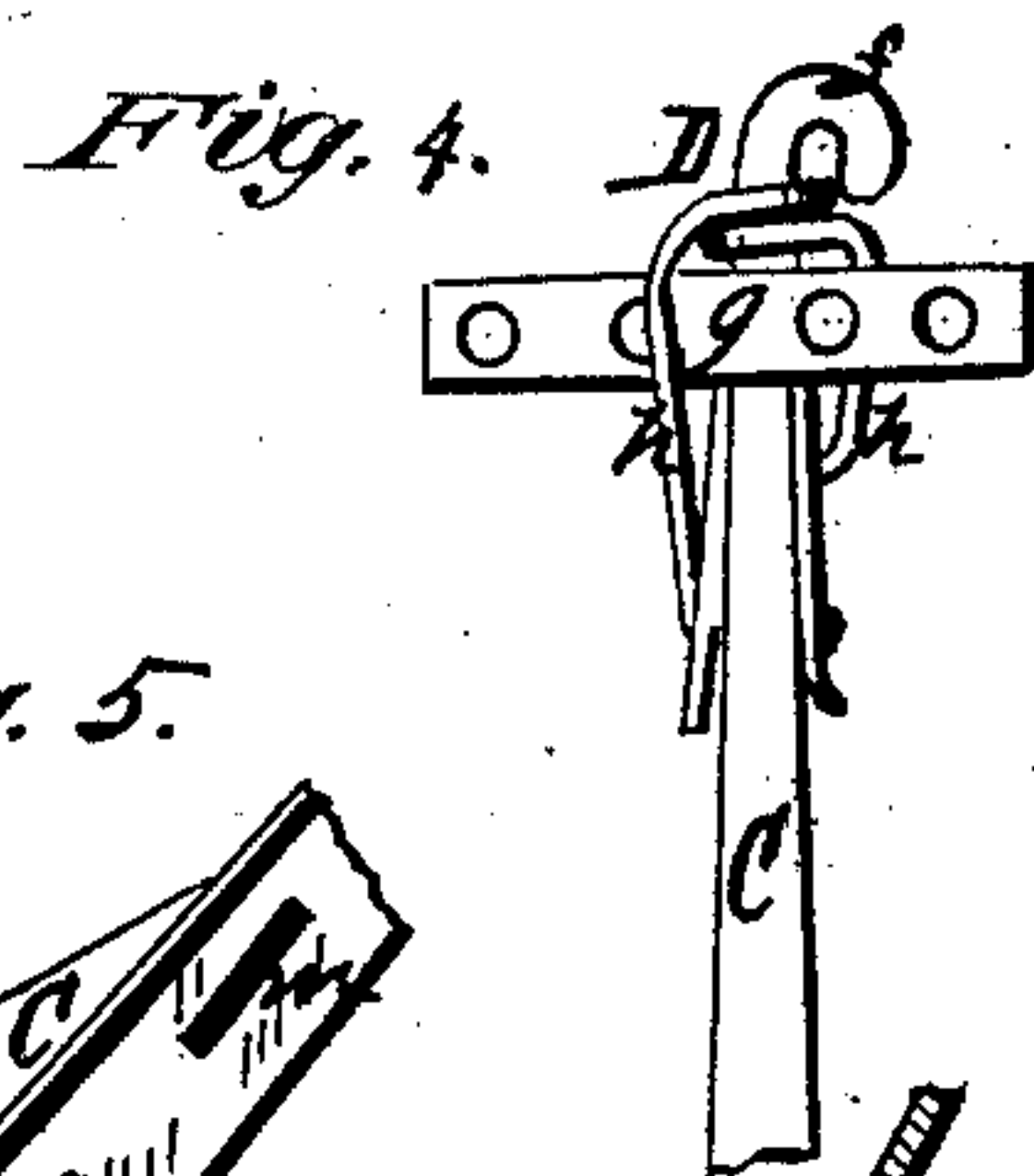
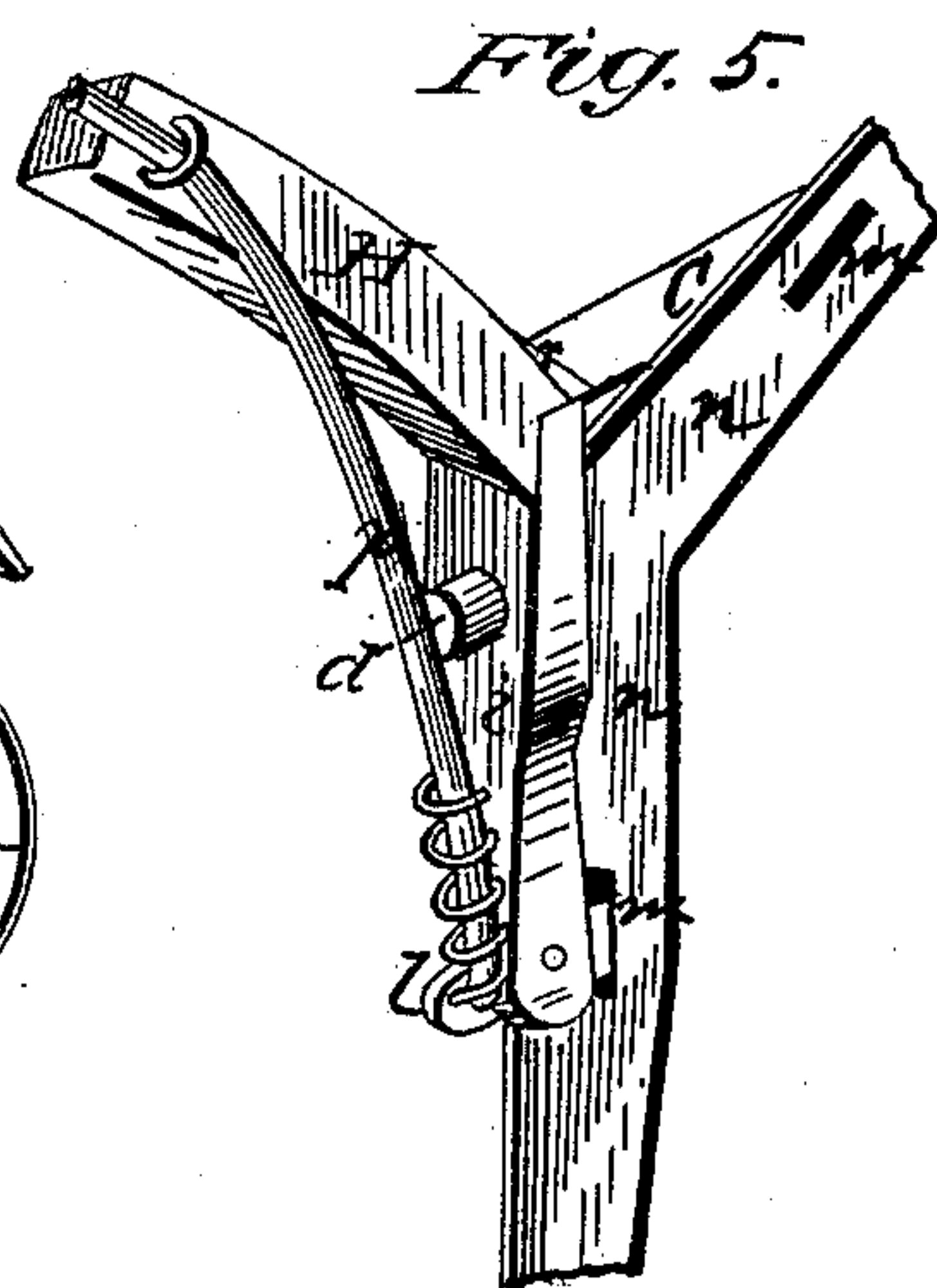
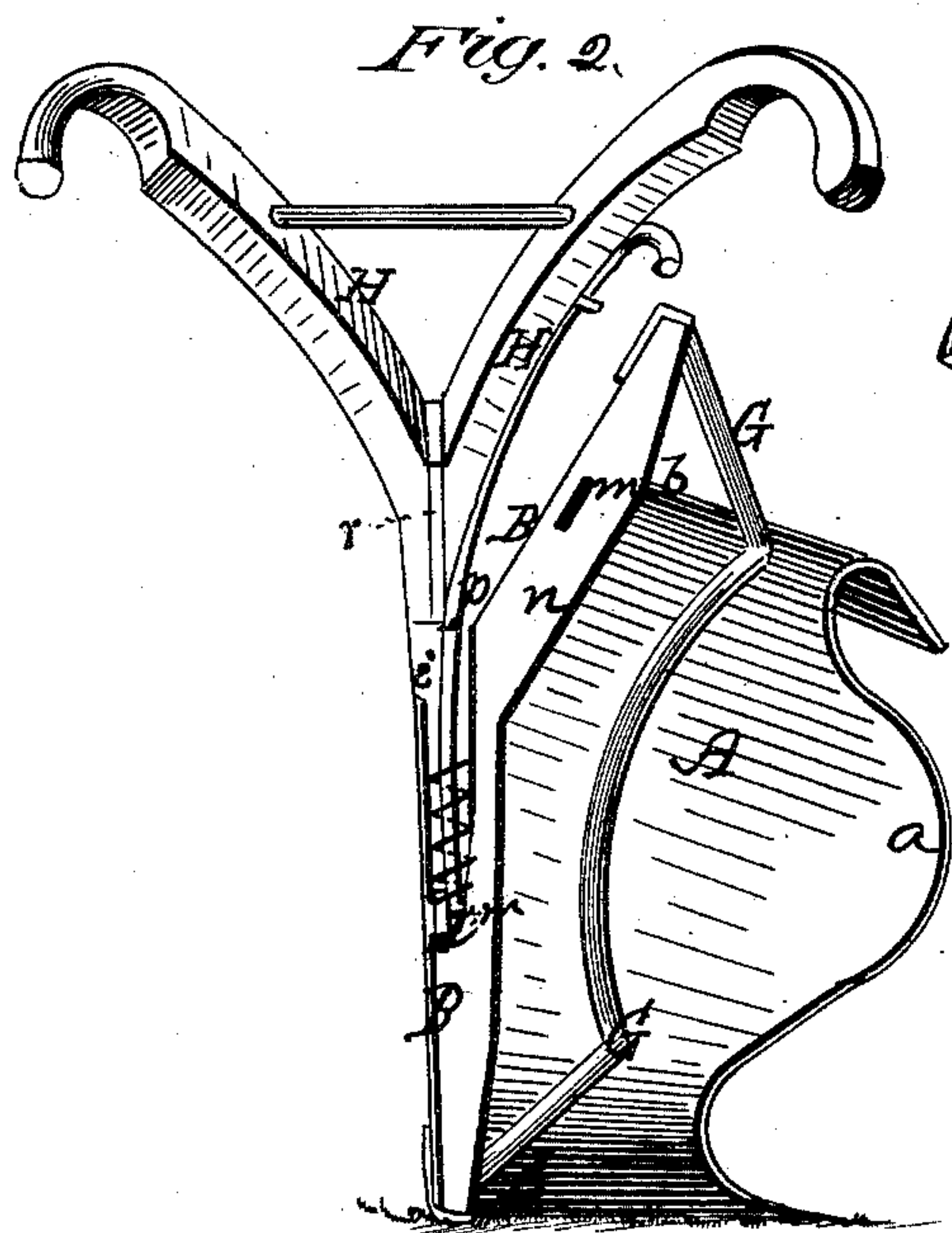
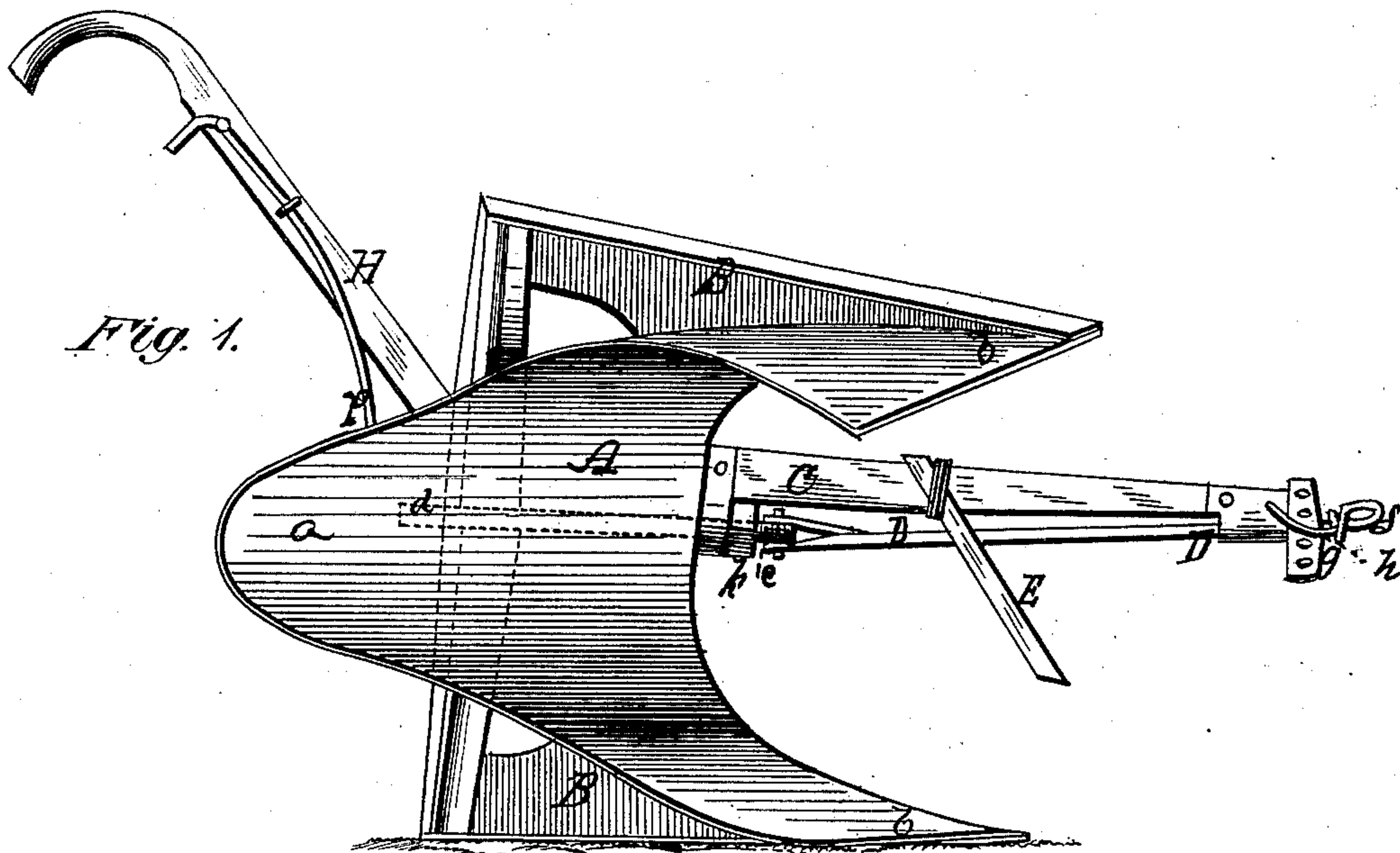


A. S. CLOUGH.  
Reversible Plow.

No. 232,001.

Patented Sept. 7, 1880.



Witnesses:  
*Fred. G. Dietrich*  
*J. C. Bay*

Inventor:  
*Aaron S. Clough,*  
*By J. S. Brown,*  
*his attorney.*



# UNITED STATES PATENT OFFICE.

AARON S. CLOUGH, OF MEREDITH, ASSIGNOR OF ONE-HALF OF HIS RIGHT  
TO MOSES H. MERROW, OF NEW HAMPTON, NEW HAMPSHIRE.

## REVERSIBLE PLOW.

SPECIFICATION forming part of Letters Patent No. 232,001, dated September 7, 1880.

Application filed November 26, 1879.

*To all whom it may concern:*

Be it known that I, AARON S. CLOUGH, of Meredith, in the county of Belknap and State of New Hampshire, have invented an Improved Reversible Plow; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a side view of the plow; Fig. 2, a rear view of the same; Figs. 3, 4, and 5, views of parts detached.

Like letters designate corresponding parts in all of the figures.

In the construction of my improved reversible plow I employ a double mold-board, A, having a double wing, *a*, in the middle part, and at the extreme opposite edges, respectively, two shares and points, *b b*, one overhanging the concave of the mold-board when the other runs at the bottom of the furrow, and thereby assisting to turn the furrow-slice. As both side edges are alike, the operation is precisely the same whichever share is at the bottom, one turning the furrow-slice to the right and the other to the left. I pivot or swivel this double mold-board on a middle longitudinal line at the under or back side thereof. This pivot-line is formed at the junction of two landsides, B B, extending from the shares and soles at the points of the mold-board, and forming planes which meet at a very obtuse angle approximating to a straight line, or one hundred and eighty degrees, as indicated in Figs. 2 and 3. The journals *c d* on which the mold-board swivels turn close up under the beam C and centrally beneath the same, whereby the beam is brought down into a normal or usual position relative to the mold-board and share; and in order to enable the pivot-line of the mold-board to be thus brought close beneath the beam, that part of the beam directly above the mold-board is made of triangular form in cross-section, or brought nearly to an edge at the lower side, as shown in Fig. 3. The landsides may be hollowed somewhat where they are brought into contact with the beam, in order to enable the mold-board to turn under the beam nearly to the extent of half a circle, though it is not

necessary to give a turning movement quite to the extent of half a circle.

This pivoting of the mold-board close up under the plow-beam enables me to automatically shift the line of draft so as to properly take land, whichever way the mold-board turns, by very simple and direct means. This consists in securing a rod, D, to the forward journal, *c*, of the mold-board, or to some part of the mold-board itself, and extending the same forward under the beam, so as to be in or nearly in line with the journal and turn with the same, and consequently with the mold-board. This rod terminates beyond its bearing under the forward end of the beam, with a hook, *f*, turned to one side, so that the draft-chain hitched thereto will properly direct the beam when turning the furrow-slice either to the right or the left, substantially as indicated in Fig. 4. Also, there is or may be attached to the forward end of the rod D a clevis-bar or other form of clevis, *g*, as shown, so as to vary the draft in either direction and still shift automatically.

Suitable stops *h h* may serve to hold the clevis steadily in its position.

The colter E is attached to one side of the beam, as shown, so as not to be in the way of the clevis-shifting rod D beneath the beam, and it may have a lateral movement given to it by connecting it with the said rod.

The forward journal, *c*, of the mold-board turns in a bearing, *k*, projecting downward from the beam, and to furnish a bearing for the rear journal, *d*, of the mold-board an arm, *i*, extends downward from the rear end of the beam and nearly at right angles thereto. This arm also extends far enough down to carry the locking device for holding the mold-board in its two positions. This consists in a dog, *l*, pivoted to and preferably in a slot or mortise of the arm *i*, this dog, when left free, being provided with a spring or otherwise arranged to automatically enter one or the other of two slots or mortises, *m m*, in a rim or flange, *n*, extending along the rear ends of the two landsides B B of the mold-board, the middle or rear wing of the mold-board being supported by a bolster-brace, G', attached to the ends of this flange or to the landsides, as shown in



in Fig. 2. The locking-dog is withdrawn from the lock-mortises of the flange by drawing on a rod, *p*, extending therefrom up by the side of one of the plow-handles to a position within reach of one of the hands of the operator, substantially as represented in Fig. 1, or otherwise.

The handles *H H* of the plow are bolted to the two sides of another arm, *r*, extended upward and backward from the rear end of the beam.

This reversible plow is exceedingly simple in construction and operation, strong, and, having little operative complication, is not liable to get out of order.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The double mold-board *A*, having the an-

gular landside *B* and pivoted close under the beam, in combination with the beam *C*, chamfered or beveled on its under side, substantially as and for the purpose herein specified. 20

2. The combination of the shaft or pivot of the reversible mold-board, turning therewith, and the draft-rod *D*, bearing the reversible clevis *f*, and being attached to, so as to turn in line with, the said mold-board shaft, substantially as and for the purpose herein specified. 25

The foregoing specification signed by me this 29th day of September, 1879. 30

A. S. CLOUGH.

Witnesses:

SARAH E. PERKINS,

S. W. ROLLINS.