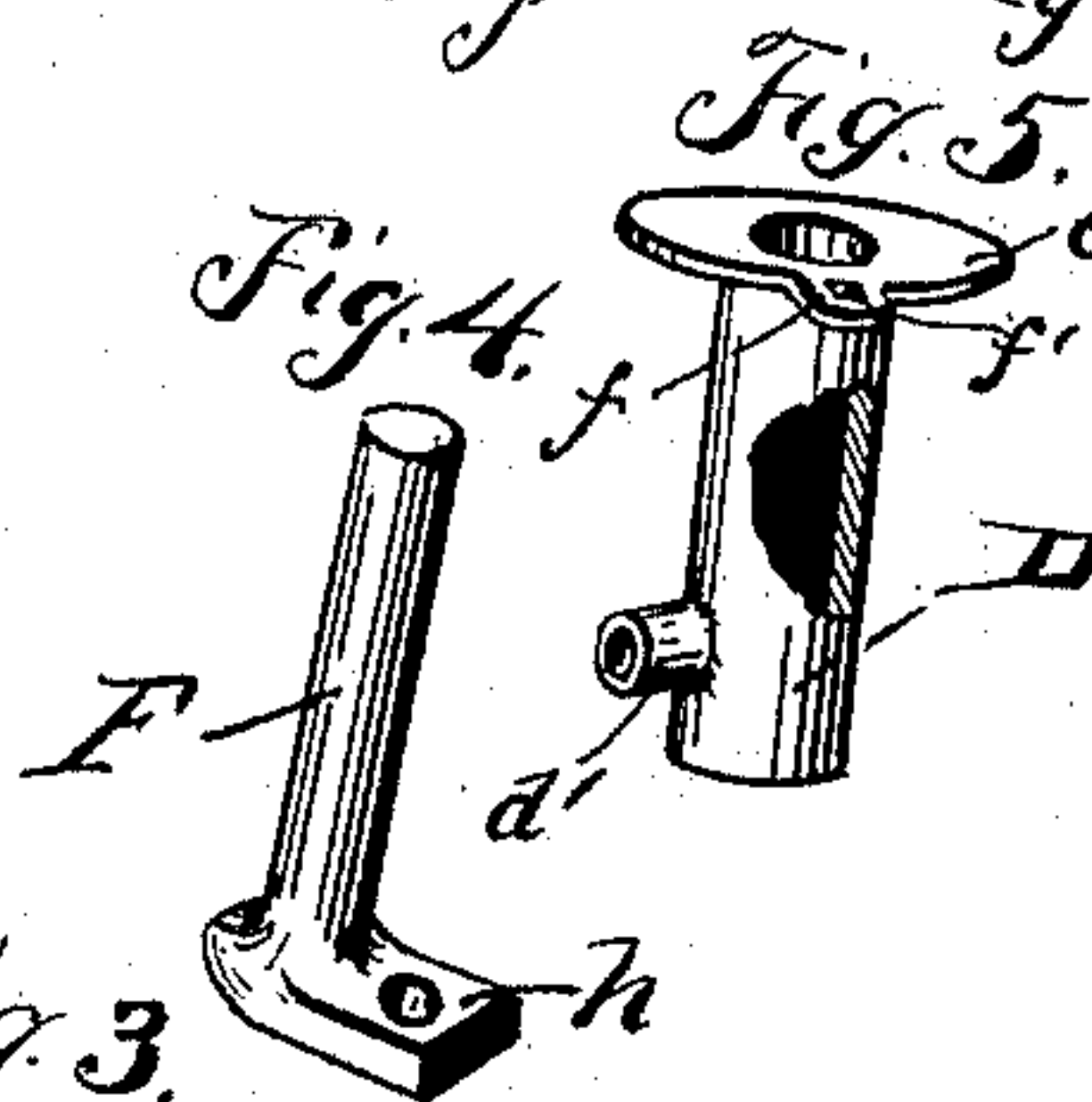
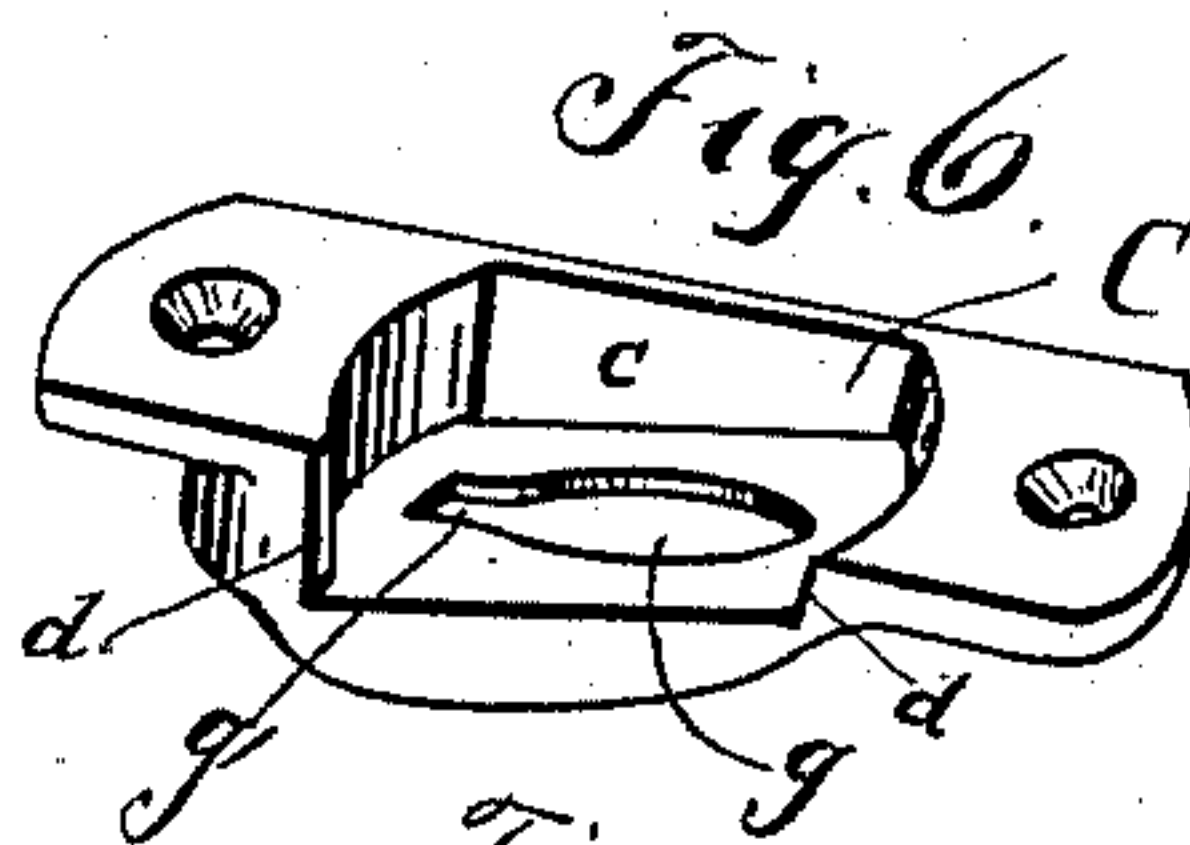
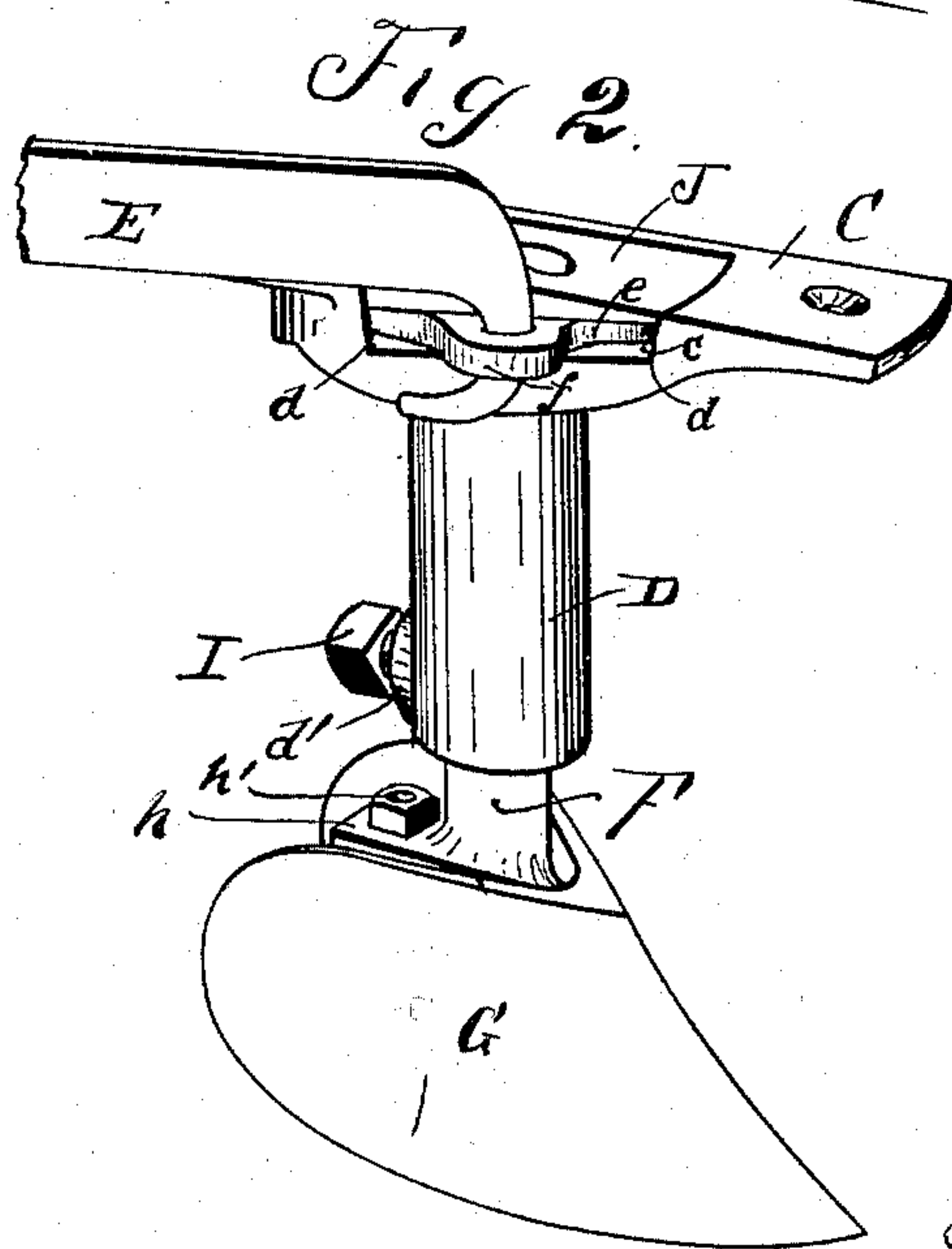
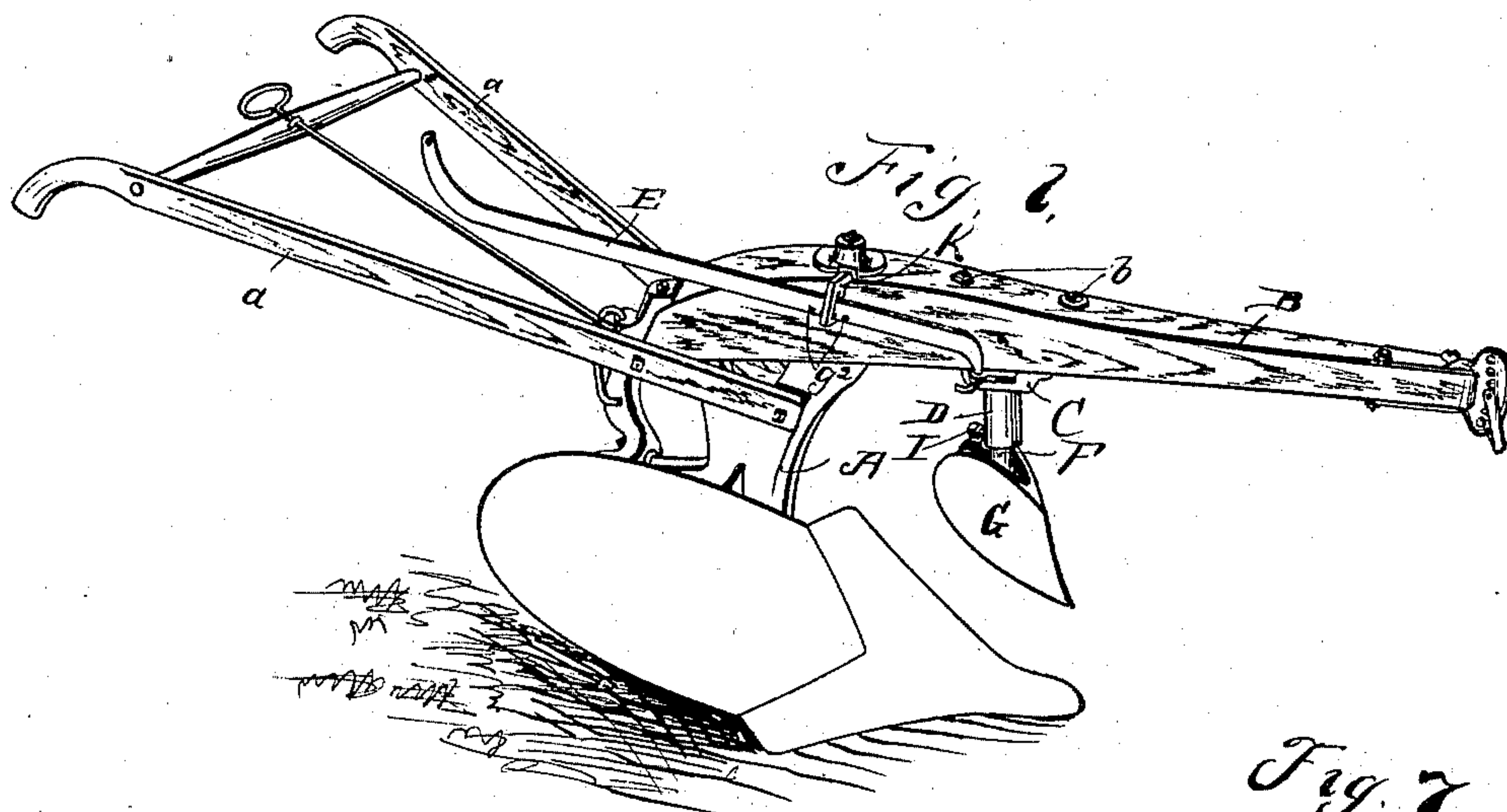


(No Model.)

W. E. SEFTON.
COLTER.

No. 488,457.

Patented Dec. 20, 1892.



Witnesses.
J. S. Ross
Laura Shaeffer.

Inventor.
William E. Sefton.
By Fred W. Bond
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM E. SEFTON, OF CANTON, OHIO.

COLTER.

SPECIFICATION forming part of Letters Patent No. 488,457, dated December 20, 1892.

Application filed October 17, 1892. Serial No. 449,104. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. SEFTON, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Colters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1, is a side elevation showing the colter properly attached to the beam and illustrating the position of the adjusting handle or lever. Fig. 2, is a detached view of the colter and its different parts and illustrating a portion of the adjusting handle or lever, and showing the same properly attached. Fig. 3, is a detached view of the colter blades. Fig. 4, is a detached view of the colter stem. Fig. 5, is a detached view of the socket or thimble designed to receive and hold the colter stem. Fig. 6, is a detached view of the colter head. Fig. 7, is a detached view of the filling-block or plate.

The present invention has relation to colters, designed and calculated to be used with hill-side plows; and it consists in the different parts and combination of parts hereinafter described and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the post or standard which may be of any desired style or kind, reference being had to the proper attachment of the mold-board and land-side to the bottom or lower portion of the same, reference being had more particularly to hill-side plows.

It will be understood that in hill-side plows, the mold-board and land-side are to be so attached and adjusted, that said parts may be reversed, thereby changing the plow proper to either a right or left hand plow as may be desired.

To the top or upper end of the post or standard A, is attached in any convenient and well known manner the beam B, which beam may be of the form shown in the drawings, or it

may be of any other desired form or kind, as it will be understood that my improved colter can be used with any kind or style of beam. The plow handles *a*, may be attached substantially as illustrated in Fig. 1, or they may be attached in any other convenient and well known manner, reference being had to the proper adjustment of said handles. To the bottom or under side of the beam B, is securely attached the colter-head C by means of the clamping-bolts *b*, or their equivalents, which clamping-bolts pass through the colter head C, and the beam B. The colter head C, is provided with the recess or socket *c*, which recess or socket is open upon one side; which open side is provided with stops *d*, said stops being located and arranged substantially as illustrated in Fig. 6, and are for the purpose hereinafter described.

The socket or thimble D, is substantially of the form shown in the drawings, and as shown, its top or upper end is provided with the disk head *e*, which disk head is provided upon one side thereof with the extension or arm *f*, which extension or arm *f*, is provided with the aperture *f'*, said aperture being for the purpose of receiving one end of the adjusting lever or handle E. For the purpose of allowing the side-extension *d'*, to pass through the aperture *g*, said aperture is provided with the side opening *g'*.

The colter stem F, is substantially of the form shown in Fig. 4, and as shown its bottom or lower end is provided with the head *h*, which head is for the purpose of providing a means for securely attaching the colter plates G, to said stem, by means of the interposed bar H; said interposed bar being located substantially as illustrated in Fig. 3. The interposed bar H, and the head *h*, are each provided with apertures, which apertures are for the purpose of receiving and holding the clamping bolt *h'*.

In assembling the different parts of the colter proper, the socket or thimble D, is dropped through the aperture *g*, after which the colter-stem, together with the colter blades is properly adjusted and affixed to said socket or thimble D, by means of the set-screw I; and for the purpose of providing a sufficient amount of screw threaded surface for the set-

screw I, the side extension or boss d' is provided.

For the purpose of forming a continuous face upon the top or upper side of the colter-head C, the filling-block or plate J, is provided, which filling-block or plate is located upon the top or upper side of the disk head e , substantially as illustrated in Fig. 2; said filling-block or plate being also for the purpose of preventing any longitudinal movement of the socket or thimble D, together with the different parts attached to said socket or thimble.

For the purpose of holding the handle or lever E, in proper position, the link K, is provided; which link may be located substantially as illustrated in Fig. 1, and is securely attached to the beam in any convenient and well known manner. The lever or handle E, is provided with a series of notches such as g^2 , which notches engage the link K, thereby securely holding the handle or lever E, at any desired point of adjustment.

The colter-blades G, are so adjusted with reference to each other, that when they are brought into proper adjustment, with reference to the land-side and mold-board of the plow proper, one of said colter blades will form a land-side, and the other will form a mold-board; and it will be understood that the colter-blade which is to be used as a land-side should be adjusted to alignment with the land side of the plow proper.

In reversing the mold-board and land side of the plow proper, it will be understood that the positions of the land side, and mold board of the plow proper are reversed; and for the purpose of shifting the colter blades G, so as to adjust the same to proper alignment, the extension f , is provided, and located upon the disk-head e , of the socket or thimble D, and a pivotal connection made between the arm or extension f , and the handle or lever E.

When it is desired to adjust the colter-blades G, the handle or lever E is elevated at its rear end until the notches g^2 , are disengaged from the link K, at which time said lever is free to be pushed or pulled in either direction. The socket or thimble D, rotates upon its head e , during the time the colter-blades G, are being adjusted. For the purpose of limiting the movement of the colter-blades G, together with the stem F, and the socket or thimble D, the stops d , are provided, which stops limit the movements of the extension f . When the colter-blades G, have been properly adjusted, the rear end of the handle or lever E, is lowered, which movement engages the notches or recesses g^2 , with the link K, said notches or recesses being so

adjusted that they will come in proper position to engage the link K, when the blades G, are in proper adjustment. For the purpose of adjusting the colter-blades G up or down, the stem F, is formed of such a length that it can be moved longitudinally in the thimble or socket D; and when the colter-blades G, have been placed in proper vertical adjustment the set-screw I, is tightened against the stem F, thereby securely holding the blades G at the desired point of adjustment.

The mechanism for shifting the land-side and mold-board of the plow proper has not in this instance been described, as it forms no part of this invention; as it will be understood that my improvement can be attached to all hill-side or reversible plows without reference to the manner of attaching the mold-board and land-side, to the bottom or lower end of the post or standard A.

In the drawings, the device for holding the handle or lever E, consists of notches cut or formed in said lever, to engage a link, but it is obvious that many other devices can be employed to hold said handle or lever in fixed adjustment, without departing from the nature of my invention.

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

1. The combination of the colter-head C, fixed to the beam of a plow, the thimble or socket D, provided with the head e , having the extension f , the colter stem F, having fixed thereto the colter-blades G, and the lever or handle E, pivotally connected to the extension f , substantially as and for the purpose specified.

2. The combination of the colter-head C, provided with the recess c , and the stops d , the thimble or socket D, carrying the colter-stem F, the filling-block or plate J, the colter blades G, the set-screw I, and the lever or handle E, substantially as and for the purpose specified.

3. The combination of the colter-head C and the side extension f , the colter-stem F, having fixed to the bottom or lower end thereof the colter-blades G, and adjustably attached to the thimble or socket D, and means for adjusting the colter blades to alignment with the land-side of the plow, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM E. SEFTON.

Witnesses:

F. W. BOND,
CHAS. M. STANDS.