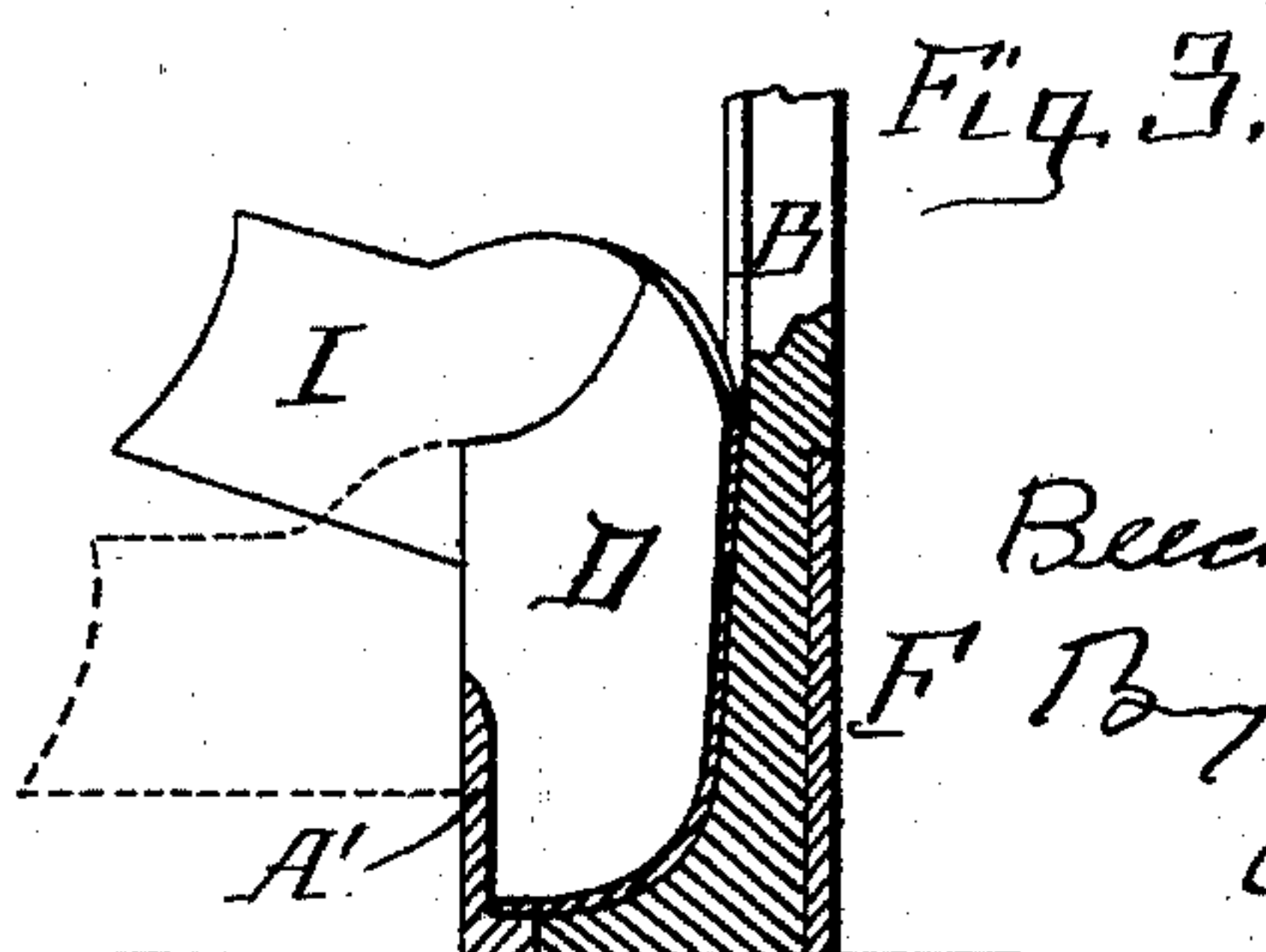
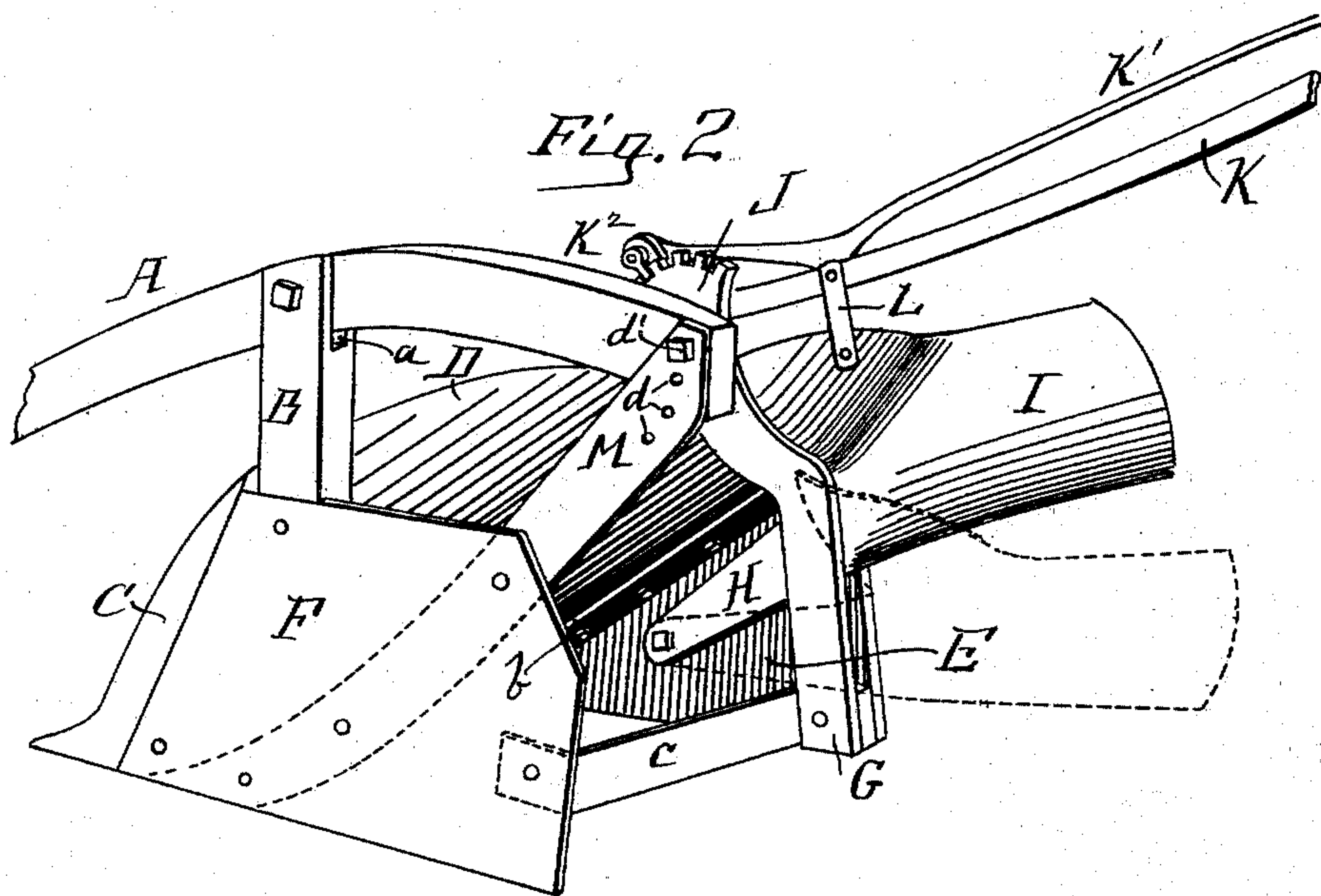
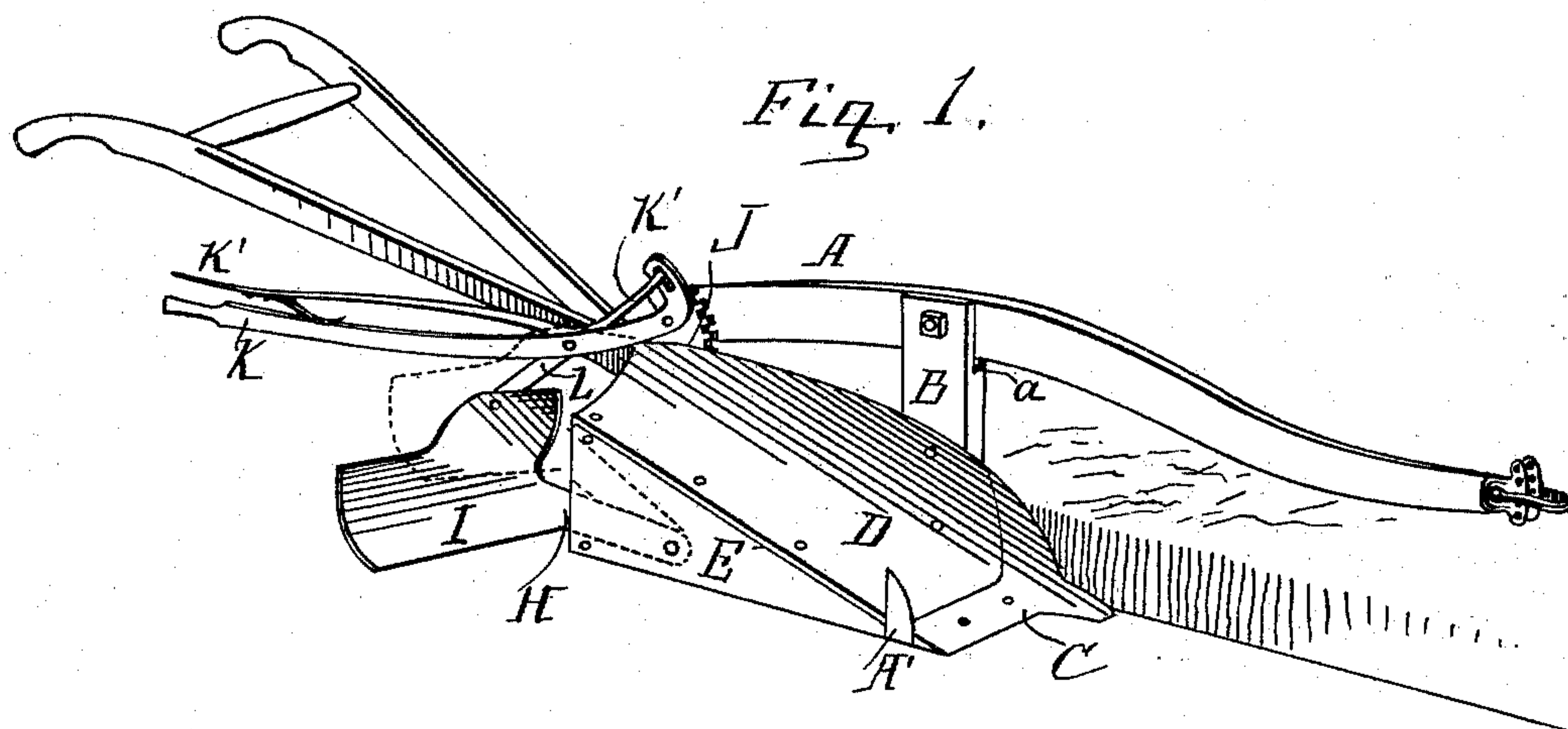


(No Model.)

B. H. RINEHART.
DITCHING PLOW.

No. 483,476.

Patented Sept. 27, 1892.



WITNESSES,
G. Cross
Laura Shaeffer

INVENTOR:
Beecher H. Rinehart
F. D. Bond
Atty

UNITED STATES PATENT OFFICE.

BEECHER H. RINEHART, OF ALLIANCE, OHIO.

DITCHING-PLOW.

SPECIFICATION forming part of Letters Patent No. 483,476, dated September 27, 1892.

Application filed July 21, 1892. Serial No. 440,779. (No model.)

To all whom it may concern:

Be it known that I, BEECHER H. RINEHART, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Ditching-Plows; 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 of reference marked thereon, in which—

Figure 1 is a view showing the mold-board side of the plow. Fig. 2 is a view showing the landside of the plow. Fig. 3 is a transverse section showing a portion of the post or standard and the mold-board.

The present invention has relation to ditching-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 beam, which is substantially of the form shown and in this instance is preferably formed of metal and is pivotally attached to the top or upper end of the post or standard B, which post or standard may be provided with the standard *a*, which recess is for the purpose of receiving the beam. The bottom or lower portion of the post or standard B is formed of such a shape that the mold-board and landside can be securely bolted or otherwise attached to said post or standard B. The bottom portion of the post or standard B is bent or curved forward, so as to provide a means for bolting or otherwise attaching the share C thereto.

The mold-board D is concavo-convex, and is so adjusted to the post or standard B that it will incline upward from its front or forward end to its rear end. To the lower edge of the mold-board D is attached the vertical plate E, which vertical plate is substantially of the form shown in Fig. 1. The top or upper edge of the vertical plate E is provided with a flange *b*, (best seen in Fig. 2,) which flange forms an attaching-surface for uniting

the vertical plate and the mold-board together by means of rivets or bolts.

The landside F is securely bolted or otherwise attached to the post or standard B and extends rearward, as illustrated in the drawings, and its rear end or portion securely stayed or braced by means of the cross-bar *c*.

To the rear end of the mold-board D is located the bar G, which bar is held a short distance away from the vertical bar and mold-board and is so located for the purpose hereinafter described.

To the inner side of the vertical plate E is pivotally attached the bar H, which bar extends rearward and is provided with the supplementary mold-board or scraper I, which mold-board or scraper may be formed integral with the bar H, or, if desired, said supplementary mold-board or scraper may be formed separate and attached in any convenient and well-known manner.

The object and purpose of the supplementary mold-board or scraper I is to provide a means for removing the dirt from the edge of the ditch after the same has been removed by means of the plow proper.

It will be understood that as the plow is moved along the ditch the supplementary mold-board or scraper will carry the loose dirt away from the edge of the ditch, and thereby prevent the same from falling into the ditch behind the plow. The bar G extends a short distance above the mold-board, and its top or upper end is provided with the notched segment J, which notched segment is for the purpose hereinafter described. To the segmental part of the bar G is pivotally attached the operating-lever K, which operating-lever extends rearward and is preferably located to one side of the handles; but, if desired, said lever may be so adjusted that it will come between the handles. To the segmental bar K is pivotally attached the spring-bar K', which spring-bar is provided with the detent K², which detent engages the teeth of the toothed segment. To the supplementary mold-board or scraper I is pivotally attached the connecting-link L, the top or upper end of said link being pivotally attached to the operating-lever K.

It will be understood that as the operating-lever K is moved up or down the supplementary mold-board or scraper I will follow the movements of the operating-lever K, thereby
 5 providing a means for adjusting the supplementary mold-board or scraper with reference to the depth of the ditch.

It will be understood that by providing the toothed segment J and the spring-bar K' and
 10 its detent the supplementary mold-board or scraper I can be securely held at any desired point of adjustment within the limits of its movements.

For the purpose of adjusting the front or
 15 forward end of the beam A up or down the bar M is securely bolted or otherwise attached to the landside and extends rearward and upward, as illustrated in Fig. 2, and its top or upper end provided with a series of apertures
 20 d, said apertures being for the purpose of receiving the clamping-bolt d', which clamping-bolt passes through an aperture formed in the rear end of the beam A. For the purpose of causing the aperture in the beam A and the
 25 apertures formed in the bar M to come in line the apertures located through the bar M should be arranged to correspond with the arc described by the rear end of the beam A as said beam is adjusted or turned upon its piv-
 30 otal point. For the purpose of providing a better means for cutting the sod the cutter A'

is provided, which cutter may be securely attached to the edge of the post or standard by bolting or otherwise.

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

1. In a ditching-plow, the combination of the beam A, the post or standard B, having attached thereto the mold-board, share, and
 40 landside, the vertical plate E, the supplemental mold-board I, pivotally connected to the vertical plate E by arm H, and a lever for adjusting said supplemental mold-board or scraper, substantially as and for the purpose
 45 specified.

2. The combination of the beam A, pivotally attached to the post or standard B, the mold-board D, having attached thereto the vertical plate E, the pivoted supplemental
 50 mold-board or scraper I, the operating-lever K, the spring-bar K', the post or bar G, provided with the toothed segment J, and the connecting-link L, 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.

BEECHER H. RINEHART.

Witnesses:

WM. J. BEARDSLY,
 MADISON TRUIL.