

(No Model.)

C. BEIDLER.
PLOW.

No. 261,986.

Patented Aug. 1, 1882.

FIG. 1.

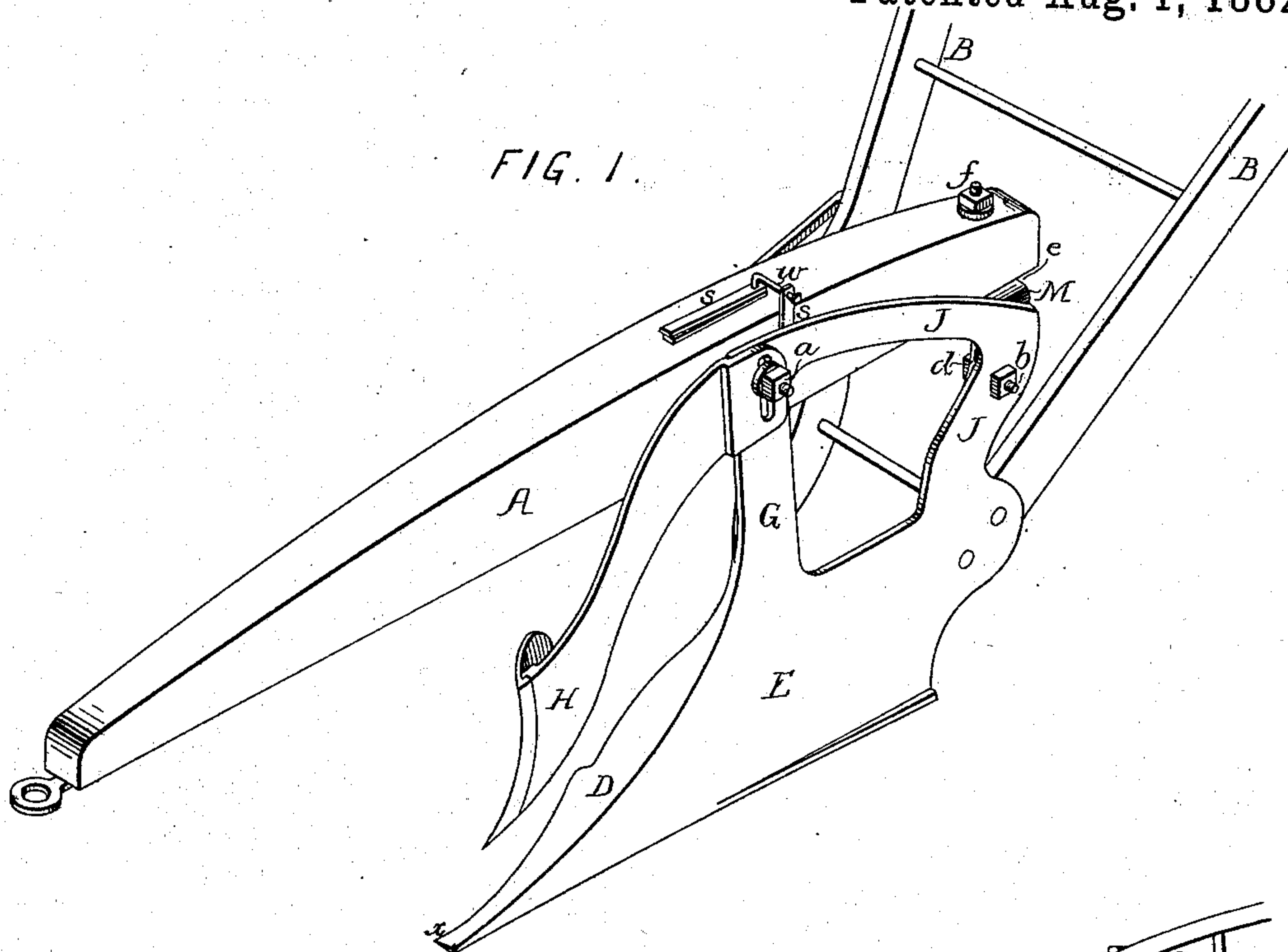


FIG. 2.

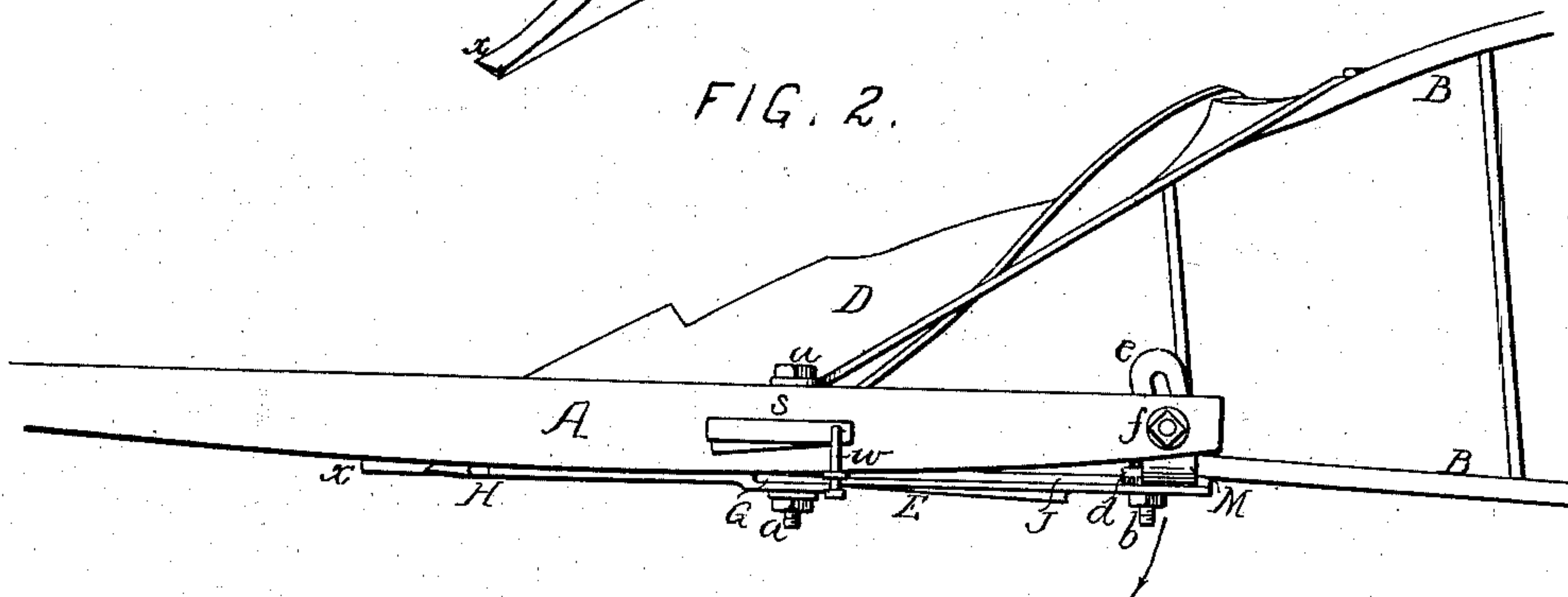


FIG. 3.

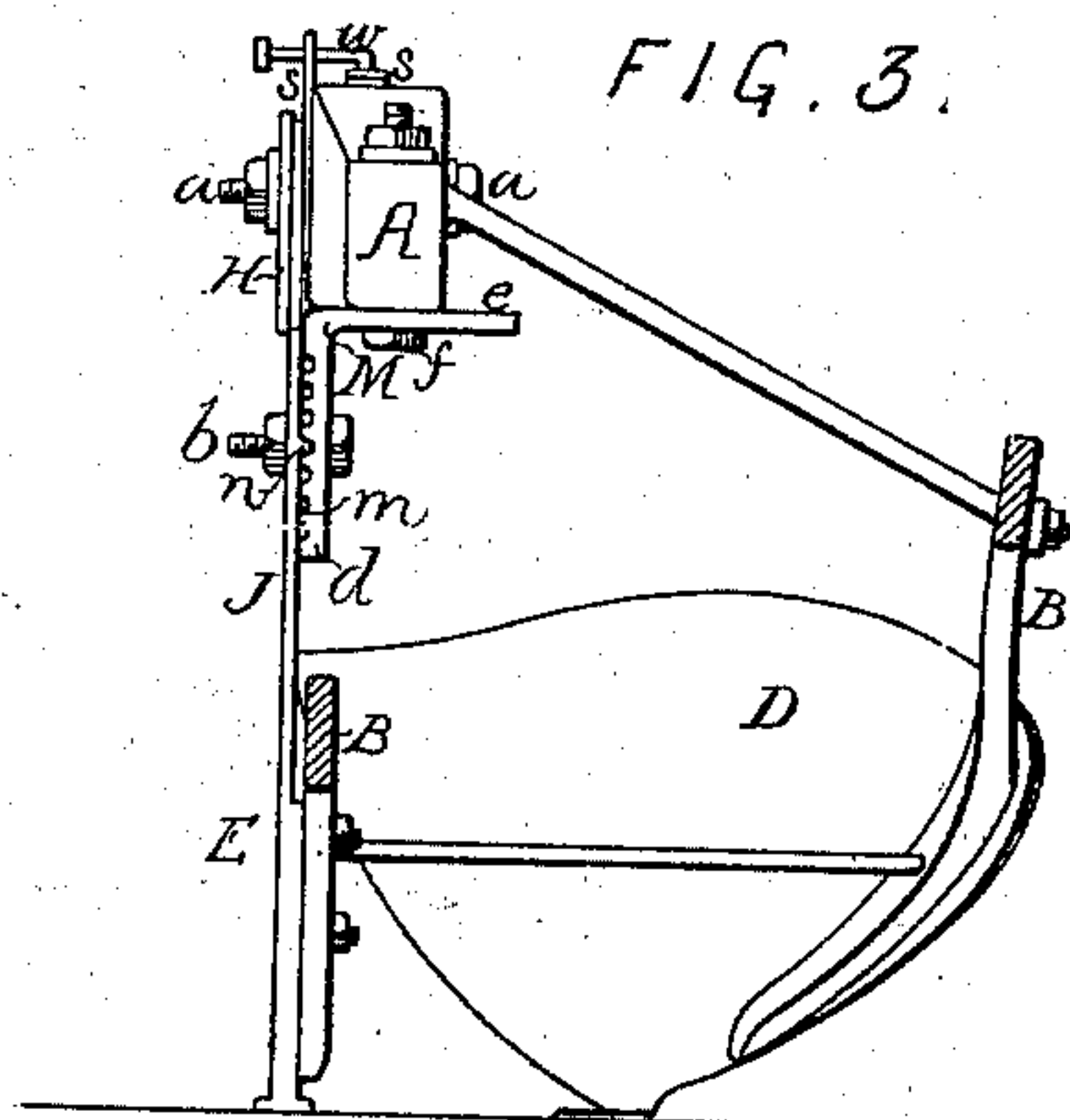
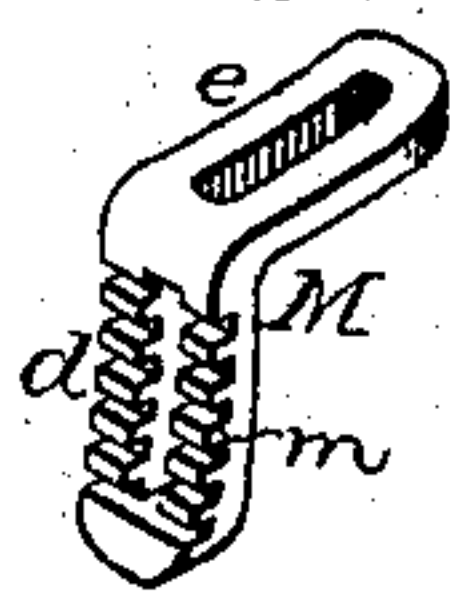


FIG. 4.



Witnesses
Wm. D. Dummer.
Harry Smith

Inventor
Charles Beidler
by his Attorneys
Hewson & Son

UNITED STATES PATENT OFFICE.

CHARLES BEIDLER, OF ALLENTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO EDWARD HARVEY, OF SAME PLACE.

PLOW.

SPECIFICATION forming part of Letters Patent No. 261,986, dated August 1, 1882.

Application filed June 14, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BEIDLER, a citizen of the United States, residing in Allentown, in the county of Lehigh and State of Pennsylvania, have invented an Improvement in Plows, of which the following is a specification.

The object of my invention is to effect the vertical and lateral adjustment of the point of a plow, and the securing of the same in position after adjustment more readily than usual and by means of devices of a simpler and more compact and convenient form than those usually employed for the purpose. This object I attain in a manner too fully set forth herein-after to need detailed preliminary explanation.

In the accompanying drawings, Figure 1 is a perspective view of a plow with my improvements; Fig. 2, a plan view of the same; Fig. 3, a rear view, partly in section; and Fig. 4, a perspective view of the adjusting device.

A represents the plow-beam; B B, the handles; D, the mold-board; E, the landside; G, the standard, and H the colter or skim-plow. The upper end of the standard G is hung to the beam by means of a transverse bolt, *a*, which also serves to secure the colter H in position, the shank of the said colter overlapping the standard of the plow, and having a vertical slot for the reception of the bolt *a*, so as to permit vertical adjustment. The bending of the colter-shank to permit the same to overlap the standard forms a shoulder which bears against the front edge of the standard, the latter thus resisting the rearward thrust of the colter-shank.

The upper end of the standard G and the rear end of the landside E are connected by a frame, J, which is secured by means of a bolt, *b*, to the vertical arm *d* of a bent plate, M, the horizontal arm *e* of which is secured by means of a bolt, *f*, to the under side of the beam A.

The arm *d* of the plate M has a vertical slot for the reception of the bolt *b*, and in the face of said arm are formed a number of recesses, *m*, to either of which may be adapted a lug, *n*, on the frame J, so that the elevation or depression of said frame J, and a consequent depression

or elevation of the point *x* of the plow, can be readily effected, the bolt *a* serving as a pivot on which the plow turns in effecting this adjustment.

The lateral shifting of the point *x* of the plow is effected by a lateral adjustment of the plate M on the beam A, the arm *e* of said plate having a slot, as shown in Fig. 4, to permit such adjustment. In this case, however, it is necessary to insert between the frame J and the beams A filling-pieces *s*, so as to set the standard G away from the beam to a greater or less extent. Otherwise the lateral movement of the frame J and the rear end of the landside in the direction of the arrow, Fig. 2, would cause the standard to bind against the beam and prevent the proper adjustment of the point of the plow. The number of filling-pieces inserted will depend upon the extent of the adjustment required. The greater the adjustment the greater the number of filling-pieces employed, and vice versa.

In order that the filling-pieces may always be retained in proper position for insertion between the beam A and frame J, I hang said filling-pieces to a bent rod, *w*, on the beam A, the rod having a suitably-enlarged end, so that the filling-pieces cannot be detached therefrom and lost. When not in use the filling-pieces rest on the top of the beam A and are out of the way; but they can be readily moved along the rod and turned into position when desired.

It should be understood that the nut on the bolt *a* is slackened before making either a vertical or lateral adjustment, and tightened after such adjustment has been made. The vertical or lateral adjustment of the plow-point can be effected in a very short time, and when adjusted the plow is rigidly held in position. The adjusting devices, moreover, are reduced to the simplest form, my objects having been to prevent that accumulation of bolts, nuts, and plates common to ordinary adjustable plows, and to arrange the adjusting devices at a point where they would not be likely to interfere with the proper operation of the plow, and yet would be readily accessible.

In carrying out my invention slots may be

made in the beam A and frame J instead of in the plate M, if desired, although the formation of the slots in said plate is preferred.

I claim as my invention—

5 1. The combination of the beam A, the plow having a standard, G, with rearwardly-projecting frame J, adjacent to the beam, the transverse bolt *a*, whereby the plow is pivoted to the beam, devices whereby the rear end of
10 the plow may be adjusted both vertically and laterally, and filling-pieces *s*, introduced between the beam A and frame J in the rear of the bolt *a*, as specified.

15 2. The combination of the beam A, the plow having a standard, G, adjustable in respect to the beam, the slotted colter H, and the bolt *a*, passing transversely through the beam, standard, and slotted colter, and serving to secure said standard and colter to the beam, as set
20 forth.

3. The combination of the beam A, the plow having standard G and frame J, the rod *w*, having a vertical portion adapted to the beam, and a horizontal portion projecting laterally beyond the same, and filling-pieces *s*, hung to said rod 25 and capable of sliding thereon, as set forth.

4. The combination of the beam A, the plow having a standard, G, adjustable in respect to the beam, the slotted colter H, the shank of which has a shoulder bearing on the stand- 30 ard, and the bolt *a*, passing through the beam, standard, and slotted colter, and serving to secure said parts together, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two sub- 35 scribing witnesses.

CHARLES BEIDLER.

Witnesses:

A. K. WITTMAN,
GEO. W. FRESING.