

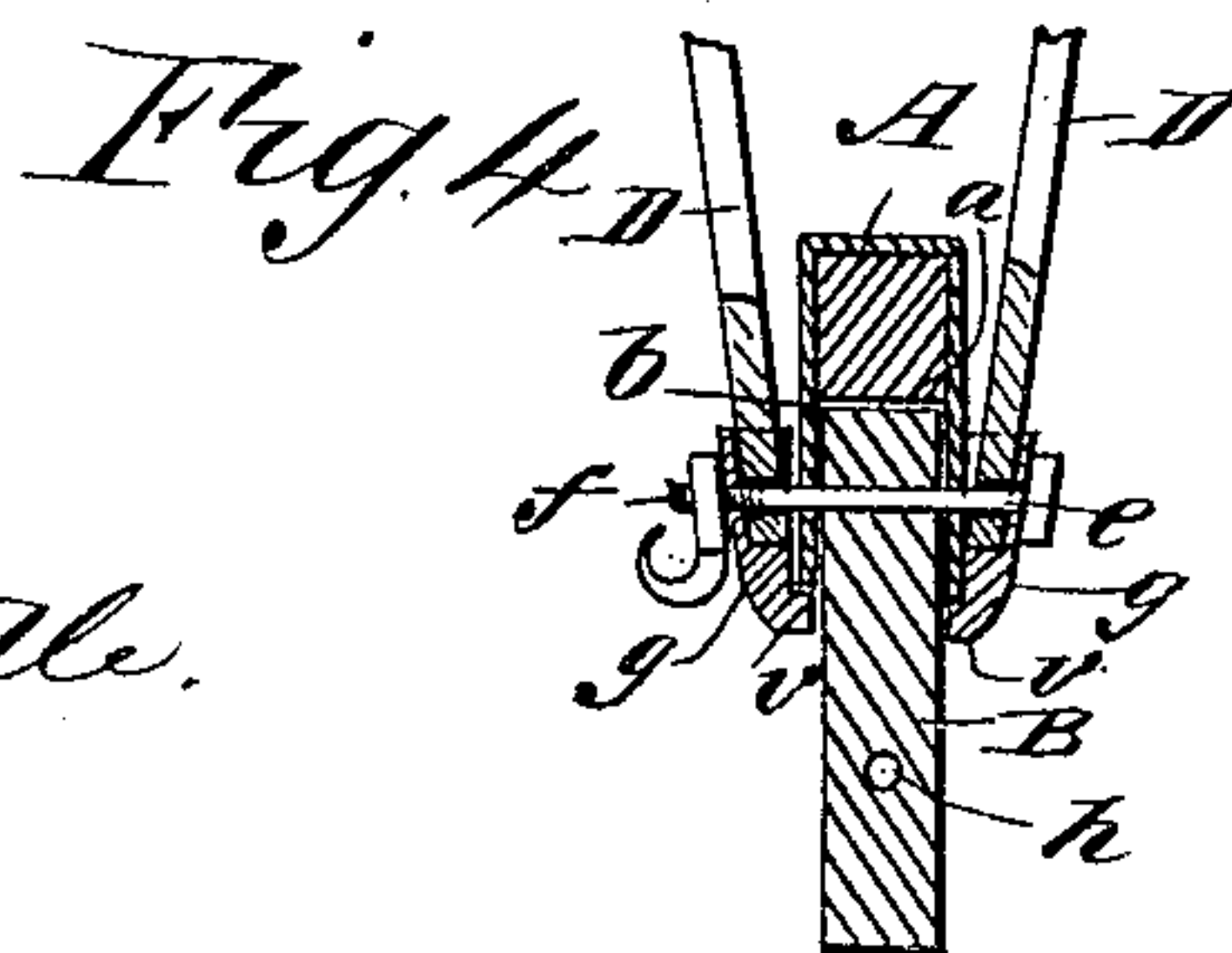
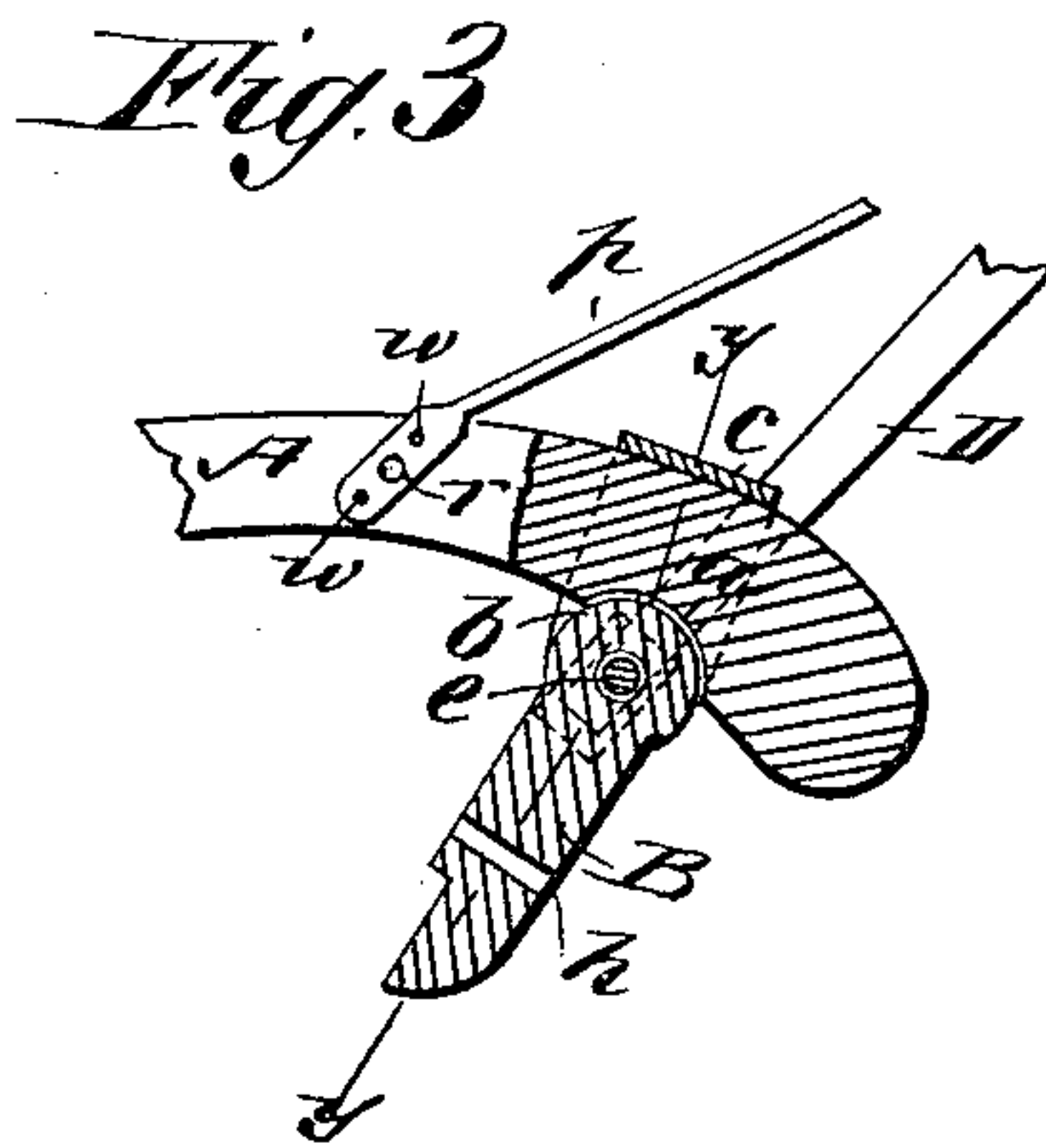
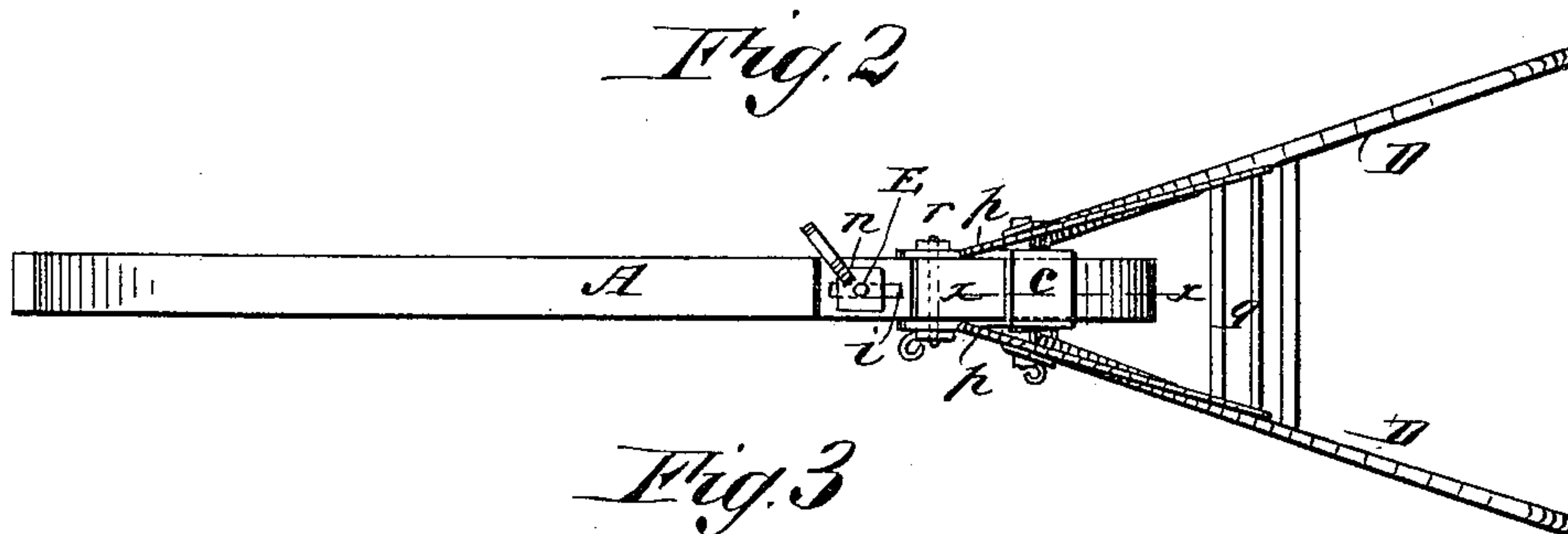
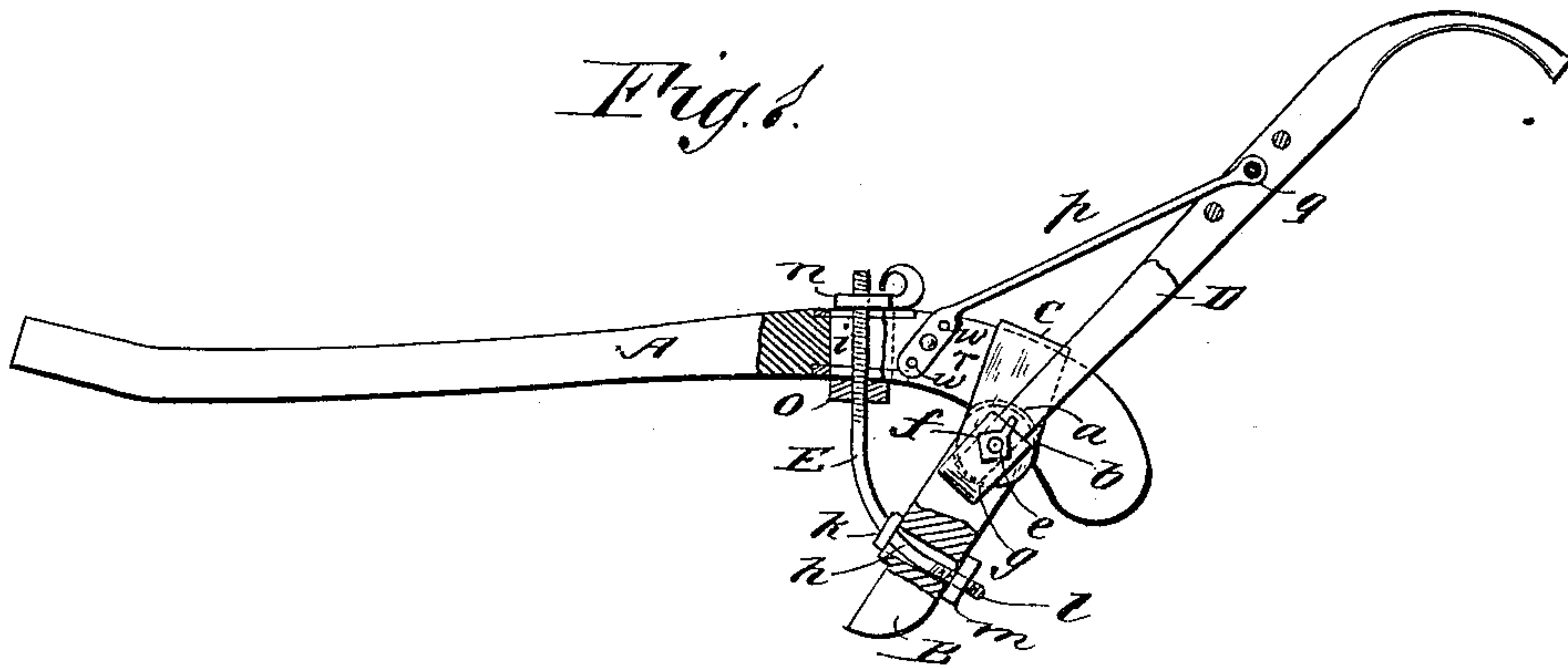
(No Model.)

G. W. D. & L. L. PORTER.

PLOW.

No. 328,429.

Patented Oct. 13, 1885.



WITNESSES :

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GEORGE W. D. PORTER AND LAWRENCE L. PORTER, OF FAYETTEVILLE,
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PLOW.

SPECIFICATION forming part of Letters Patent No. 328,429, dated October 13, 1885.

Application filed July 11, 1885. Serial No. 171,397. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. D. PORTER and LAWRENCE L. PORTER, both of Fayetteville, in the county of Lincoln and State of Tennessee, have invented a new and useful Improvement in Plows, of which the following is a full, clear, and exact description.

Our invention relates to the construction of plows; and the object is, first, to so connect the standard and beam that the angle of the standard may be changed so as to adjust it to the proper inclination for the particular work in hand; and, second, to so construct and connect the parts that the handles may also be adjusted to suit the convenience of the plowman.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of our improved form of beam and standard, certain portions being shown in section to disclose the construction of the parts. Fig. 2 is a plan view of the same. Fig. 3 is a sectional view on line *x x*, Fig. 2, and Fig. 4 is a sectional view on line *y y*, Fig. 3.

A is the plow-beam, formed with a concave recess, *a*, near its rear end. The convex head *b* of the standard B is held within the recess *a* by means of a stirrup, *c*, and bolt *e*, said stirrup passing over the top of the beam, as is clearly shown in the drawings. The head of the bolt *e* and the nut *f*, by which the bolt is held in place, do not bear directly upon the side plates of the stirrup *c*, but bear against the outer sides of two cup-like sockets, *g g*, in which the handles D D are stepped, the bolt *e* passing through holes formed in the lower ends of the handles, as best seen in Fig. 4.

The standard B is provided with a hole, *h*, through which there is passed the adjusting brace-rod E, which is formed with a shoulder, *k*, that abuts against the upper side of the standard, and with a threaded end, *l*, that engages with a nut, *m*, by which the rod is locked to the standard.

Projecting upward from the standard in a curve that is concentric to the pivotal point

e of the standard B, the rod E passes through a longitudinal slot, *i*, formed in the beam A. The end of the rod E that passes through the beam A is threaded, and carries two nuts, *n* and *o*, one on either side of the beam, by which nuts the rod is securely locked to the beam in any desired position.

The handles D D are braced by rods *p p*, the upper ends of which are formed with eyes that engage with the rod *q*, which passes through the handles and prevents them from spreading.

The lower ends of the brace-rods *p p* are flattened out, as shown best in Fig. 1, and in this flattened portion we drill several holes, *w w*, through which the bolt *r* may be passed. By so arranging the brace-rods the handles may be, within a certain range, elevated or depressed to meet the requirements of the plowman.

In order to relieve the bolt *e* from any undue strain, we form the sockets *g* with inwardly-projecting lugs *v v*, that ride beneath the lower ends of the side pieces of the stirrup *c*, said lower ends being rounded in a curve that is concentric to the pivotal point of the sockets, and the abutting faces of the lugs correspondingly formed.

By using such connections as we have described the standard and handles can be quickly adjusted to the desired positions, and the connections are so arranged that the head of the standard is protected from the weather.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with the beam A, provided with the concave recess *a*, of the standard B, formed with the convex head *b*, the stirrup *c*, and bolt *e*, substantially as described.

2. The combination, with the beam A, provided with the concave recess *a*, of the standard B, formed with the convex head *b*, the stirrup *c*, bolt *e*, and the brace-rod E, secured to the standard, and adjustably connected to the beam by means of nuts, as *n* and *o*, substantially as described.

3. The combination, with the beam A, of the sockets *g g*, pivotally connected thereto by

means of the stirrup *c* and bolt *e*, said stirrup and bolt, and the handles *D D*, substantially as described.

4. The combination, with the beam *A*, stirrup *c*, and bolt *e*, of the sockets *g g*, formed with the lugs *v v*, and the handles *D D*, substantially as described.

5. The combination, with the beam *A*, stirrup *c*, and bolt *e*, of the sockets *g g*, formed

with the lugs *v v*, the handles *D D*, and the brace-rods *p p*, formed with the holes *ww*, and connected to the beam by a bolt, as *r*, substantially as described.

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Witnesses:

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