

D. J. WELCH.
 DISK FENDER FOR PLOWS.
 APPLICATION FILED AUG. 22, 1908.

925,541.

Patented June 22, 1909.

Fig. 1.

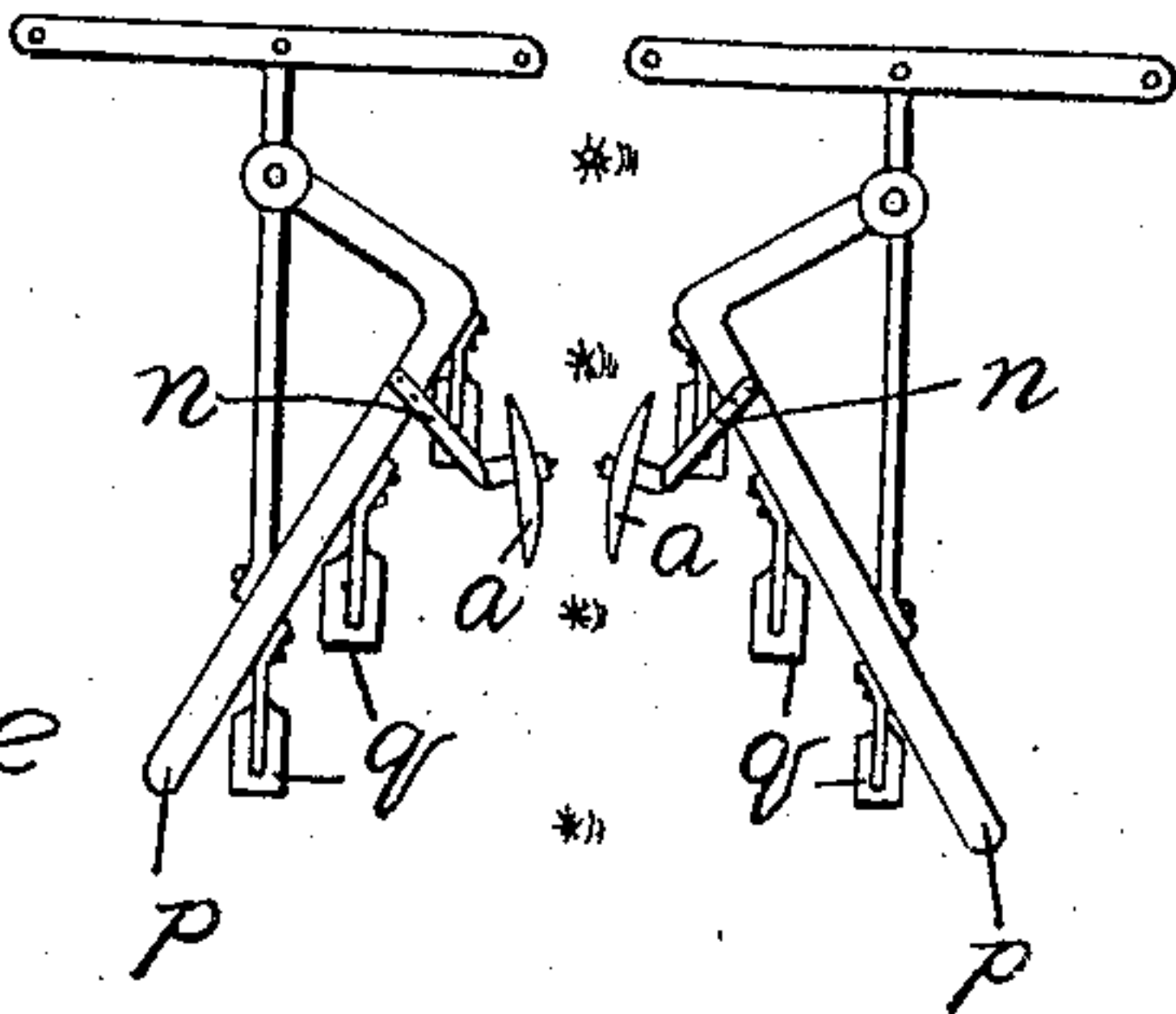


Fig. 4.

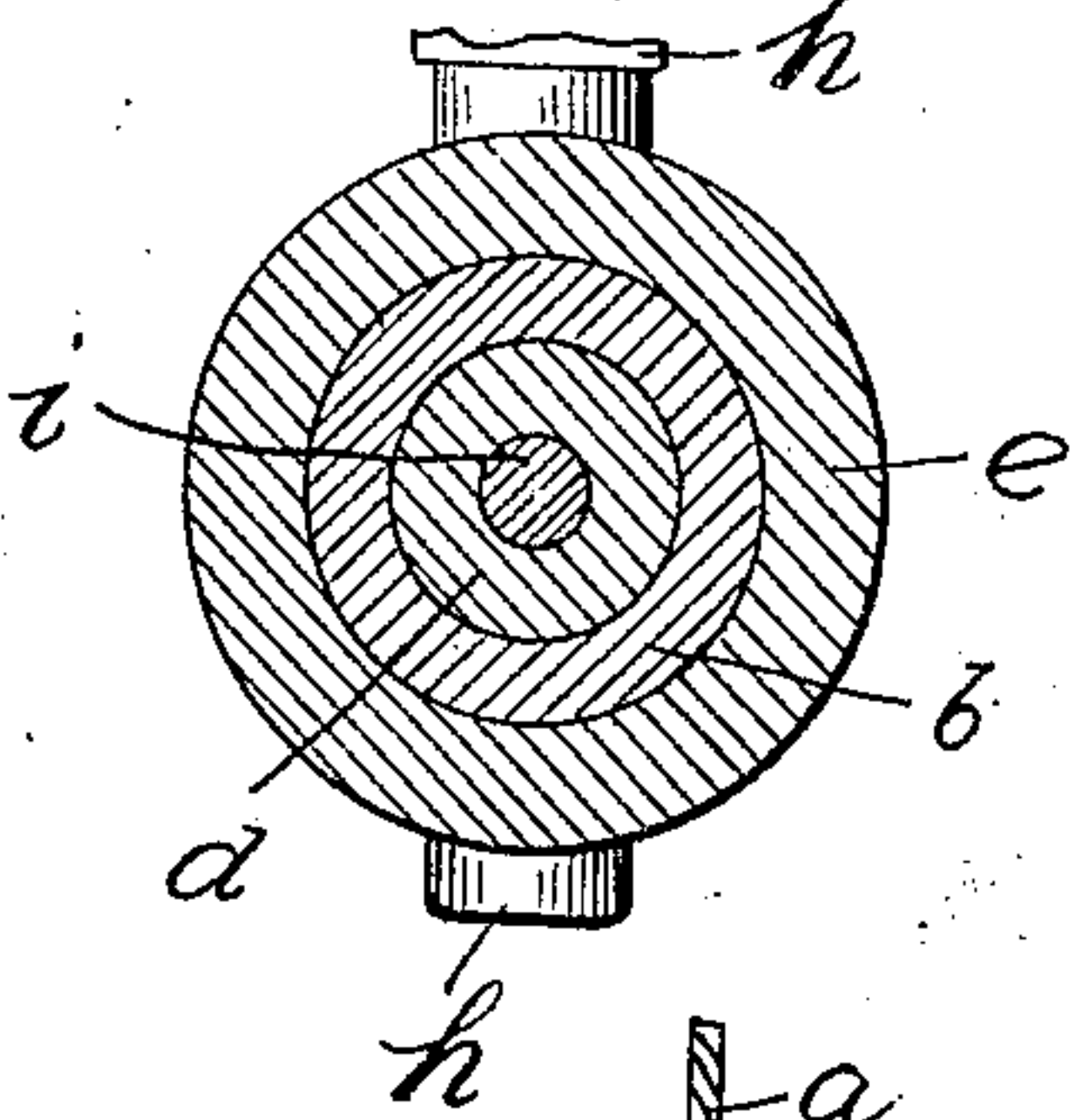


Fig. 3.

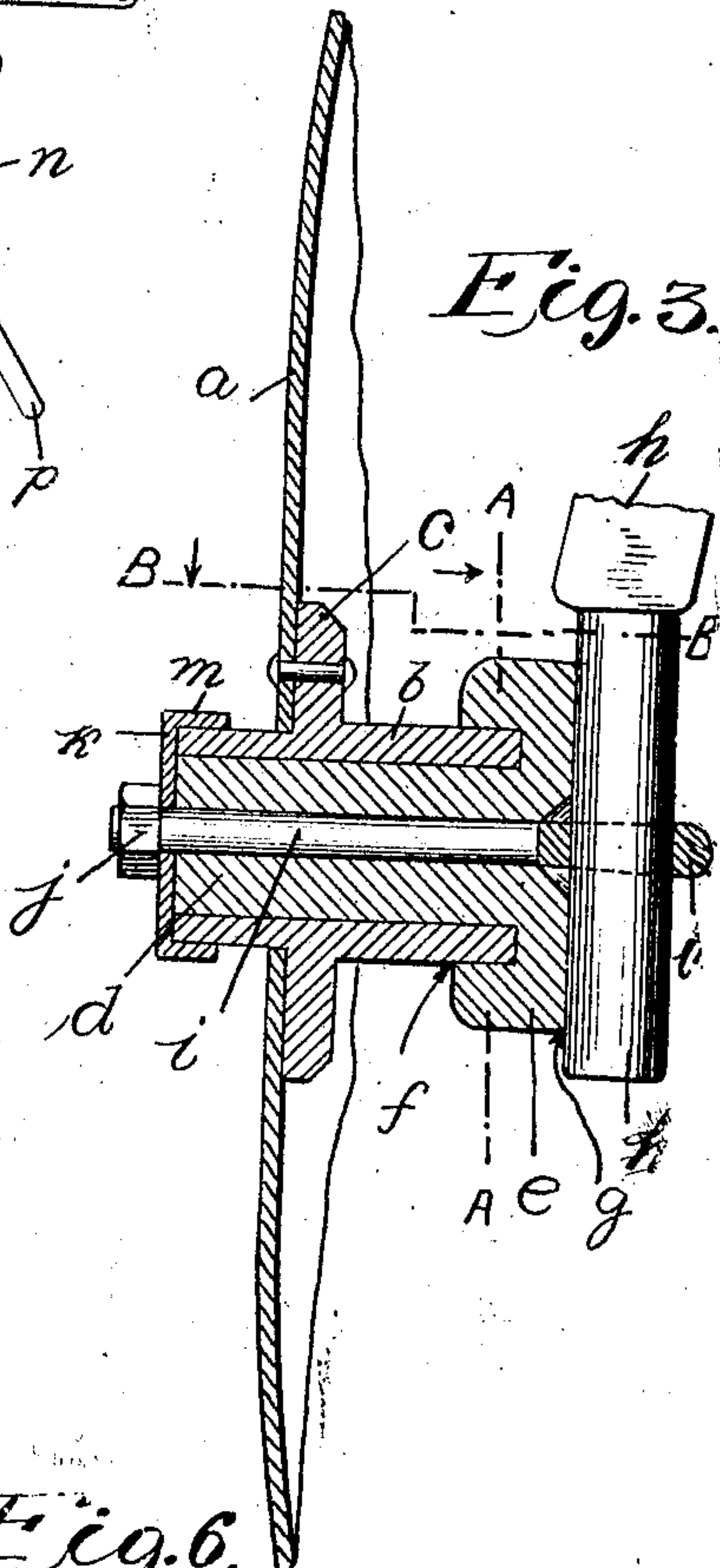


Fig. 5.

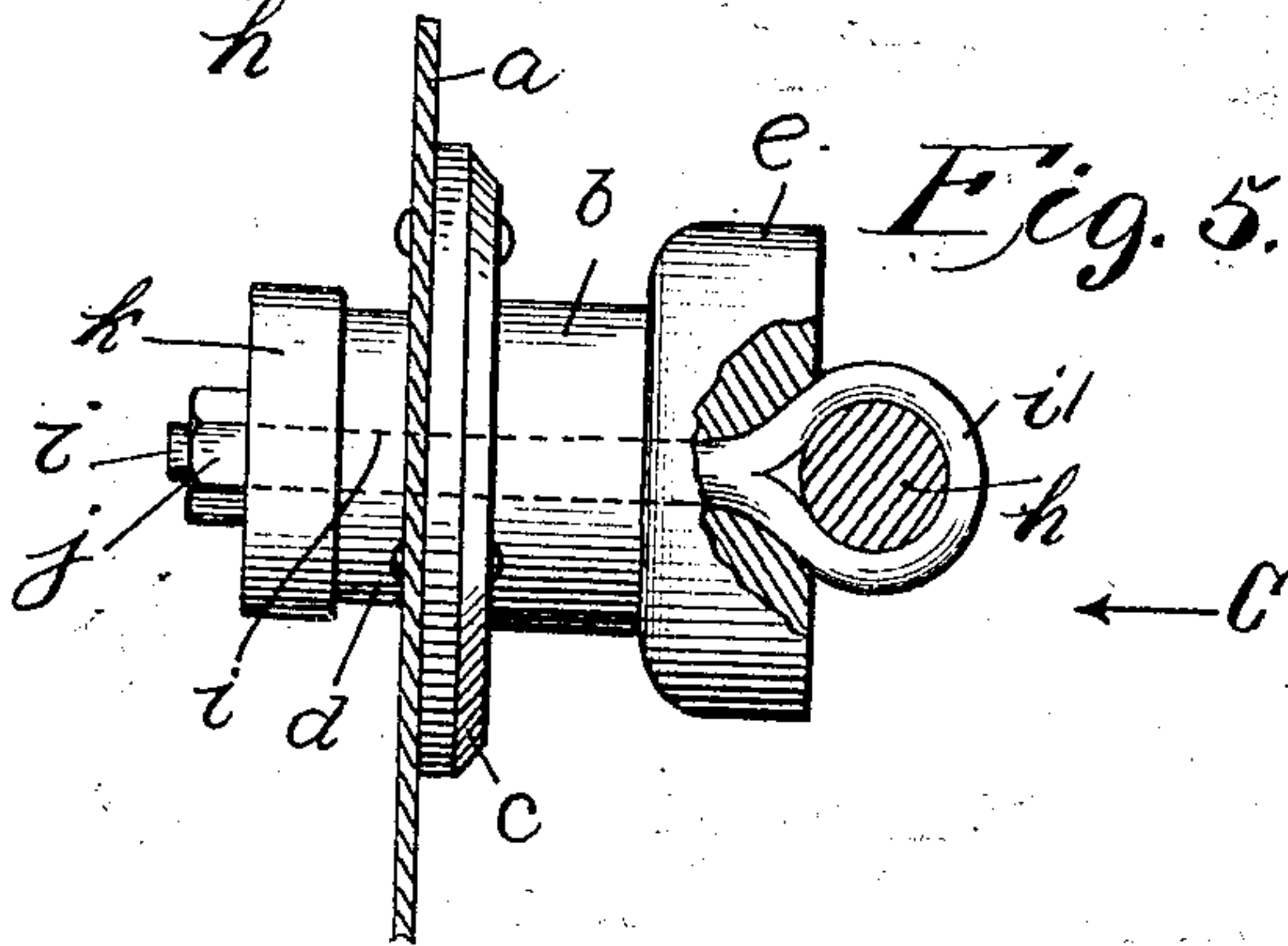


Fig. 2.

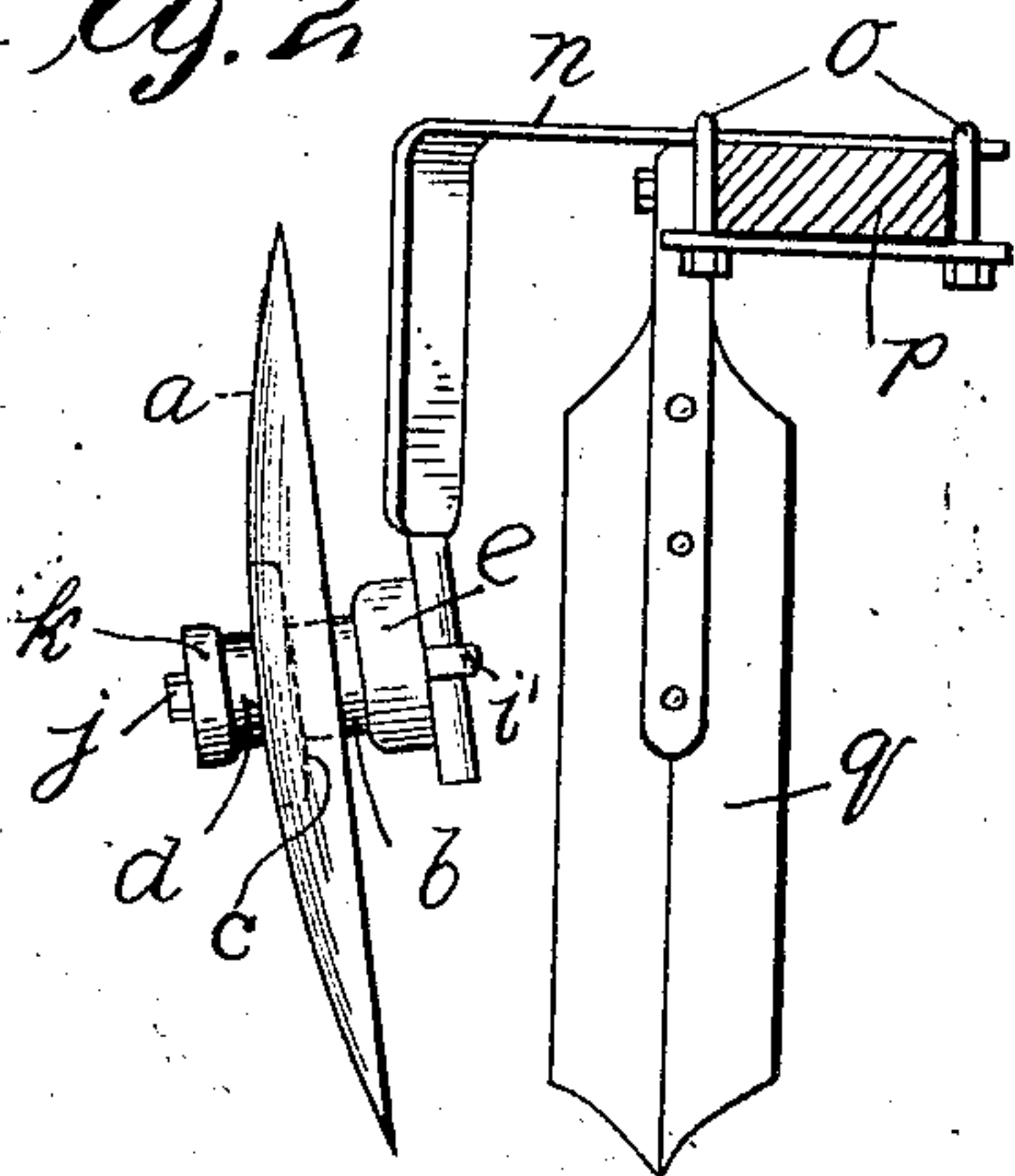
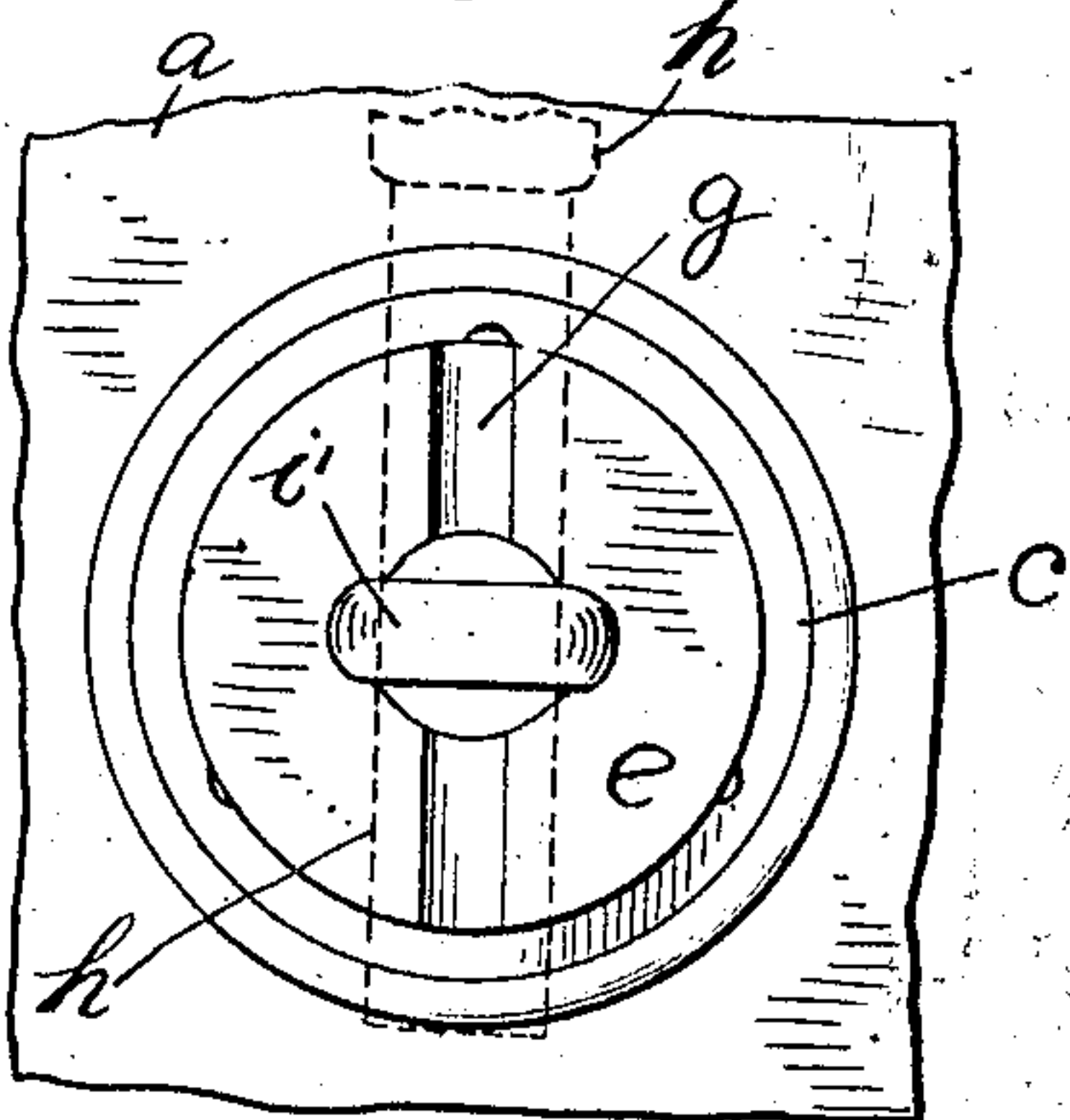


Fig. 6.



Witnesses:

M. Hamilton
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David J. Welch Inventor

By his Attorney

J. M. Hamilton

UNITED STATES PATENT OFFICE.

DAVID J. WELCH, OF MABEL, MINNESOTA.

DISK FENDER FOR PLOWS.

No. 925,541.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed August 22, 1908. Serial No. 449,844.

To all whom it may concern:

Be it known that I, DAVID J. WELCH, a citizen of the United States, residing at Mabel, in the county of Fillmore and State of Minnesota, have invented certain new and useful Improvements in Disk Fenders for Plows, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in attachments for plows and particularly to improvements in disk-fenders for corn plows; and an object of my invention is to provide a disk-fender which will be simple in construction, comparatively cheap in manufacture and efficient in use.

In the drawings illustrating the principle of my invention and the best mode now known to me of applying that principle, Figure 1 is a diagrammatic view in plan showing my new disk-fender attached to a corn plow; Fig. 2 is an elevation on an enlarged scale showing my new disk-fender attached to the hanger-rod; Fig. 3 is a vertical section showing the mounting of my new disk-fender and the mode of its attachment to the end of the hanger-rod; Fig. 4 is a section on line A—A of Fig. 3; Fig. 5 is a section on the line B—B of Fig. 3; and Fig. 6 is an end view looking in the direction of the arrow C in Fig. 5, the hanger-rod being shown in dotted lines.

The disk *a* is formed with a central hole through which extends one end of the sleeve *b* formed with a flange *c*. The latter is riveted or otherwise suitably secured to the disk *a*. Through the sleeve *b* extends the hollow shaft *d* the inner end of which is formed with a head *e*. The latter is formed with an annular recess *f* in which fits the inner end of the sleeve *b*. The outer face of the head *e* is formed with a diametral channel or groove *g* in which lies the lower end of the hanger-rod *h*. The walls of the channel or groove *g* serve to guide the head *e* in its adjustment along the hanger-rod *h* and to prevent the rotation therearound of the head *e*. Through the central opening in the shaft *d* extends the shank of an eye-bolt *i*, through the eye *i'* of which passes the lower end of the hanger-rod *h*. The latter is held in place in the

groove *g* by means of a nut *j* secured on the other end of the eye-bolt *i*. Between the nut *j* and the opposed end of the shaft *d* is interposed the cap *k* the annular flange *m* of which extends over the outside of one end of the sleeve *b*. The hanger-rod is bent horizontally at its upper end to form an arm *n* which is held by means of the clips *o* to the plow-beam *p*. The latter is provided with the usual shovels *q*.

The plow, which is a corn plow having a beam on each side of the corn-row, is shown conventionally in plan in Fig. 1 which clearly shows that there are two disk-fenders for each plow, one being attached to each of the plow-beams. The convex sides of the disks *a* are opposed to each other and the concave side of each is opposed to the front shovel of the plow-beam to which the disk-fender is attached. The disk shield or fender *a* is dished and serves to protect the corn from the soil thrown up by the shovel of the plow. The disk shields *a* may be set at any angle and to any depth and they permit the corn to be more closely approached by the shovels in its cultivation than would otherwise be possible.

I claim—

In a plow, the combination with a plow-beam, of a hanger-rod one end of which is fastened to said plow-beam; a hollow shaft having a head having a recess and formed with a groove in which lies the other end of said hanger-rod; a sleeve extending into the recess and formed with a flange; a disk shield or fender fastened to said flange; and means extending through said hollow shaft for holding said hanger-rod, shaft and sleeve in assembled relation; said head being adjustable along said hanger-rod and being guided in said adjustment and held against rotation around said hanger-rod by the walls of said groove.

In testimony whereof I have hereunto set my hand at said Mabel this 15th day of August, A. D., 1908, in the presence of the two undersigned witnesses.

DAVID J. WELCH.

Witnesses:

A. L. TOLLEFSON,
H. H. HAMMER.