

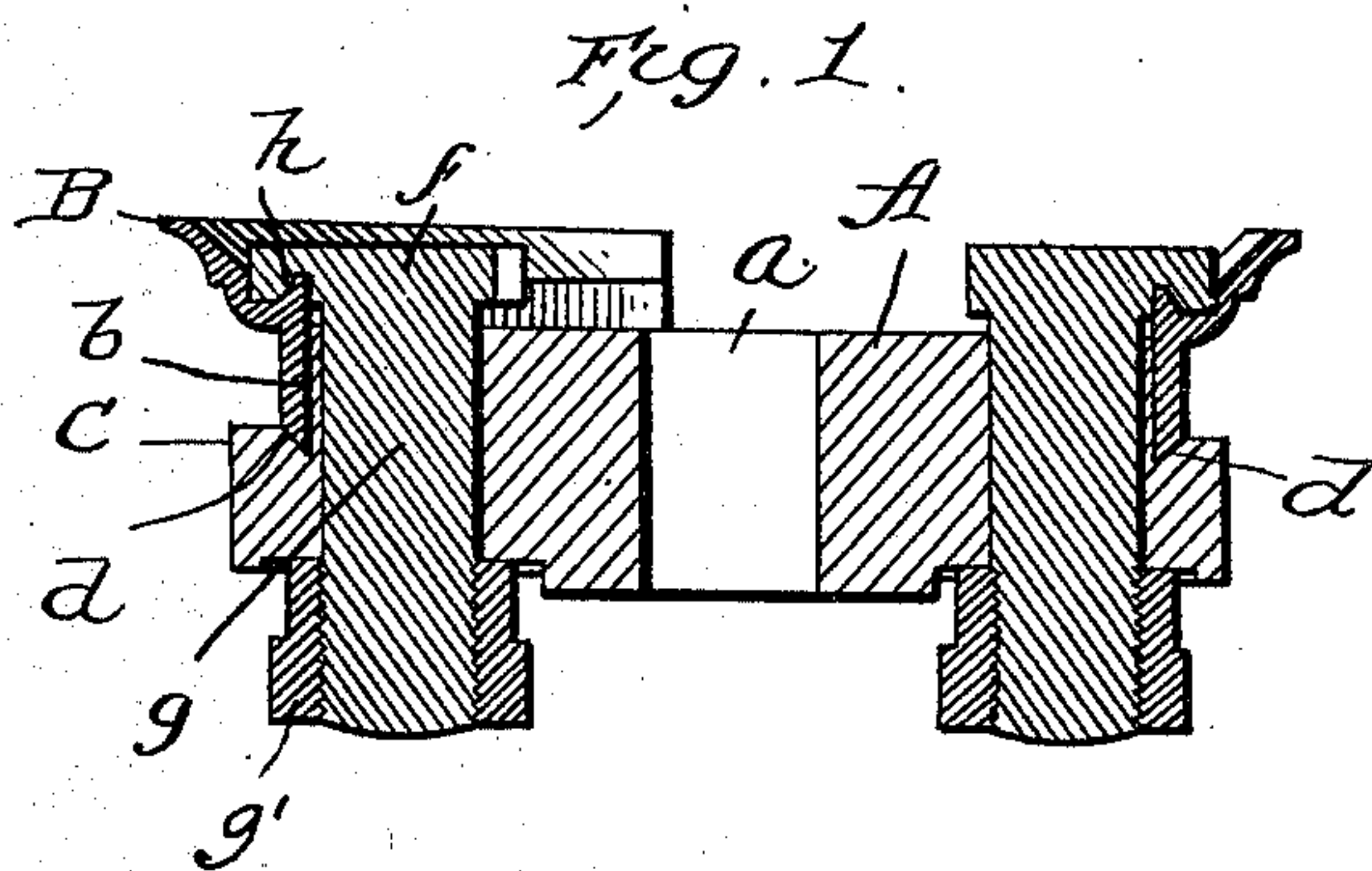
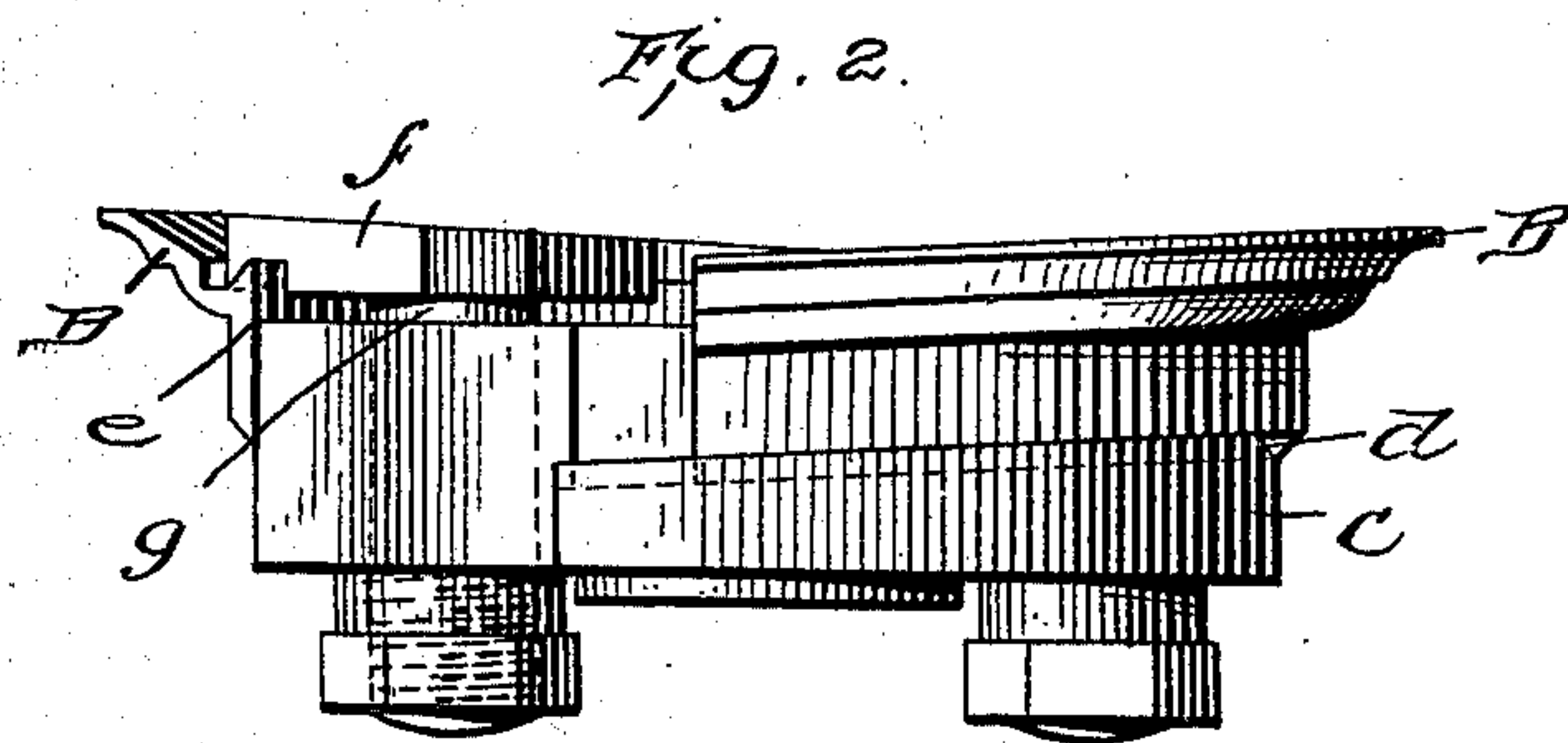
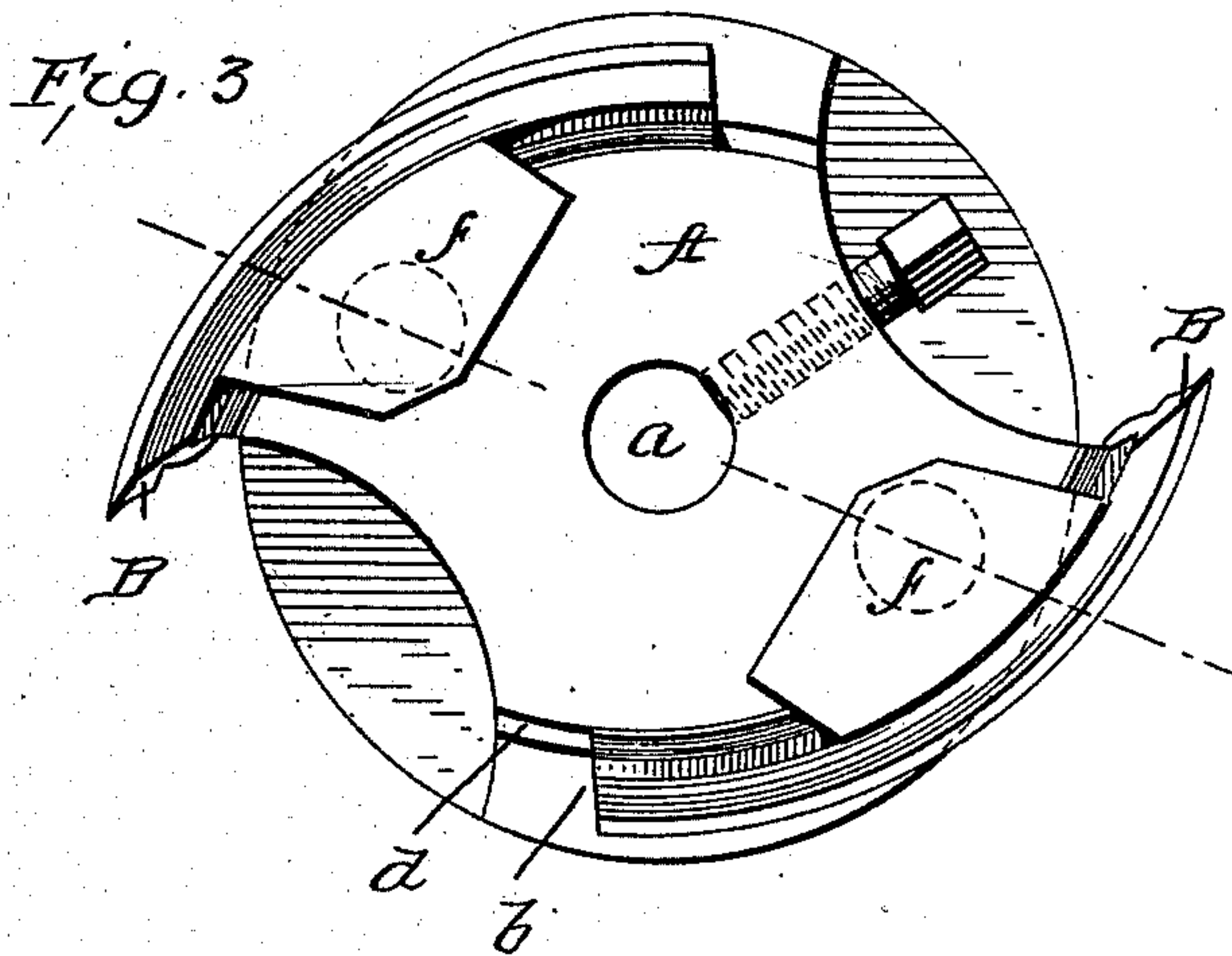
No. 723,066.

PATENTED MAR. 17, 1903.

F. STUTZMAN.
CUTTER HEAD.

APPLICATION FILED JULY 23, 1902.

NO MODEL.



Attest:
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Att'y.

UNITED STATES PATENT OFFICE.

FRANK STUTZMAN, OF WILLIAMSPORT, PENNSYLVANIA, ASSIGNOR TO
CHRISTIAN SEEWALD, JACOB SEEWALD, AND ALLEN P. PERLEY, OF
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CUTTER-HEAD.

SPECIFICATION forming part of Letters Patent No. 723,066, dated March 17, 1903.

Application filed July 23, 1902. Serial No. 116,725. (No model.)

To all whom it may concern:

Be it known that I, FRANK STUTZMAN, a citizen of the United States, residing at Williamsport, Lycoming county, Pennsylvania, have invented certain new and useful Improvements in Cutter-Heads, of which the following is a specification.

My invention relates to cutter-heads, and is designed to provide a stable construction adapted to sustain the wear and strain to which such heads are subjected, to furnish a secure grip for the cutter and one holding it forcibly against its seat, and, further, to provide securing means flush with the edge of the cutter or within the lines thereof, so as to allow the cutter-head to be used in situations requiring a flush surface with the face of the cutter.

In the drawings, Figure 1 is a sectional view, taken centrally, of a form of head provided with my improvement. Fig. 2 is an elevation of the head. Fig. 3 is a plan view.

The body of the head is shown at A, of ordinary or improved construction, having the usual central opening *a*. The cutter-blades are shown at B. The head has a seat *b*, located above a flange *c*, and to this seat the cutter-blades are held by a clamping head and bolt. At the junction of the seat *b* and flange *c* a groove *d* is made, having a straight wall, forming a continuation of the seat *b*, while the opposite wall of the groove formed in the flange is inclined. The cutter-blade has a rear face *e*, conforming to and fitting the seat *b*, and is also provided with tapering upper and lower edges, the lower edge fitting the groove *d* and corresponding thereto. The upper edge is beveled and projects beyond the body A. This edge fits a groove *h*, similar to the groove *d*, but formed in the headed end *f* of a bolt *g*. The bolt *g* passes through the body A and terminates in the head *f*, which is flat and elongated, to engage the cutter sufficiently to hold it securely. The bolt is held in place by a nut *g'*, fitting against the opposite face of the body from that upon which the head *f* is located. The groove *h* has also one straight wall and one inclined

wall and is adapted to fit the corresponding edge of the cutter. The bolt *g* has a screw cap or nut on its opposite end, and pressure applied thereto draws the cutter closely to its seat by reason of its inclined edges fitting the like grooves. It will also be seen that the cutters project beyond the headed ends *f*, so that a flush surface is provided, and the headed ends are thus in the same plane or within the lines of the cutters, and the head is thus adapted for situations where otherwise it could not be used.

What I claim is—

1. A cutter-head comprising a body A, having a flange *c* projecting from its periphery and a seat *b* on its periphery adjacent said flange and having also a groove *d* at the junction of the said seat *b* and the side face of said flange, which groove has one wall forming a continuation of the seat *b* and the other wall inclined, a cutter having a portion resting on the seat *b* and extending beyond the said seat with a beveled edge on the projecting portion and having also a beveled lower edge resting in the groove, and a bolt having a head formed with a groove to receive the projecting beveled edge of the cutter, said bolt extending through the body and having a nut on the opposite side of the body from the head, substantially as described.

2. In combination, a head having a flange *c* with a groove at the junction of said flange and the peripheral face of the head, said groove having a beveled outer wall, a cutter having a portion seated against the peripheral face of the head with a beveled edge in said groove and a beveled edge projecting beyond the head and means engaging said projecting beveled edge to draw the cutter firmly against its seat, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK STUTZMAN.

Witnesses:

CLEMENT T. PAINE,
W. S. HILL.