

No. 704,148.

Patented July 8, 1902.

W. TUCKER.

BED RAIL.

(Application filed Dec. 23, 1901.)

(No Model.)

Fig. 1.

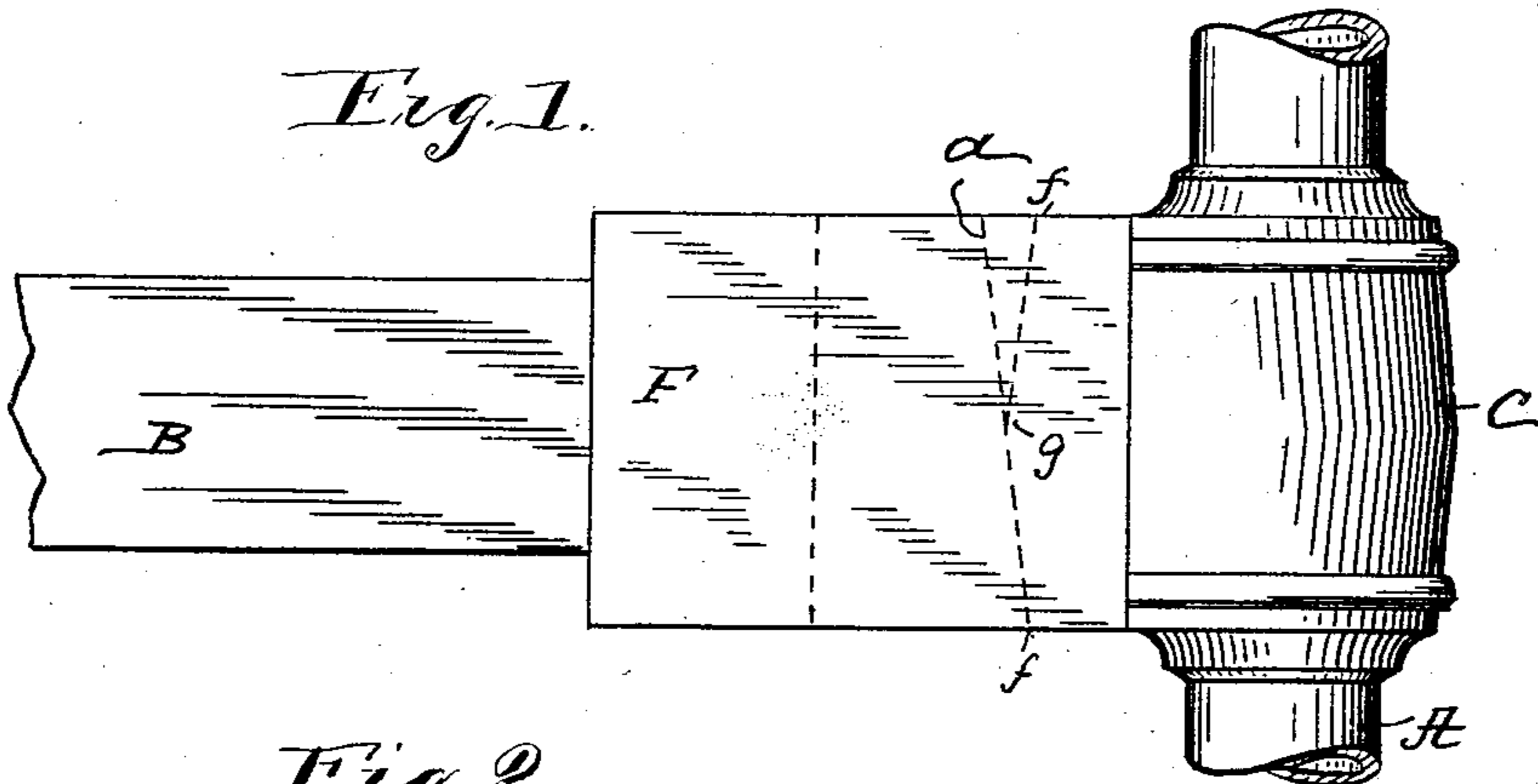


Fig. 2.

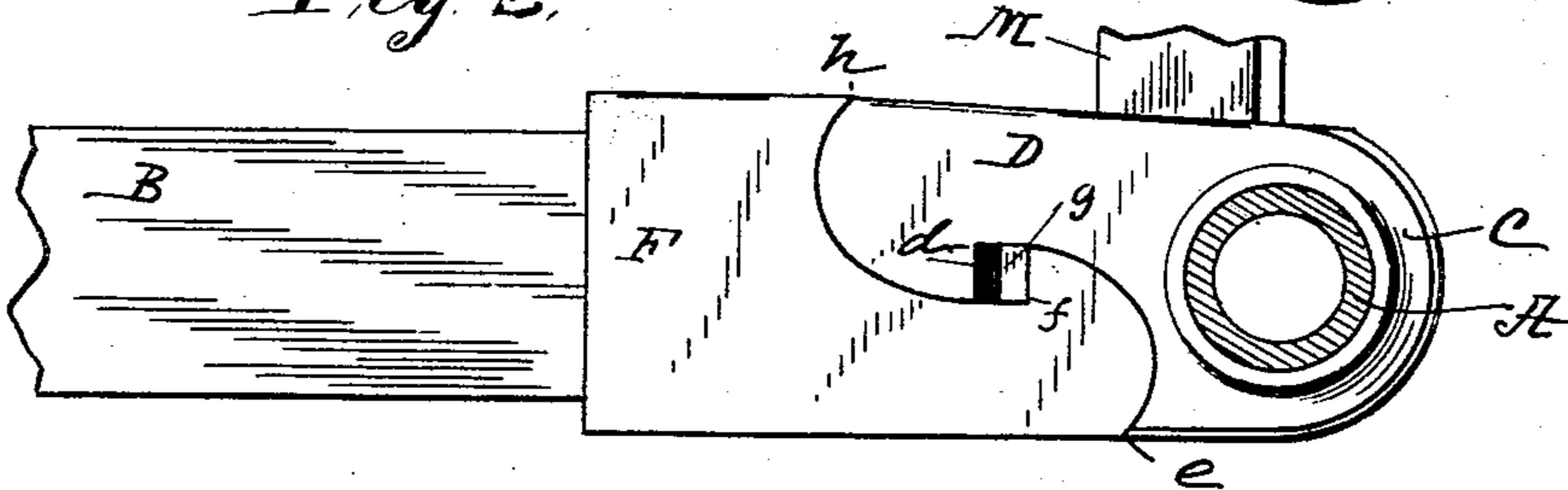


Fig. 3.

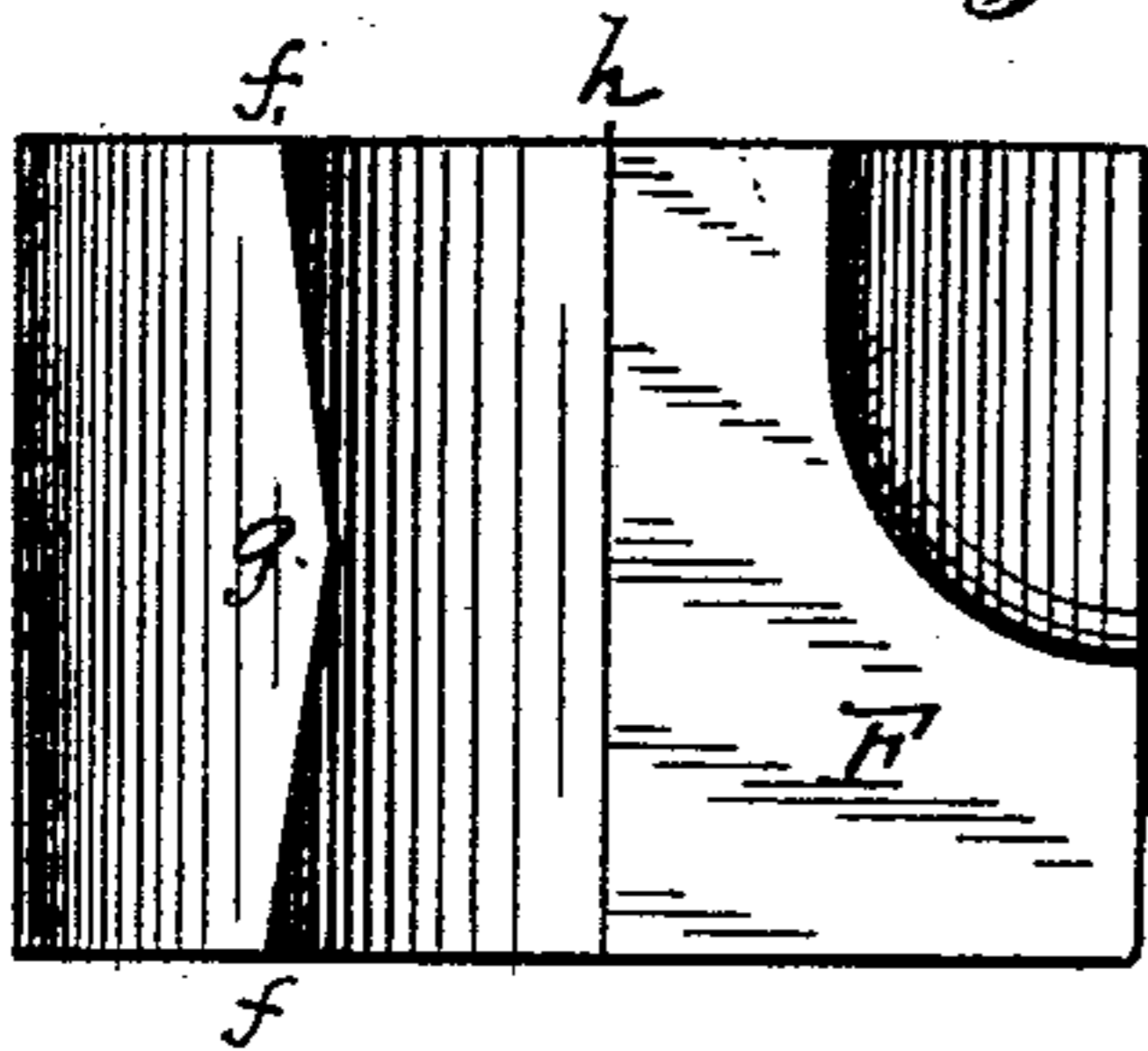
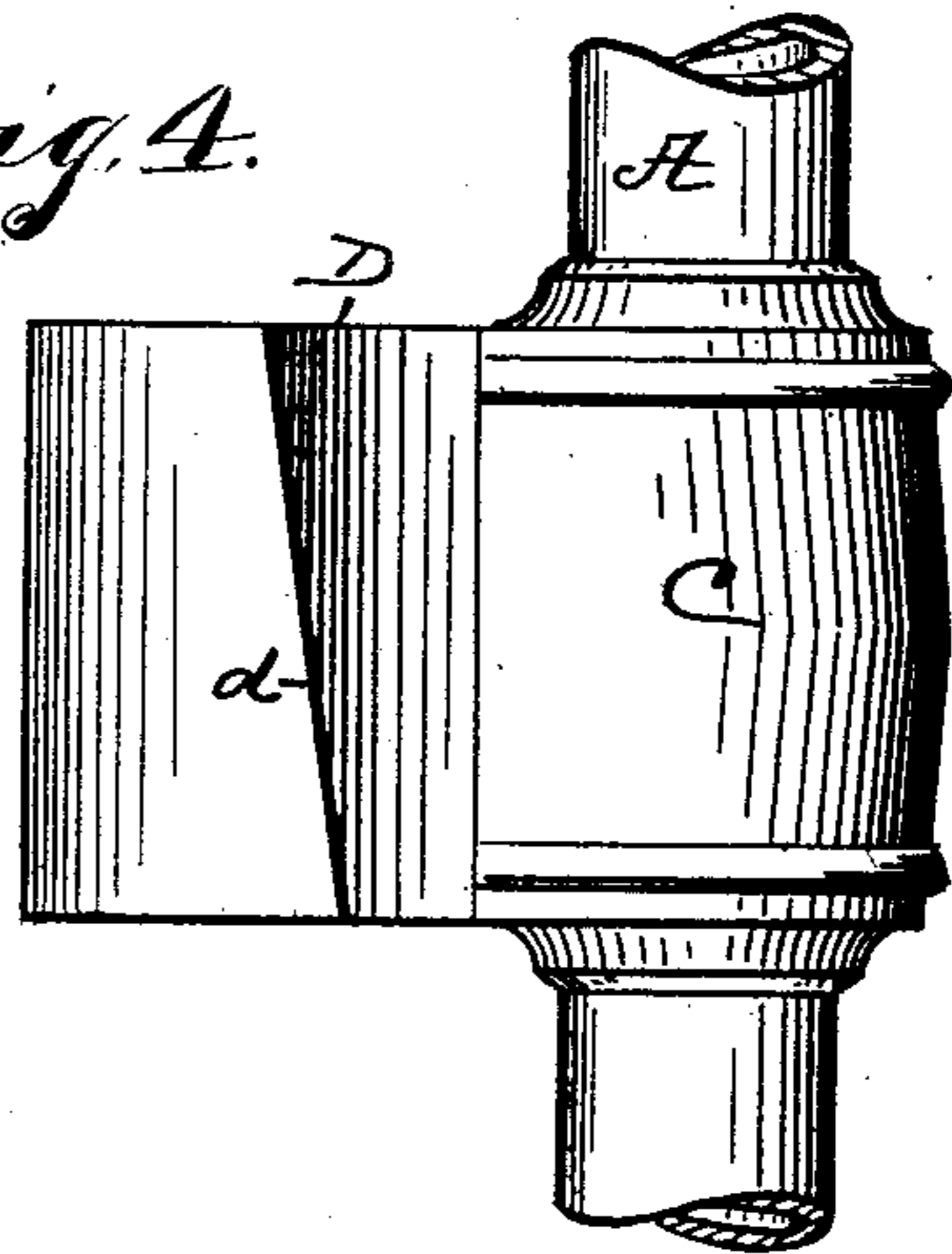


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM TUCKER, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE T. B. LAYCOCK MANUFACTURING COMPANY, OF INDIANAPOLIS, INDIANA, A CORPORATION OF INDIANA.

BED-RAIL.

SPECIFICATION forming part of Letters Patent No. 704,148, dated July 8, 1902.

Application filed December 23, 1901. Serial No. 87,023. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TUCKER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Bed-Rails, of which the following is a specification.

This invention relates to improvements in bed-rail fastenings for iron and brass bedsteads; and the object is to provide a corner-fastening between the bed-rail and bed-post by means of which extended bearing-surfaces to hold the head and foot of the bed in stable upright position are provided and means also provided whereby the said bearing parts are brought into close contact and securely held there while the bed is in use.

The further object is to provide approximately equal bodies of metal on the post and on the rail, so the amount of shrinkage in cooling of the metal after it is cast will be uniform in both, so as to provide a better-fitting joint.

The object, further, is to distribute the metal equally between the two parts of the fastening, so as to make the said parts uniformly strong.

The object also is to provide a joint with interlocking parts that will support each other and prevent side motion; and an additional and important object is to provide a fastening that will enable the side rails to be changed end for end, thereby reversing the rail.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detail in side elevation of a bed rail and post with my improved fastening applied; Fig. 2, a top or plan view of same; Fig. 3, an inside view of a bed-rail with the rail between the fastenings broken away in part to bring the illustration within the compass of the drawings; and Fig. 4 is a detail of the bed-post with its attached portion of the corner-fastening shown, the bed-rail portion being removed.

Like letters of reference indicate like parts throughout the several views of the drawings.

Referring to the drawings, A represents the

bed-post, and B the side rail, the latter being made out of angle-iron. The posts are provided with a collar or enlargement C, having a projecting shank portion D, preferably formed integrally with the collar. This shank portion has a half-round end, and approximately midway of the length of the shank its thickness is reduced abruptly to form the shoulder *d*. The direction of this shoulder is a straight line oblique to the top and bottom edges of the shank, the inclination being toward the post at the bottom of the shoulder. From this shoulder a reverse curve *d e* is formed, the point *e* forming a projection or hook, as shown in Fig. 2. M is the lower cross-bar of the head or foot of the bedstead. All of the curved surfaces of this shank are at right angles to the upper and lower edges of the shank.

The side rail B has the head F cast on either end of it. These heads are different from each other only in that the curves and the obliquity of the shoulders thereon are reversed in the two heads, and bearing this difference in mind it will be necessary to describe but one of the heads.

The outer portion of the head F is reduced in thickness on one side and the end rounded to fit the reverse curve *d e* of the shank D of the bed-post. The curve terminates with the shoulder *f g f*, the faces *f g* and *g f* being oblique to each other and each oblique to the right line from *f* to *f*. A reverse curve *f h* extends from the shoulder to the outer face of the head and is shaped to make a close fit with the rounded outer end of the shank D. The curvature is such as to form a hook at *h* similar to the hook *e*.

When the two parts of the fastening above described are put together, the oblique faces of the shoulders contacting with each other compel a longitudinal movement of the rail or drawing together of the curved meeting faces of the two parts of the fastening. These faces afford a broad bearing to maintain the head or foot in vertical position, and the hooks *h* and *e* prevent lateral movement.

The shanks on the post and on the bed-rail are substantially of the same shape and size and will shrink alike on cooling after be-

ing cast, and the metal of the two parts of the fastening being substantially the same in arrangement and amount the strength of the fastening will be increased over the well-known fastening in which the bed-post is divided centrally to receive the bed-rail portion.

It is obvious from the description and drawings that the rail may be reversed by changing the same end for end.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. In a corner-fastener for bedsteads a post, a shank on the post having a rounded end and a reverse curve forming a hook near its base and a shoulder between the hook and shank end oblique to the upper and lower edges of the shank and a rail having a head with a shank, the end of said shank fitting into the hook of the post-shank and having a hook to engage the end of the post-shank and a shoulder to contact with the shoulder of the post-shank to draw the parts of the fastener together when the bed-rail is depressed.

2. In a corner-fastener for bedsteads a post, a shank on the post having a rounded end, and a reverse curve forming a hook near its base and a shoulder separating the two curves, said shoulder being oblique to the upper and lower edges of the shank and being a straight surface inclined downwardly toward the post, and a bed-rail having a head with a shank, said shank having a rounded end to fit into the hook of the post-shank and having a reverse curve forming a hook to receive the rounded end of the post-shank and having a shoulder between the hook and end to contact with the oblique shoulder of the post-shank.

3. In a corner-fastener for bedsteads a post, a shank on the post having a rounded end and a reverse curve forming a hook near its base

and an oblique shoulder between said hook and the end of the shank, a side rail having a shank with a rounded end to fit into the hook of the post-shank and a reverse curve forming a hook near its base and a shoulder between said hook and the end of the shank, the ends of the two shanks engaging the opposite hooks of the shanks and the shoulders contacting with each other.

4. In a corner-fastener for bedsteads a post, a shank on the post having a rounded end and a reverse curve forming a hook near its base and an oblique shoulder between said hook and the end of the shank said shoulder sloping downwardly toward the post, a side rail having a shank with a rounded end and a reverse curve forming a hook near its base with a shoulder between said hook and the end of the shank said shoulder sloping from its middle portion toward each end and toward the outer end of the shank, the ends of the two shanks engaging the opposite hooks of the shanks and the shoulders contacting with each other.

5. In a corner-fastener for bedsteads, a post, a shank on the post having an abrupt decrease in thickness on one side to form a shoulder and having a stop farther out toward its end, a rail or frame fixture having a head with an end to fit the shoulder on the shank and having a projection to engage said stop, the said stop and its engaging projection having in their construction a wedge formation to compel a close fit between said head end and shank-shoulder.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 13th day of December, A. D. 1901.

WM. TUCKER. [L. S.]

Witnesses:

CHAS. O. VAN HORN,
JOSEPH A. MINTURN.