

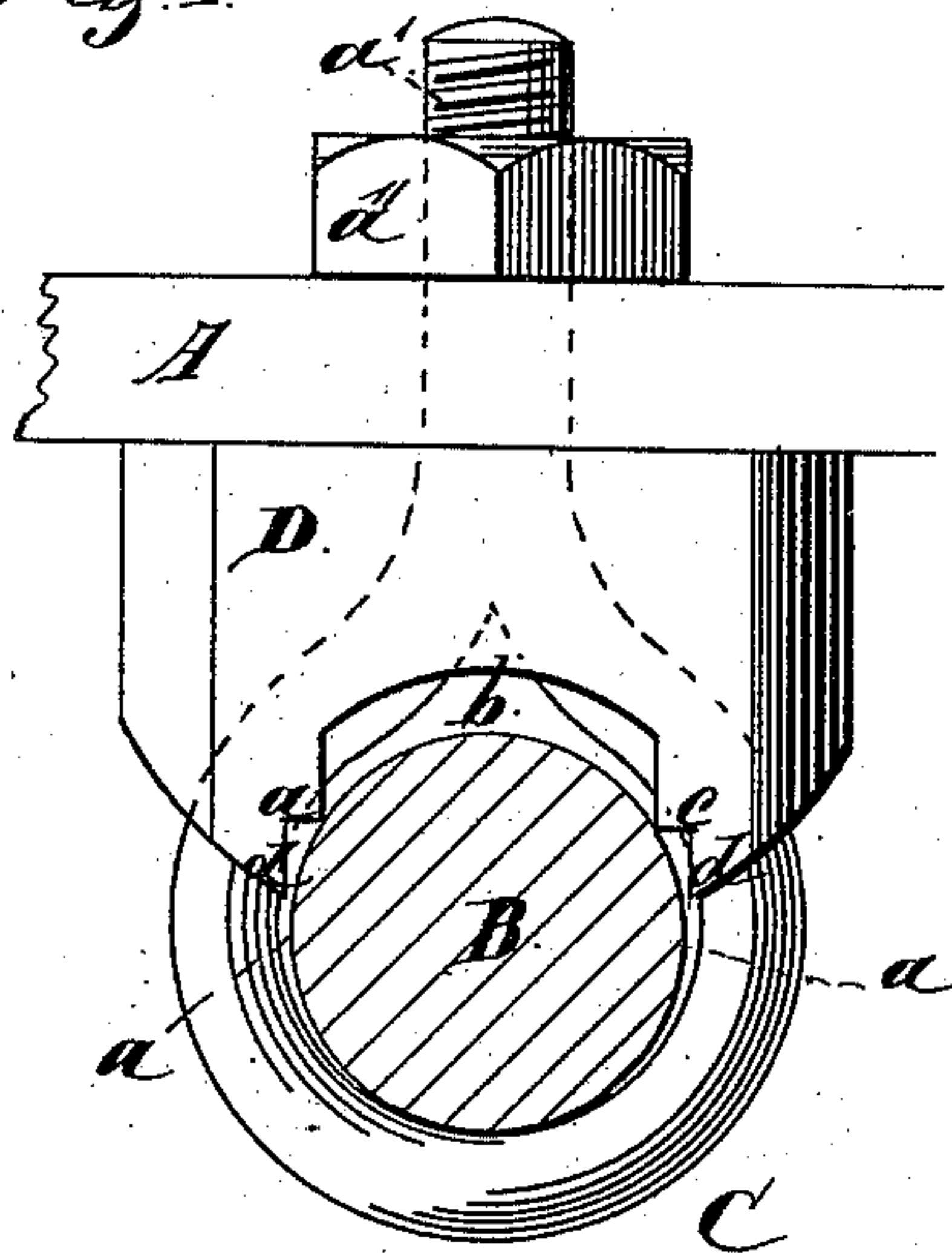
(No Model.)

J. F. PACKER.  
CLAMPING DEVICE.

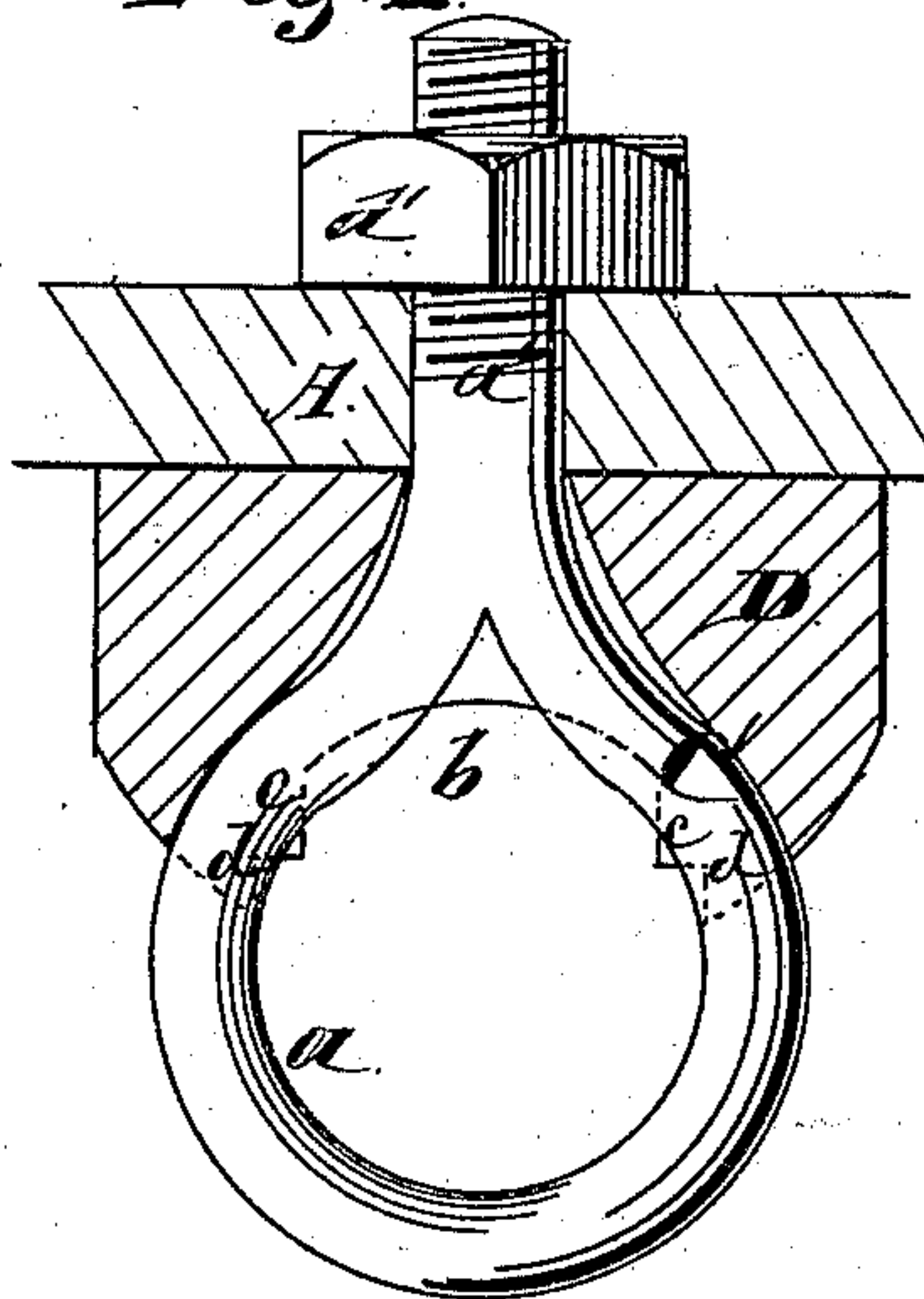
No. 313,019.

Patented Feb. 24, 1885.

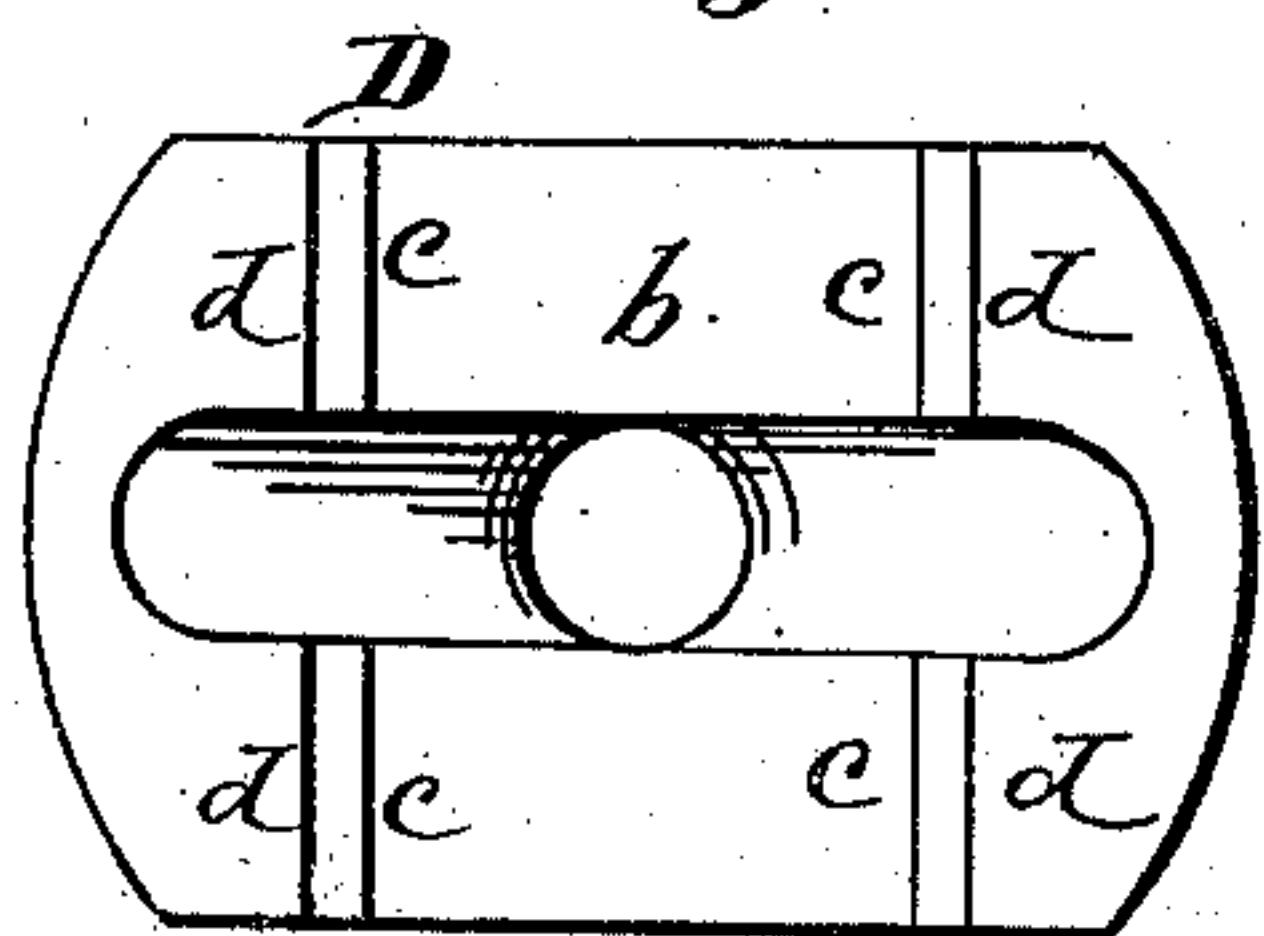
*Fig. 1.*



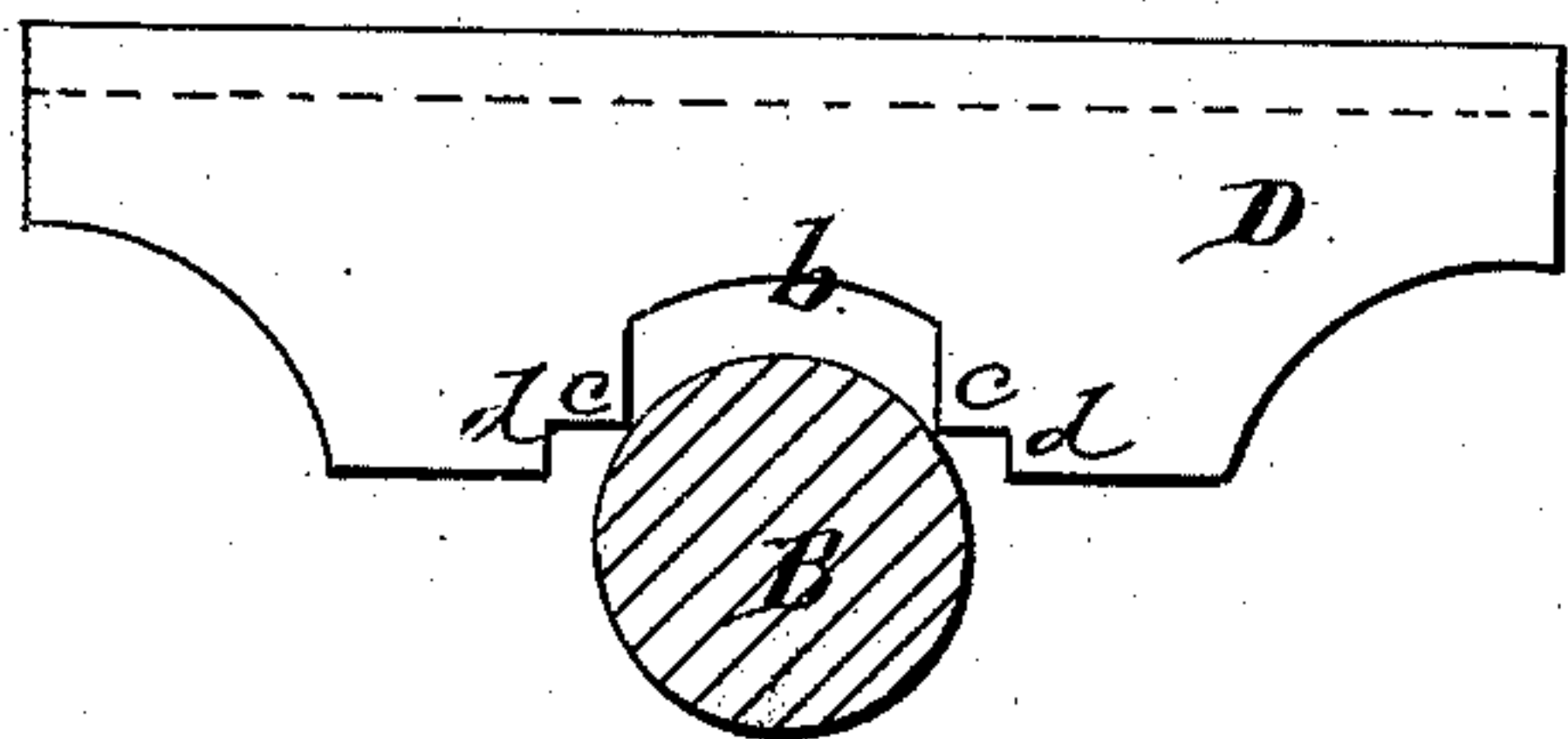
*Fig. 2.*



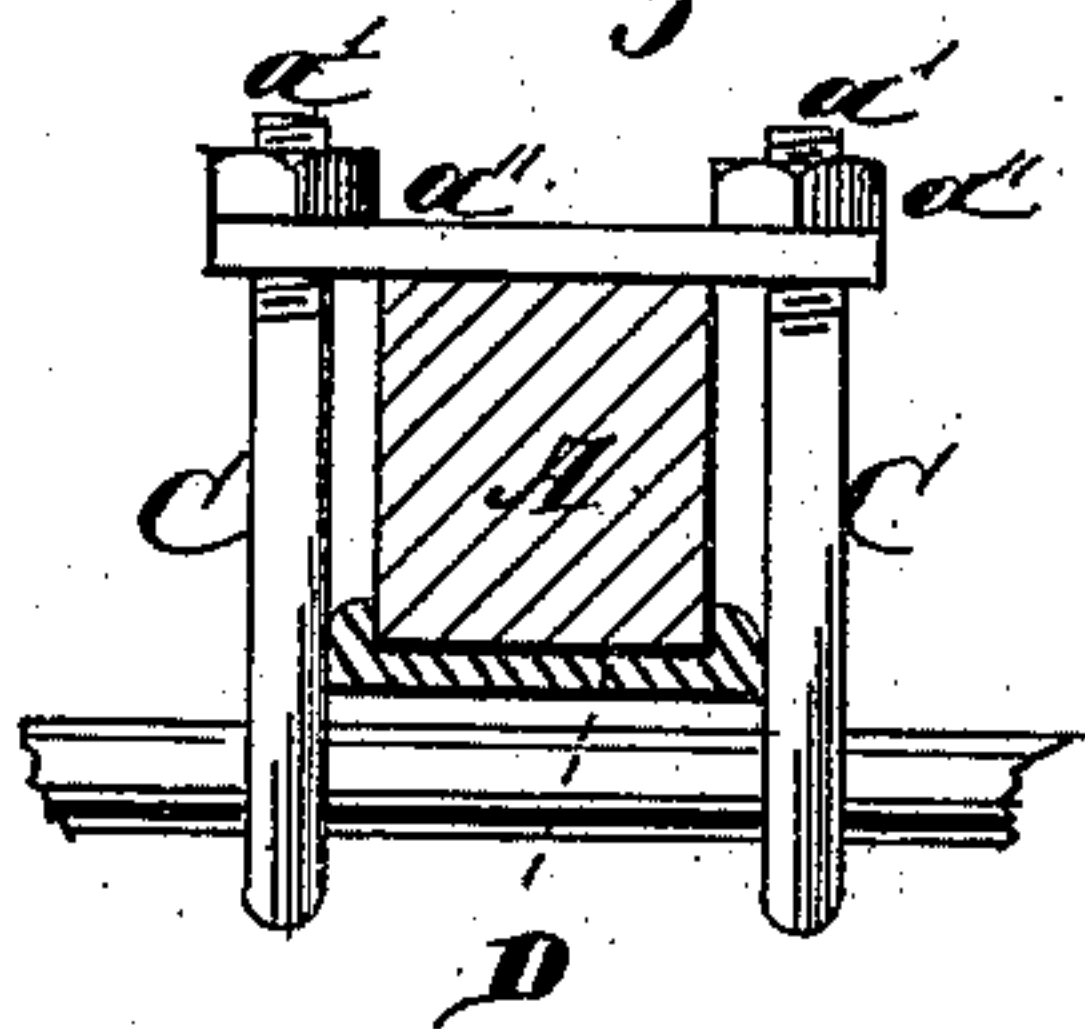
*Fig. 3.*



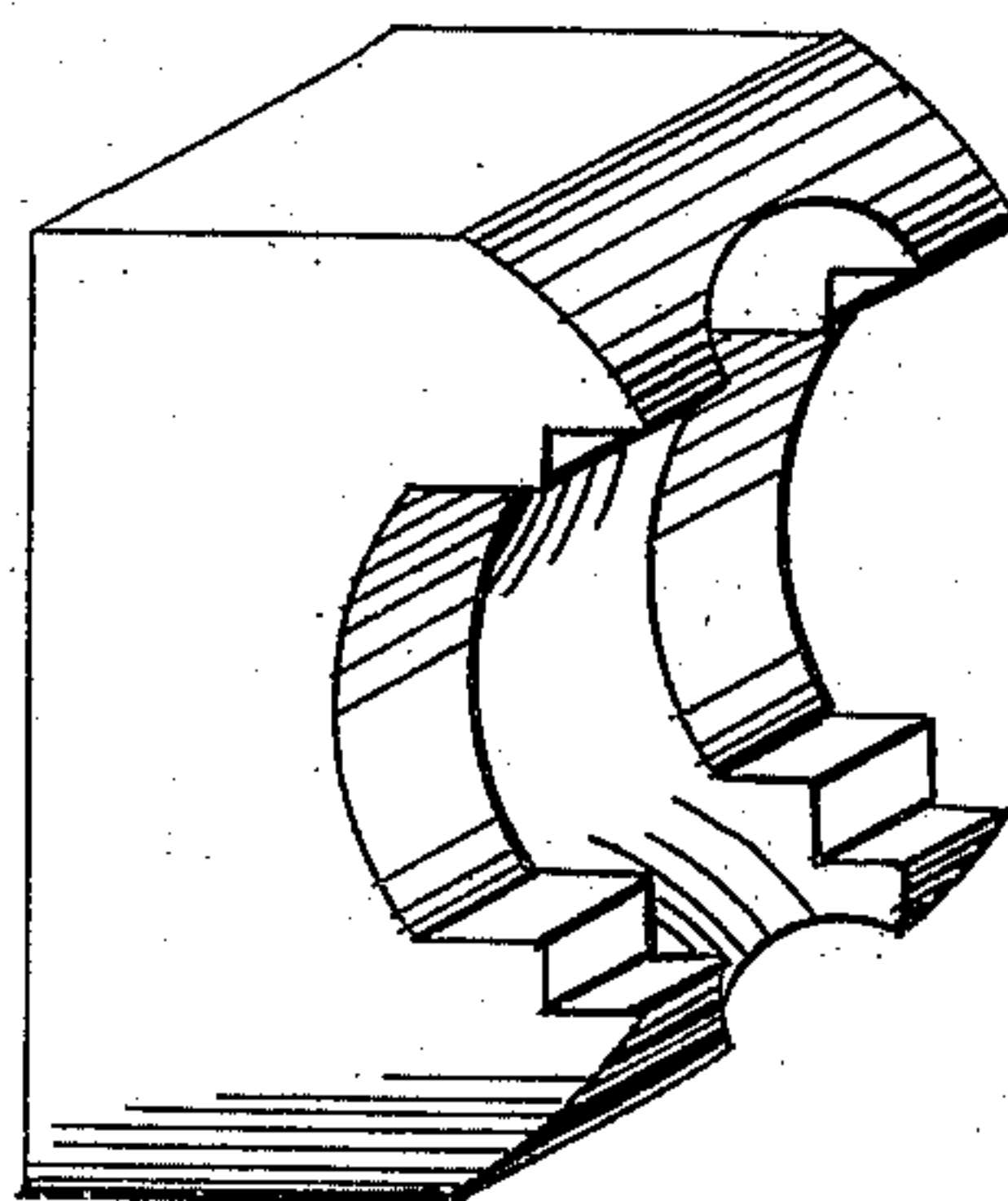
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Witnesses:  
Albert H. Adams.  
Harry J. Jones

Inventor:  
John F. Packer



# UNITED STATES PATENT OFFICE.

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## CLAMPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 313,019, dated February 24, 1885.

Application filed October 23, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN F. PACKER, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented a new and useful Improvement in Clamping Devices, of which the following is a full description, reference being had to the accompanying drawings, in which—

10 Figure 1 is a side elevation, showing the clamped piece in section; Fig. 2, an elevation with the clamp head or block in section; Fig. 3, an under side view of the clamp head or block with the eyebolt removed; Fig. 4, a side elevation, showing another shape of clamp head or block; Fig. 5, an end elevation with the clamp-block in section, showing two eyebolts instead of one; Fig. 6, a perspective view of the clamping block or plate.

20 The object of this invention is to enable round iron bars or pieces of iron or other material to be inserted, and when in place held firmly without any squaring or flattening of the bar or piece; and it is designed to furnish a clamp that can be readily applied, and which will be simple and at the same time effectual in use for attaining the object sought; and its nature consists in providing a block or plate having on the face adjacent to the round surface to be clamped a notch or recess with sharp projections or edges to bite onto the round surface, and in combining such block or plate with one or more eyebolts, by which the rounded surface will be drawn in contact with the sharp projections or edges, and produce the benefit of the bite and the advantages of the wedge of the draw, all as hereinafter more specifically described, and pointed out in the claims.

40 In the drawings, A represents the piece of material to which a round shank or bar or piece is to be attached, which piece A may be a plow-beam, a frame-piece, or other support.

45 B is the round shank, stem, or piece to be clamped and held, which may be a plow-standard, a colter-shank, or other round article.

50 C is an eyebolt, the eye of which is somewhat larger in its interior diameter than the diameter of the round piece B, and this eye  $a$  is to encircle the piece B. The stem  $a'$  of the

bolt is provided with a screw-thread to receive a nut,  $a''$ , and this stem passes through the piece or support A.

D is a clamp-block, one face of which is formed to fit against the face of the piece or support A, and the other face, which lies adjacent to the surface of the piece B, is provided with a recess,  $b$ , cut out, so as to leave sharp projections or edges  $c$ , and, as shown, the face is further cut away to leave projections or edges  $d$ . The projections or edges  $c$  furnish the means for biting against the exterior surface of B, and the recess  $b$  allows the entrance of the exterior surface of B, so as to produce or cause a wedging as the eyebolt is drawn down, bringing the surface of B into contact with the face of the block D.

As shown in Figs. 1, 2, and 3, a single eyebolt is used, which bolt passes into a recess formed in the face of the block to conform to the shape of the eyebolt, and, as shown in Fig. 5, two eyebolts are used, passing one on each side or end of the clamping-block.

The clamping-block may have an exterior of various shapes, to suit the place where used, and two forms of constructing the block are shown in the drawings; but in all cases the face of the block against which the round surface is to be clamped is to be provided with a recess cut or formed to produce sharp engaging projections or edges, which bite into and firmly hold the piece to be clamped, and also allow of a wedge effect.

In use the block or plate D is placed on the eyebolt, and the piece B is passed into the eye of the bolt, while the stem is passed through the piece or support A. The nut  $a''$  is applied to the screw-threaded end  $a'$  of the eyebolt C, and the eyebolt drawn down, bringing the surface of B in contact with the face of D, forcing the sharp projections or edges  $c$  to engage and bite the surface of B, while such surface also passes into the recess  $b$ , and when the eyebolt is drawn down the combined biting and wedging effect produced will hold the piece B against turning as firmly as if the surface had been squared or otherwise shaped to produce a secure fastening. It will thus be seen that round pieces can be used and readily clamped into place, and when clamped be



held with as much rigidity and firmness as square or other shaped pieces.

The block or plate is simple in its construction, can be readily applied, and in use will  
5 furnish an effectual and reliable means for locking and clamping purposes; and it also enables a ready adjustment to be made without injuring its holding and clamping qualities, and all that is necessary to be done is to  
10 loosen the eyebolt slightly, adjust the piece or part as may be required, and then draw the eyebolt down, causing the sharp projections or edges *c* to again bite and wedge the piece or part.

15 The biting edges must run parallel with the piece to be clamped.

What I claim as new, and desire to secure by Letters Patent, is—

1. The block or plate D, provided with the recess *b* and engaging projections or edges *c*, 20 in combination with the eyebolt C, adapted to encircle the object to be clamped and draw the same against the said block or plate D, substantially as described.

2. The block or plate D, provided with the 25 recess *b* and engaging projections or edges *c*, and perforated, as shown, in combination with the eyebolt C, the shank of which passes through the perforation in the block or plate D, and is held therein by means of a nut, sub- 30 stantially as described.

JOHN F. PACKER.

Witnesses:

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