

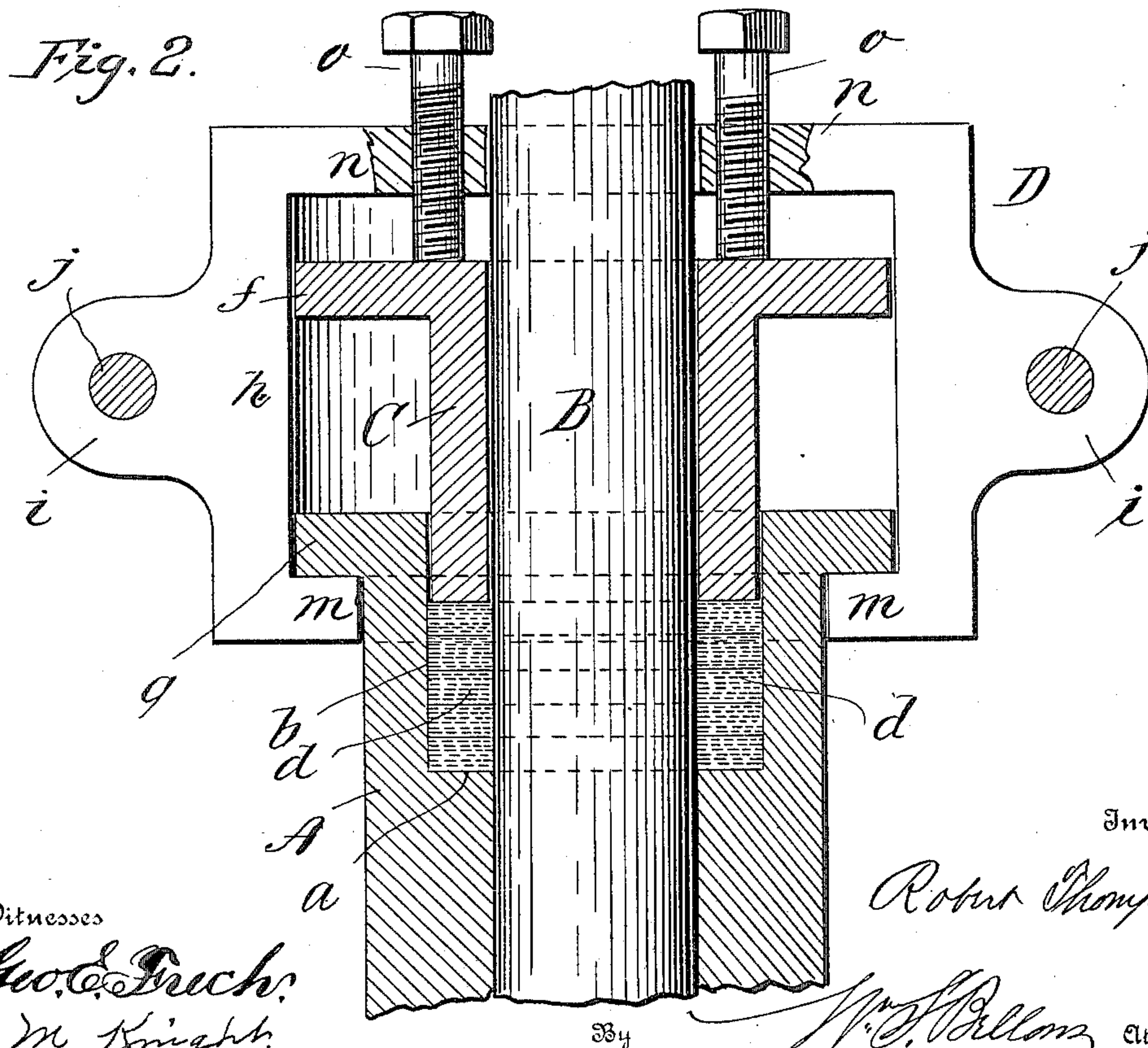
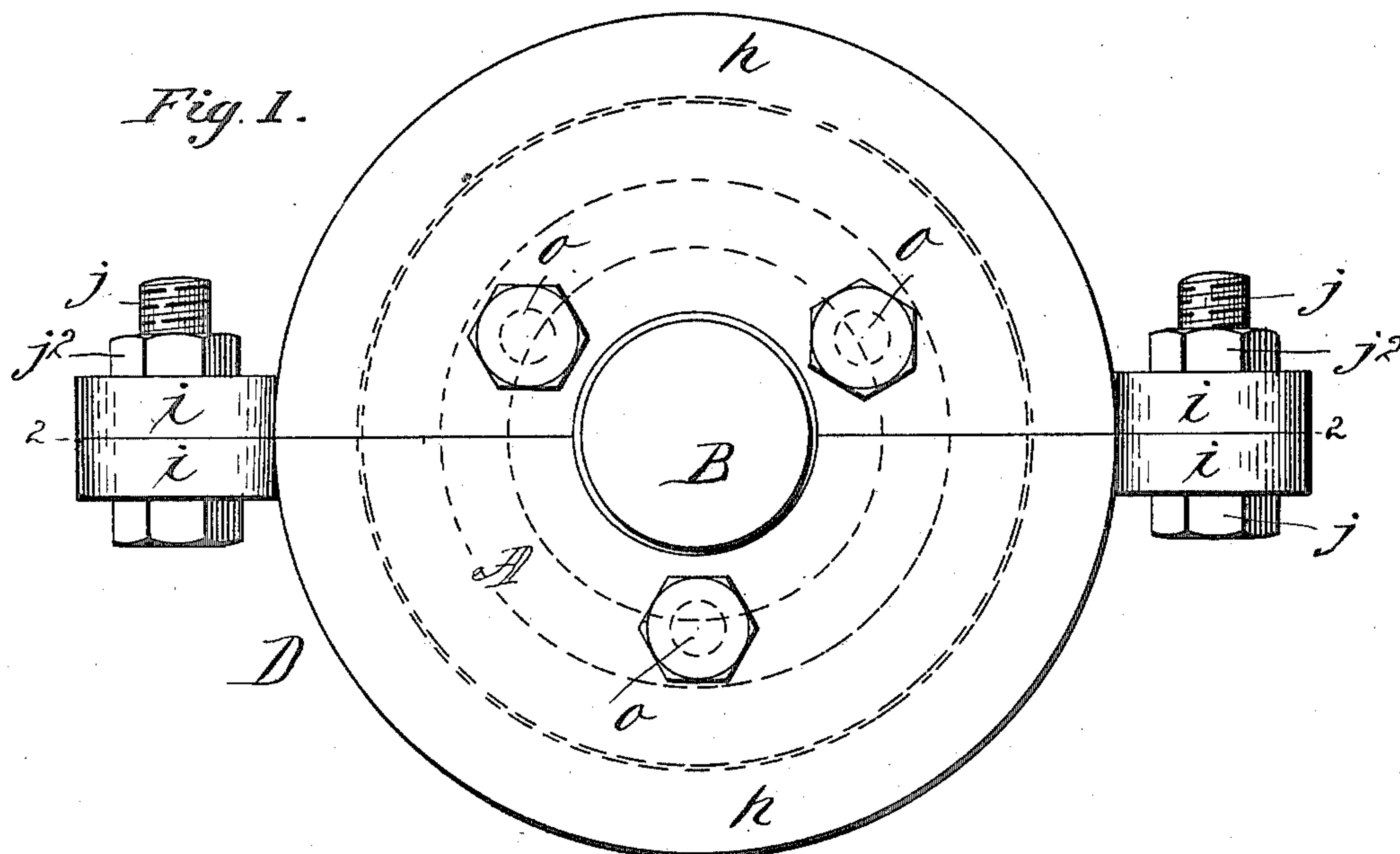
No. 661,329.

Patented Nov. 6, 1900.

R. THOMPSON.
PACKING BOX.

(Application filed Aug. 18, 1900.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT THOMPSON, OF HOLYOKE, MASSACHUSETTS.

PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 661,329, dated November 6, 1900.

Application filed August 18, 1900. Serial No. 27,257. (No model.)

To all whom it may concern:

Be it known that I, ROBERT THOMPSON, a citizen of the United States of America, and a resident of Holyoke, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Packing-Boxes, of which the following is a full, clear, and exact description.

This invention relates to improvements in packing-boxes and clamps or retainers therefor, the objects being to provide simplified and improved means for setting up the packing as occasion requires, to provide against the accidental displacement or loss of the packing-gland, and to permit readily the removal, if desired, of the gland for renewing the packing.

The invention consists in the constructions and combinations of parts, all substantially as hereinafter described, and set forth in the claims.

Reference is to be had to the accompanying drawings, in which the improved device is illustrated, and in which—

Figure 1 is a plan view. Fig. 2 is a central vertical sectional view on line 2 2, Fig. 1.

In the drawings, A represents the body, through which the shaft or piston-rod B plays or has its bearing, said part B constituting, for example, the head of a steam-cylinder or of a pump.

The body A is constructed with the concentric annular seat *a* at the base of the annular depression *b*, in which is placed the packing *d*, of any suitable compressible material, the same, however, not filling the annular depression-space.

C represents the gland, having at its upper end the surrounding flange *g*.

D represents a clamp and casing, the same consisting of the two matching or duplicated half-cylindrical shells or castings *h h*, with opposite pairs of ear-lugs *i i* for the engagement therethrough and therewith of the clamping-bolts *j j* and nuts *j² j²*, and having comparatively narrow internal flange *m* to engage under the flange of the body A and the wider internal upper or opposite end flange *n* to embrace the piston-rod or shaft.

It will be noted that the axial length of the gland is greater than the distance from the

upper end of the body A to the inner wall of the flange *n*, so that same lower end portion of the gland must necessarily be sunk within the mouth of the depression.

Setting-up screws *o o* are provided and passed, with a thread engagement, through the upper flanged portions *n* of the separable clamp-casing D to a forcing and retaining bearing against the upper flanged end of the gland. These screws provide the means for forcing the gland in an endwise direction against the packing as occasion may require.

It will be perceived that with the inclosing clamp in place about the gland, the end of which latter is sunk within the depression *b*, the gland cannot become entirely disengaged from the body A, having such depression, no matter to what extent the screw *o* may become loosened, and yet to replace the packing, necessitating the removal of the gland, such may be done by the easily-accomplished removal of the separable clamping-case D. The casing conceals and protects the gland and measurably excludes dirt from the bearing.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with the cylinder head or body, through which the piston-rod or shaft works, provided with the flange *g*, and having an endwise open annular packing-depression, of the annular gland, the end portion of which is entered in said depression, the clamping-casing consisting of separable semi-cylindrical sections, *h h*, with the internal flanges *m n* the former to engage under said flange *g* and the latter to embrace the shaft outside of the gland, means of detachable connection for said clamp-sections, and the setting-up screws passing the clamp-section flanges *n* to bearing against the end of the gland, substantially as and for the purposes set forth.

2. The combination with the body A, comprising a pump or cylinder head, or the like and having the flange *g*, and the annular depression for packing, of the annular gland C the end of which enters said depression, the clamp D comprising the paired semicylindrical sections *h h* having the matching ear-lugs *i i*, and the inturned semi-annular flanges

m and *n*, the distance between the inner faces of said flanges being less than the length of the gland, the bolts *j* and nuts *j*² engaged through, and with, said ear-lugs *i*, and the
5 setting-up screws *o o*, threading through the clamp-section flanges against the outer end of the gland.

Signed by me at Springfield, Massachusetts,
in presence of two subscribing witnesses.

ROBERT THOMPSON.

Witnesses:

WM. S. BELLOWS,
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