No. 827,803. PATENTED AUG. 7, 1906.

A. J. JEROU.

STUFFING BOX.

APPLICATION FILED OCT. 19, 1905.

Fig. 1.

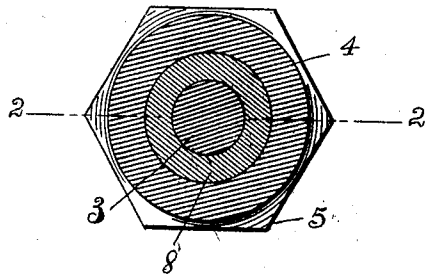


Fig. 2.

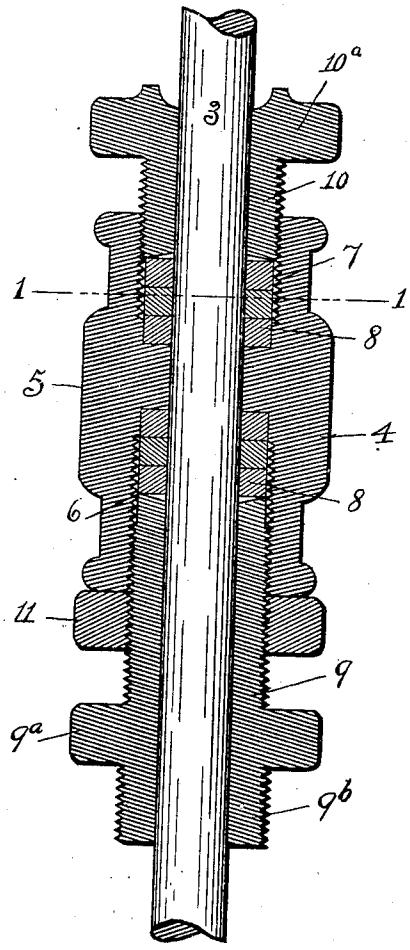
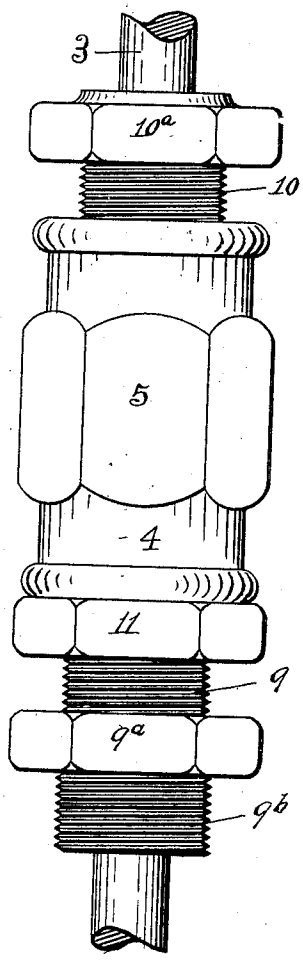


Fig. 3.



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UNITED STATES PATENT OFFICE.

ARTHUR J. JEROU, OF BOWLING GREEN, OHIO.

STUFFING-BOX.

No. 827,803. Specification of Letters Patent. Patented Aug. 7, 1906.

Application filed October 19, 1905. Serial No. 283,536.

To all whom it may concern:

Be it known that I, ARTHUR J. JEROU, a citizen of the United States, and a resident of Bowling Green, in the county of Wood and State of Ohio, have invented certain new and useful Improvements in Stuffing-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to stuffing-boxes or glands for securing a steam, air, or water tight joint around a movable rod passing out of a vessel or in it; and it has for its object the provision of a simple and efficient stuffing-box having two packing-compartments and followers arranged in compact relation and designed to effectually pack the rod moving therein in both directions of its movement.

To this end the invention consists of certain novel features of construction, combination, and arrangement of the parts, as will be hereinafter more fully described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a cross-section of the stuffing-box comprising my invention, taken on the dotted line 1 1 in Fig. 2. Fig. 2 is a central longitudinal section of the same, taken on the dotted line 2 2 in Fig. 1; and Fig. 3 is a side elevation thereof.

Referring to the drawings, 3 represents a rod to be packed, and 4 the box or casing of the stuffing-box of my invention. This box or casing is exteriorly formed with a wrench-gripping surface, as at 5, and has each end axially bored to form cylindrical chambers 6 and 7 for receiving the stuffing-rings or other suitable packing material 8. The portion of the box or casing 4 disposed between the inner ends of the chambers 6 and 7 has its bore restricted to a size adapted to snugly receive the rod 3, thus forming an annular shoulder at the base of each of said chambers, against which the packings 8 are pressed by the glands or followers 9 and 10, which encircle the rod 3 and are threaded in said chambers or the enlarged portions of the bore of the box or casing. The followers 9 and 10 are each provided with the usual wrench-gripping surface or flange 9^a and 10^a, respectively, and the follower 9 is formed with a threaded extension 9^b to permit its being secured within the opening of the vessel, cylinder, or pipe with which the rod 3 connects. As the repeated outward movement of the rod 3 might occasion a loosening of the box or casing 4 relative to the follower 9, due to the outward strain thereon, I mount a jam-nut 11 on the follower 9 in position to abut or lock against the inner end of the box-casing. It is found in practice that it is not necessary to lock the follower 10 to the casing, as the inner follower 9 is the only one having a tendency to become loosened by reason of the reciprocal movement of the rod 3. It will thus be seen that by the arrangement, construction, and association of the parts shown a stuffing-box having double packing-chambers is provided, whereby leakage around the rod 3 is more effectually prevented than in the case of the stuffing-box having the usual single packing-chamber.

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

1. A stuffing-box comprising in combination a box or casing having its ends provided with straight cylindrical internally-threaded bores which terminate abruptly at their inner ends and communicate through a restricted axial opening, a reciprocal rod extending through the box or casing, a packing material in each bore abutting its inner end, a gland or follower threaded in the open end of each bore, one of said glands or followers having a threaded stem for securing it within the opening in the vessel with which the stuffing-box is associated and through which the rod passes, substantially as and for the purpose specified.

2. A stuffing-box comprising in combination an elongated box or casing provided with a cylindrical bore therethrough having its central portion abruptly restricted to divide the casing or box into two chambers and form a right-angle shoulder at the base of each and its end portions internally-threaded, a gland or follower threaded in each end of the casing or box; each having a wrench-gripping surface and one having a threaded extension extending away from the casing or box, substantially as and for the purpose specified.

3. A stuffing-box comprising a box 4 having the cylindrical end chambers 6 and 7 and the

central reduced portion which forms a restricted bore and also an abrupt annular shoulder between the two chambers, the glands 9 and 10, threaded in the chambers 6 and 7, the former of which has the threaded extension 9^b, and the jam-nut 11 on the gland 9, substantially as described.

In witness whereof I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR J. JEROU.

Witnesses:

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MARY I. SHAY.