

D. P. FLEMING.
STUFFING BOX GLAND.
APPLICATION FILED SEPT. 28, 1910.

993,673.

Patented May 30, 1911.

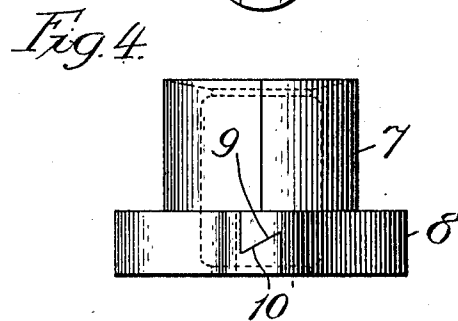
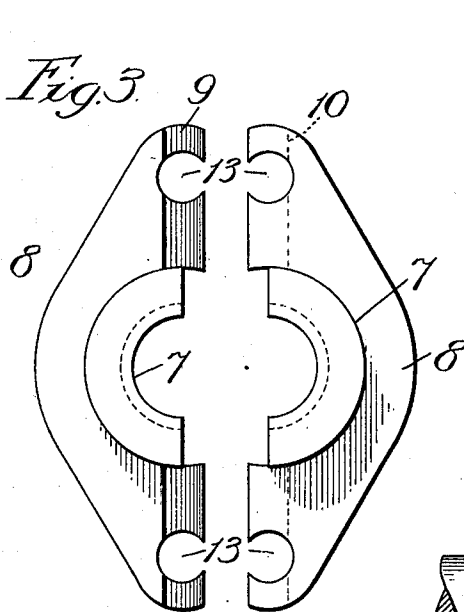
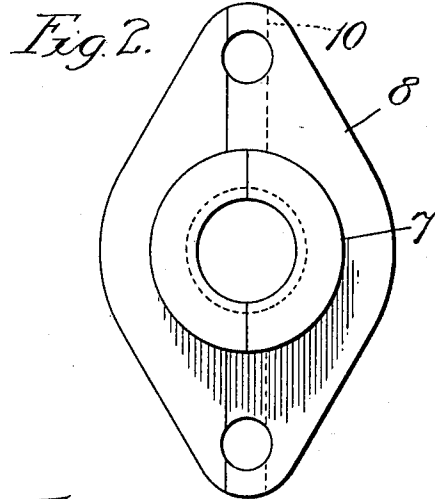
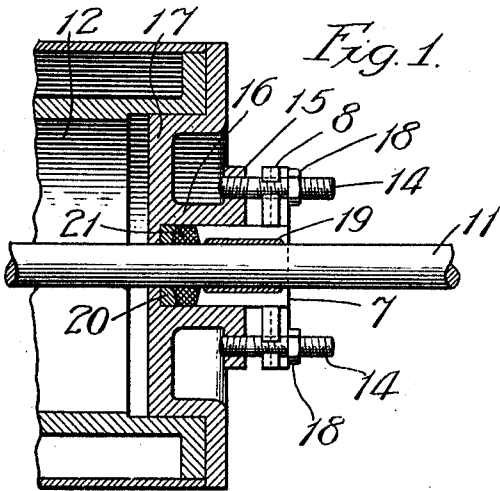


Fig. 5.

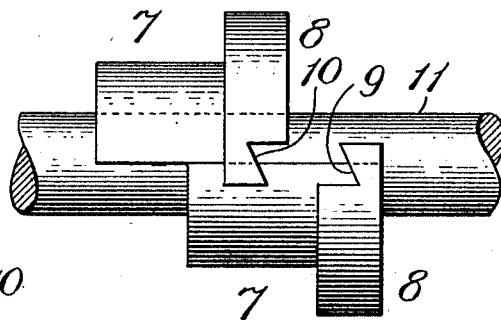
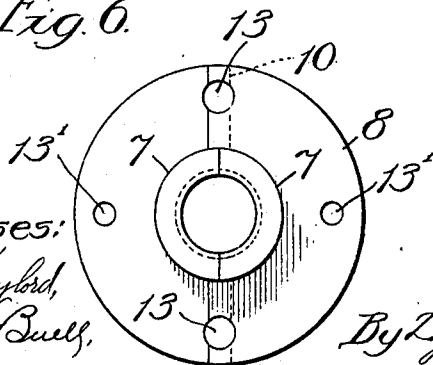


Fig. 6.



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UNITED STATES PATENT OFFICE

DOUGLAS P. FLEMING, OF CHICAGO, ILLINOIS.

STUFFING-BOX GLAND.

993,673.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DOUGLAS P. FLEMING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Stuffing-Box Glands, of which the following is a specification.

My invention relates to an improvement in the class of sectional glands, in which the gland-device is formed of two half-sections to facilitate the adjustment of the device into operative position and render it removable therefrom without disturbing other parts, these sections being adapted to interlock at their meeting edges.

My invention consists in the particular construction of the interlocking means I have devised for the sections to the end of enhancing the strength of their union when the gland is operatively applied to a piston-stem.

In the accompanying drawing, Figure 1 is a broken view in longitudinal sectional elevation of a cylinder having its piston-stem equipped with my improved gland; Fig. 2 is a back-view of the gland on a larger scale than that of Fig. 1; Fig. 3 is a view like that presented in Fig. 2, but showing the two halves of the gland in separated relation; Fig. 4 is an end view of the gland of Fig. 2; Fig. 5 illustrates the manner of applying the two gland-sections to a piston-rod, and Fig. 6 is a back view of a modified form of my improved gland.

The gland comprises, as usual, a cylindrical central stem 7 with a flange 8 on one end, of the oblong, generally-oval shape illustrated in Fig. 2, or of the circular shape illustrated in Fig. 6, or of any other desired shape. It is split longitudinally and centrally through the flange to form it in two half-sections. These sections have similar grooves 9 and 10, of V-shape in cross-section, extending lengthwise throughout the meeting-edges of their respective flanges and in relatively opposite faces thereof, whereby when the grooves are opposed to each other in applying the sections, in the manner represented in Fig. 5, to the stem 11 of a piston (not shown) in a cylinder 12 (Fig. 1), the

tongues formed by the grooves will mutually interlock throughout the length (or diameter of Fig. 6) of the flange and effectively unite the sections against separation in the direction at a right angle to that of adjusting them together according to the representation in Fig. 5. Stud-holes 13 are formed through the grooves near their opposite ends to cause corresponding holes to register with each other with the sections in their interlocked relation for receiving studs 14 on the flange 15 of a stuffing-box 16 on the cylinder-head 17; nuts 18 screwing on the studs to secure the gland in its operative position illustrated in Fig. 1 and fasten the interlocked sections against separation in the direction opposite that of adjusting them together, and, besides, for adjusting the gland to compensate for wear on the packing. Where the flange 8 is circular, as in Fig. 6, holes 13¹ should be provided therein at points at right angles to the holes 13, for fastening studs then to be provided in proper position on the stuffing-box flange 15.

In Fig. 1 the stem 7 is hollowed out to form a chamber for Babbitt metal, as shown at 19, this metal being preferably a solid ring to render the gland the more solid when adjusted in its operative position; and at 20 posed between it and the stem.

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

1. A gland comprising two longitudinal sections having the meeting edges of their flanges provided with interlocking grooves of V-shape in cross-section extending throughout the length of said edges, and stud-holes in the opposite-end portions of each groove, for the purpose set forth.

2. A gland comprising two half-sections each consisting of a semi-cylindrical stem with a flange on one end, the flanges of both sections being provided in their meeting-edges with interlocking grooves of V-shape in cross-section extending throughout the length of said edges, and stud-holes in the opposite-end portions of each groove, for the purpose set forth.

3. A gland comprising two half-sections

each consisting of a semi-cylindrical stem
with a semi-circular flange on one end, the
flanges of both sections having interlocking
grooves of V-shape in cross-section extend-
5 ing throughout the length of their meeting-
edges and diametrically-opposite stud-holes,
and the grooves containing stud-holes in

their opposite-end portions, for the purpose
set forth.

DOUGLAS P. FLEMING.

In presence of—

J. G. ANDERSON,

R. A. SCHAEFER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
