

E. D. TAYLOR.
 PACKING GLAND.
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1,020,780.

Patented Mar. 19, 1912.

Fig. 1.

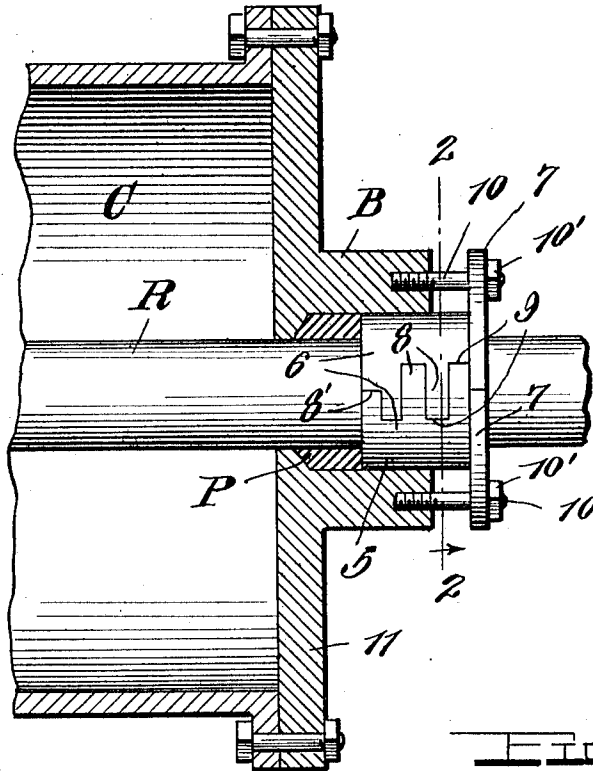


Fig. 2.

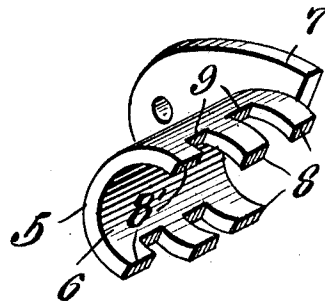
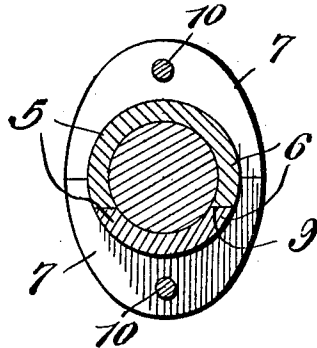


Fig. 3.



Witnesses

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PACKING-GLAND.

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To all whom it may concern:

Be it known that I, EDWARD D. TAYLOR, a citizen of the United States, residing at Harper, in the county of Raleigh and State of West Virginia, have invented certain new and useful Improvements in Packing-Glands, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to packing glands and has for its object to provide a device of this character of such construction that the glands of engine pistons which connect the piston rod to the head or are arranged
15 in the end of the piston cylinder, when the same become worn and unfit for further service, may be easily and quickly removed and replaced by new glands.

A further object of the invention resides
20 in the provision of a sectional packing gland, said sections being of such construction that they have interlocking engagement, whereby in case said sections should become broken, the gland may be easily removed
25 and a new section substituted, thereby reducing the cost incident to the renewal of the glands to a minimum.

Still another object of the invention is to provide a packing gland for pump or engine pistons which may be readily renewed
30 and is simple, inexpensive in construction and very efficient in practical use.

With the above and other objects in view, the invention consists of the novel features
35 of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a section
40 packing gland embodying my improvements showing the same arranged in the head of an engine cylinder and surrounding the piston rod; Fig. 2 is a section taken on the line 2—2 of Fig. 1; and Fig. 3 is a detail perspective view of one of the gland sections.

Referring in detail to the drawing 5 indicates the sections of my improved packing gland which are of similar form and may be constructed from metal, fiber or any other
50 suitable packing material. Each of the gland sections consists of a substantially semicircular concavo-convex body portion 6 which is provided with an attaching flange 7 integrally formed upon one end thereof.
55 The body 6 of the gland section is provided upon each of its longitudinal edges with

the spaced tongues or lugs 8. The space between these tongues provides recesses 9 to receive the complementary locking tongues formed upon the other of the gland sections. 60 The tongues 8' on the end of one of said sections opposite to the end provided with the attaching flange are considerably less in depth than the remaining tongues 8 on said section, the other of the sections being provided with recesses of corresponding depth
65 to receive said end tongues. By providing these reduced end tongues, liability of the same being broken off by strains devolving upon the gland sections is reduced to a minimum, while at the same time an effectual interlocking connection between the sections of the gland is obtained. 70

In the drawing I have shown my improved packing gland applied to the stuffing
75 box in the cylinder head.

C indicates the cylinder and H the head, which is secured to the end of the cylinder in any desired manner and has formed upon its exterior surface the stuffing box B, in
80 which the packing material P is arranged about the piston rod R. In the application of the gland sections, they are first assembled upon the piston rod and moved thereon into the stuffing box B until the end of the
85 gland engages with the packing P. The bolts 10 which are disposed through the flanges 7 of the gland sections are now threaded into suitable recesses or sockets in the wall of the stuffing box to force the
90 packing gland into the box and compress the packing material about the periphery of the piston rod. Nuts 10' are threaded upon the ends of the bolts 10 and engage against the outer faces of the flanges 7. After the
95 sections have been securely bolted in position, leakage around the piston rod will be effectually prevented in the operation of the engine. Even though one of the gland sections should become loosened, it will still be
100 securely held against longitudinal movement with relation to the other section by the locking tongues and recesses. Should one of the sections become broken, the gland may be easily and quickly removed and a
105 new section supplied. After properly assembling the sections, they may be replaced in position about the rod. It will be obvious that this renewal of the gland sections may be easily and quickly accomplished and,
110 owing to the two-piece construction of the gland, the expense incident thereto is insignificant.

nificant. By means of my device, it is unnecessary to disconnect the piston rod from the cross head or from the piston, and in some instances it is unnecessary to stop the operation of the engine.

From the foregoing it is believed that the construction and operation of the invention will be fully understood.

The device is extremely simple, may be inexpensively manufactured and is very convenient and highly efficient in practical use.

It will be understood that if desired the packing sections may be of other exterior conformations than that shown in the drawing and that they may be made provided with attaching flanges of various forms.

Having thus described the invention what is claimed is:—

1. A packing gland of the character described consisting of two sections of substantially semicircular form in cross section and each provided with a flange on one end, said gland sections being adapted for arrangement upon a shaft to engage therewith throughout their length, said flanges of the gland sections having faces which abut at a point substantially in alinement with the transverse axis of the shaft, each of said gland sections having spaced tongues and

recesses on its longitudinal edges for interlocking engagement upon opposite sides of the shaft, said tongues and recesses extending an equal distance in opposite directions with respect to the abutting faces of said flanges.

2. A packing gland of the character described consisting of two similar sections each of concavo-convex form in cross section and having an attaching flange integrally formed on one end, the longitudinal edges of each of said sections being provided with spaced tongues forming recesses between them, one of said sections having tongues formed upon the end opposite to that provided with the attaching flange which are of less depth than the first mentioned tongues, the complementary section having corresponding recesses to receive said end tongues, the first mentioned tongues on one of said sections fitting into the grooves between the tongues on the other section to prevent relative longitudinal movement of said sections.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

EDWARD D. TAYLOR.

Witnesses:

HERBERT HARPER,
WILL FRENCH.

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