

(No Model.)

W. POHLMAN.

ADJUSTABLE PACKING FOR PISTON RODS.

No. 347,197.

Patented Aug. 10, 1886.

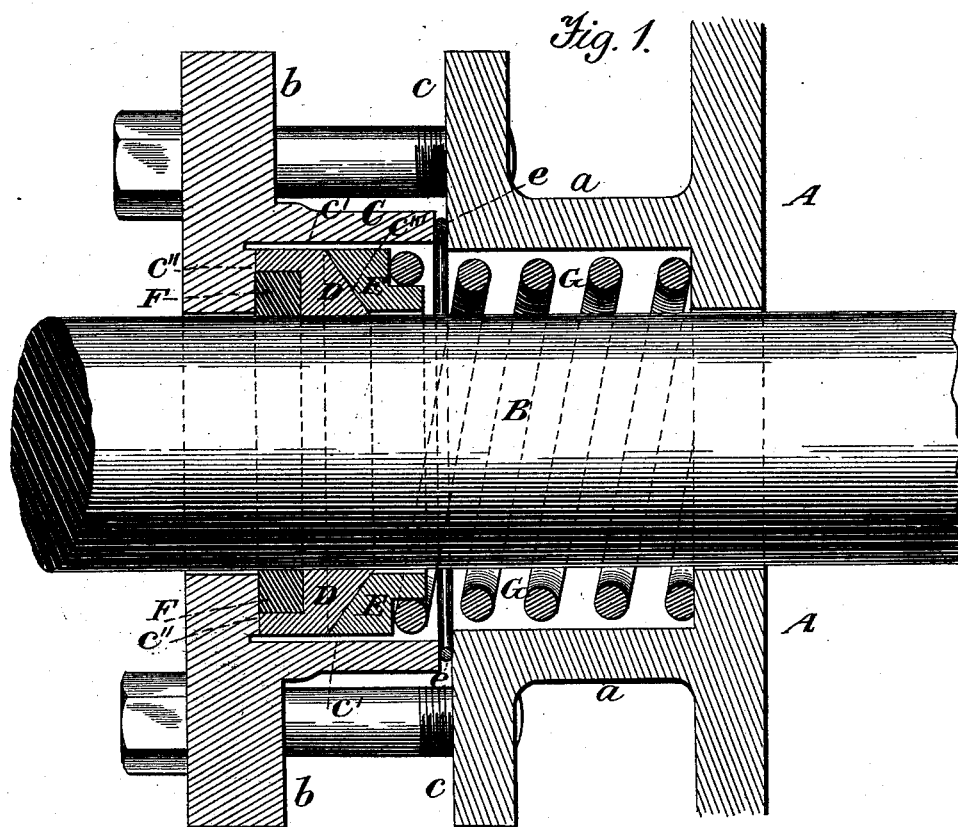
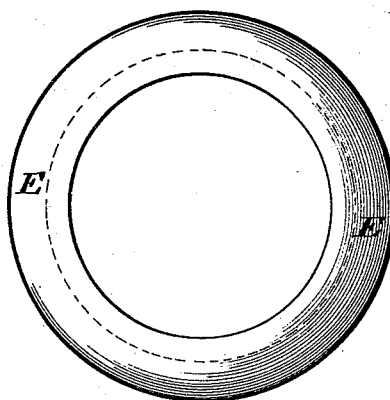
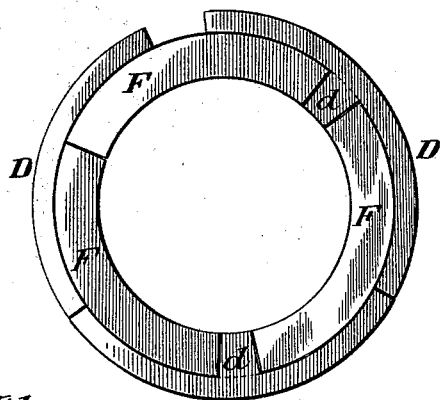


Fig. 2.

Fig. 3.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM POHLMAN, OF MIDDLETOWN, NEW YORK.

## ADJUSTABLE PACKING FOR PISTON-RODS.

SPECIFICATION forming part of Letters Patent No. 347,197, dated August 10, 1886.

Application filed May 5, 1886. - Serial No. 201,197. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM POHLMAN, of Middletown, in the county of Orange and State of New York, have invented certain new and useful Improvements in Adjustable Packing for Piston and other Rods, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of the invention is to make a perfectly steam or water tight joint without the use of hemp, soapstone, or other similar packing.

In the accompanying drawings, Figure 1 is a longitudinal section of the forward end of a cylinder, showing the stuffing-box, gland, rod, and packing. Figs. 2 and 3 show details of the invention as hereinafter described.

Similar letters of reference indicate similar parts in the respective figures.

A is the cylinder-head, having an ordinary stuffing-box, *a*.

B is the piston-rod.

C is a gland or casing, having a front flange, *b*, corresponding in shape with the front flange *c* of the stuffing-box, and is connected to said flange *c* by bolts in the usual manner. The interior of the casing C is trued out upon the two faces *c'* *c''*.

D is a ring surrounding the piston-rod, its forward end engaging the face *c''* of the casing C. The inner end of the ring D is beveled off, as shown at *c'''*, and against said beveled face a second beveled ring, E, having a correspondingly beveled face, fits. The outer beveled ring, D, is made in sections and provided with dowels or projections *d*, as shown at Fig. 2, so that the sections of the ring F cannot slip opposite the joints of the ring D, and thus cause

leakage. The flat faces of the rings D and F fit against the trued face *c''* of the casing C and make a steam-tight joint. The sectional ring F is square in cross-section, as shown in Fig. 1, and fits within a right-angled recess at the outer or forward end of the sectional ring D.

Sufficient space is left between the annular packing-rings and the casing C to allow for a slight lateral motion of the piston-rod inside of the casing to permit steam to get on the outside of the packing to close it upon the rod.

G is a spring within the stuffing-box *a*, and surrounding the piston-rod, for the purpose of forcing the rings D, E, and F against the face *c''* of the casing C. A packing, *e*, is placed between the stuffing-box *a* and casing C.

Having described my invention, I claim—

1. The combination of the cylinder-head A, casing C, spring G, solid ring E, and sectional rings D F, the ring D having the dowels *d*, all arranged substantially as set forth.

2. The combination of the cylinder-head A, casing C, packing *e*, spring G, solid ring E, and sectional rings D F, the ring D having the dowels *d*, all arranged substantially as set forth.

3. In a piston-rod packing, the cylinder-head A, casing C, and packing *e*, combined with the spring G, solid ring E, and sectional rings D F, substantially as set forth.

In testimony whereof I hereunto set my hand and seal.

WILLIAM POHLMAN. [L. S.]

Witnesses:

WILLIAM FUNNELL,  
HENRY W. WIGGINS.