

(No Model.)

F. HENNEBÖHLE.

METALLIC PACKING FOR STUFFING BOXES.

No. 339,771.

Patented Apr. 13, 1886.

Fig. 1.

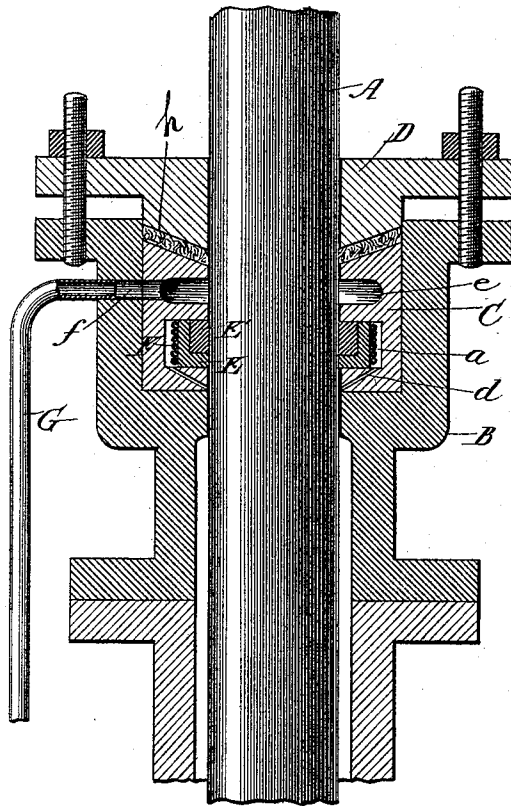


Fig. 2.

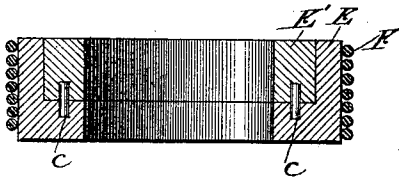


Fig. 3.

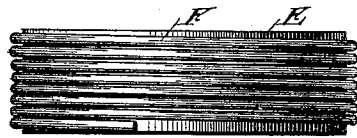
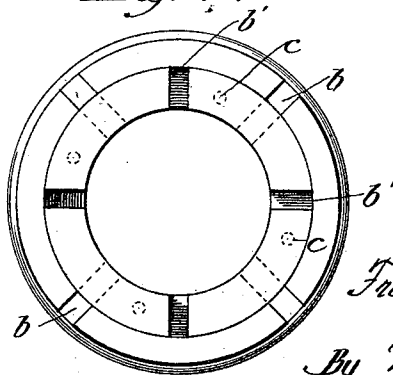


Fig. 4.



Witnesses
 Frank S. Blanchard
 W. J. Clayton

Inventor:
 Frank Henneböhle
 By Wm. B. Lotz & Co.
 Attorneys.

UNITED STATES PATENT OFFICE.

FRANK HENNEBÖHLE, OF SOUTH CHICAGO, ILLINOIS.

METALLIC PACKING FOR STUFFING-BOXES.

SPECIFICATION forming part of Letters Patent No. 339,771, dated April 13, 1886.

Application filed June 23, 1885. Serial No. 169,516. (No model.)

To all whom it may concern:

Be it known that I, FRANK HENNEBÖHLE, a citizen of the United States of America, residing at South Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Metallic Packing for Stuffing-Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improved metallic packing for stuffing-boxes.

The object of the invention is to obtain a packing of the character described, which will accommodate itself to the piston or other device with which it is used, and which will be simple in construction.

To the accomplishment of the above the invention consists of certain novel devices and combination of devices, as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a vertical sectional view showing my invention as applied to the plunger of a hydraulic lift; Fig. 2, a detail sectional view of the packing ring; Fig. 3, a detail elevation thereof, and Fig. 4 a top plan of the same.

Like letters refer to like parts in each view.

I have illustrated my invention as applied to a hydraulic lift; but it will be understood that it may be used upon a variety of machines.

In the drawings, A represents the plunger, B the cylinder in which it moves, C a stuffing-box, and D a suitable gland.

In stuffing-box C there is formed a circumferential recess or depression, *a*, in which the packing-ring is placed. This packing-ring consists of two series of segmental pieces, *E* and *E'*, both of the same bore, but the ones *E* sufficiently cut away to allow of the ones *E'* resting upon a flange formed thereby, as is clearly shown in Figs. 1 and 2. The arrangement of these two series of segmental pieces is clearly shown in Fig. 4, by reference to which figure it will be seen that there is a space, *b*, left between each piece *E* and the next adjoining piece, and a similar space, *b'*, between the several pieces *E'*, the several pieces of the two series being so arranged with respect to each

other that one piece, *E'*, will cross each space *b*, while a piece, *E*, will cross each space *b'*. It will also be seen that each segmental piece *E* is connected with one piece, *E'*, by a dowel-pin, *c*, and the parts thus securely held together.

Around segmental pieces *E*, within which pieces *E'* are inclosed, there is coiled a spring, *F*, arranged to force such segmental pieces inwardly, and thereby cause them to closely surround the plunger or piston with which the device is used.

In applying the device as shown in Fig. 1 I prefer to provide the stuffing-box with a series of inclined channels, *d*, leading from the circumferential recess *a* to the bore of the cylinder, in order that when high pressure is used sufficient water may pass through such channels to the recess to fill the same and provide a pressure to contract spring *F*, and thereby tighten the packing-ring around the plunger.

In case any water should escape above the packing-ring, I provide the stuffing-box with a circumferential groove, *e*, communicating through a passage, *f*, with a waste-pipe, *G*. I also prefer to use a suitable hemp packing, *h*, between the gland and the stuffing-box.

What I claim is—

1. The combination, with a sectional packing-ring the sections of which are arranged with spaces therebetween, and a spring coiled around such sections, of a stuffing-box provided with channels leading from the packing-ring recess to the bore of the cylinder, as set forth.

2. The combination, with a sectional packing-ring the sections of which are arranged with spaces therebetween, and a spring coiled around such sections, and a stuffing-box provided with channels leading from the packing-ring recess to the bore of the cylinder, of a gland provided with a circumferential depression, and a waste-pipe communicating therewith, as set forth.

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

FRANK HENNEBÖHLE.

Witnesses:

M. J. CLAGETT,
HARRIS W. HUEHL.