No. 731,228. PATENTED JUNE 16, 1903.

C. B. RUSH.

PACKING.

APPLICATION FILED JAN. 9, 1903.

NO MODEL.

Fig. 1

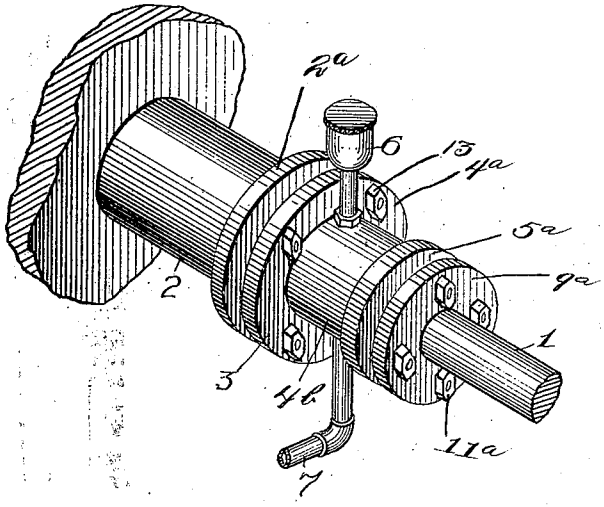


Fig. 2

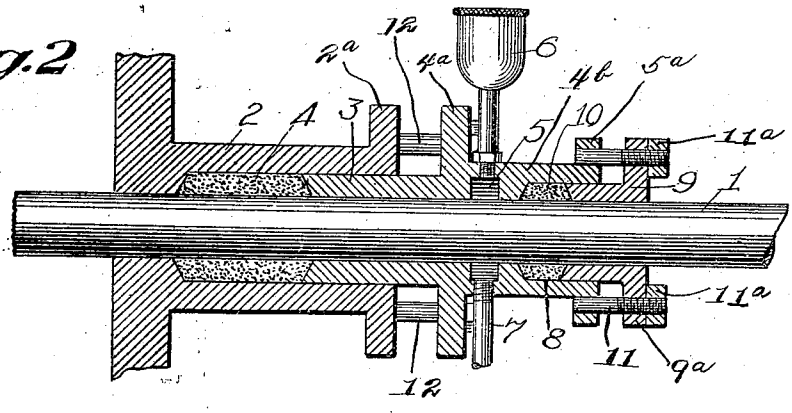
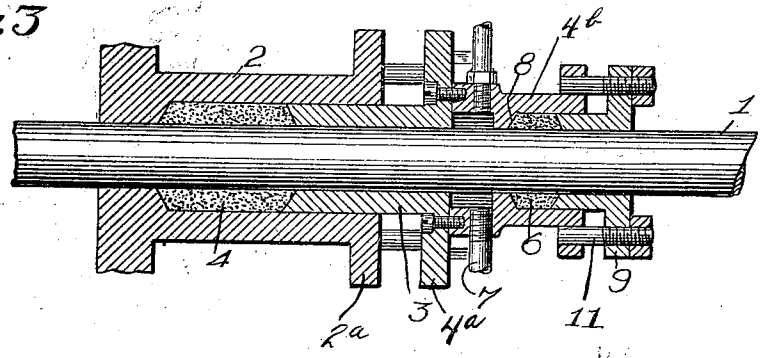


Fig. 3



Witnesses:
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No. 731,228. Patented June 16, 1903.

UNITED STATES PATENT OFFICE.

CHARLES B. RUSH, OF MAGIC, PENNSYLVANIA.

PACKING.

SPECIFICATION forming part of Letters Patent No. 731,228, dated June 16, 1903.

Application filed January 9, 1903. Serial No. 138,354. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. RUSH, a citizen of the United States of America, residing at Magic, in the county of Butler and State of Pennsylvania, have invented certain new and useful Improvements in Packing, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in packing, and relates more particularly to that class employed in connection with steam-engines and the like.

The present invention has for its object the provision of novel means whereby the escaping steam of a steam-engine is conducted into a steam-chamber and thence led through a drain-pipe to a suitable exit.

The present invention still further consists in the novel construction of stuffing-box and the arrangement and combination of parts to be hereinafter more particularly described, and specifically pointed out in the claim.

My present invention further contemplates to provide a stuffing-box that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved stuffing-box secured in position upon a piston-rod. Fig. 2 is a vertical sectional view thereof. Fig. 3 is a similar view of a modified form of my invention.

1 indicates the piston-rod, and 2 the main stuffing-box, which is formed at its outer end with the flange 2^a.

3 indicates the follower of the ordinary packing 4, arranged in the stuffing-box. This follower is also formed at its outer end with a flange 4^a, to which is rigidly secured the sleeve 4^b.

5 indicates the steam-chamber formed in the sleeve 4^b, the same being in communication with the oil-cup 6 and a steam-exit or drain pipe 7. The outer portion of this sleeve 4^b forms an auxiliary stuffing-box 8, which is provided with a follower 9 and packing 10.

The outer end of the sleeve 4^b and the adjacent end of the follower 9 are provided with flanges 5^a and 9^a, respectively, whereby through the medium of the bolts 11, which are secured in the flange 5^a and project through openings in the flange 9^a and have nuts 11^a in their threaded ends, the follower can be adjusted. 12 indicates similar bolts rigidly secured to the flange 2^a and projecting through openings in the flange 4^a.

13 indicates nuts arranged on the ends of the bolts 12.

In the modified form of my invention as illustrated in Fig. 3 of the drawings I have shown an auxiliary stuffing-box 8, having formed therein a steam-chamber 5, detachably secured to the follower 3, having the integral flange 4^a instead of being formed integral therewith, as shown in Fig. 2 of the drawings.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

The combination with the main stuffing-box formed at its outer end with a flange, of a follower arranged in said box and being formed with an apertured flange, bolts carried by the first-named flange and passing through the apertures in the flange of the follower, nuts on the ends of said bolts, a sleeve rigidly secured to the flange of said follower, said sleeve being formed with a steam-chamber and auxiliary stuffing-box, a follower in the last-named stuffing-box, said sleeve and last-named follower being formed at their outer ends with flanges, and bolts carrying nuts on their ends and engaging said last-named flanges.

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

CHARLES B. RUSH.

Witnesses:
A. FLEEGER,
R. A. STROUP.