

UNITED STATES PATENT OFFICE.

THOMAS KINKADE, OF ROCK SPRINGS, WYOMING.

ROD-PACKING.

SPECIFICATION forming part of Letters Patent No. 738,043, dated September 1, 1903.

'Application filed June 26, 1903. Serial No. 163,191. (No model.)

To all whom it may concern:

Be it known that I, THOMAS KINKADE, a citizen of the United States, residing at Rock Springs, in the county of Sweetwater and State of Wyoming, have invented new and useful Improvements in Rod-Packing, of which the following is a specification.

My invention relates to improvements in a metallic packing for piston-rods, and has for its object to provide a simple and thoroughly efficient packing.

With this and other objects in view the invention consists in a construction and arrangement of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a longitudinal section of my invention. Figs. 2, 3, and 4 show details thereof.

Referring to the drawings, 5 indicates the cylinder-head, having a stuffing-box 5^a, to which is bolted a gland 5^b. The piston-rod is indicated at 6.

My improved packing comprises a pair of sectional rings 7. These are made of a soft metal and are surrounded by an elastic split band 8, the tendency of which is to constantly spring inward and bind the rings tightly against the piston-rod, and thus prevent steam leaking outwardly along the rod and also to take up wear of the rings. The band has lugs 8^a, so that it may be readily expanded and placed over the packing-rings when the parts are assembled. The band laps where it is split, as shown in Fig. 4, which permits sufficient expansion to enable the band to be used on rods of various sizes.

At 9 is indicated a follower sleeved over the rod, one end of which abuts and is held against the rear packing-ring by a coiled spring 10 between the cylinder-head and a collar 9^a on the follower. The follower is sectional, so that it can be placed on a piston-rod having an enlargement thereon. The spring 10 holds the sections together.

At 11 is indicated a cap partly inclosing the band 8. This cap is also made sectional for the same reason as the follower, and its inner end is threaded to receive a ring 12 to hold the sections tightly together on the band.

The gland is counterbored, as at 5^c, in which the outer end of the cap 11 is placed at a steam-tight fit. The front packing-ring is beveled on its outer end, as at 7^a, and abuts

beveled. The spring-pressed follower binds these parts tightly together, forming a steam-tight joint therebetween.

By the use of my invention a very efficient packing is obtained, and as all wear of the packing-rings is taken up by the band there will be no leakage of steam when the said rings become worn.

I have used the term "steam" alone for the sake of brevity. It is obvious that the packing is adapted for use with air or other fluids under pressure.

Having thus described my invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A rod - packing comprising sectional packing-rings, a contractible split band inclosing the same, a spring-pressed follower on the rod bearing against one side of the packing-rings and a cap over the band and the other side of the packing-rings, substantially as described.

2. A rod - packing comprising sectional packing-rings, a contractible split band inclosing the same, a sectional spring-pressed follower behind the packing - rings, a sectional cap over the band and the other side of the packing-rings and having an exterior threaded portion, and a ring screwed thereon for holding the sections together, substantially as described.

3. The combination with a rod, stuffing-box and gland, of a split-ring packing on the rod, a contractible ring-retainer over the packing-ring, a spring-pressed follower on the rod between the packing and the bottom of the box, and a beveled cap seated in the gland and receiving the end of the packing-ring, substantially as described.

4. A rod - packing comprising a suitable packing material surrounding the rod, a contractible band around the same, a spring-pressed follower on the rod bearing against one side of the packing, and a cap over the band and the other side of the packing, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS KINKADE.

Witnesses:

ALBERT ARMSTRONG,