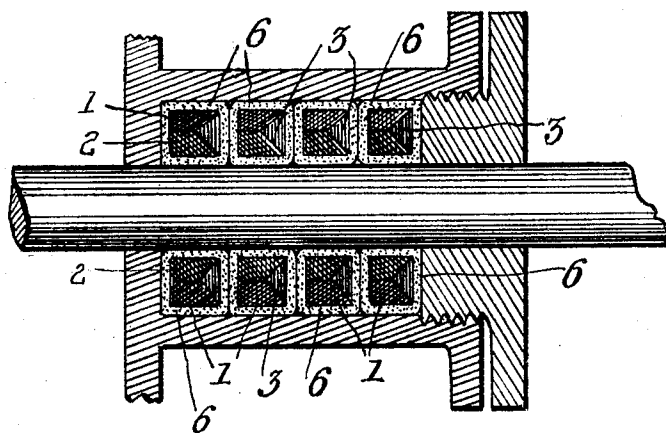
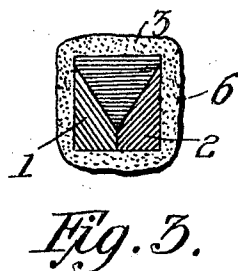
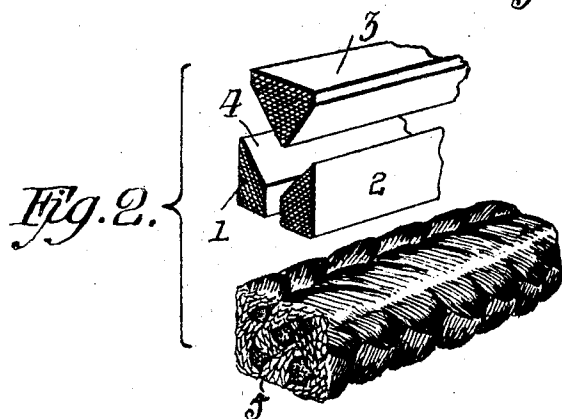
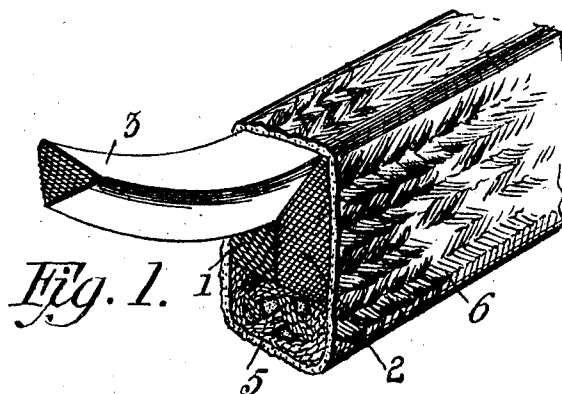


No. 795,098.

PATENTED JULY 18, 1905.

J. H. BRICKER.
PACKING.

APPLICATION FILED OCT. 4, 1904.



Witnesses:
R. H. Rusten
E. E. Potter

Inventor
John H. Bricker
By *H. C. Ewert & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN H. BRICKER, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO FRANK H. WOOD, OF PITTSBURG, PENNSYLVANIA.

PACKING.

SPECIFICATION forming part of Letters Patent No. 795,098, dated July 13, 1905.

Application filed October 4, 1904. Serial No. 227,119.

To all whom it may concern:

Be it known that I, JOHN H. BRICKER, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny 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 more particularly to packing for stuffing-boxes and piston-rods; and the object of this invention is to provide a packing which may be constructed of metal and fibrous material.

Another object of this invention is to provide a packing which will readily adjust itself under pressure and will permit of a double expansion, and I have provided novel means whereby the compensating parts will be held in position, so also to prevent it from being blown or forced out under pressure.

With these and other objects in view, which will be more readily apparent as the invention is further understood, the invention finally consists in the novel features of construction, combination, and arrangement of parts, which will be more fully described, and hereinafter pointed out in the claims, and, referring to the drawings accompanying this application, like reference-numerals designate corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of a section of my improved packing. Fig. 2 is a detail perspective view of the different parts of my improved packing disassembled. Fig. 3 is a vertical sectional view of a packing constructed in accordance with my invention; and Fig. 4 is a vertical sectional view of a stuffing-box through which a shaft or piston-rod passes, showing my improved packing mounted therein.

Reference now being had to the drawings accompanying this application, the reference-numerals 1, 2, and 3 designate three sections of my improved packing, and these three sections will be first described. In the first two figures of the drawings I have illustrated these

sections as being made out of hard rubber; but the same may be made out of fibrous or semimetallic material. The sections as designated by the reference-numerals 1 and 2 are each provided with a beveled face 4, and the section 3 is of substantially a triangular shape in cross-section. By referring to Fig. 1 of the drawings the position each section assumes when assembled will be seen, and the triangular section 3 of the packing is adapted to engage the beveled faces of the sections 1 and 2, and in the form illustrated in Fig. 1 I intend to use a fibrous or semimetallic material 5 in connection with the sections just described, this material being placed in engagement with the lower edges of the sections 1 and 2, and around said material and said sections I braid a fibrous material 6, which is preferably coated with graphite or the like lubricant.

In Fig. 3 of the drawings I have illustrated a piece of my improved packing wherein the fibrous or semimetallic material 5 is dispensed with and the fibrous material 6 braided around the sections 1, 2, and 3. The sections 1, 2, and 3 may be made of a yielding material or may be formed of metal, or they may be formed of an absorbent material, such as convolution of a fibrous material. The fibrous material employed for braiding the sections 1, 2, and 3 together is preferably made of an absorbent material, such as hemp or its equivalent, for taking up and secreting oils or similar lubricants. The material surrounding the sections is coated with graphite or other lubricants, such as generally used in stuffing-boxes.

In Fig. 4 of the drawings I have illustrated my improved packing as applied in a stuffing-box through which a shaft or piston-rod passes, and where my improved packing is to be used for this purpose it is preferably made in rings, which are adapted to surround the shaft or piston-rod, and in placing the rings in the stuffing-box I preferably place the same so that the triangular section 3 lies toward the gland of said stuffing-box. By the disposition of the packing-rings within the stuffing-box when the gland is tightened the triangular sections 3 will be forced inwardly, expand-

ing the sections 1 and 2 and causing the fibrous or lubricant material 6 to more closely adhere to the piston-rod or shaft which passes through the stuffing-box. When the triangular sections are forced inwardly, they form a wedge to separate the sections 1 and 2, and the sides of said sections will force outwardly upon the fibrous material 6 and form a perfect and non-leakable packing for said stuffing-box.

I wish it to be understood that I do not care to limit myself to the use of hard-rubber, fibrous, semimetallic, or metallic materials in constructing my improved packing, and I do not care to confine myself specifically to the precise construction and arrangement of parts herein described, and illustrated in the accompanying drawings, but may make such changes in the details of construction as will be permissible by the scope of the appended claims.

What I claim, and desire to secure by Letters Patent, is—

1. A packing comprising a plurality of packing-rings, arranged side by side within the packing-box or gland, each ring being composed of three sections, two of which are of

rectangular form and with one beveled edge, the beveled edges constituting, when the rectangular sections are joined, a V-shaped groove between their adjacent faces, the third section being of triangular form and fitting in said V-shaped groove, a covering of fibrous material, said rings being so arranged in the packing-box or gland that the flat sides of the rectangular sections will face the inner wall of the gland and the surface of a rod passing therethrough.

2. In a packing, the combination of three sections of solid material, two of which are of rectangular form, each having one of its inner corners beveled off, a third triangular section fitting between the said beveled corners of said rectangular sections, a substantially rectangular braided section of fibrous material arranged adjacent said rectangular sections, and a braided covering of fibrous material.

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

JOHN H. BRICKER.

Witnesses:

ROSALIND M. PEITZ,
M. A. SCHELL.