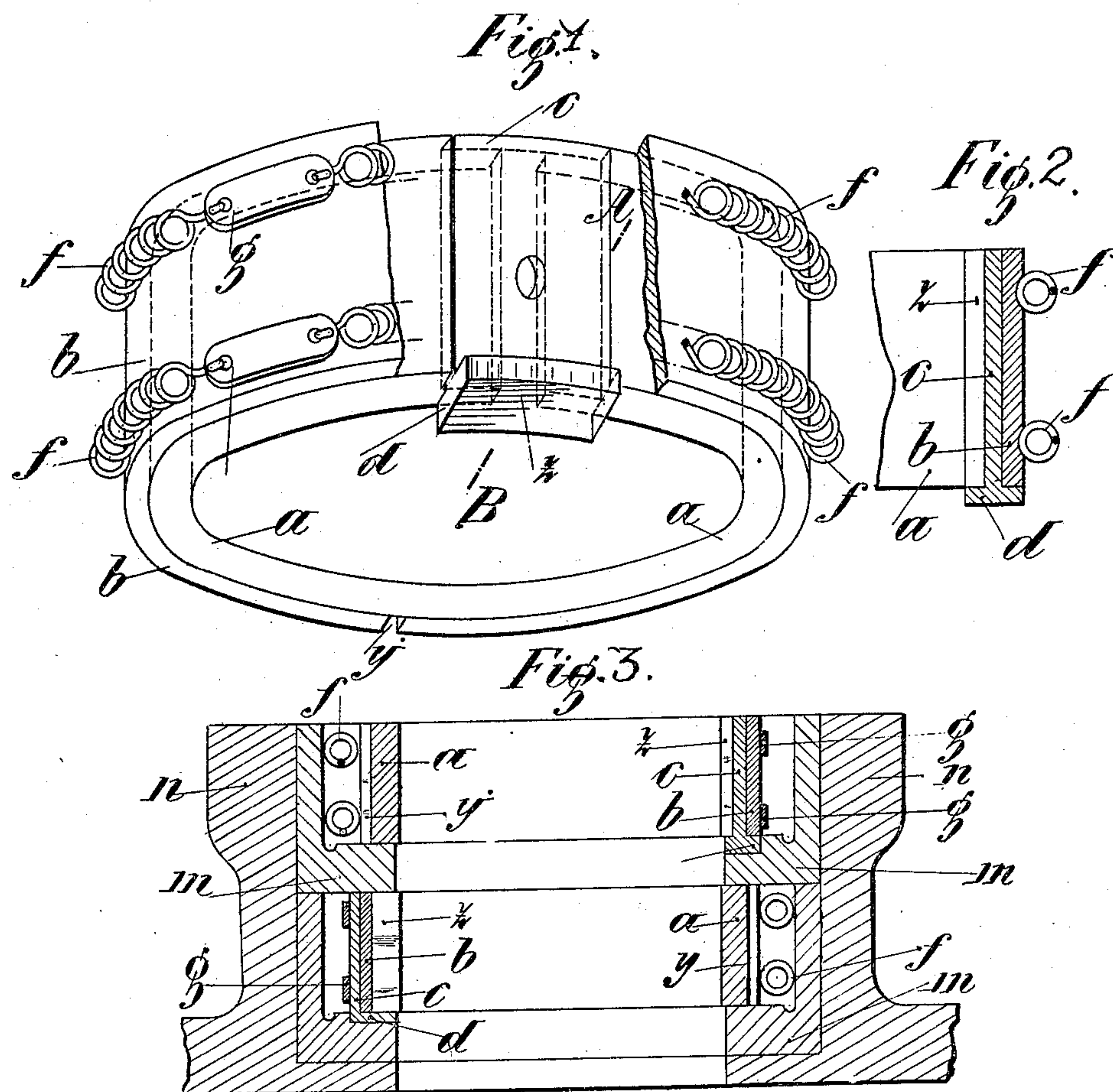


No. 793.616.

PATENTED JUNE 27, 1905.

A. SIEMS.
METALLIC PACKING.
APPLICATION FILED DEC. 7, 1904.



Witnesses.
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UNITED STATES PATENT OFFICE.

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METALLIC PACKING.

SPECIFICATION forming part of Letters Patent No. 793,616, dated June 27, 1905.

Application filed December 7, 1904. Serial No. 235,874.

To all whom it may concern:

Be it known that I, ALBERT SIEMS, a citizen of the Empire of Austria-Hungary, residing at 4 Czerningasse, Vienna, Austria-Hungary, have invented certain new and useful Improvements in Metallic Packings, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to that class of metallic packing in which cut rings are employed having elastic bands or springs around their circumference for the purpose of pressing them tightly against the rod.

My invention has for its object a device for covering the open slit of such rings on that side facing the steam. In the annexed drawings this device is shown as applied to metallic packing-rings.

Figure 1 represents in perspective view a packing-ring fitted with my improvement. Fig. 2 is a section on the line A B of Fig. 1. Fig. 3 shows in vertical section a stuffing-box containing such rings.

As well known, the slit upon the circumference of cut packing-rings is kept closed by a band encircling the ring, which is also cut, but whose slit does not correspond with the slit of the ring. My improved device for covering the slit in that face of the ring which is turned toward the steam consists of a small metal plate attached to one end of the ring and overlapping the slit.

In the annexed drawings, *a* is the ring, *z* is the slit, *b* is the cut band, and *y* is the slit of the latter.

c d represents my improved covering-plate. This plate *c d*, which is shaped to fit the outside surface of the ring *a* and which is attached to one end of the ring near the slit *z*, is on that face of the ring which is turned toward the

steam bent at right angles, so that this bent part *d* lies closely against the face of the ring and covers the slit *z* on that side. The ring *a* is countersunk to receive the plate *c*, as shown in Fig. 1, and the band *b* covers the plate *c*.

Fig. 3 shows how the rings here described are placed in the stuffing-box. The rings *a* are not placed loosely into the stuffing-box, but are held by rings *m* of angular cross-section, which are placed into the stuffing-box one on top of the other and which hold the rings *a* between their flanges. These flanges have recesses for the reception of the projecting parts *d* of the plates *c*.

Having now described my invention, what I claim, and wish to secure by Letters Patent, is—

In a piston-rod packing in combination, an inner ring of hard metal and an outer ring covering said inner ring, the meeting ends of said rings being diametrically opposite to each other, the outer ring having a transverse shallow groove in its convex surface, approximately over the meeting ends of the inner ring; a plate adapted to fill out said groove and having a flange on the steam-pressure side, overlapping the edges of both the outer and inner ring, thereby covering the edge of the meeting ends of the inner ring; and springs around said rings, pressing the plate tightly into the groove substantially as described and for the purpose set forth.

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

ALBERT SIEMS.

Witnesses:

FRIEDRICH BINDER,
ALVESTO S. HOGUE.