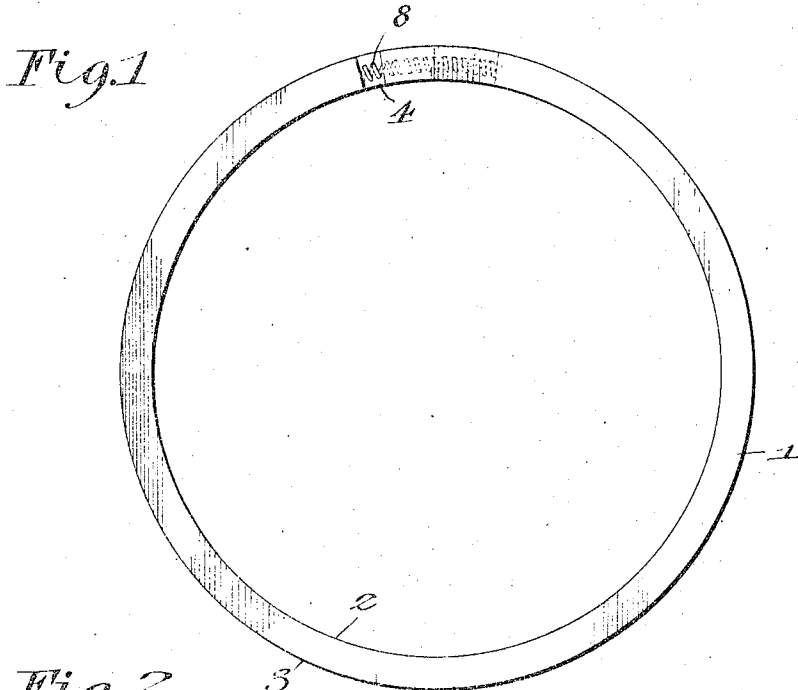
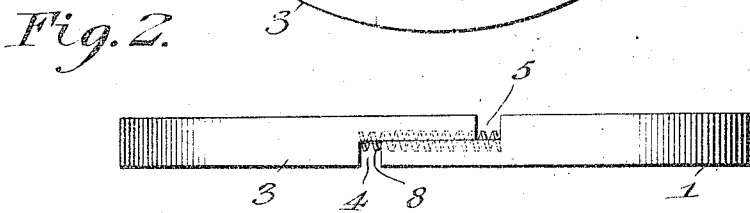
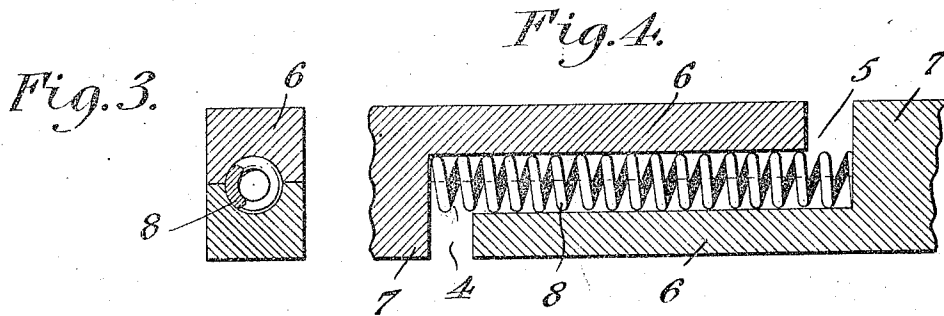


M. J. PETERS.
 PACKING RING.
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1,211,344.

Patented Jan. 2, 1917.



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MATTHEW J. PETERS, OF ST. LOUIS, MISSOURI.

PACKING-RING.

1,211,344.

Specification of Letters Patent.

Patented Jan. 2, 1911.

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To all whom it may concern:

Be it known that I, MATTHEW J. PETERS, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in Packing-Rings, of which the following is a specification.

This invention relates to packing rings the object in view being to produce a simple packing ring such as is now used in conjunction with the pistons of reciprocary engines, said packing ring embodying novel means for reliably expanding the body of the ring in order that the working face thereof may be yieldingly held in fluid tight engagement with the wall of the cylinder in connection with which it operates.

A further object of the invention is to provide a ring of the class above referred to in which the extremities of the ring have an overlap of such nature as to render the ring as a whole substantially leak proof.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts, herein fully described, illustrated and claimed.

In the accompanying drawing:—Figure 1 is a plan view of a ring embodying the present invention. Fig. 2 is an edge view thereof showing the lap joint. Fig. 3 is a cross section through the lapped ends of the ring. Fig. 4 is a longitudinal section through the same.

The ring is of the split variety and the body of the ring may have its outer and inner faces 2 and 3, respectively either concentric or eccentric to each other as may be desired. One extremity of the body of the ring is rabbeted or cut away at one side as shown at 4 and the other extremity of the ring is rabbeted or cut away at the opposite side as shown at 5, said rabbets extending substantially half way through the body of the ring so that when the rabbeted extremities overlap each other, the entire ring will be of uniform thickness throughout. Each of the rabbeted extremities of the ring is formed in the meeting face thereof with a half round groove or seat 6 extending longitudinally of the ring and terminating in a shoulder 7 in the shape of a half disk.

8 designates a coiled expansion spring which is inserted in the grooves or seats 6 said spring being thus wholly inclosed and concealed and the opposite extremities of said spring bearing against the shoulders 7 and serving to yieldingly press the same apart so as to effect an expansion of the ring as a whole.

By means of the construction above described, the resiliency of the ring may be maintained for the reason that a new spring 8 may be substituted for an old one when the latter has lost its resiliency and this may be done at a very small expense whereas when the ordinary packing ring loses its life or resiliency, it must be thrown away and an entire new ring substituted therefor. The ring as a whole may of course be manufactured in various sizes to suit pistons and cylinders of different diameters and the spring 8 may be increased or diminished in size and strength in accordance with varied conditions and requirements.

I claim:—

1. A split packing ring having the extremities thereof rabbeted on reverse sides to overlap each other, the meeting faces of the lapped extremities being formed with grooved seats extending longitudinally of the ring and each substantially semicircular in cross section and terminating in a semi-disk-like shoulder, and a coiled expansion spring contained partly in one seat and partly in the other seat and bearing at its opposite extremities against said shoulders.

2. A split packing ring having the extremities thereof rabbeted on reverse sides to overlap each other, the meeting faces of the lapped extremities being formed with grooved seats extending longitudinally of the ring and each substantially semicircular in cross section and terminating in a semi-disk-like shoulder, and a coiled expansion spring contained partly in one seat and partly in the other seat and bearing at its opposite extremities against said shoulders, said spring being detachably mounted in relation to the ends of the ring and being held in place by reason of its shape and resiliency.

In testimony whereof I affix my signature.

MATTHEW J. PETERS.