

No. 801,273.

PATENTED OCT. 10, 1905.

S. SCHULTZ.
PACKING RING.
APPLICATION FILED APR. 4, 1905.

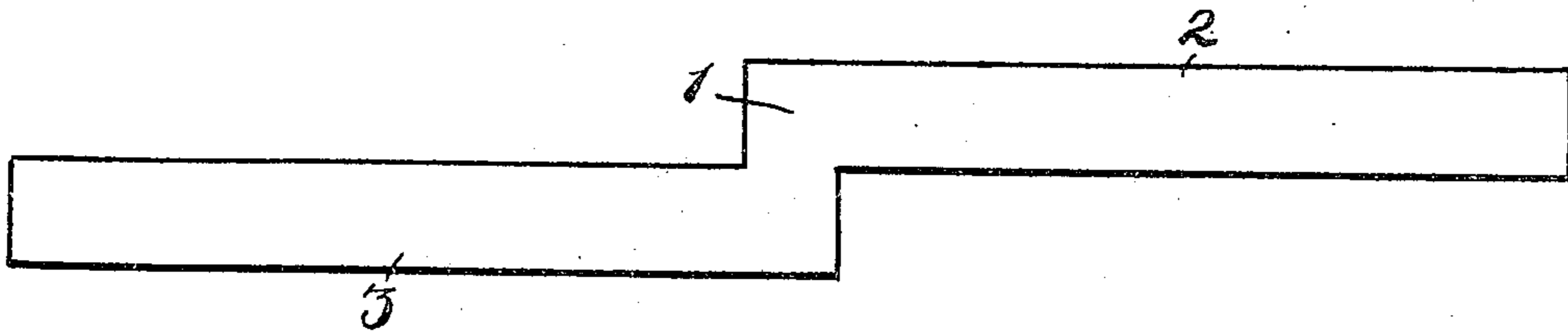


Fig: 1.

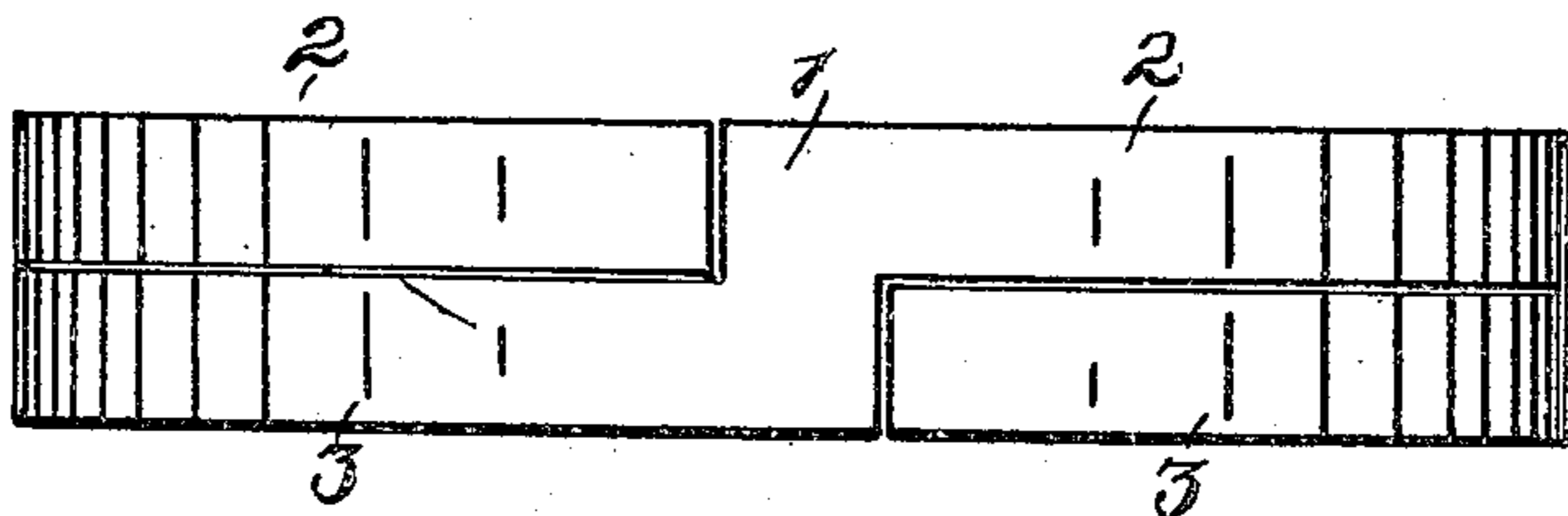


Fig: 2.

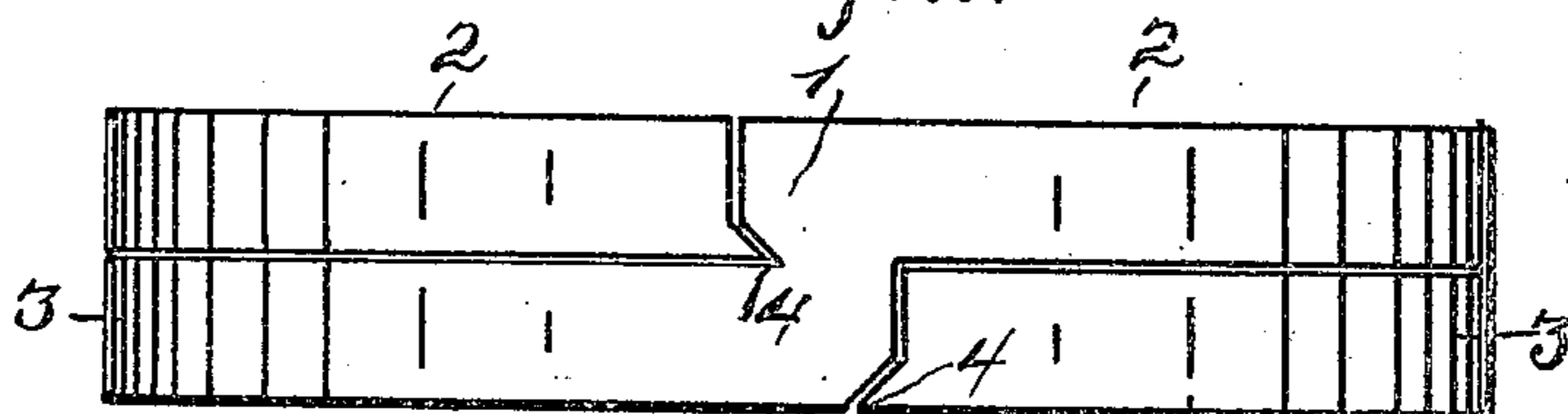


Fig: 3.

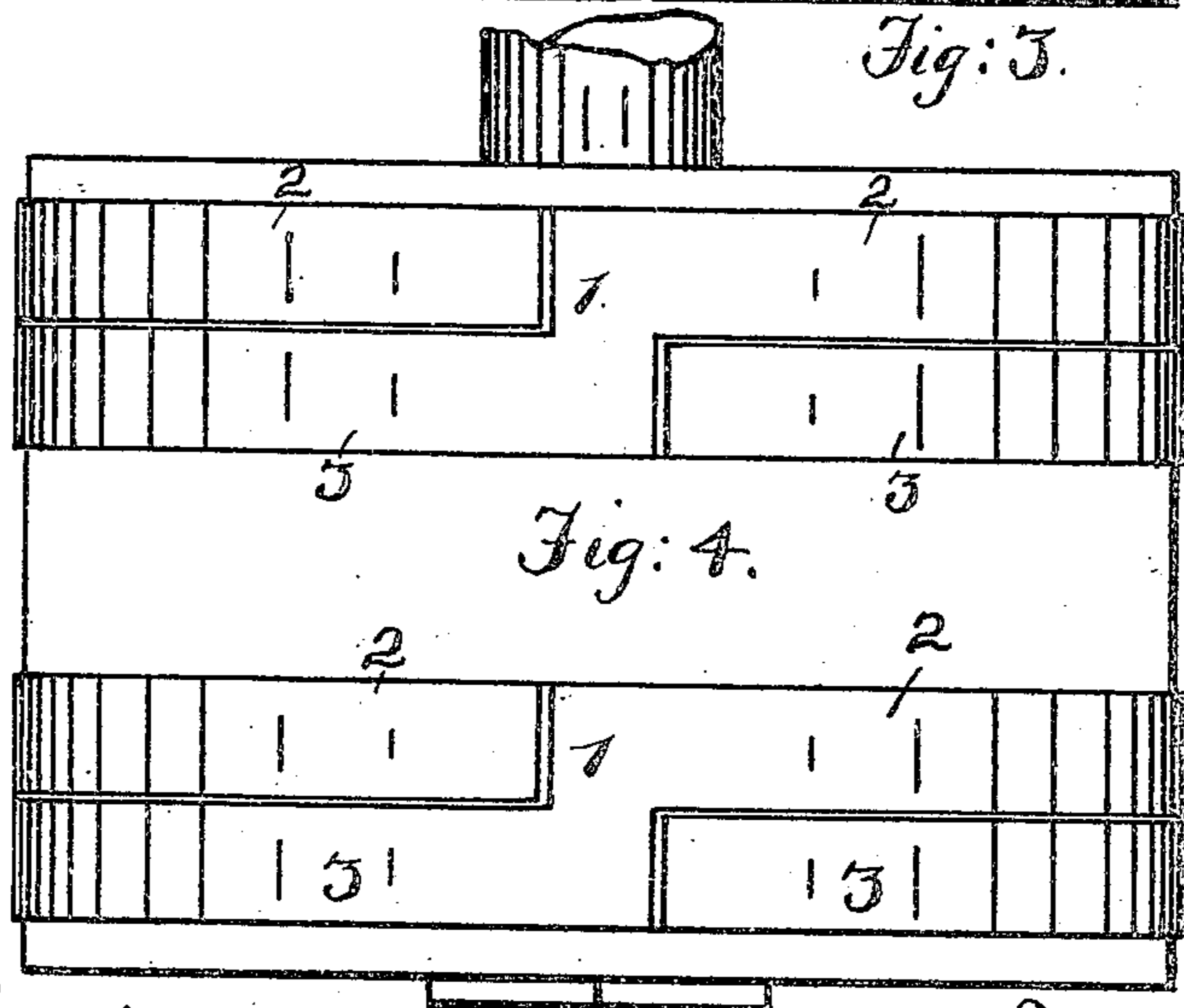


Fig: 4.

Witnesses:
Charles Bank
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UNITED STATES PATENT OFFICE.

STEPHEN SCHULTZ, OF SCHENECTADY, NEW YORK, ASSIGNOR OF ONE-HALF TO CHARLES BANK, OF SCHENECTADY, NEW YORK.

PACKING-RING.

No. 801,273.

Specification of Letters Patent.

Patented Oct. 10, 1905.

Application filed April 4, 1905. Serial No. 253,783.

To all whom it may concern:

Be it known that I, STEPHEN SCHULTZ, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State of New York, have invented a new and useful Improvement in Packing-Rings, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates to packing-rings for steam and other cylinders.

In the drawings, Figure 1 shows the automatic expansive or resilient material of the spring extending in a single length in side elevation; Fig. 2, a side elevation of the ring coiled in shape for use; Fig. 3, a similar view showing the ends of the ring shaped in one of various ways to form meeting ends, and Fig. 4 a side elevation of a piston having the ring in operative position on the piston.

The numeral 1 shows a portion of the ring left at its full width and preferably at or about its center, practically one-half the material being removed from the portion 1 to its end, leaving the other or upper half 2, as shown, and practically one-half of the other part removed from the portion 1 to its other end, leaving the under half 3, as shown in Fig. 1. The strip is then coiled or formed into a circle, as seen in Fig. 2. The ends of 2 and 3 where they meet the full-width portion 1 may be formed in any desired configuration, and, as shown in Fig. 3, may have an angular end entering angular openings in 1, forming an irregular joint, as seen at 4.

This packing-ring has, among others, the advantage that its expansion as it presses outward against the inner surface of the cyl-

inder is practically uniform throughout its entire length and forms a uniformly-tight joint with the cylinder and is subject to uniform wear throughout, and the ends of the portions 2 and 3 may separate in expansion; but the wide portion 1 prevents any passage of the steam between them.

Having fully described my invention, so that those skilled in the art may know how to make and use the same, what I desire to secure by Letters Patent is—

1. A packing-ring for pistons and similar devices consisting of a ring having resilience, the walls of said ring being separated along a part of the circumference of said ring and having a part of the body of the ring solid, the separated portions being superimposed throughout their length, their ends resting adjacent to the solid portion of said ring substantially as described.

2. A packing-ring for pistons and similar devices consisting of a resilient strip having a portion thereof practically the full width of the strip, the remainder being divided forming separate ends, said strip being formed into a ring, one strip being superimposed upon the other and lying in the same vertical plane, their ends terminating in proximity to the full-width portion substantially as described.

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

STEPHEN SCHULTZ.

Witnesses:

CHARLES BANK,
J. C. MACCULLOCH.