C. E. LUCKE.

METALLIC PACKING RING.

APPLICATION FILED NOV. 18, 1913.

1,148,600. Patented Aug. 3, 1915.

FIG. 1.

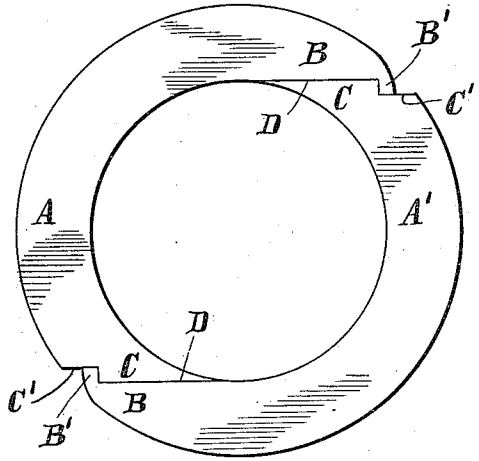


FIG. 3.

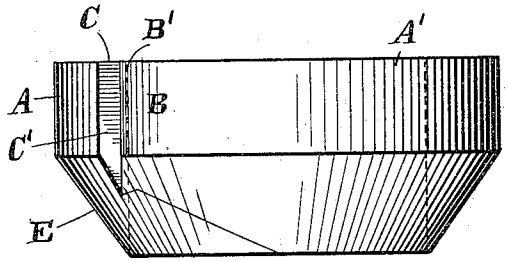


FIG. 2.

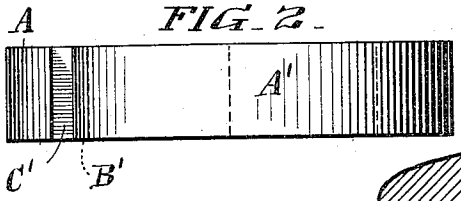
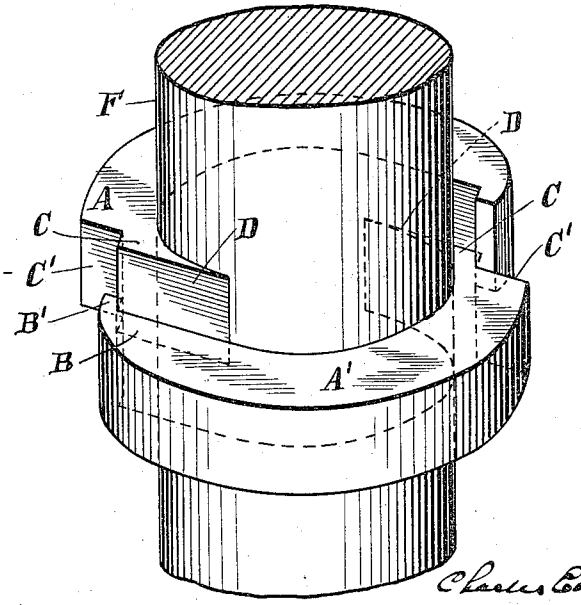


FIG. 4.



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METALLIC PACKING-RING.

1,148,600. Specification of Letters Patent. Patented Aug. 3, 1915.

Application filed November 18, 1913. Serial No. 801,694.

To all whom it may concern:

Be it known that I, CHARLES EDWARD LUCKE, a citizen of the United States of America, residing in the city, county, and State of New York have invented certain new and useful Improvements in Metallic Packing-Rings, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part thereof.

My invention relates to metallic packing rings, such as are used in packing piston rods and the like, and particularly to that type of metallic packing rings which are divided into two segments or sections by substantially parallel cuts substantially tangential to the inner surface of the ring.

The object of my invention is to so construct the ring segments that they will, when assembled upon a rod, interlock with each other and the rod in such a manner as to prevent the lateral movement of either section away from the rod to such an extent as would result in the disengagement of the ring sections from each other.

My invention will be best understood as described in connection with the drawings in which it is illustrated, and in which—

Figure 1 is a plan view of a packing ring constructed in accordance with my invention. Fig. 2 a side elevation of the said ring. Fig. 3 a similar side elevation of a ring having a tapered end but otherwise similar to the ring of Fig. 2, and Fig. 4 a perspective view showing the mode in which the ring sections are assembled on a piston rod.

A and A′ indicate the ring sections and when assembled together make up a complete ring divided by parallel tangential cuts D D into the two segments. This division of the ring leaves each segment with a tapered overlapping end B and a tapered underlapping end C, and under the exigencies of use the ring, as it wears, can maintain close contact with the rod by the movement of the two sections toward each other in lines parallel to the lines D D. B′ is a projecting lug or finger as shown and preferably formed on the end of the overlapping end B and extending down into a notch C′ formed preferably in the outer end of the tapered end C of the other ring segment. By preference both ends of the ring segments are made with the fingers or lugs B′ and notches C′ as shown.

It will be obvious that the ring sections constructed in accordance with my invention can be readily placed upon the rod by moving them laterally against it and then can be made to interengage with each other by moving the sections parallel to the rod until their ends overlap and engage. It is also obvious that when so engaged the rod and ring sections are so interlocked that neither section can be moved away from the rod when first disengaging it from its corresponding section by a longitudinal movement.

I am aware that sectional interlocking rings have been made in accordance with the structure described and shown in the King Patent No. 914,426, but the King rings are intended to operate in a somewhat different manner than the rings separated by parallel tangential cuts to which my invention relates and to which type of ring it is my invention to impart an interlocking feature which they have not hitherto possessed.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is,

1. A metallic packing ring made of two segments separated by parallel tangential cuts and having tapered ends overlapping along said cuts, one of said tapered ends having a projection and one corresponding end having a registering groove to receive said projection whereby said segments are locked against lateral displacement from a rod when assembled upon it.

2. A metallic packing ring made of two segments separated by parallel tangential cuts and having tapered ends overlapping along said cuts, one outer tapered end having a projection at or near its outer end and the corresponding inner tapered end having a registering groove formed at its outer end to receive said projections whereby said segments are locked against lateral displacement from a rod when assembled upon it.

CHARLES EDWARD LUCKE.

Witnesses:
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E. G. PHAIR,
FREDERICK W. ERB.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."