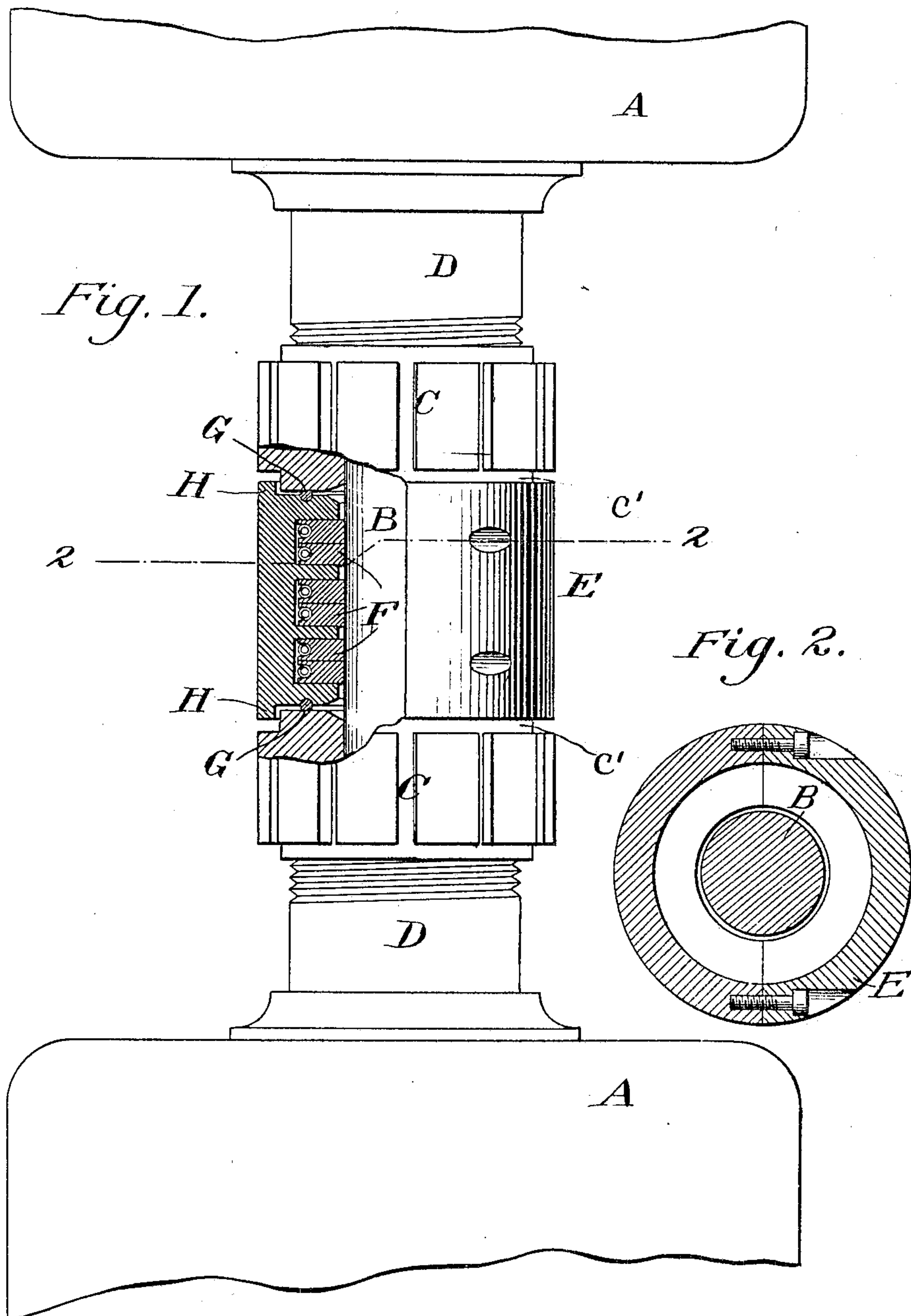


No. 775,194.

PATENTED NOV. 15, 1904.

G. D. ROLLINS.  
METALLIC PACKING.  
APPLICATION FILED NOV. 4, 1903.

NO MODEL.



Witnesses:  
H. B. Hallack  
L. H. Morrison

Inventor:  
George D. Rollins.

By *H. B. Hallack* Atty.

# UNITED STATES PATENT OFFICE.

GEORGE D. ROLLINS, OF PHILADELPHIA, PENNSYLVANIA.

## METALLIC PACKING.

SPECIFICATION forming part of Letters Patent No. 775,194, dated November 15, 1904.

Application filed November 4, 1903. Serial No. 179,788. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE D. ROLLINS, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Metallic Packing, of which the following is a specification.

My invention relates to a new and useful improvement in metallic packing, and has for its object to provide a metallic packing which may be interposed between an air and steam cylinder, so as to pack both cylinders with one packing.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of the connection between the steam and air cylinder with my packing applied thereto, a portion being broken away to show the construction. Fig. 2 is a cross-section taken on the line 2 2 of Fig. 1.

In the drawings, A represents the steam and air cylinders. B is a piston-rod extending between the two.

C represents the usual glands for packing the piston-rod, these glands being threaded upon the packing-box D.

E represents my metallic packing, which is contained in a longitudinally-divided casing, the usual sectional rings F being contained within the recesses in said casing, the two halves of the casing being secured together around the piston-rod by means of transverse screws. In each end of the casing is a ring of copper or other suitable material G, which is embedded in the casing about one-half its diameter.

After the packing has been placed around the piston-rod the glands C are secured tightly against the packing on each end, and said glands coming in contact with the soft-

metal rings G will form a tight joint at this point to prevent any air or steam escaping between the glands and the packing. Of course any other form of packing than the metal rings could be used, if so desired.

In order to hold the packing central, an annular flange H is provided at each end of the casing at its periphery, and the circular portion C' of the glands fits inside of these annular flanges.

It will thus be seen that by this construction of packing I am enabled to pack both the air and steam cylinder with one packing, and thus effectually prevent any escape of steam or air from the packing-boxes through which the piston-rod extends.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In a metallic packing for air and steam cylinders, a longitudinally-divided casing adapted to surround the piston-rod between the two stuffing-boxes, packing-rings within the recesses in said casing and held in contact with the piston-rod, packing interposed between each end of the casing and the followers of the stuffing-boxes, which followers are forced in tight contact with said packing, and means for holding the casing centrally and concentric with the piston-rod, as specified.

2. In a metallic packing adapted to be inserted between the stuffing-boxes of the steam and air cylinder, a cylindrical longitudinally-divided casing adapted to surround the piston-rod, packing-rings held within recesses in the casing and contacting the piston-rod, a soft-metal ring interposed between each end of the casing and the glands of the stuffing-boxes between which the packing is clamped, said glands extending into each end of the casing so as to hold said casing central and concentric with the piston-rod, as and for the purpose specified.

3. In a metallic packing adapted to be inserted between the stuffing-boxes of the steam and air cylinder, a cylindrical longitudinally-divided casing adapted to surround the piston-



rod between the two glands of the stuffing-boxes, packing-rings contained within recesses within the casing and contacting the piston-rod, soft-metal rings, one located at  
5 each end of the casing and each being partially embedded in the casing, the glands adapted to be secured tightly against said ring at each end, an annular flange formed at the periphery of the casing and extending  
10 outward from each end, a central circular portion formed in the glands adapted to fit

inside the flanges to hold the casing central and concentric with the piston-rod, as and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses. 15

GEORGE D. ROLLINS.

Witnesses:

MARY E. HAMER,  
L. W. MORRISON.