

No. 775,193.

PATENTED NOV. 15, 1904.

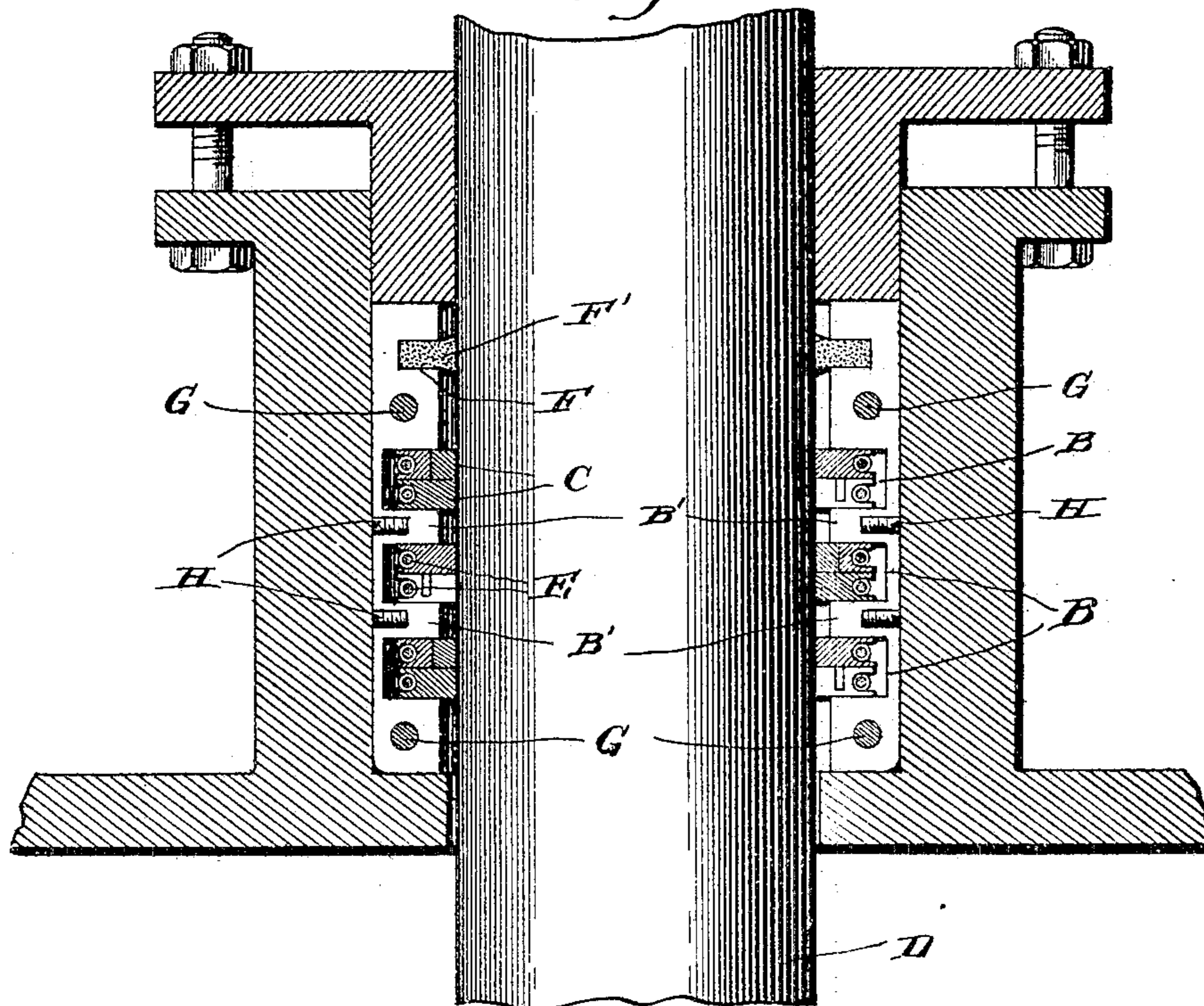
G. D. ROLLINS.  
METALLIC PACKING.

APPLICATION FILED OCT. 14, 1901.

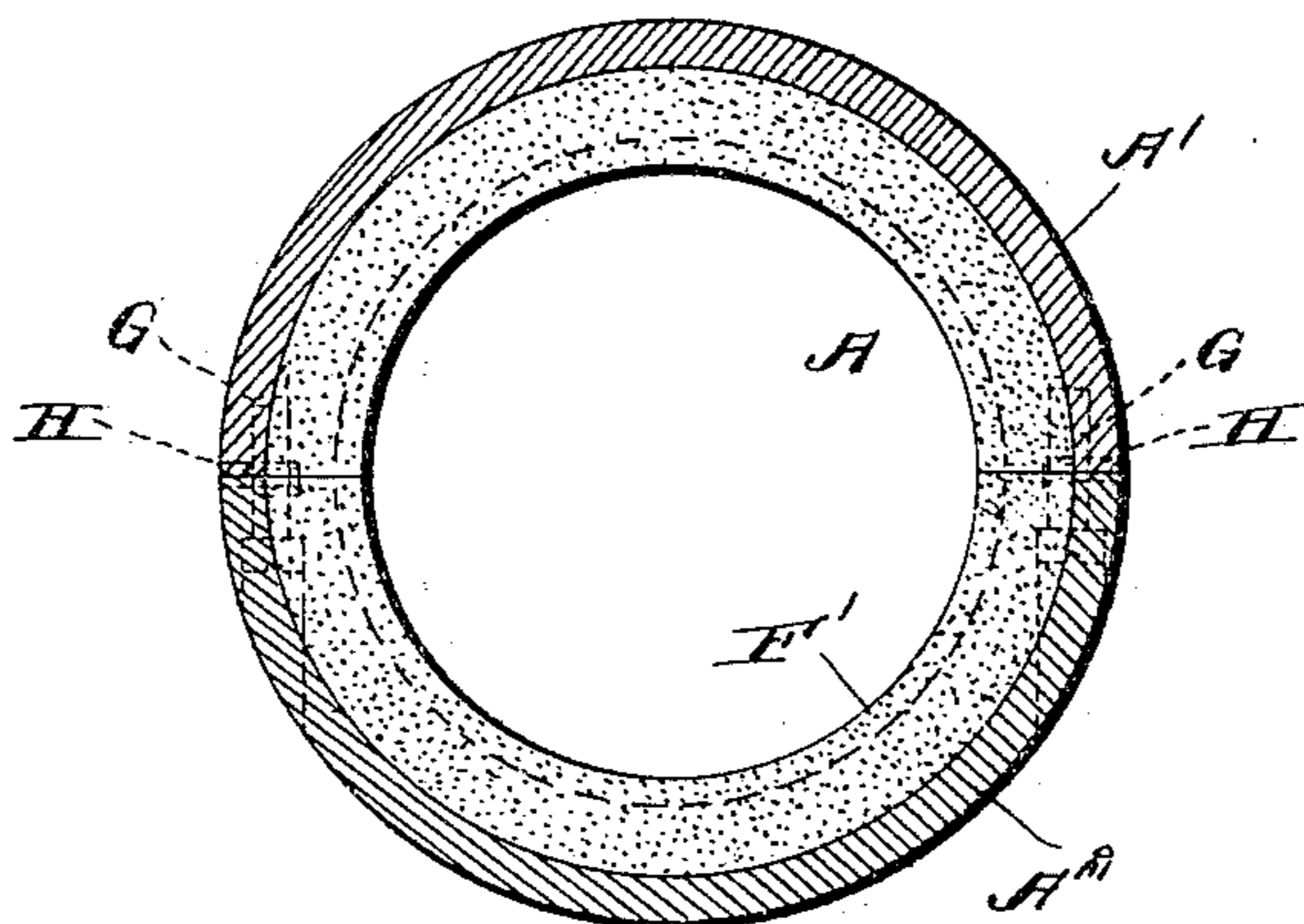
NO MODEL.

2 SHEETS—SHEET 1.

*Fig. 1.*



*Fig. 2.*



Witnesses:

A. B. Hallock.  
L. A. Morrison

Inventor:

George D. Rollins

By

W. Preston Williamson

Atty.

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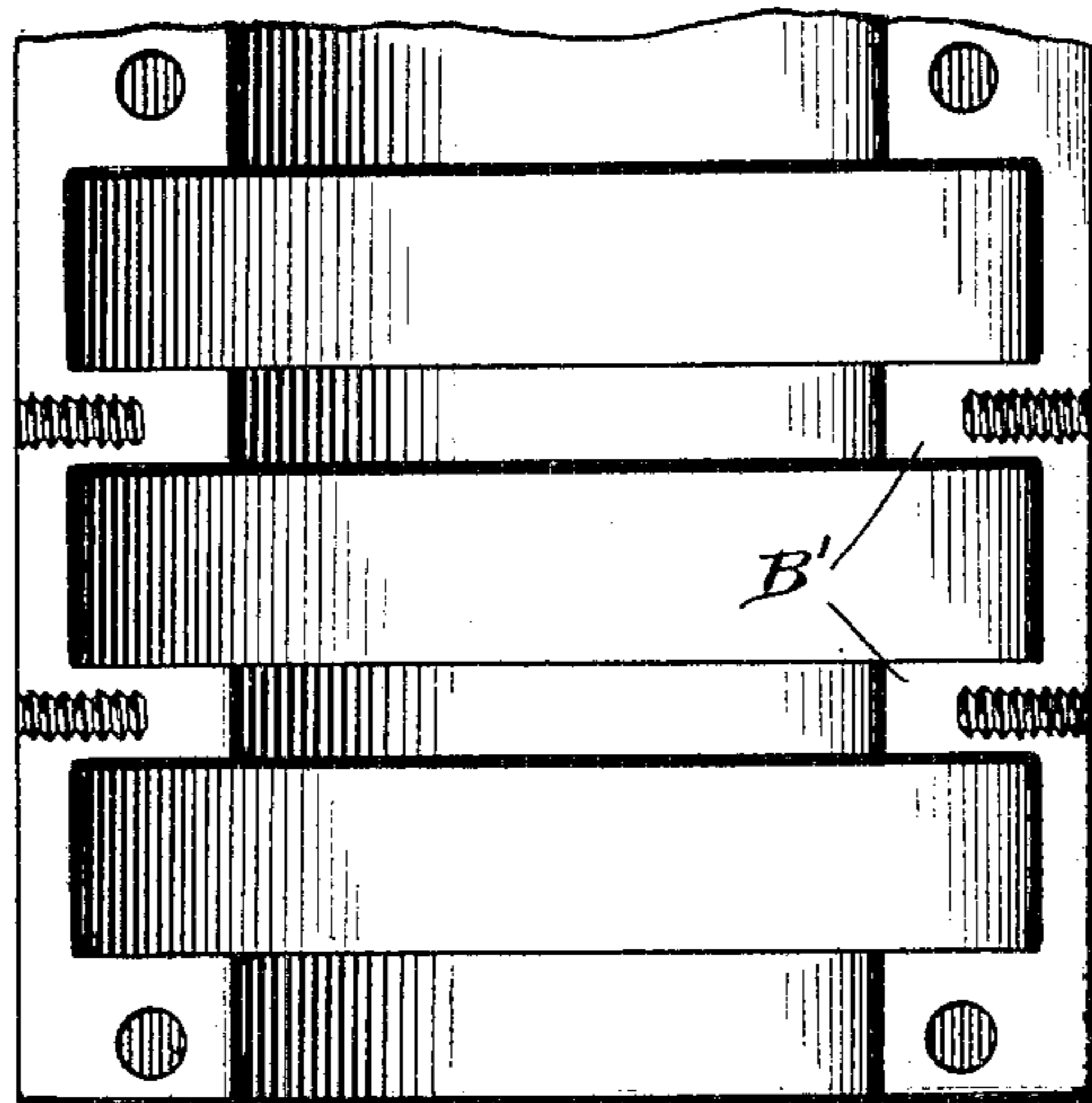
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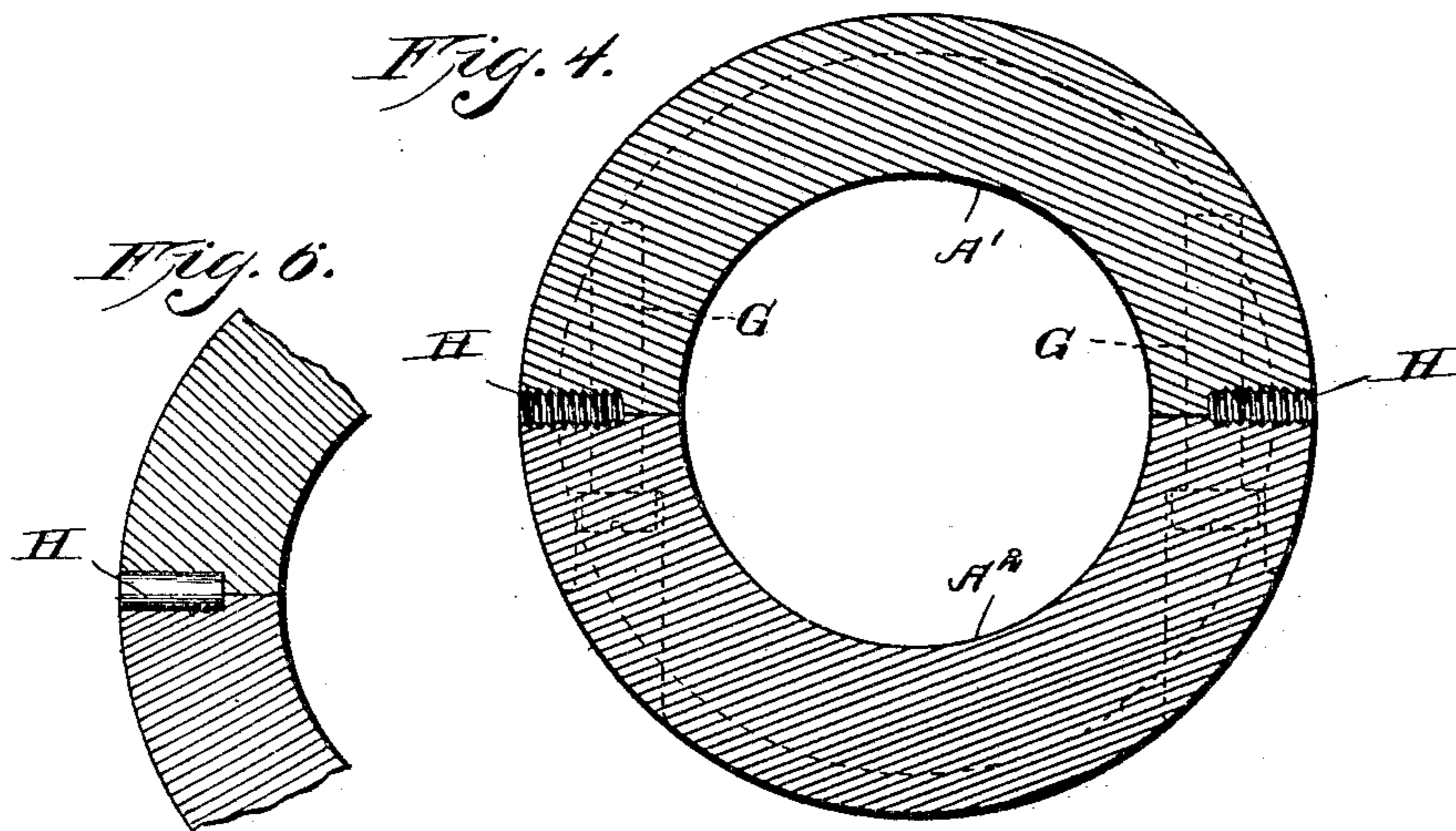
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2 SHEETS—SHEET 2.

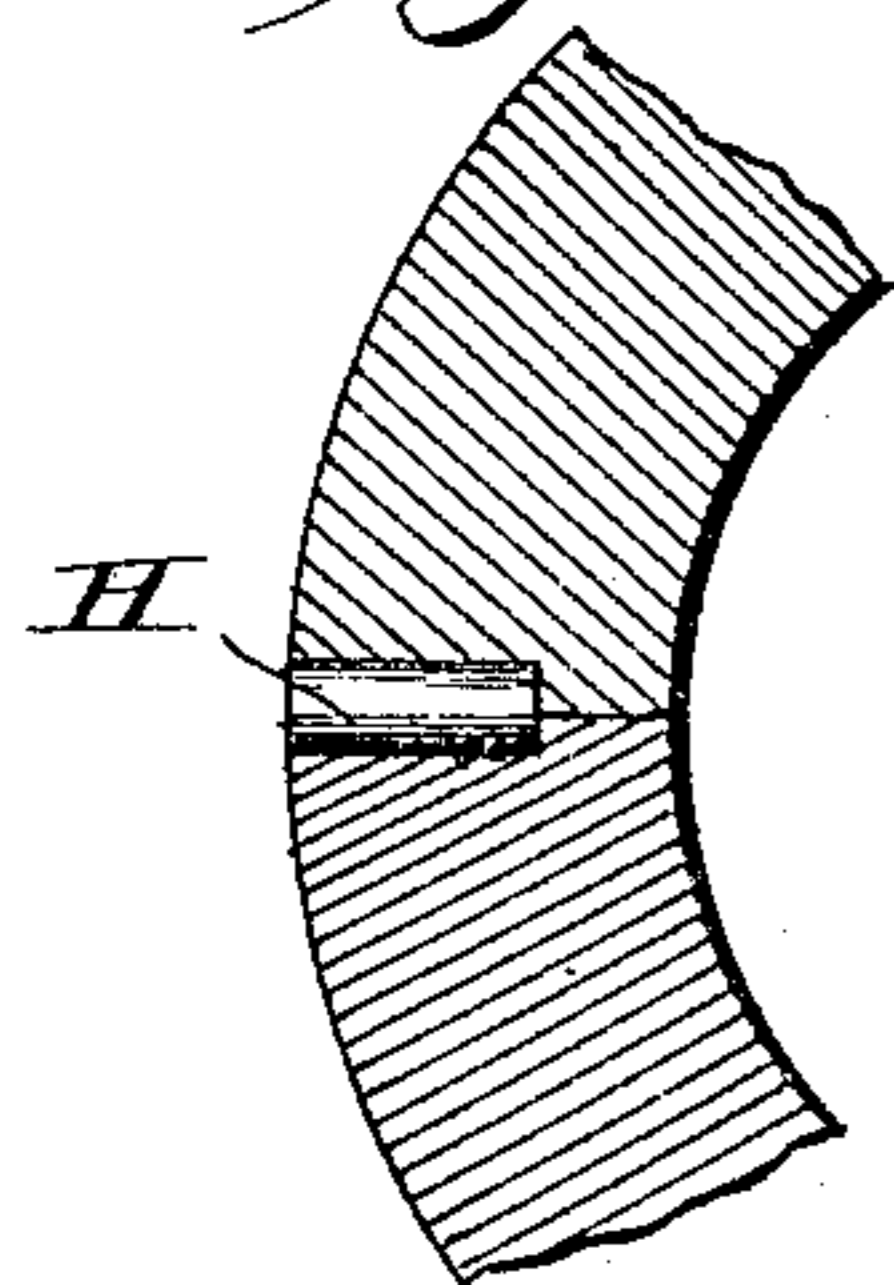
*Fig. 3.*



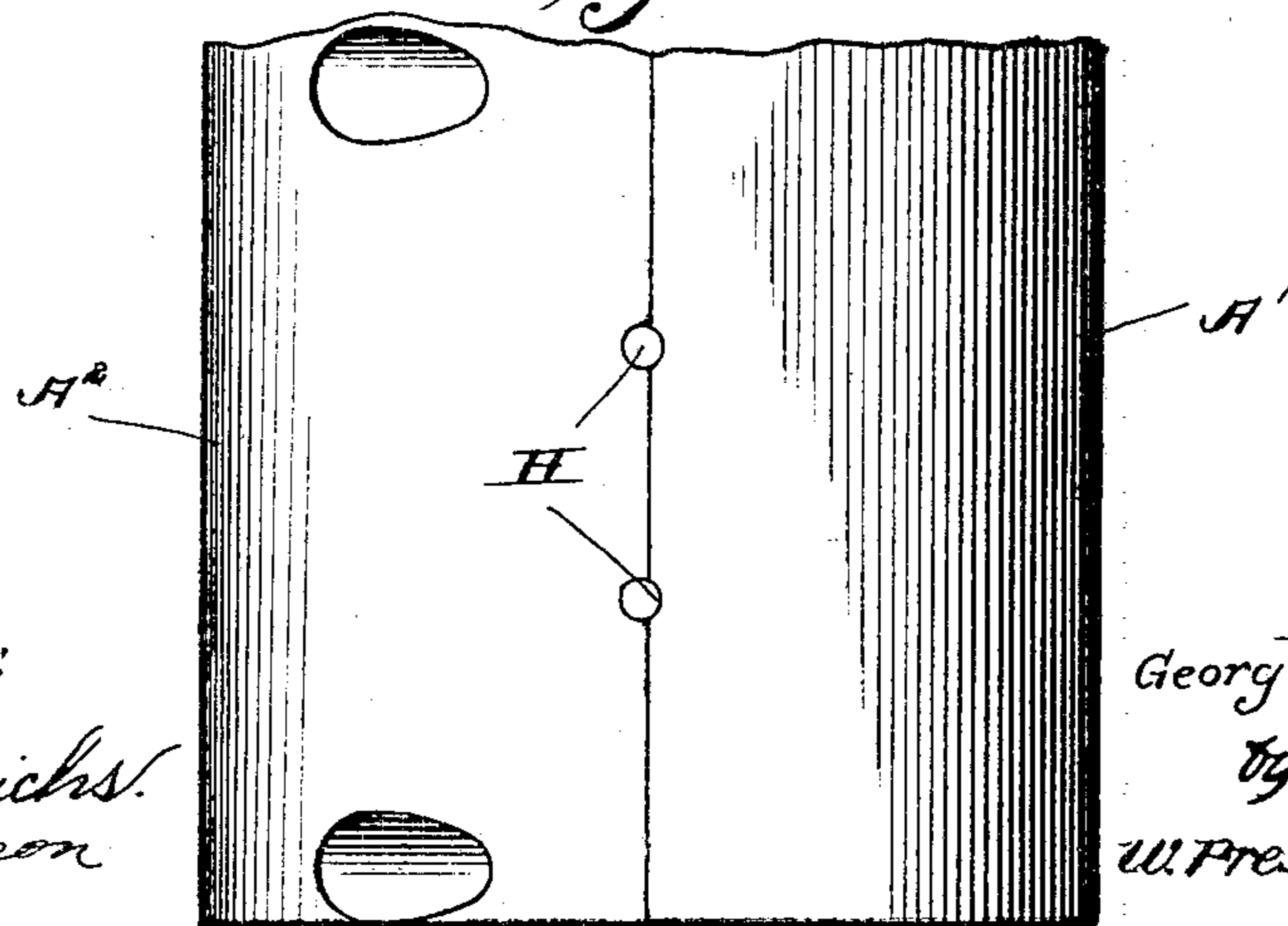
*Fig. 4.*



*Fig. 6.*



*Fig. 5.*



Witnesses:

*S. D. Heinrichs.*  
*L. H. Morrison*

*Inventor*  
*George D. Rollins*  
*by*  
*W. Preston Williams*  
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# UNITED STATES PATENT OFFICE.

GEORGE D. ROLLINS, OF PHILADELPHIA, PENNSYLVANIA.

## METALLIC PACKING.

SPECIFICATION forming part of Letters Patent No. 775,193, dated November 15, 1904.

Application filed October 14, 1901. Serial No. 78,595. (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 certain new and useful improvement in metallic packing, and has for its object to provide means for lubricating the piston-rod and also for cleaning and wiping the waste oil therefrom.

A further object of my invention is to provide means for securing the two sections of the containing-casing of such packing accurately in alinement, so as to prevent the displacement of these sections relative to each other in any direction.

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 claim.

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 sectional view illustrating my improvement; Fig. 2, a section of the metallic packing, taken on the line *xx* of Fig. 1; Fig. 3, an interior view of one half of the casing; Fig. 4, a cross-sectional view of the casing taken through one of the partitions; Fig. 5, a side elevation of the casing; Fig. 6, a cross-section of a portion of the casing, taken through one of the partitions, showing a modified form of the plug.

In carrying out my invention as here embodied, A is the casing, made in two halves A' and A<sup>2</sup>. This casing has a series of annular cavities B formed therein. These cavities are formed to receive the packing-rings C.

D is the piston-rod against which the packing-rings C are held in close contact by means of the spring-rings E, which lie in grooves around the outer circumference of the packing-rings, and these packing-rings being made in segments are thereby held in close contact to the piston-rod D.

F is an annular cavity formed in the casing A, which is adapted to be filled with absorbent material F', such as felt and the like. The inner circumference of this ring of felt is adapted to bear against the piston-rod D. The object of this ring of absorbent material is to gather and absorb the oil, so as to keep the piston-rod lubricated, and a further object is to wipe or clean the piston-rod of any dirt or waste oil. While I have only shown one absorbent ring in Fig. 1, it is obvious that an absorbent ring can be placed at each end of the casing or at any point intermediate.

The two halves A' and A<sup>2</sup> of the casing are secured together by screws G, and in order to aline the casing, so that the several partitions B' of the casing will aline properly, I provide screw-threaded plugs H, which are threaded into screw-threaded holes formed at the intersection of the two halves of the casing, the holes being about three-quarters in one half and one-quarter in the other half, as shown in Fig. 5, for the purpose of causing the screw-threaded plugs H to remain in one half when the two halves are separated. When the two halves are secured together, the rotundity of the plugs will keep the halves in alinement with one another longitudinally, and the threads upon the plugs will prevent the halves from getting out of alinement laterally, thus relieving the screws which secure the halves together from all strain. While I have shown the screw-threaded plugs inserted in the partitions, it is obvious that they may be inserted at any point along the side of the casing offering sufficient space for the insertion of the plug.

In Fig. 6 I have illustrated a modification of the plug in which the screw-threads are dispensed with and a plan plug utilized.

In the drawings I have shown a casing with three ring-sections; but it will be understood that one or more sections may be used, depending altogether upon the amount of packing required.

My improvement is especially adapted to that class of metallic packing shown and described in United States Patent No. 318,400, granted May 19, 1885, to S. D. Thurston, since it prevents the sections of the casing

from being thrown out of alinement when the stuffing-box is tightened, which previous to my invention has been a serious defect in this class of packing, as the slightest displacement  
5 of the sections of the casing tend to bind the packing-rings against the interior partitions, thereby preventing the free action of these rings, which is essential to the perfect working of the device, and my improvement also fur-  
10 nishes means for lubricating the piston-rod D and at the same time removing dirt and waste oil therefrom, which overcomes another serious defect in this class of packing.

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

In a metallic packing-ring, a longitudinally-divided ring-casing having a plurality of equidistant cavities and a suitable cavity near its

top, the said sections having holes at right angles to their sides at their meeting edges, 20 the holes in one section being larger than those of the other section, retaining members seated in the coinciding holes, packing-rings formed in segments lying side by side in the equidistant cavities of the casing, a spring-band en- 25 circling each ring, and a ring of absorbent material lying in the cavity near the top of the casing.

In testimony whereof I have hereunto affixed my signature in the presence of two sub- 30 scribing witnesses.

GEORGE D. ROLLINS.

Witnesses:

L. W. MORRISON,  
H. B. HALLOCK.