

No. 898,066.

PATENTED SEPT. 8, 1908.

G. D. ROLLINS.
METALLIC PACKING.
APPLICATION FILED NOV. 9, 1907.

Fig. 1.

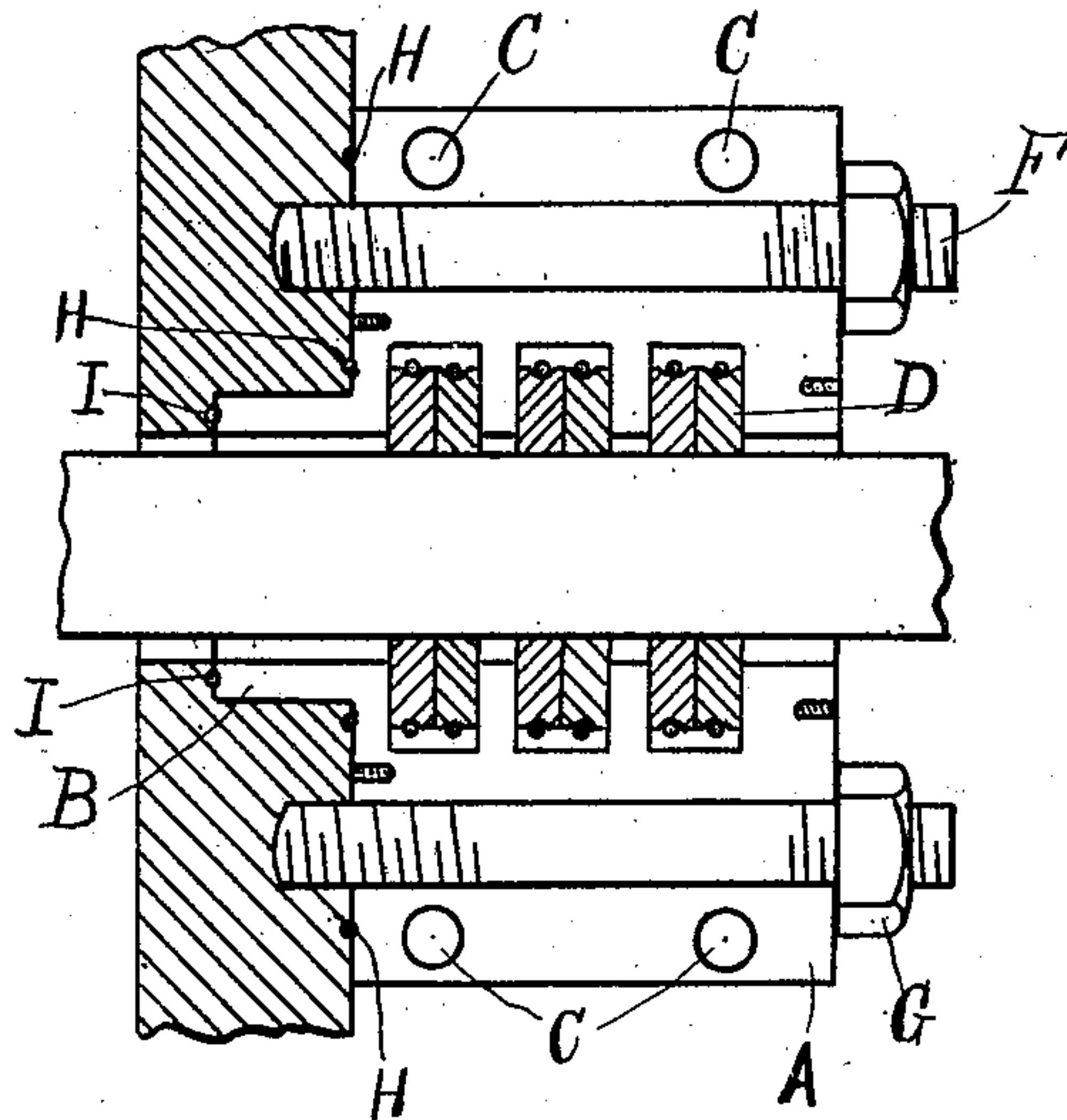
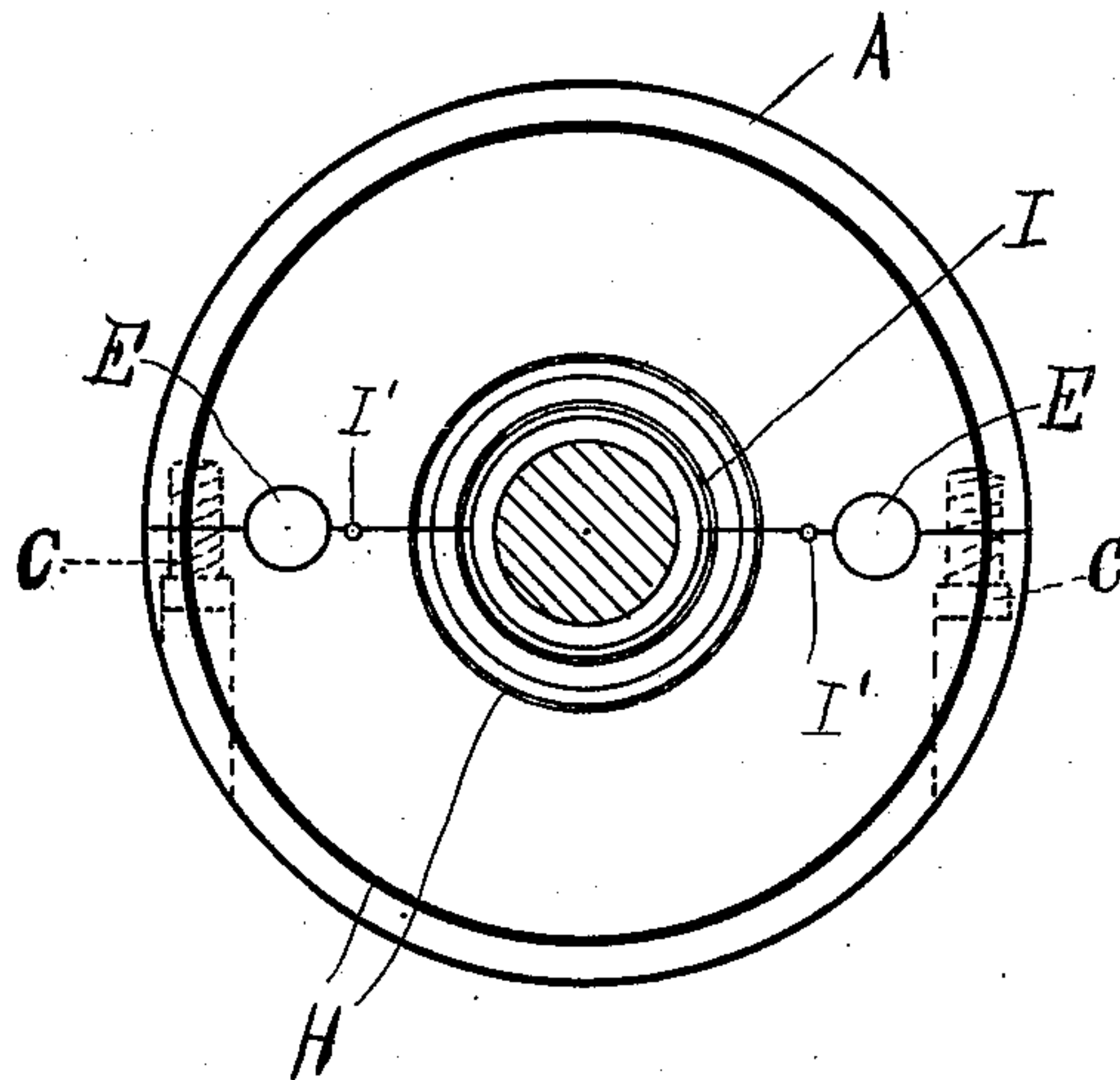


Fig. 2.



WITNESSES

S. M. Gallagher.
J. Williamson

INVENTOR

George D. Rollins

BY

W. P. Williams

ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE D. ROLLINS, OF PHILADELPHIA, PENNSYLVANIA.

METALLIC PACKING.

No. 898,066.

Specification of Letters Patent.

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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, its object being to provide a suitable casing which may be set against the face of the cylinder or steam chest, taking the place of the stuffing box and extending into the recess formed in said cylinder head or steam chest so as to fill the same and prevent the accumulation of water therein.

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, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a section of my improved metallic packing showing a portion of a cylinder head or steam chest to which it is applied, and Fig. 2, a rear elevation of the packing removed from the cylinder showing the piston in cross section.

In many instances the construction of the stuffing boxes of an engine are such as to make it impracticable to place the casing of a metallic packing entirely within said boxes, and to overcome this disadvantage I provide a casing A having a reduced portion or shank B adapted to fit within the recess formed in the cylinder head or steam chest which will serve not only to center the packing but will also fill said recess thus preventing accumulation of the waters of condensation at this point.

The casing is preferably split in two halves secured together by the screws C and having formed therein recesses for the reception of the packing rings D, and in order that it may be secured to the face of the cylinder holes E are formed therein for the passage of the stud

bolts F on which run the nuts G so as to firmly hold the packing against displacement. Packing strips I', extend lengthwise of casing A, between the two halves thereof, these strips being disposed between the bore of the casing and holes E.

While any suitable method may be utilized for making steam tight joints between the surfaces of the casing and the cylinder I have here shown the rings H and I which are composed of compressible material such as lead or copper wire fitted in grooves formed in the casing so that when the latter is bolted into place these compressible rings will be swaged out forming perfect steam tight joints.

While I prefer to make the casing in two halves to facilitate placing the same around a piston rod or valve stem it is obvious that it may be made in one piece if so desired.

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

In combination with a steam chest, a metallic packing embodying a casing formed in two halves and provided with a central bore and with a lengthwise hole on each side of said bore at the line of division between said halves, a packing strip on each side of said bore between the latter and said holes, a reduced extension on said casing, an annular packing ring at the free end of said extension, a pair of spaced annular packing rings disposed on opposite sides of said holes on the inner end of said casing, all of said annular packing rings abutting the steam chest, bolts threaded on each of their ends located in said holes and having one end threaded into said steam chest, nuts on the outer ends of said bolts bearing against said casing, and a plurality of screws for securing the casing halves together, said screws being disposed in said casing beyond said bolts, said nuts being of a size to engage each of the casing halves to thereby bear equally on each.

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

GEORGE D. ROLLINS.

Witnesses:

S. M. GALLAGHER,
EDW. W. ANSTICE.