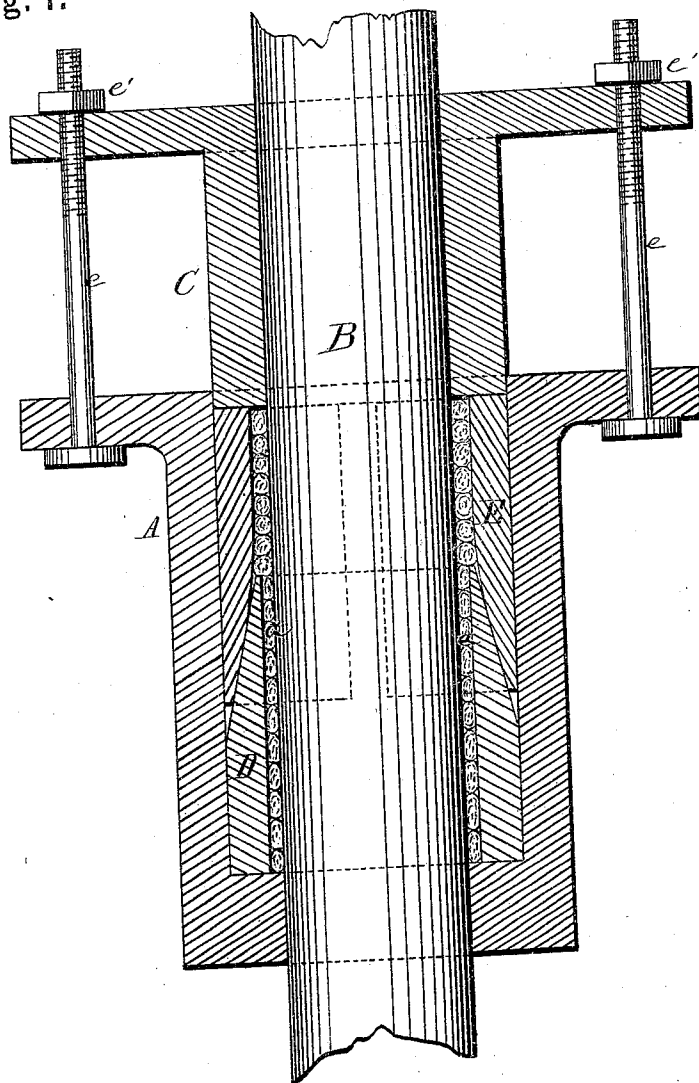


HENRY C. WHITE.
Improvement in Piston Rod Packing.
No. 124,182. Patented Feb. 27, 1872.

Fig. 1.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY C. WHITE, OF NEW YORK, N. Y., ASSIGNOR TO THOMAS JOYCE, OF
BROOKLYN, N. Y.

IMPROVEMENT IN PISTON-ROD PACKINGS.

Specification forming part of Letters Patent No. 124,182, dated February 27, 1872.

To all whom it may concern:

Be it known that I, HENRY C. WHITE, of the city of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in a Circular Metallic Wedge and Bevel Rubber-Ring Packing; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal central section view of my invention.

This invention has relation to the packing of the cylinder-heads of steam-engines; and the novelty consists in the construction and arrangement, within the stuffing-box, of a cylindrical India-rubber wedge, compressed by means of a pair of semi-cylindrical metallic wedges, which are forced through the tightening of the cylinder gland. An internal packing of coiled hemp lines the India-rubber and metallic wedges in order to render the stuffing-box steam-tight.

Referring to the drawing, A represents the cylinder stuffing-box, B the piston-rod, and C the gland. D is a rubber collar resting against the end of the stuffing-box. The upper exterior half or portion of said collar is

beveled or made wedge-shaped. E represents a pair of semicircular metallic wedges having their interior surfaces beveled, so that they pass behind and correspond to the taper of the lower wedge or collar. Between the India-rubber and metallic wedges and the piston-rod is arranged a packing of coiled hemp or other suitable material, *a*, which will render the stuffing-box steam-tight. The gland C is attached to the flange of the stuffing-box by means of the bolts *e* and nuts *e'*, and presses against the upper ends of the wedges E. According as the packing requires tightening the gland is forced further into the stuffing-box, and through the wedges E compresses the India-rubber wedge-collar, thereby accomplishing the desired purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the India-rubber wedge-ring D, semi-cylindrical metallic wedges E, and soft-packing *a*, with the gland C and stuffing-box A, all arranged substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY C. WHITE.

Witnesses:

PHILIP VAN ALSTINE,
ELDORUS VAN ALSTINE,