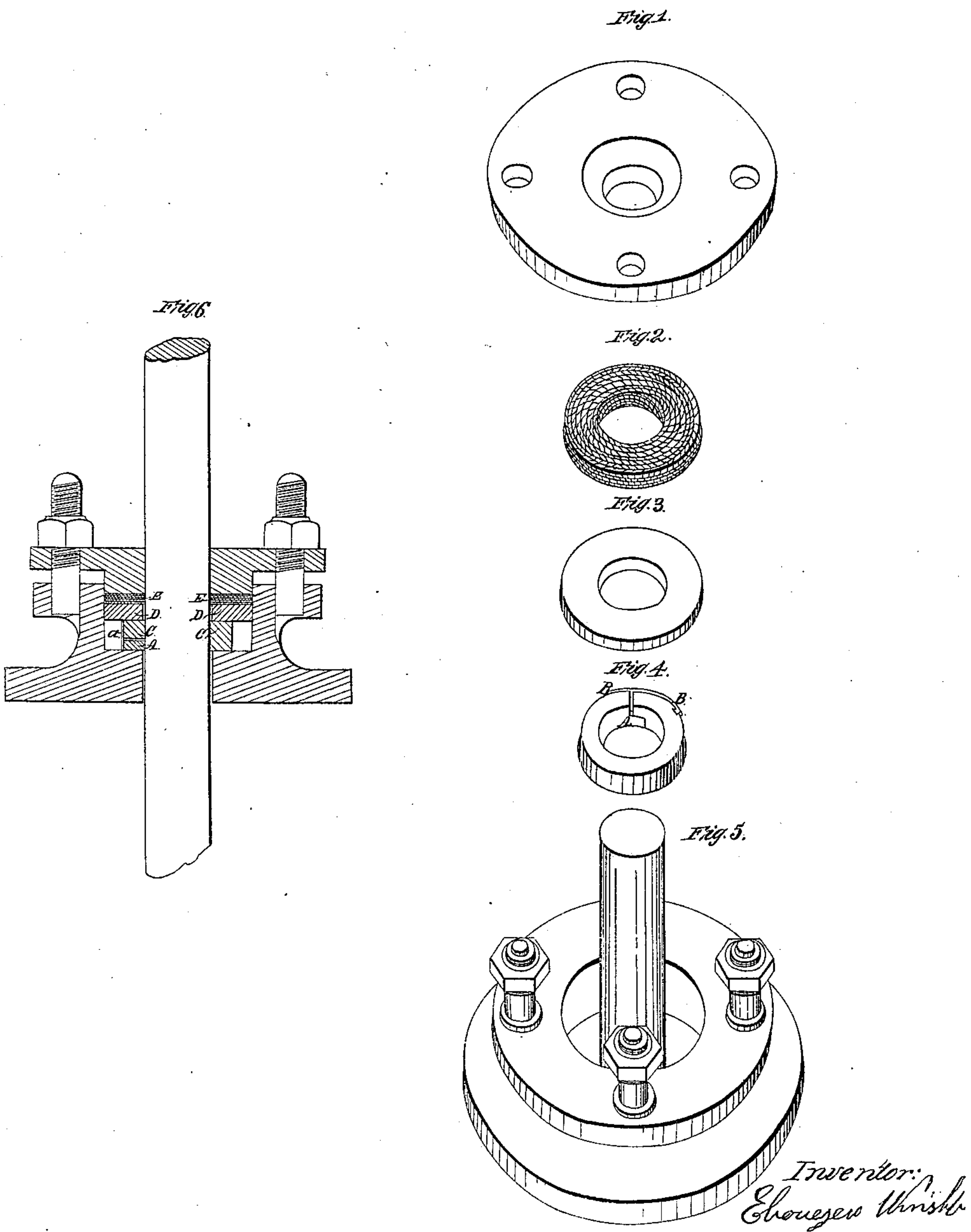


E. Winship,

Piston-Rod Packing.

N^o 9,239.

Patented Aug. 31, 1852



Inventor:
Ebenezzer Winship

UNITED STATES PATENT OFFICE.

EBENEZER WINSHIP, OF NEW YORK, N. Y.

METALLIC STUFFING-BOX PACKING.

Specification of Letters Patent No. 9,239, dated August 31, 1852.

To all whom it may concern:

Be it known that I, EBENEZER WINSHIP, of the city, county, and State of New York, have invented a new and useful Improvement in Metallic Packing for Stuffing-Boxes; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings.

10 By the method heretofore adopted in metallic stuffing boxes, the segments of rings have been forced against the rod to be packed by means of the stuffing box follower; thus the force necessary to hold the rings tight
15 against the rod, as well as down in their place when the rod moves, is acting upon the metallic packing, and creates a friction, tending to hold them from moving laterally, when the rod is working out of line, and if
20 the follower is screwed too tight, as it is likely to be, if great care is not taken, the segments are apt to cut from excessive friction and otherwise become deranged. Now by my improved method, these difficulties
25 are avoided by causing the ring to encircle the rod sufficiently tight in connection with an intercepting tongue and spring plate covering the slots cut in the ring, by a force independent of the action of the follower,
30 and only using this follower to hold the ring in its place in connection with a metallic plate tightly fitting the stuffing box and loosely encircling the rod between which
35 plate and the follower some ordinary packing is used to keep the rod moist and prevent it from cutting and heating, and between which plate and the bottom of the stuffing box, the packing ring is placed so as to allow it to move laterally, sufficient to accommodate itself to the changing position of the
40 rod when working out of line.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

45 Figure 1 is the follower; Fig. 2, ordinary packing; Fig. 3, metallic plate made to fit the stuffing box, the hole in the center being larger than the rod passing through it, so as to allow the rod to move laterally without
50 binding against it. Fig. 4 is the metallic

stuffing box ring, having a hole bored in it a little smaller than the rod so that when put on the rod it encircles it with a force due to the elasticity of the ring, the ring being cut through on one side and having a tongue A, 55 on its lower edge the thickness of the ring, this tongue covering the slot made when the ring is forced open and on the rod. B, B, is a spring plate made the depth of the ring and covering the slots made through the
60 ring. Fig. 5 is the stuffing box, having its bottom inside made flat so that the ring will fit upon it and slide laterally to accommodate the rod. Fig. 6 represents a section through the center of the stuffing box when
65 placed together, in which C, shows the packing ring fitting closely around the rod, and loosely in the stuffing box—A being the intercepting tongue in said ring and α the spring plate covering the slot therein. D, 70 is the plate fitting closely on top of the packing ring, and also tight in the stuffing box, but loosely around the rod, and E any ordinary packing between the follower and the
75 plate D.

Now in putting the whole together the ring is sprung over the rod and put in its place at the bottom of the stuffing box and the plate is put down next with the hemp or other material to retain the lubricating
80 substance to be applied to the rod, and the follower put down last to hold them all in the box.

Having thus fully described my invention what I claim therein as new and desire to
85 secure by Letters Patent, is—

The combination of an elastic ring, made to fit tightly on the rod and loosely in the stuffing box, and having an intercepting tongue and spring plate to prevent the steam
90 from escaping through the slot therein, with the plate D, or its equivalent fitting tightly over the ring and loosely encircling the rod, and the gasket or its equivalent above said plate substantially as described.

EBENEZER WINSHIP.

Witnesses:

JACOB E. HOWARD,
F. E. SICKELS.