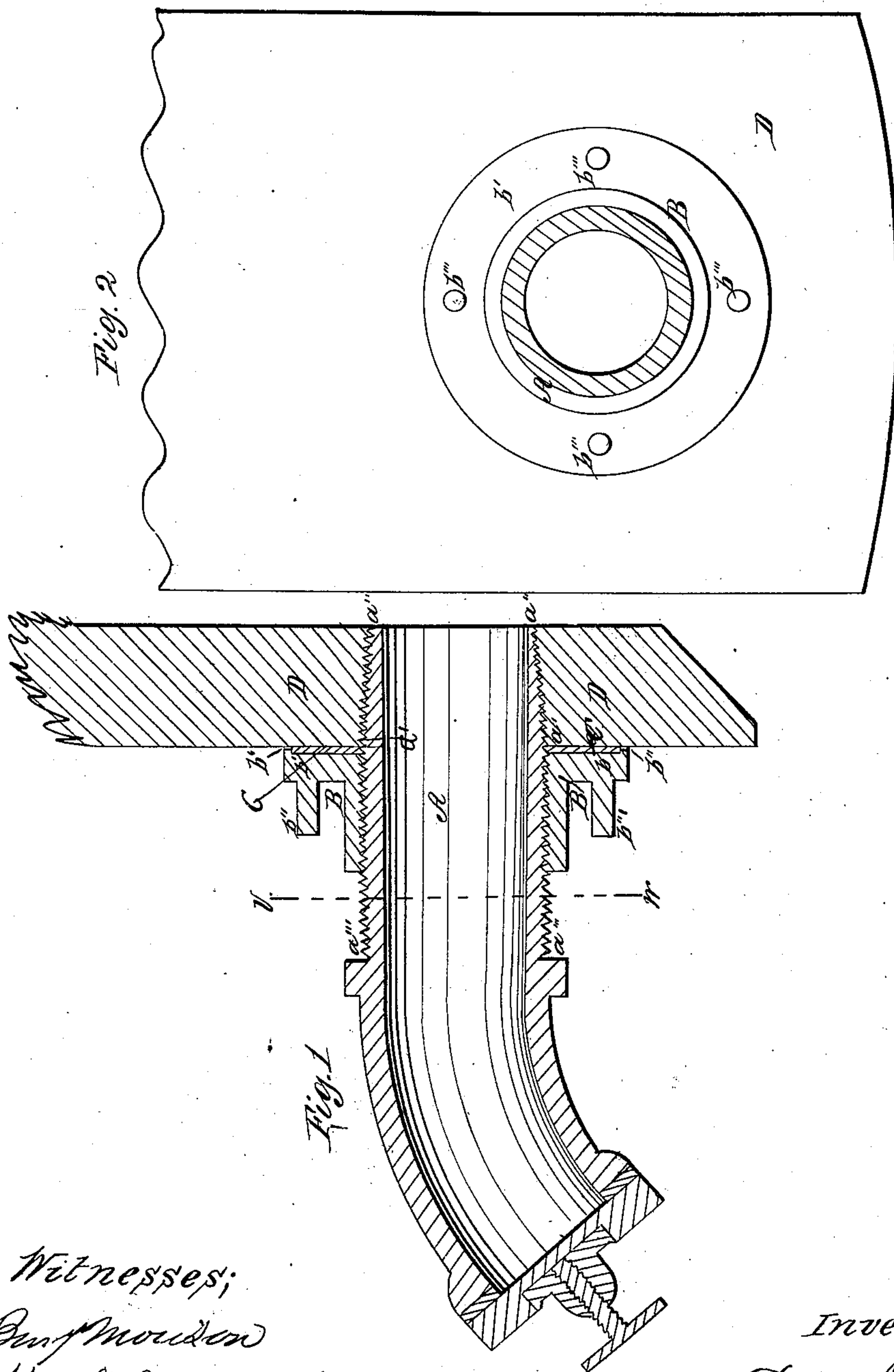


D. P. Smith,
Molasses Gate,
No 81,305, Patented Aug. 18, 1868.



Witnesses;
 Benj Moulton
 Wm. H. Morrison

Inventor;
 David P. Smith

United States Patent Office.

DAVID P. SMITH, OF SALEM, NEW JERSEY.

Letters Patent No. 81,305, dated August 18, 1868.

IMPROVEMENT IN FAUCETS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, DAVID P. SMITH, of Salem, in the county of Salem, and State of New Jersey, have invented a new and useful Improvement in Faucets; 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 accompanying drawings, in which—

Figure 1 is a vertical longitudinal section of an applied molasses-faucet having my said improvement attached thereto, and

Figure 2 a transverse section of the same, on the dotted line *vw* of fig. 1, the said drawings forming a part of this specification, and like letters of reference indicating the same parts when in both figures.

My improvement relates to those faucets which are intended to be screwed tightly into the sides or ends of such wooden vessels as molasses-hogsheads, oil-barrels, &c., and has a twofold object, *i. e.*, the prevention of any leaking around between the inserted end of the faucet and the wood of the vessel, and the rendering the faucet at all times perfectly firm and secure in its position.

My invention consists in the construction and application to a faucet of a screw-cut washer or jam-nut, having a broad face, in combination with an elastic packing, and a straight, cylindrical, screw-cut portion of the barrel of the faucet, substantially as hereinafter described and set forth.

Referring to the drawings, A is the barrel of the faucet; B, the screw-cut washer or jam-nut thereon; C, the elastic packing; and D, a section of the end of a molasses-hogshead, to which the improved faucet is applied.

The end of the barrel A, which is screwed into the wood D, is tapered from *a'* to *a''*, as usual, while the portion which extends from *a'* to *a'''* is made cylindrical, and the screw-threads continued regularly throughout its length, (see fig. 1.)

The washer or jam-nut B is a hollow cylinder, of about half the length which is between *a'* and *a'''* of the barrel A, and is screw-cut around its whole interior, so that it will fit accurately around, and traverse backward and forward the part of the barrel A which is between *a'* and *a'''*, when the said washer or jam-nut B is rotated thereon for the purpose.

The inner end or face of the said washer or jam-nut B is made in the form of a broad, flat flange, *b'*, with a slightly-raised boundary-edge, *b''*, around its face, whilst its outer side is provided with four studs, *b''' b''' b''' b'''*, which serve as ready means whereby it can be conveniently rotated on the barrel A.

The elastic packing C is a flat ring of vulcanized gum, or other elastic packing-material, which fits accurately and closely around the screw-cut cylindrical portion of A, and also against the raised edge, *b''*, of B, and is, in thickness, about twice the height of the said raised edge on the face of B.

In applying this faucet, after a suitable hole has been bored in the wooden vessel for the purpose, the tapered end is to be screwed into the hole a short distance. The washer or jam-nut B, with the packing-ring C attached, is then rotated up into flat contact with the face or surface of the vessel, and then the screwing in of the faucet continued until it has entered the length of the tapered portion *a' a''*, or until the screw-threads thereon have sufficient hold in the wood, when the said washer or jam-nut B is then to be screwed up firmly against the vessel, as represented in fig. 1.

It will be seen that, in thus applying the faucet to a wooden vessel, the washer or jam-nut B will cause its tapered end to enter the hole in the wood perpendicularly, and that, when the same is afterward screwed up tightly and firmly against the said vessel, it will not only prevent any leaking around between the faucet and the wood, but will continue to hold the faucet firmly and securely in position.

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

The washer or jam-nut B, in combination with the elastic packing C and the screw-cut cylindrical portion *a' a'''* of the barrel A, the said parts being constructed and arranged to operate together, when applied to the wooden vessel, substantially as and for the purpose described.

Witnesses:

BENJ. MORISON,
WM. H. MORISON.

DAVID P. SMITH.