

(No Model.)

J. HENN.
BUNG FOR BARRELS.

No. 570,799.

Patented Nov. 3, 1896.

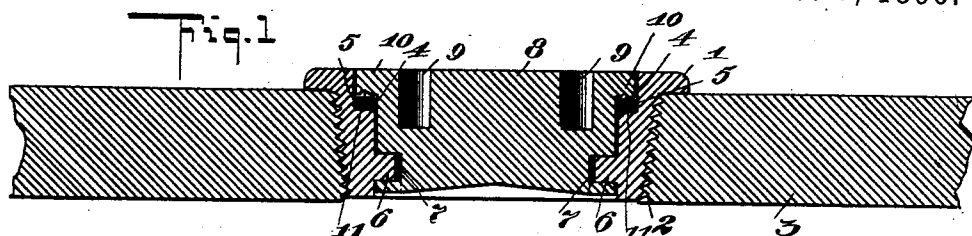


Fig. 2

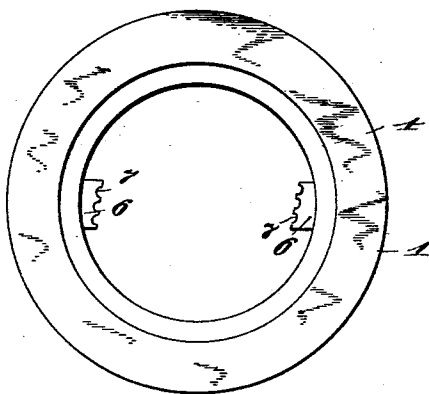


Fig. 3

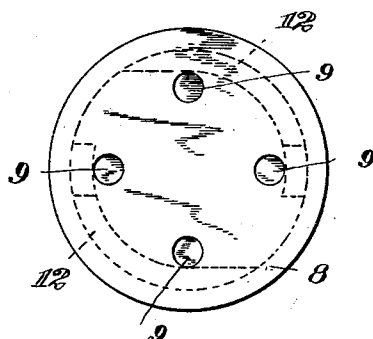
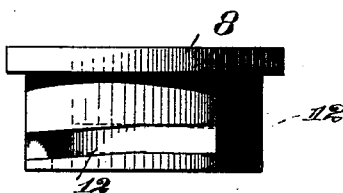


Fig. 4



Witnesses
Edmund A. Thayer
K. A. Han

Inventor,
John Henn.
by John Wedderburn
Attorney.

UNITED STATES PATENT OFFICE.

JOHN HENN, OF SAN FRANCISCO, CALIFORNIA.

BUNG FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 570,799, dated November 3, 1896.

Application filed June 30, 1896. Serial No. 597,614. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENN, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Bungs for Barrels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in barrels, casks, and the like, the invention residing particularly in the means for closing the bung-hole therein.

The object of the invention is to provide a bung or closing-plug for barrels and casks which is easily inserted into place and removed and in which a perfectly tight closure of the bung-hole is made.

The invention consists of a protecting ring or sleeve permanently secured in the bung-hole, having a shoulder on its inner surface, upon which rests a packing-ring, of rubber or other suitable material, and inwardly-projecting lugs having toothed or notched inner ends, and a plug or bung proper adapted to fit within the opening in said ring, having an annular flange near its upper end which fits upon said packing-ring, slots or recesses in its upper surface, by means of which a key may be applied for turning the same, and angularly-disposed peripheral grooves, in which the lugs in said ring are adapted to fit.

The invention also consists in other details of construction and combinations of parts, which will be hereinafter more fully described and claimed.

In the drawings forming part of this specification, Figure 1 is a vertical section showing the parts of my device in place, the barrel or cask being partly broken away. Fig. 2 is a plan view of the protecting ring or sleeve. Fig. 3 is a similar view of the plug or bung proper. Fig. 4 is a side elevation of the same.

Like reference-numerals indicate like parts in the different views.

The protecting ring or sleeve 1 is provided with screw-threads 2 upon its outer surface, by means of which it may be secured in the bung-hole of the cask 3, or the same may be

secured in place by bolts, screws, or in any other suitable manner. On the inner surface of the ring 1 is formed an annular shoulder 4, upon which rests a packing-ring 5, of rubber, soft metal, or other suitable material. Projecting inwardly from the sides of the ring 1, at points near its lower end, are lugs 6 6, whose inner ends are notched or toothed, as shown at 7. Adapted to fit within the ring 1 is a closing-plug or bung proper, 8, having a series of recesses 9 9 in its upper surface, by means of which a key may be applied for turning said bung. It is also provided with an annular flange or shoulder 10 at its upper end, which has a groove 11 at its under surface, the said shoulder being adapted to rest upon and bear against the packing-ring 5. Near the lower end of the bung 8 are peripheral grooves 12, in which fit the lugs 6 on the ring 1, the said grooves being angularly arranged relative to the top surface of the bung 8, as clearly shown in Fig. 1; that is to say, the said grooves rise slightly from their lower end to their top portion and then have a horizontal portion, as clearly shown. A suitable recess is formed near the lower end of the bung 8 to permit the passage of the lugs 6 into said grooves.

As thus constructed, it will be seen that the bung 8 may be readily inserted and removed from the bung-hole, and that in applying the same it is merely necessary to insert a key in the openings 9 9 and turn said bung to the right. The lugs 6, lying within the grooves 12, force the flange 10 down upon the packing-ring 5 by reason of the angular disposition of said grooves. The groove 11 on the under surface of the flange 10 serves to make the joint between the two parts of the device fit more closely, the soft material of which the packing-ring 5 is composed being forced up into said groove.

The notches or teeth 7 upon the inner ends of the lugs 6 are provided for the purpose of preventing the slipping of the bung, the said teeth engaging the inner edge of the grooves 12.

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

The combination with a sleeve or ring permanently secured in the bung-hole of a cask

or barrel, having an internal shoulder thereon
and inwardly-projecting lugs having toothed
or notched inner ends and a packing-ring of
rubber or other suitable material resting upon
5 said shoulder, of a closing-plug or bung proper
adapted to fit within said ring having recesses
in its upper surface within which a key may
be inserted for turning the same, an annular
flange having a groove upon its under surface
10 resting upon said packing-ring and angularly-

arranged peripheral grooves within which
said lugs fit, substantially as and for the pur-
pose described.

In testimony whereof I have signed this
specification in the presence of two subscrib- 15
ing witnesses.

JOHN HENN.

Witnesses:

HENRY FORD,
J. G. NIGGLE.