(No Model.)

E. J. GLENNAN & M. J. REILLY.

BUNG.

No. 550,446. Patented Nov. 26, 1895.

FIG. 1.

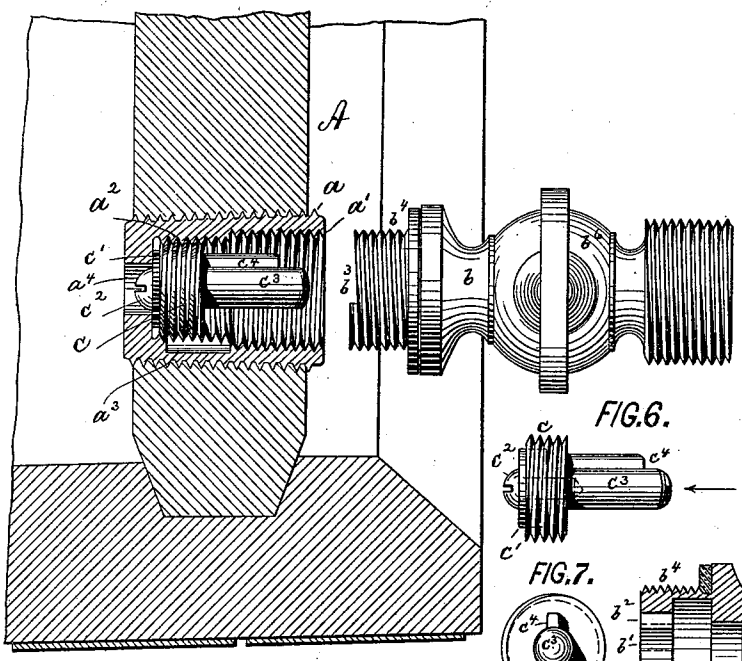


FIG. 2.

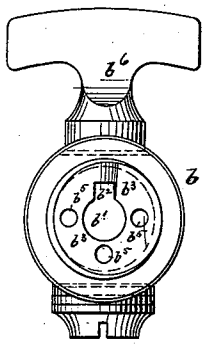


FIG. 6.

FIG. 5.

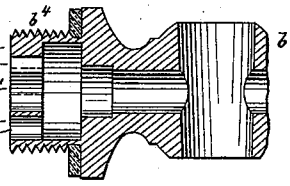


FIG. 7.

FIG. 3.

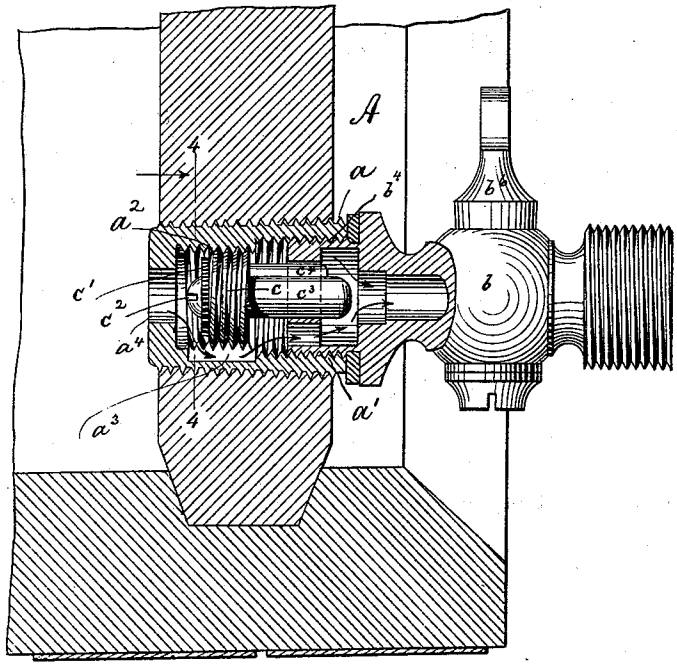
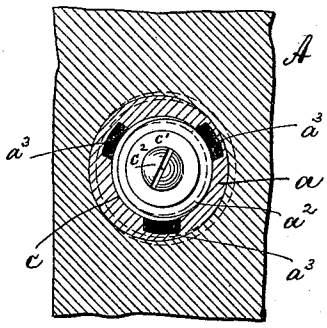


FIG. 4.



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UNITED STATES PATENT OFFICE.

EDWARD J. GLENNAN, OF NEW YORK, AND MARTIN J. REILLY, OF BROOKLYN, NEW YORK.

BUNG.

SPECIFICATION forming part of Letters Patent No. 550,446, dated November 26, 1895.

Application filed April 9, 1895. Serial No. 545,053. (No model.)

To all whom it may concern:

Be it known that we, EDWARD J. GLENNAN, of New York city, and MARTIN J. REILLY, of Brooklyn, New York, have invented an Improved Bung for Barrels, of which the following is a specification.

This invention relates to an improved bung for barrels of the kind in which the opening and closing of the discharge-orifice are effected automatically by the introduction or removal of the faucet.

The invention more particularly consists in the construction of the parts for effecting the engagement of the faucet with the valve-plug that controls the discharge-orifice.

In the accompanying drawings, Figure 1 is a longitudinal section of the bung, showing the valve closed. Fig. 2 is a rear view of the faucet; Fig. 3, a longitudinal section of the bung, showing the valve open; Fig. 4, a section on line 4 4, Fig. 3. Fig. 5 is a longitudinal section of the rear end of the faucet; Fig. 6, a side view of the valve-plug, and Fig. 7 an end view thereof.

The letter a represents the threaded sleeve of the bung adapted to fit into the tap-hole of the barrel-head A. The sleeve a is provided on its inner face with the forward right-hand thread a' and the rear left-hand thread a^2, of which the thread a' is adapted to be engaged by the faucet b and the thread a^2 is adapted to be engaged by a solid valve-plug c. This valve-plug is more fully shown in Figs. 6 and 7, and consists of the threaded body, to the rear face of which a washer c' is attached by means of a screw c^2. At its front the valve-plug is provided with a central forwardly-projecting stem c^3, carrying the laterally-extending feather c^4. The bore of the sleeve a is reduced back of the thread a', and three (more or less) longitudinal ports a^3 are formed in this thickened portion of the sleeve by mutilating or partially cutting away the thread a^2.

When the valve-plug c is in its rearmost position, it closes the rear inlet-orifice a^4 of the bung; but when the plug is drawn forward the liquid flows through said orifice and the ports a^3 into the forward widened bore of the bung and thence into the faucet.

The faucet b, adapted to operate the plug c, is constructed with a central bore b', adapted to embrace the valve-stem c^3, and a communicating groove b^2, adapted to embrace the feather c^4. The rear face b^3 of the faucet is made with a spiral pitch, at the deepest point of which the groove b^2 opens, and thus the faucet may be made to engage and to be gradually screwed over the stem c^3 and feather c^4.

To tap the barrel, the threaded shank b^4 of the faucet is screwed into the threaded section a' of the bung. As soon as the faucet engages the valve-stem and feather it will revolve the valve to draw it off its seat. Thus the liquid will flow, as already described, out of the barrel and into the forward part of the bung, from whence it passes into three, more or less, longitudinal ducts b^5 of the faucet. These ducts are bored around the central perforation b' and deliver the liquid into the forward part of the faucet, to be thence discharged by the cock b^6 in the ordinary manner.

A revolution of the faucet in the opposite direction will withdraw it from the bung and will at the same time screw the valve-plug home upon its seat to close the inlet-orifice a^4. Thus it will be seen that the opening and closing of the valve are effected by the introduction and removal of the faucet in a simple manner, and that the operation of the parts is positive and very reliable.

What we claim is—

The combination of a sleeve having an inner right and left hand screw thread, a rear orifice and rear ducts with a threaded valve plug having a forwardly extending stem and feather, and with a faucet having a central bore, a communicating groove, surrounding longitudinal ducts, and a rear beveled face, substantially as specified.

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MARTIN J. REILLY.

Witnesses:
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