(No Model.)

A. KIRCHNER.

BUSH AND BUNG FOR BARRELS AND KEGS.

No. 262,900. Patented Aug. 15, 1882.

Fig. 1

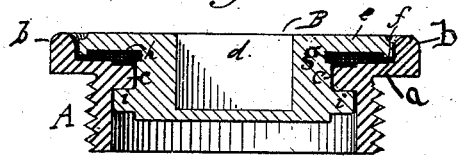


Fig. 2.

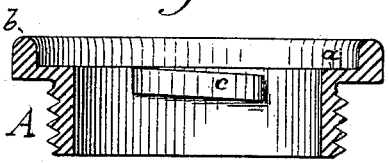


Fig. 3.

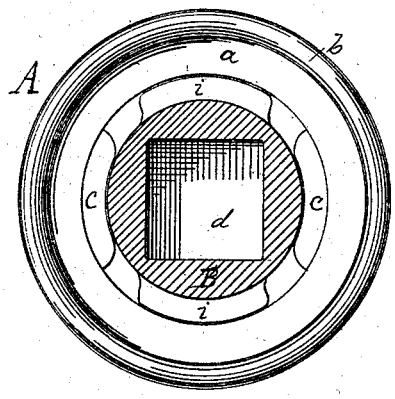
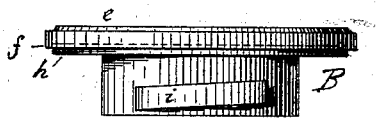


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALBERT KIRCHNER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO JOHN MUCK AND MAX KIRCHNER, OF SAME PLACE.

BUSH AND BUNG FOR BARRELS AND KEGS.

SPECIFICATION forming part of Letters Patent No. 262,900, dated August 15, 1882.

Application filed June 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALBERT KIRCHNER, of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Bushes and Bungs for Barrels and Kegs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improved combination of a bung and bush for barrels, casks, &c., the device being especially intended for beer barrels and kegs that are filled a number of times.

The main points of my invention consist in the combination of a metal bush secured into the bung-hole of a barrel, and having internal screw-lugs, with a metal bung having exterial screw-lugs that will engage with the lugs in the bush, and having a square socket for applying a wrench; also, with a flange having a raised lower rim, so as to form an annular socket for a packing-ring, and protect such packing-ring or elastic washer and prevent its exterior edges from being worn by frequent handling, and also prevent dust or dirt getting between the bung and the washer while such bung is disconnected, the inner edge of such packing-ring being inserted into a circular groove in the bung below such flange for holding it in position therewith, all as more fully hereinafter described and specifically claimed.

In the accompanying drawings, Figure 1 represents a cross-section of the bush and bung locked together; Fig. 2, a cross-section of the bush; Fig. 3, a sectional plan of the bush and bung, and Fig. 4 an elevation of the bung.

Corresponding letters in the several figures of the drawings designate like parts.

A denotes the bush, made of metal, and being an exteriorly screw-threaded ring, that has a top flange, *a*, with a projecting rim, *b*, for forming an annular socket inside of such rim. This bush A is also provided with two inwardly-projecting lugs, *c*, that are diametrically opposite to each other, each being inclined and occupying a little less than one-quarter of an entire circle. This bush is screwed into the bung-hole of a barrel or keg, with its flange bearing close upon or against the stave.

B is the bung, being a circular metal block that has a square socket, *d*, for inserting a wrench. This bung B has a circular flange, *e*, to its upper end, with a shoulder-rim, *f*, formed to the lower edge of its periphery, and an annular groove, *g*, is formed into the bung just below the under face of flange *e* for inserting the interior edge of a packing-ring, *h*, the exterior edge of which butts against the shoulder-rim *f*. This packing-ring *h* may be made of rubber, leather, or any other suitable elastic material, and will rest against the under surface of flange *e*, so as to be interposed between such flange *e* of the bung and the top flange, *a*, of bush A inside of rim *b* when the bung is locked into such bush. The bung B is also provided at its sides with two screw-lugs, *i*, which will pass between and will engage under the lugs *c* of bush A in a manner that, after the bung has been inserted into the bush a quarter-turn with the wrench, will draw it to its seat and will lock it, whereby the packing-ring *h* will be compressed, and will close the barrel hermetically.

Heretofore the packing-ring *h* generally has been attached to the bush instead of the bung, when such packing was apt to be lost or damaged while a barrel was being washed. With my device the packing-ring is secured to the bung in a manner that it cannot drop off of its own accord, and that yet it can be easily replaced by a new packing whenever such becomes necessary.

As will be noticed, the whole device is very simple in its construction, is readily attached to a barrel or keg, and cannot well wear out or get out of order.

What I claim is—

The screw-threaded metal bush A for barrels or kegs, having flange *a* and screw-lugs *c*, in combination with metal bung B, having square socket *d*, screw-lugs *i*, flange *e*, with rim-shoulder *f*, and annular groove *g* for holding packing-ring *h*, all substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

ALBERT KIRCHNER.

Witnesses:

R. G. SCHMID,

H. HUEHL.