

(Model.)

C. KÜHNER.
BUNG AND BUSH.

No. 326,127.

Patented Sept. 15, 1885.

Fig. 1

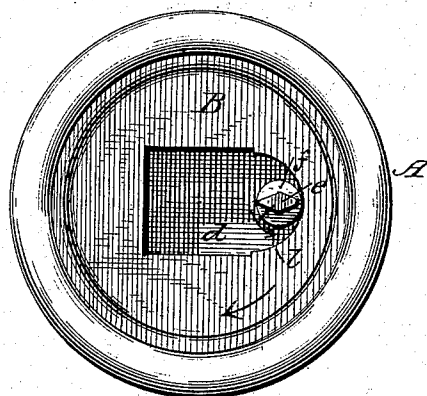


Fig. 2

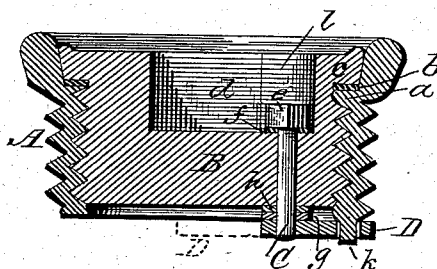
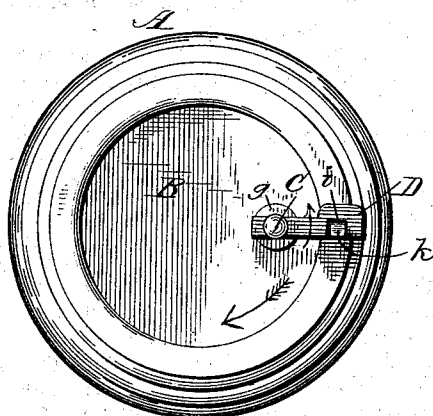


Fig. 3



WITNESSES

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BUNG AND BUSH.

SPECIFICATION forming part of Letters Patent No. 326,127, dated September 15, 1885.

Application filed December 29, 1884. (Model.)

To all whom it may concern:

Be it known that I, CHRISTIAN KÜHNER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Bungs and Bushes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a top plan view of my invention; Fig. 2, a sectional elevation thereof, and Fig. 3 an under side plan view.

The present invention has relation to certain new and useful improvements in the means employed for securely locking the bung to its bush; and it consists in providing a latching device constructed substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the bush, constructed of metal, with screw-threads upon its exterior and interior, and provided with an annular seat, *a*, for a suitable packing-ring, *b*, against which bears the annular rim *c* of the bung B. This bung is also of metal, and has exterior screw-threads, which engage with the interior screw-threads of the bush.

The bung B has a mortise, *d*, upon its upper side to receive a suitable wrench or tool for inserting or withdrawing it from the bush A, and has a vertical bore near its periphery, in which tightly fits a pin, C, but so that it can be turned.

The pin C has an irregular-shaped head, *e*, at its upper end, and between this head and mortised surface of the bung is placed a packing or washer, *f*, to render the bore through which the pin passes perfectly air-tight.

The opposite or lower end of the pin C, which projects below the bung, has rigidly secured to it a key, D, and between this key and under surface of the bung is a collar, *g*, and washer or packing *h*, forming together a tight joint around the pin, and rendering the bung air and water tight around the bore through which the pin passes.

The key D is formed with a notch, *i*, in shape to correspond with the lug *k*, depending from the bush A, the notch of the key engaging therewith when the bung is locked to the bush, as shown in Fig. 3.

The notch in the key may be dispensed with and the key simply formed in the shape of a hook, which would with equal effect prevent the bung from being unscrewed unless the pin was first turned to bring the key in the position shown by dotted lines, Fig. 2.

The mortise *d* in the bung B is extended at one of its sides, as shown at *l*, to make room for the projecting head of the pin C and not interfere with the wrench when inserted in the mortise to unscrew the bung from the bushing, also to admit of a wrench being applied to the head of the pin for turning it.

The head *e* is preferably formed diamond shape, one end being slightly longer than the other, so as to project a short distance over the washer *f*. When the head has its longer end in a position toward the center of the bung, as shown, the key projects beyond the exterior of the bush and strikes against the lug thereon, thus preventing the bung from being unscrewed.

The bung is shown locked. To unlock it, apply a small socket-wrench to the head *e* of pin C and turn the key away from the lug until it is wholly within the bushing A. Then, with a wrench seated in the aperture *d*, turn the bung B in the opposite direction, screwing it out of the bush.

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

1. A bush interiorly threaded and provided with an annular seat and a bung exteriorly threaded to coincide with the interior of the bush, and provided with an annular flange corresponding to the seat in the bush, in combination with a pin carrying a locking-latch to lock the bung and bush together when the flange of the bung is drawn in close contact with the seat of the bush by the threads, substantially as described.

2. The bush A, interiorly threaded and provided with an annular seat and a depending

lug, in combination with the bung B, exteriorly threaded and provided with an annular flange coinciding with the seat of the bush, and a pin passing vertically through the bung, and
5 provided on its upper end with an irregular-shaped head and on its lower end with a latch to engage the lug of the bush, substantially as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHRISTIAN KÜHNER.

Witnesses:

RUDOLPH LEONHART,
LOUIS SPECK.