H. HOLDER.

Bung.

No. 217,287. Patented July 8. 1879.

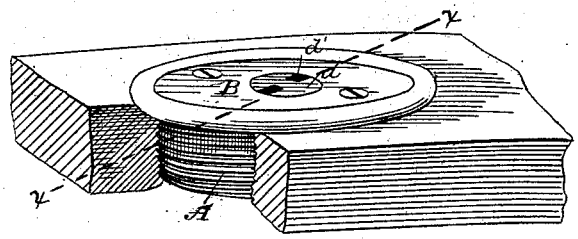

Fig. 1.

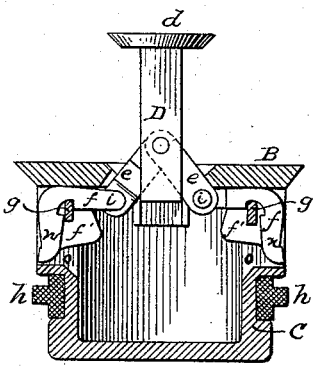

Fig. 2.

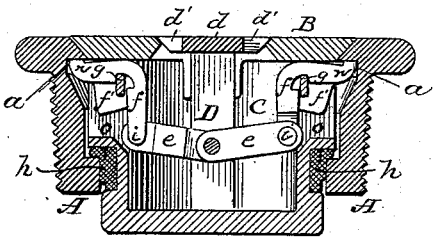

Fig. 3.

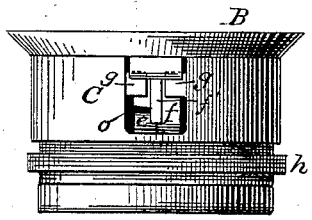

Fig. 4.

Attest:

C. Clarence Poole

R. K. Evans

Inventor:

Henry Holder

by A. H. Evans & Co

Attys

UNITED STATES PATENT OFFICE.

HENRY HOLDER, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN BUNGS.

Specification forming part of Letters Patent No. **217,287**, dated July 8, 1879; application filed May 29, 1879.

To all whom it may concern:

Be it known that I, HENRY HOLDER, of the city of Baltimore and State of Maryland, have invented a new and Improved Bung for Barrels; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the bung and bushing. Fig. 2 is a sectional view of the bung separated from the bushing and the holding devices withdrawn. Fig. 3 is a vertical section through the device on line *x x* of Fig. 1. Fig. 4 is a side view of the fastening device as seen through the bung.

The object of my invention is to provide a cheap and readily-applied bung for beer and other barrels; and it consists in a bushing having a recess around its interior edge, combined with a bung provided with bell-crank-lever catches projecting from its periphery, and operated by a thrust-pin operating in the center of the bung, to throw the lever-catches beyond the dead-point, and thereby fasten the bung.

In order that those skilled in the art may make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the said drawings, A is a bushing set into the barrel, and provided on its interior circumference, near its outer end, with a recess, *a*. The bung B is made to fit into this bushing. This bung is cast hollow, and has a slot, *o*, on each side, in which to provide a space for two lever-catches for securing the bung to the bushing. The bung B is cast hollow and provided at its lower end with a proper packing, *h*, and the center of its upper surface is centrally perforated to secure a plunger-rod, D, provided with a head, *d*, which fits flush in the opening. Pivoted to the plunger-rod are two lever-links, *e e*, which engage with bell-crank levers *f f* at *i i*. These levers are cast with a rib, *f'*, which passes between two lugs, *g g*, cast on the sides of two opposite openings, *o o*, in the bung, and at the angle of the levers they are rounded, as shown, and bear on top of the lugs *g g* as a fulcrum. When the plunger-rod is drawn out of the bung, the links *e e* draw the cam-levers so their ends *n n* lie flush with the side of the bung, as seen in Fig. 2. The bung then being pressed into the bushing until well home, the thrust-rod is forced down until the ends *n n* catch under the rib forming the recess *a*, and passing the levers beyond the dead-point of the cam, the bung is secured.

The head *d* is provided with openings *d' d'*, into which to insert a sharp instrument to withdraw the plunger-rod.

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

The hollow bung B, provided with slots *o o*, thrust-rod D, links *e e*, and bell-crank levers *f f*, in combination with a bushing, A, provided with an offset, *a*, substantially as described.

HENRY HOLDER.

Attest:

R. K. EVANS,

W. F. MORSELL.