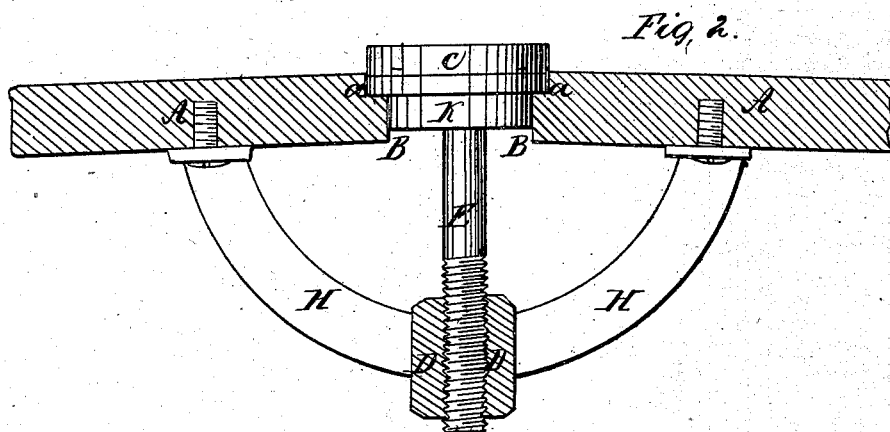
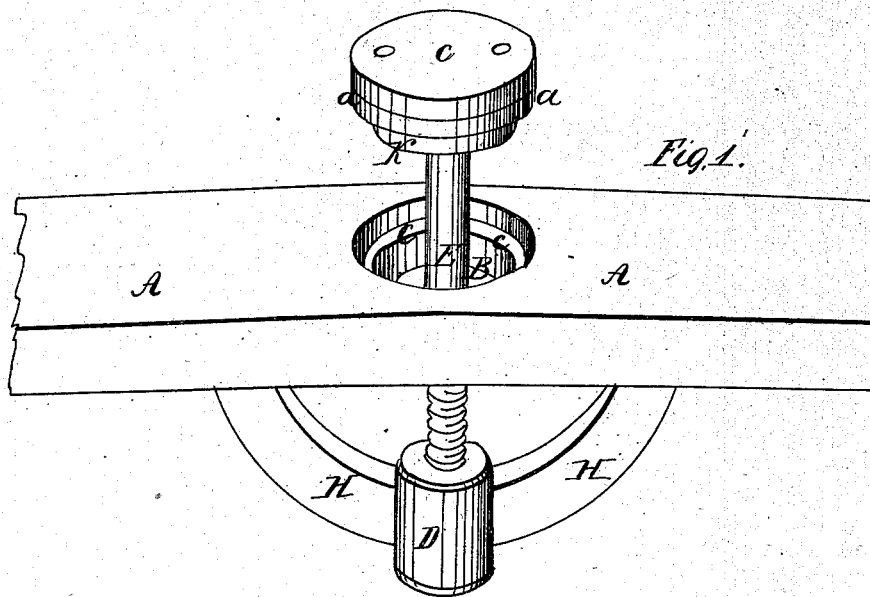


M. Hickey.

Bung.

Nº 49,473,

Patented Aug. 15, 1865.



Witnesses:
Joseph Garrett
Saml. M. Barton

Inventor,
Michael Hickey

UNITED STATES PATENT OFFICE.

MICHAEL HICKEY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND EDWD. H. MAXWELL, OF SAME PLACE, AND JOHN T. McKNIGHT, OF
NEW YORK, N. Y.

IMPROVED BUNG FOR CASKS.

Specification forming part of Letters Patent No. 49,473, dated August 15, 1865.

To all whom it may concern:

Be it known that I, MICHAEL HICKEY, of the city of Boston, State of Massachusetts, have invented a new and useful device, being a Permanent Bung for Casks, and I declare the following specification, with the drawings forming a part thereof, to be a full and complete description of my invention.

Figure 1 represents the apparatus in perspective. Fig. 2 represents it in section through its center.

Similar letters denote the same parts of the apparatus.

It is well known to brewers and others, who in their business have occasion to use casks over and over again, that there is a considerable expense attending the furnishing of new bungs, and, besides this, that by the repeated process of driving them in and springing them out the bung-hole becomes so worn as to make it necessary to replace the bung-stave, which is both a troublesome and expensive affair.

To furnish a permanent bung and attach it so as to avoid the wear of the stave is the object of my invention, which I now describe.

A represents the bung-stave; B, the bung-hole. Concentric with the bung-hole I bore down, from one-third to one-half the thickness of the stave, a cylindrical countersink, so as to form around the hole a level shoulder or shelf, *c c*.

The bung is made of metal, and is a cylindrical head, C, in diameter nearly fitting the

countersink-hole, with or without a less cylinder, K, nearly fitting the bung-hole. From this head projects downward a stem or rod, E, having a screw-thread upon its lower end.

Fastened to the stave there is a metal loop, H, dropping some distance below the bung-hole, in the bottom of which there is a screw-socket, D, fitted to the rod E. This loop is made with its outer edge beveled, and of such depth as to permit the free passage of and prevent the retention of the dregs of the cask when being emptied for the purposes of cleansing.

To insure a perfect closing of the bung-hole a ring, *a*, of india-rubber, gutta-percha, or other suitable material, is placed between the bung and the shelf *c c*.

The mode of using the bung is sufficiently manifest without description.

It will be seen from this description of its construction that the bung must be a lasting article, and prevent for a long time any wear of the bung-stave.

What I claim as my invention, and desire to secure by Letters Patent, is—

A metal bung, with its ring *a* and its loop H, formed, fitted, and secured to the stave, substantially in the manner and form and for the purposes set forth in this specification.

MICHAEL HICKEY.

Witnesses:

JOSEPH GAVETT,
SAML. M. BARTON.