

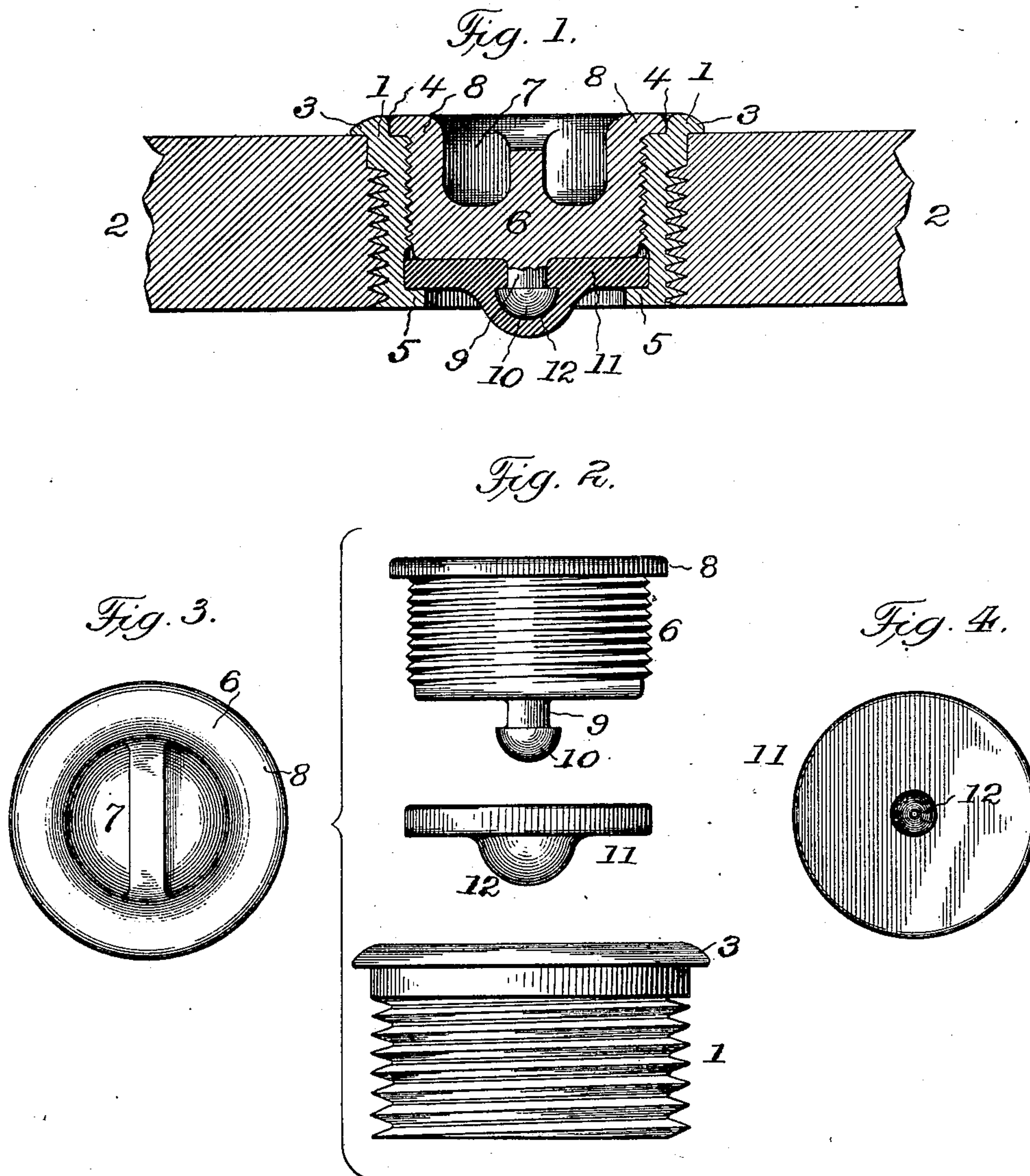
No. 706,103.

Patented Aug. 5, 1902.

E. C. PHILLIPS.  
BARREL BUNG AND BUSHING.

(Application filed June 11, 1900.)

(No Model.)



Attest:  
John Enders, Jr.  
C. W. Coleman

Inventor:  
Elwood C. Phillips,  
by Robert Burns Attorney.



# UNITED STATES PATENT OFFICE.

ELWOOD C. PHILLIPS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-FOURTH  
TO OSCAR A. SCHEIBE, OF CHICAGO, ILLINOIS.

## BARREL BUNG AND BUSHING.

SPECIFICATION forming part of Letters Patent No. 706,103, dated August 5, 1902.

Application filed June 11, 1900. Serial No. 19,958. (No model.)

*To all whom it may concern:*

Be it known that I, ELWOOD C. PHILLIPS, a citizen of the United States of America, and a resident of Chicago, in the county of Cook  
5 and State of Illinois, have invented certain new and useful Improvements in Barrel Bungs and Bushings, of which the following is a specification.

The present invention relates to that type  
10 of bungs for barrels and like wooden vessels in which an exterior screw-threaded bushing is rigidly screwed into the barrel-orifice and is also interiorly screw-threaded to receive a screw-threaded closure cap or plug.

15 The object of the present improvement is to provide a simple, convenient, and durable construction and formation of parts whereby an effective seating for the closure-plug is provided and the corrosion of the lower sur-  
20 face of the same prevented, and the consequent contamination of the contents of the barrel by such corrosion, all as will hereinafter more fully appear, and be more particularly pointed out in the claim. I attain such  
25 object by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional elevation of a barrel bung and bushing embodying  
30 the present improvements; Fig. 2, a side elevation of the parts in a detached condition; Fig. 3, a plan view of the closure-plug; Fig. 4, a plan view of the elastic bottom cover or head of the closure-plug.

35 Similar numerals of reference indicate like parts in the several views.

Referring to the drawings, 1 represents the usual exteriorly-screw-threaded bung-bushing screwing into the stave 2 or other portion  
40 of the barrel and provided with a marginal projecting flange 3 to insure the proper position of the bushing in the barrel-stave and at the same time protect the edges of the barrel-orifice. The interior of the bushing 1 is  
45 also screw-threaded to receive the closure-plug, and the upper end of the bushing is

formed with an annular recess or countersink 4 to receive the head or flange of the closure-plug.

In the present improvement the lower end 50 of the bushing 1 is provided with an inturned annular flange 5 to form a seat for the lower end of the closure-plug, as hereinafter more fully set forth.

6 is the closure-plug, exteriorly screw-  
55 threaded to fit the bore of the bushing 1 and formed with a central cavity 7, in which in turn is formed a cross-bar that affords an engagement for a wrench in screwing the closure-plug into or out of place.  
60

The closure-plug 6 at its upper end is formed with a marginal head or flange 8, fitting the countersink 4 of the bung-bushing, so as to afford an even top surface of both bushing and plug. At its lower end the closure-plug  
65 is provided with a central downwardly-extending shank 9, having at its lower end a button or head 10 for the purpose hereinafter stated.

11 is an elastic button-cover for the lower  
70 end of the closure-plug and made of a disk shape, so as to seat itself upon the upper surface of the marginal inturned flange 5 of the bung-bushing to effect a seat at such point.

In the present invention the central por-  
75 tion of the elastic cover or disk 11 is formed with a closed bottom recess 12 of a shape corresponding to that of the shank 9 and head or button 10 of the closure-plug and is adapted to be forced upon the same to effect a sub-  
80 stantial attachment of the cover or disk to the closure-plug and yet permits of a subsequent detachment and replacement when required.

Having thus fully described my said inven-  
85 tion, what I claim as new, and desire to secure by Letters Patent, is—

In a barrel bung or bushing of the character herein described, the combination of a sta-  
90 tionary bushing formed with a lower inturned margin or seat, a rotatable plug fitting said bushing and provided on its lower end with

an integrally-formed stud having a cylindrical shank headed at its lower end, and an elastic disk arranged on the under surface of said plug, and a centrally-arranged enlargement protruding beyond the lower face of the disk and in which is formed a cavity adapted to engage the headed attaching-stud, the bottom of said cavity being closed so as to prevent leakage around and through the

metal portions of the bung and bushing, substantially as set forth.

Signed by me at Chicago, Illinois, this 9th day of June, 1900.

ELWOOD C. PHILLIPS.

Witnesses:

ROBERT BURNS,  
C. W. COLEMAN.