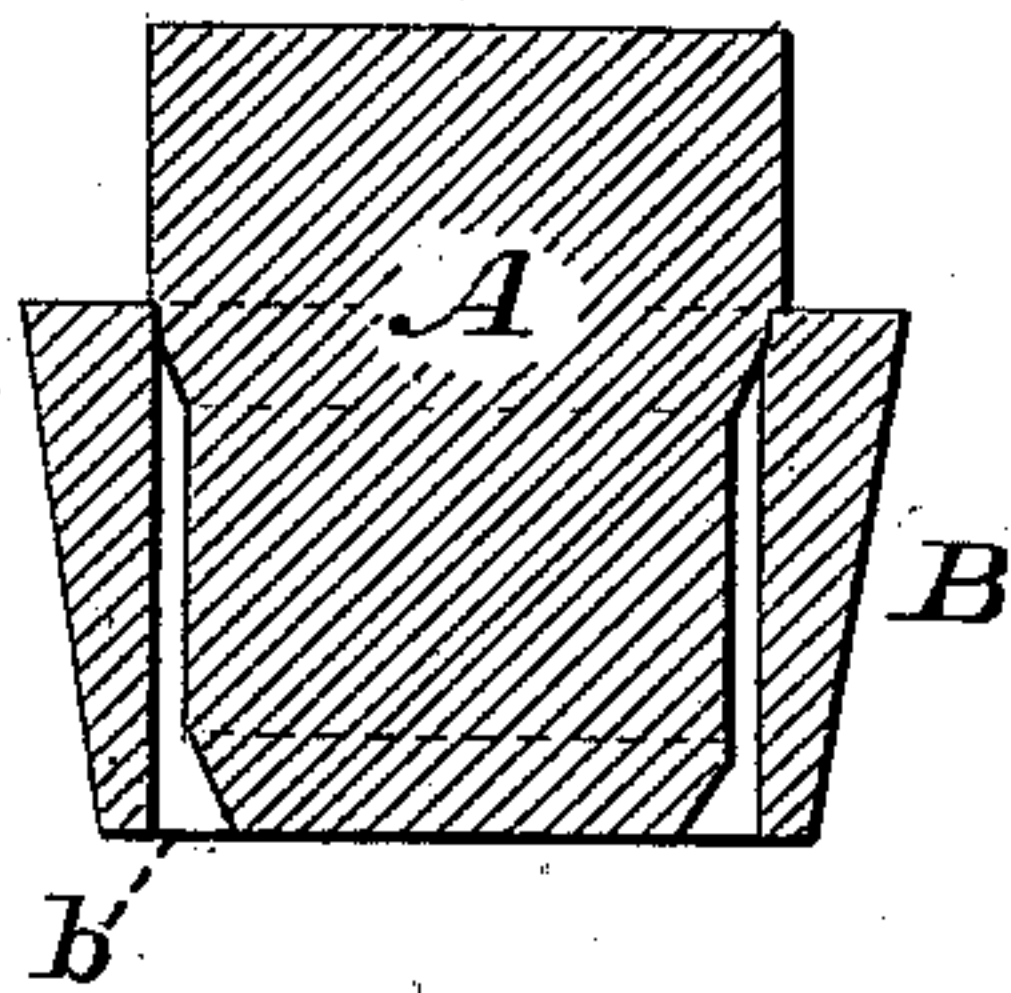


J. BROWN, Jr.
Bung.

No. 225,102.

Patented Mar. 2, 1880.

Fig. 1.



b Fig. 2.

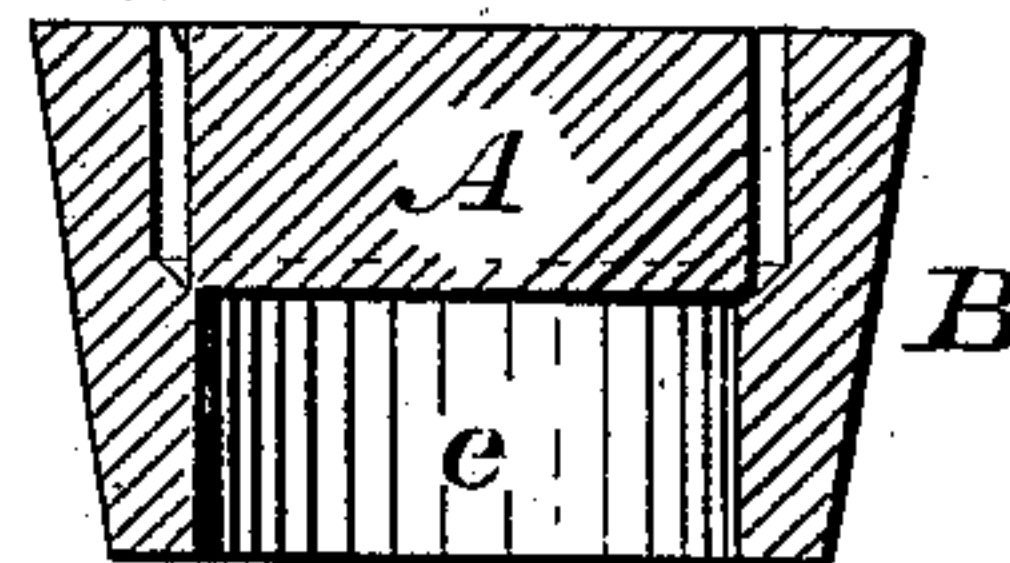


Fig. 3.

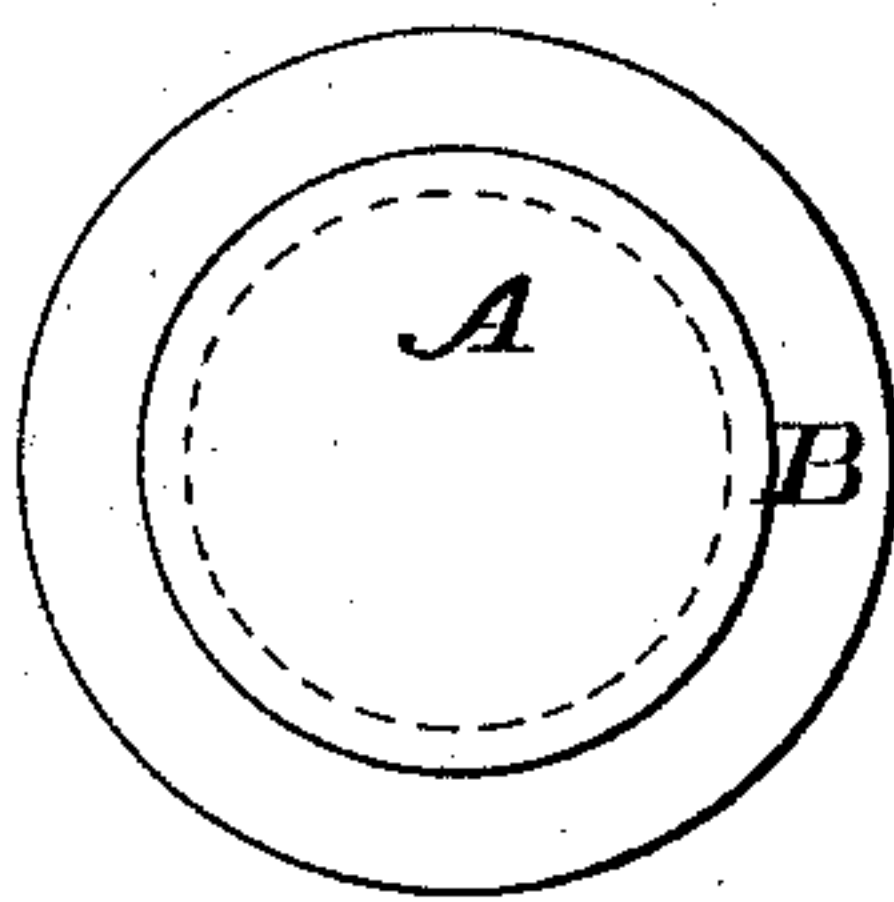


Fig. 4.

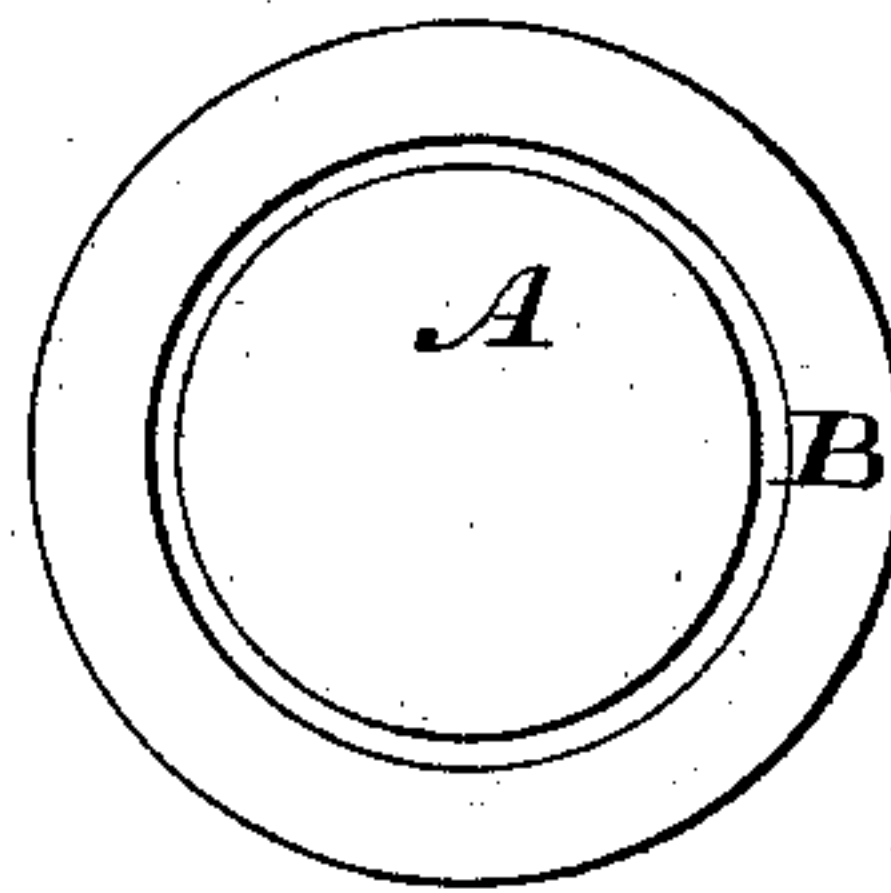


Fig. 5.

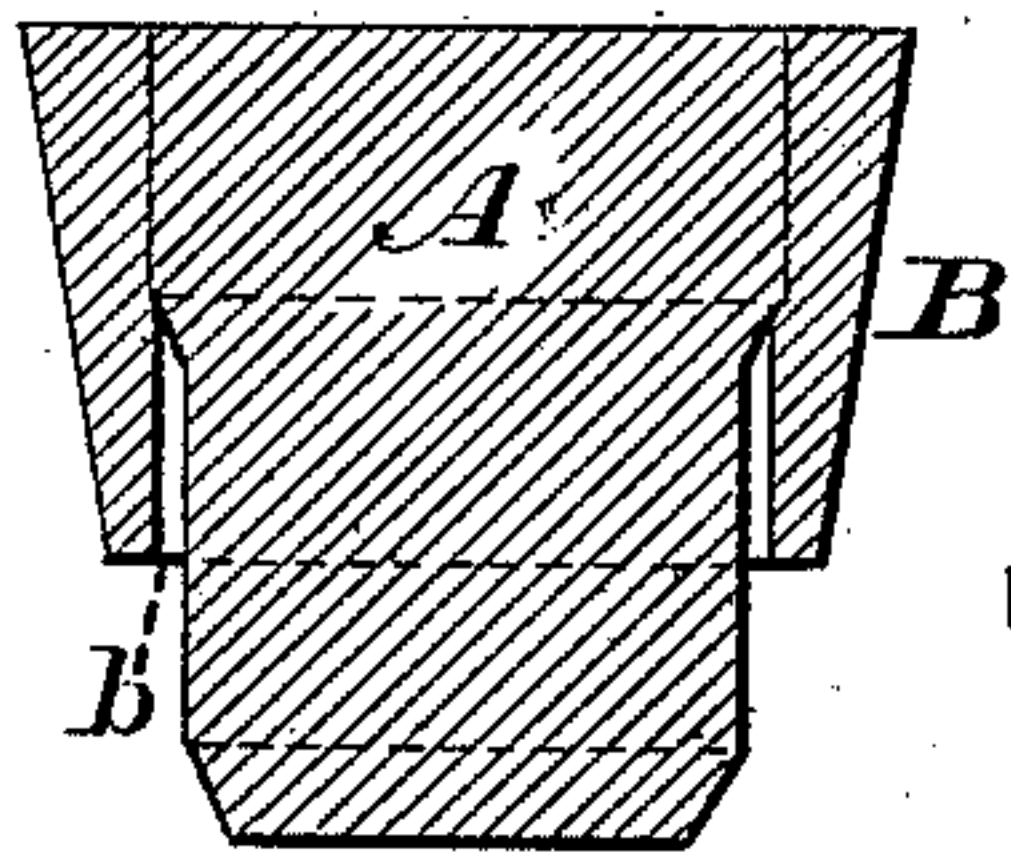


Fig. 6.

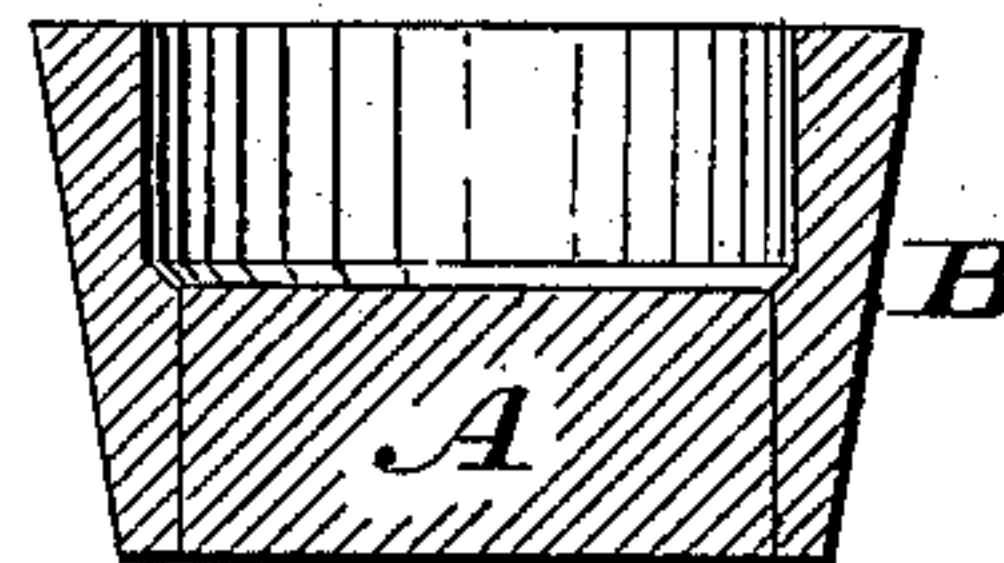
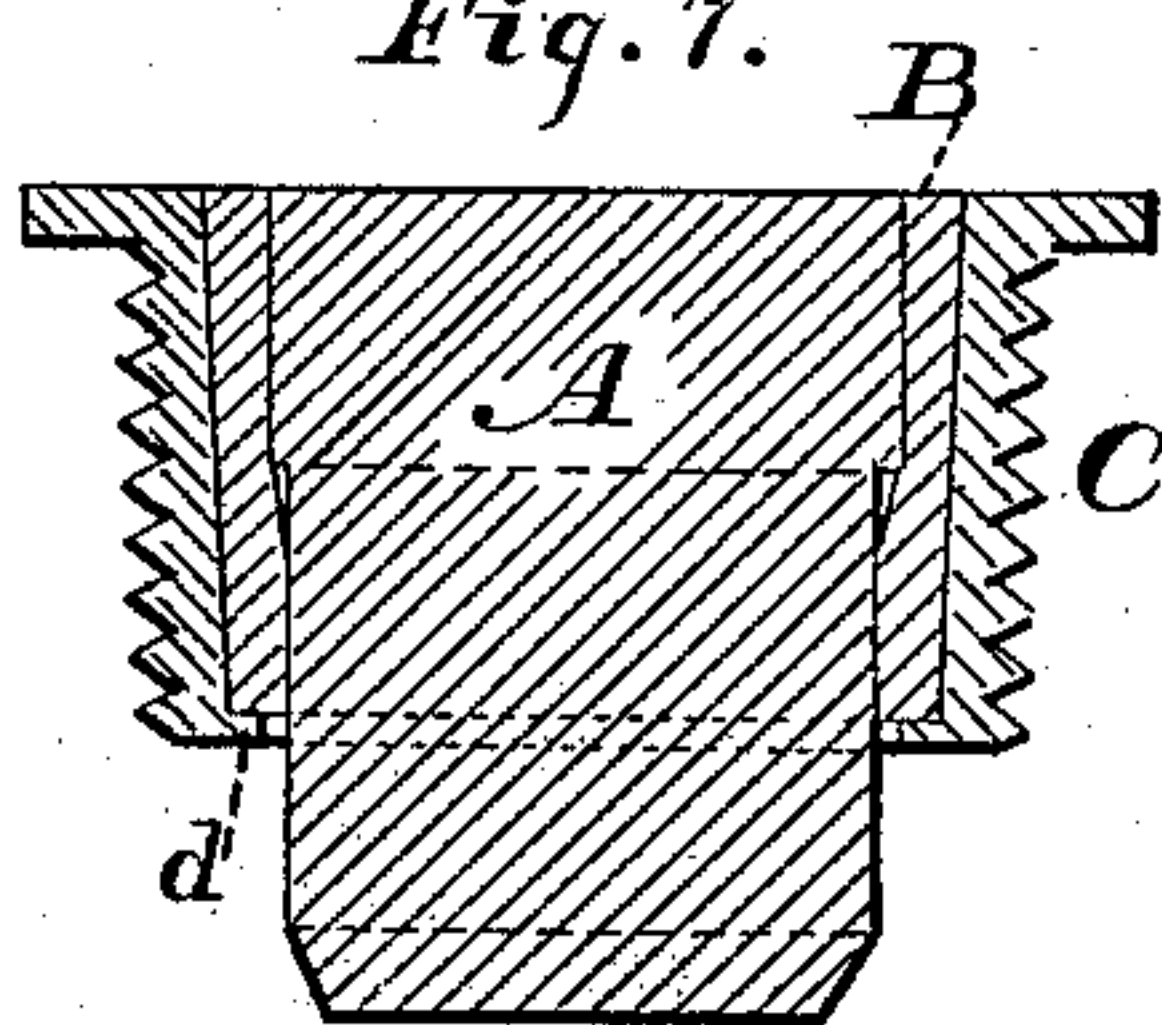


Fig. 7.



Attest:

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R. C. Paterson

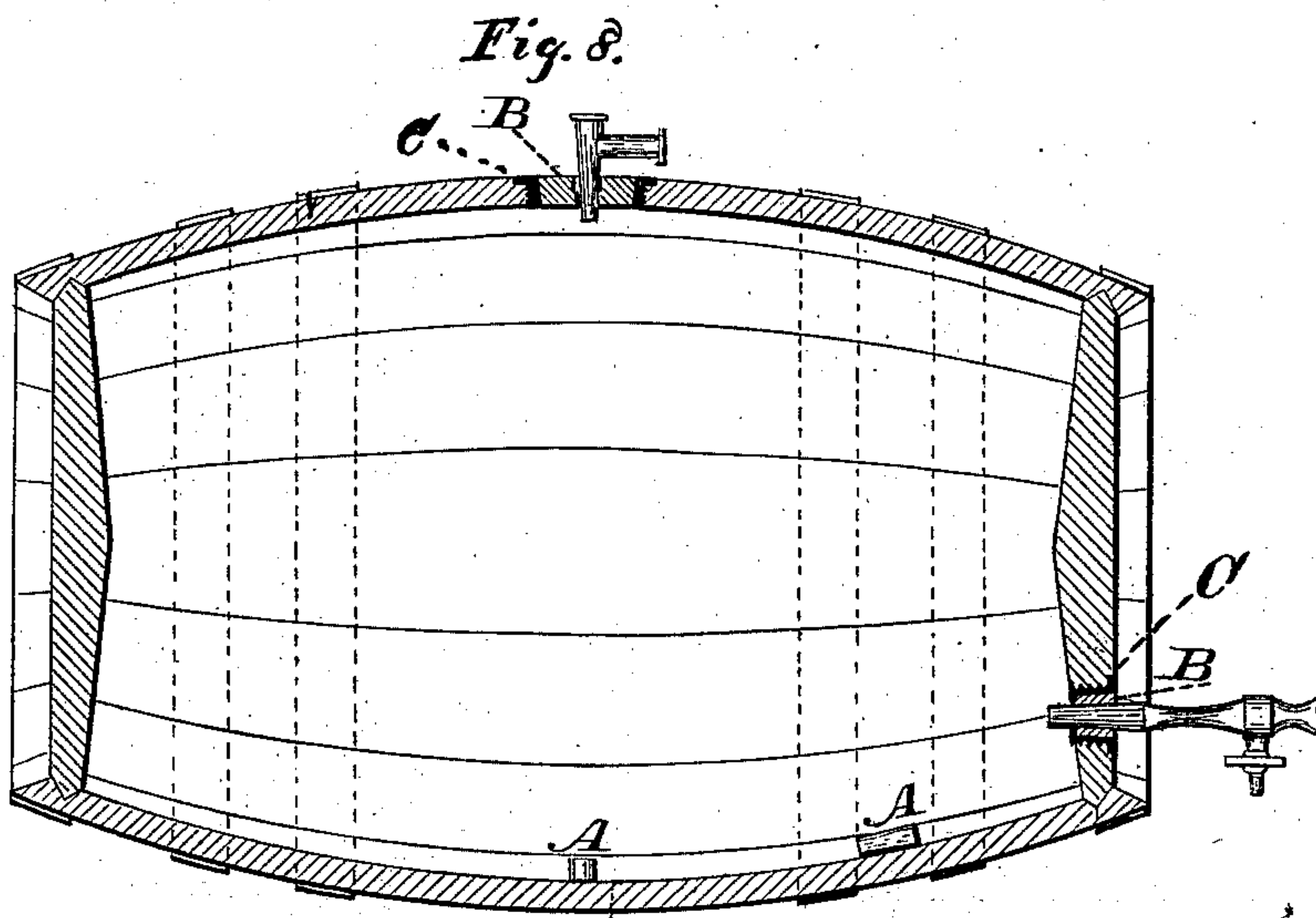
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UNITED STATES PATENT OFFICE.

JEFFERSON BROWN, JR., OF NEW YORK, N. Y.

BUNG.

SPECIFICATION forming part of Letters Patent No. 225,102, dated March 2, 1880.

Application filed June 26, 1879.

To all whom it may concern:

Be it known that I, JEFFERSON BROWN, Jr., of the city, county, and State of New York, have invented a new and useful Improvement in Bungs for Casks, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

10 Figures 1 and 2, Sheet 1, represent central transverse sections of my invention, showing the form and relative position of the parts as manufactured; Figs. 3 and 4, Sheet 1, plan views of the same; Figs. 5, 6, and 7, Sheet 1, 15 central transverse sections of the device, showing the relative position of the parts arranged for use; and Fig. 8, Sheet 2, a sectional view of the same in use.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to produce a stopper for bung and faucet holes of casks or other vessels that will effectually close the same and admit of the ready insertion of the 25 vent or faucet, without waste of the contents of the cask, and to leave a portion of the device within the aperture to form a protective bushing and yielding bearing for the shank of the vent or faucet.

30 The invention relates more particularly to certain improvements upon the device shown and described in Letters Patent of the United States granted to Samuel R. Thompson August 5, 1873, No. 141,473, and reissued November 12, 1878, No. 8,483, in which a compound bushing composed of a rigid sleeve and yielding 35 lining is shown, substantially as represented by B C, Fig. 7, in the drawings hereto annexed.

40 The improvement consists in constructing the plug and bushing from the same piece of material, to avoid waste and render the same more convenient and efficient in use than when these respective parts are made independent 45 of each other or connected by a solid partition or web.

In order that others may understand and use my invention, I will first proceed to describe its construction, and to subsequently

point out in the claims its novel characteristics. 50

In the drawings, Figs. 1 and 2 are sectional views, in which the exterior contour shows the blank form of the device, which may be made of wood or other suitable material, 55 turned, pressed, or molded in substantially such form.

In the form shown in Fig. 1 the central portion, A, is removed by an annular cutting-tool, which forms the groove *b*, as shown. 60 This tool is provided with a beveled cutting-edge, and its external diameter should not be greater than the diameter of the projecting portion of the part A, so that the latter will fill the interior diameter of the part B when 65 forced within the same, as shown in Fig. 5, in which position of the parts the device is completed and ready for use.

In a modification of my invention, Figs. 2, 4, and 6, the blank is made in the form of an 70 ordinary bung, and a recess, *e*, formed in the inner face, extending about half-way through the same, and the groove *b* cut from the opposite face to meet it and separate the portion A, which is then forced within the recess *e*, as 75 shown in Fig. 6.

In the sectional view, Fig. 7, my invention is shown in connection with a rigid sleeve, C, which is generally made of metal and permanently secured within the bung or faucet ap- 80 erture of the cask. This adaptation of my invention is preferred, as the metal sleeve C protects the stave or head of the cask from injury occasioned by repeated blows in inserting the vent or faucet, and by slightly 85 contracting its interior diameter the parts A and B are firmly compressed together when inserted and the groove or space *b* is effectually closed. The metal sleeve C is also constructed with an inwardly-projecting shoulder, 90 *d*, forming an abutment against which the post B rests.

In tapping the cask the shank of the vent or faucet is placed against the part A and driven inwardly, forcing such part within the 95 cask, and leaving the part B to form a bushing to the aperture or sleeve C, as shown in Fig. 8.

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

5 1. A stopper for bung and faucet holes of casks, &c., having a recess of less diameter than a portion of the core A, whereby the latter will serve to plug said recess, substantially as set forth.

2. The combination of a stopper having a recess of less diameter than a portion of the core A, as described, and a rigid sleeve, C, for the purpose specified.

JEFFERSON BROWN, JR.

Witnesses:

CHAS. W. FORBES,
JULES HALBRAN.