

No. 656,459.

Patented Aug. 21, 1900.

G. W. JACKSON.
BUNG AND TAP.

(Application filed June 20, 1899.)

(No Model.)

Fig. 3.

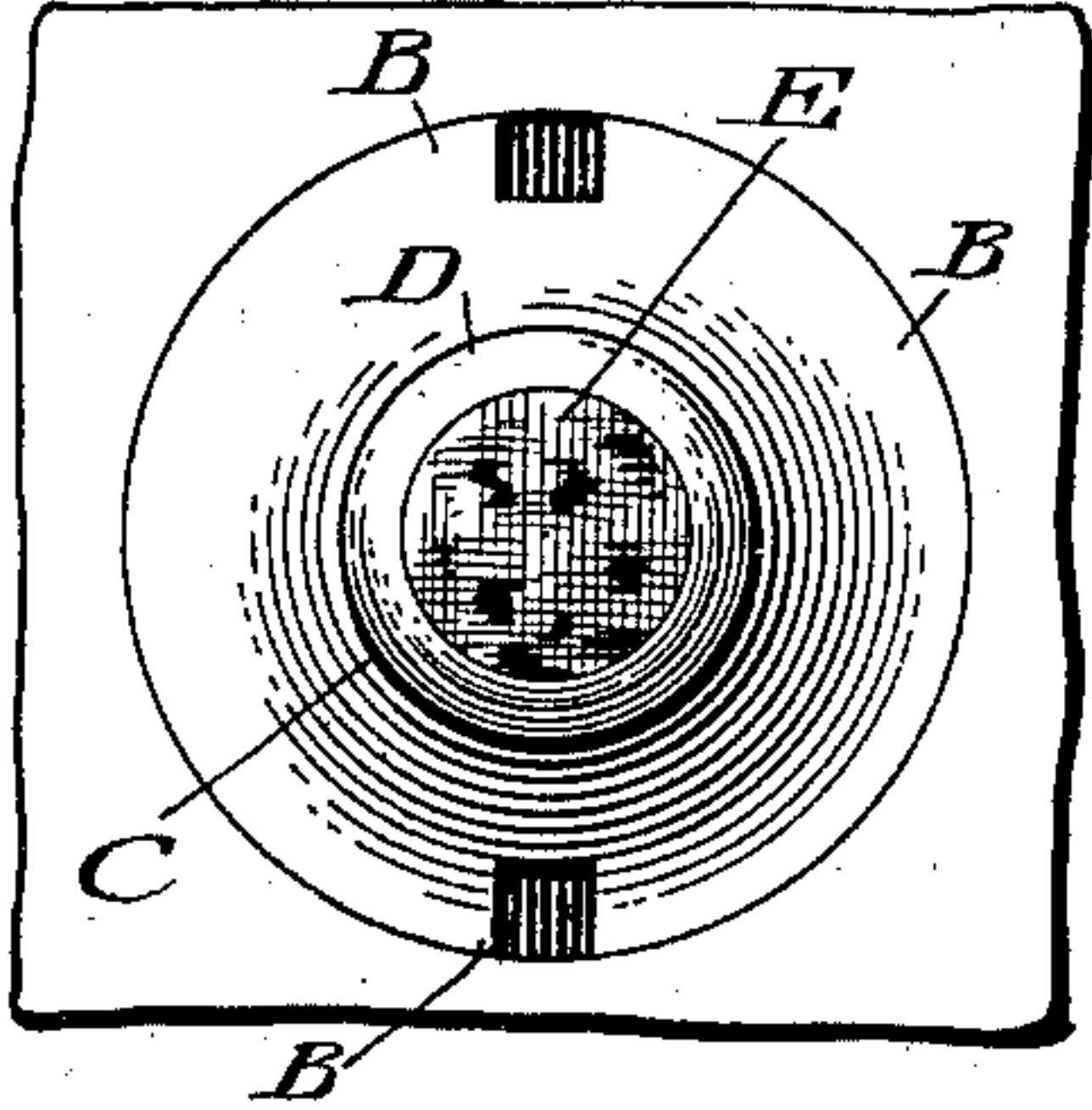


Fig. 4.

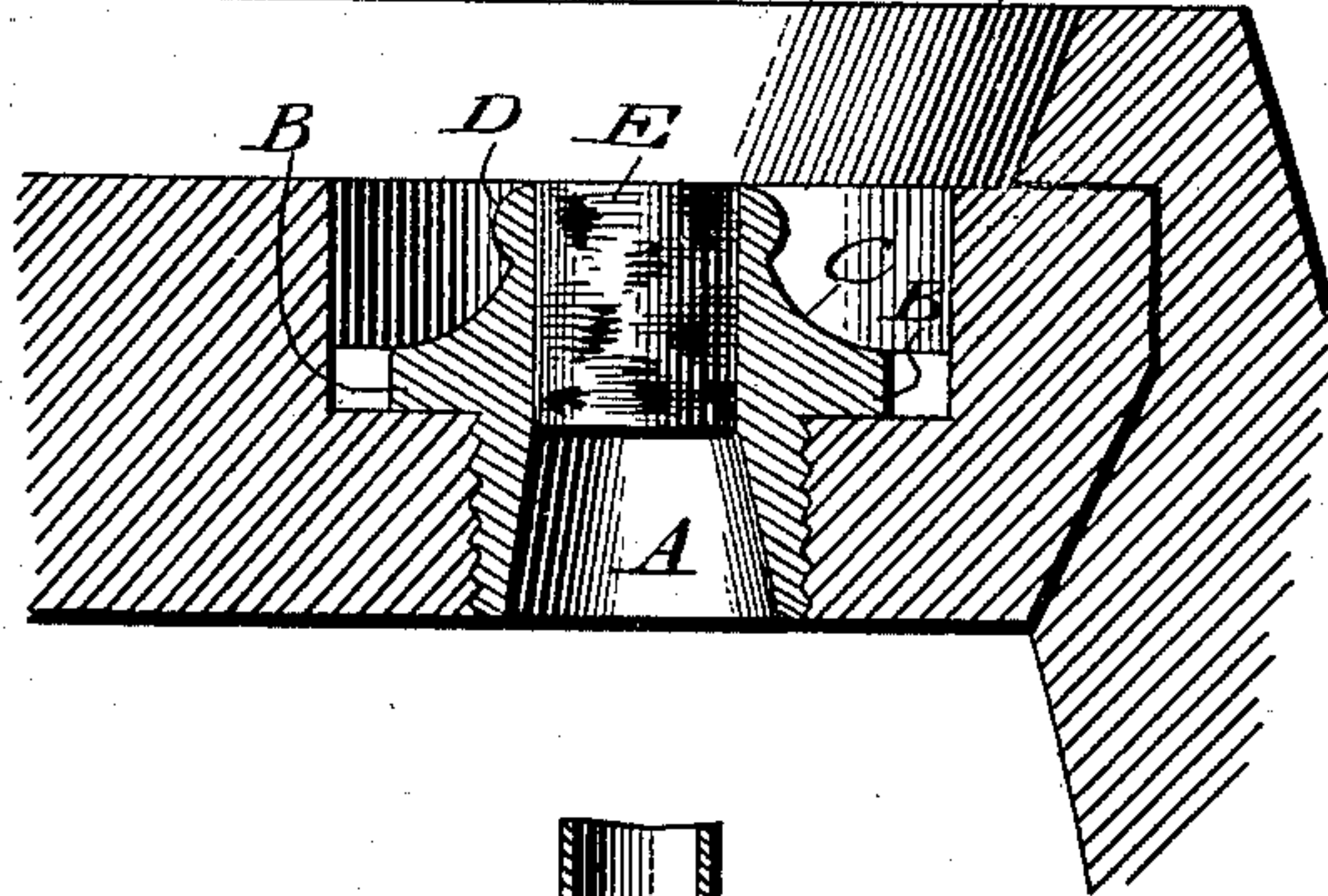


Fig. 1.

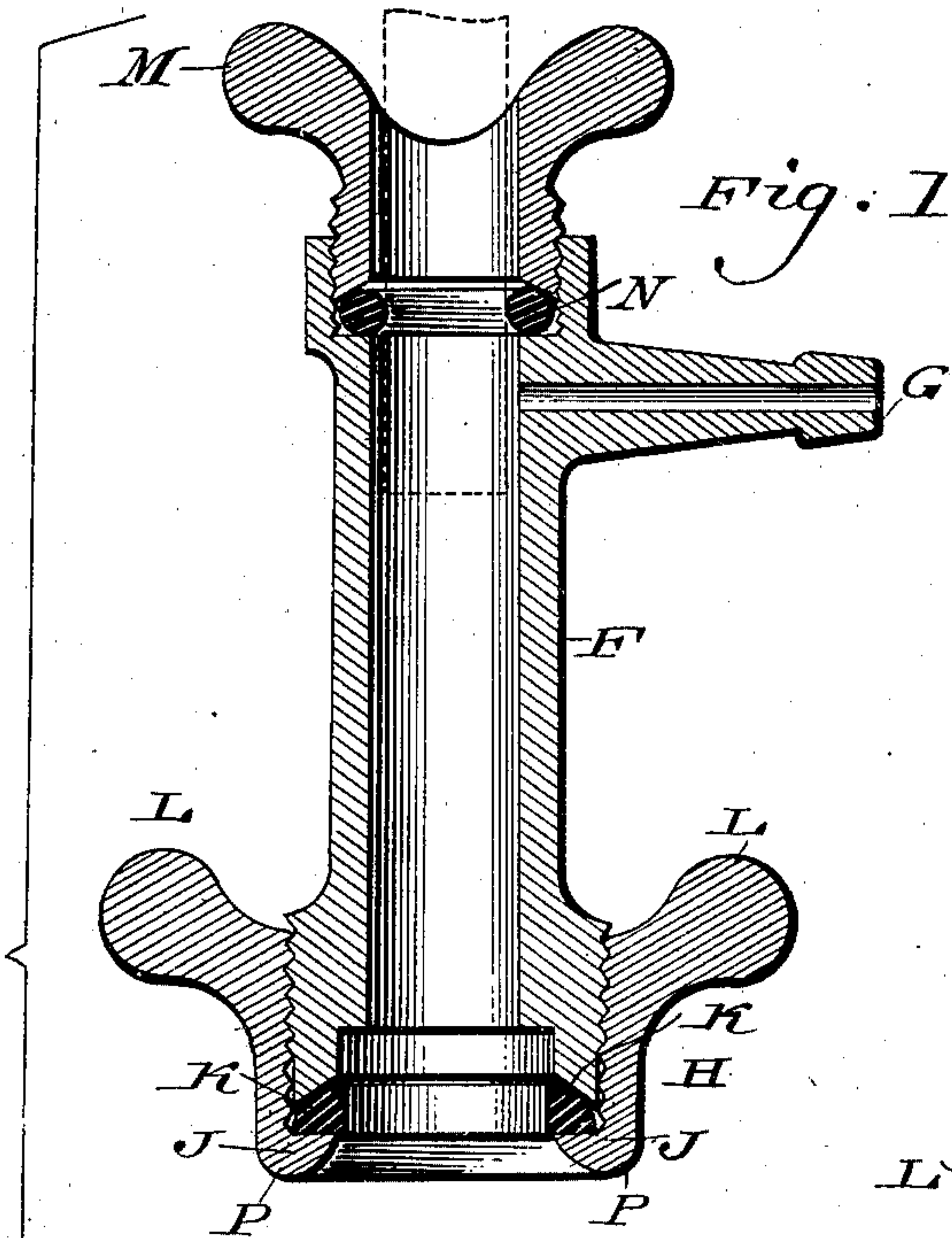
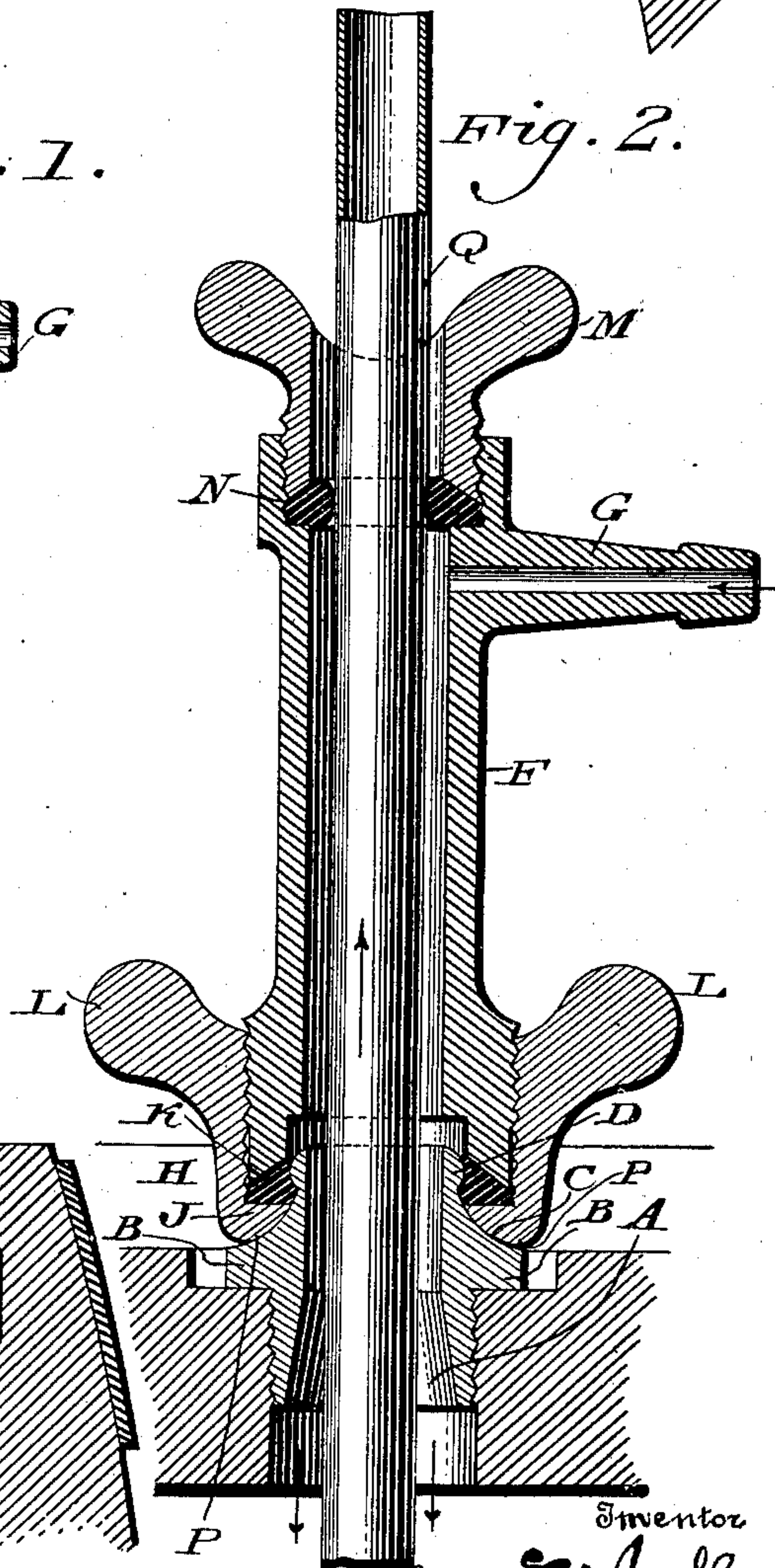


Fig. 2.



Witnesses-

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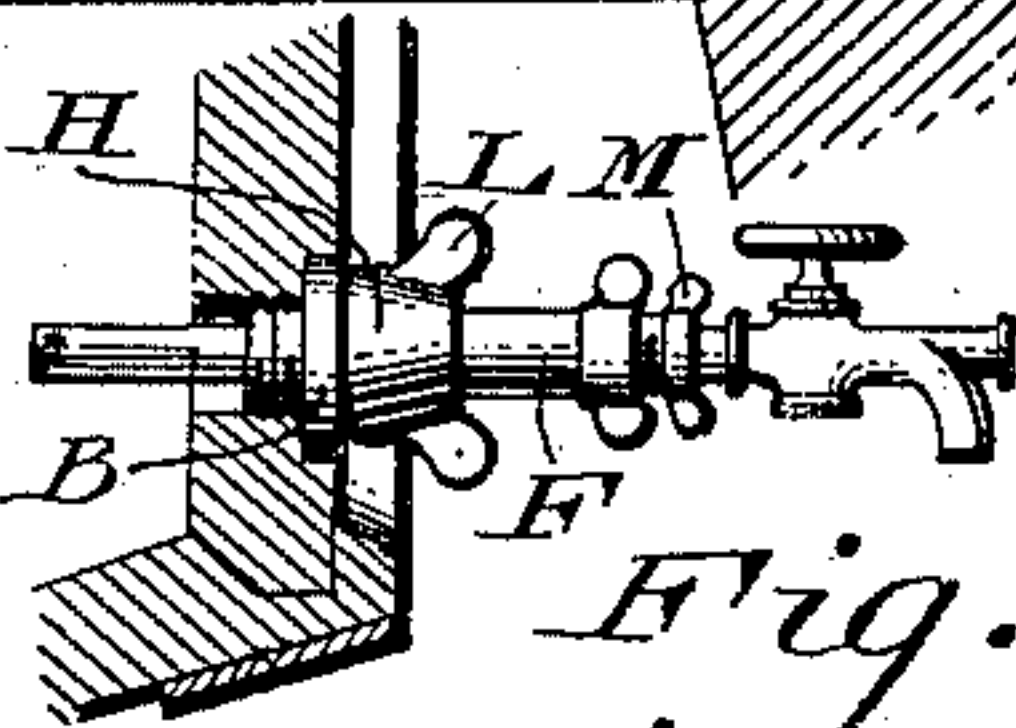


Fig. 5.

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UNITED STATES PATENT OFFICE.

GEORGE W. JACKSON, OF PHILADELPHIA, PENNSYLVANIA.

BUNG AND TAP.

SPECIFICATION forming part of Letters Patent No. 656,459, dated August 21, 1900.

Application filed June 20, 1899. Serial No. 721,192. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. JACKSON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Bungs and Taps, which improvement is fully set forth in the following specification and accompanying drawings.

10 My invention relates to an improvement in the bung and tap for which Letters Patent of the United States No. 551,286 were granted to me on the 10th day of December, A. D. 1895; and it consists of the novel construction of parts hereinafter described, whereby
15 the device is simplified, reduced in expense, and more easily and conveniently manipulated, and the packing is set back of the outer edge of the bung, where battering on
20 said edge will not affect said packing, thus preserving an effective joint, as will be hereinafter set forth.

Figure 1 represents a longitudinal section of a bung and tap embodying my invention, the parts being separated. Fig. 2 represents
25 a similar section, the parts being connected and in operative condition. Fig. 3 represents a face view of the bung and adjacent portion of a barrel, keg, &c. Fig. 4 represents a section of a portion of a modification in the manner of applying the bung. Fig. 5 represents
30 a view, on a reduced scale, of a portion of the device, showing the application of a spigot or cock to the same.

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

Referring to the drawings, A designates a bung which is exteriorly threaded, as at A', so as to be screwed into the head or other
40 proper portion of a barrel, keg, &c., and provided with a flange B, which is adapted to abut against the adjacent part of said head, said flange having notches or recesses therein for the engagement of a suitable wrench or
45 implement whereby the bung may be conveniently rotated. On the forward portion of the bung is the nipple C, of somewhat conical form, the same having a bead or shoulder D on its periphery near the head end of said
50 nipple, said flange thus being interposed between the inner end or base of the nipple and forward end of the bung.

E designates a cork or other stopper inserted in the bung or nipple portion thereof for closing the bung, the same, however, being adapted to be driven into the barrel, &c.,
55 when the bung is to be opened.

F designates a tapping-tube, which is provided with the branch G for attachment of an air-pressure and has at one end, at present the lower end, the screw-collar H, which is provided with the inturned shoulder J, between which and the adjacent edge or end of the tube F is the gasket or packing K, it being noticed that said edge is depressed, forming a tapering or conical seat, which receives
60 said packing and acts in connection with the shoulder J to compress said packing, as will be hereinafter again referred to. It will also be noticed that the bead or shoulder D is set
65 back from the head or outer end or edge of the bung, and said edge is not utilized as the seat of the gasket or packing K. Consequently said edge may be battered, struck, or fractured without affecting the shoulder D or the
70 packing, so that a tight joint for the bung and tapping-tube may always be maintained. The collar H is provided with thumb-pieces L for convenience in rotating the same.

M designates a thumb-nut which is fitted
80 into the end of the tube F opposite to the collar H and engages with a screw thereon for compressing the packing N, as in the Letters Patent hereinbefore referred to.

When it is desired to tap the barrel, &c.,
85 the tube F and collar H are fitted over the nipple C, so that the gasket K embraces and engages with the bead D of said nipple, and the heel P of the collar H bears upon the outer face of the flange C of the nipple below
90 or back of said bead, the contiguous faces of said bead and flange being respectively convex and concave or rounded, so that the collar may be rotated on the nipple with ease and uniformity. The tube F is now rotated,
95 whereby the gasket K is compressed and forced inwardly and radially against the gasket, after which the collar H is rotated a few turns, its heel P riding on the nipple, thus drawing the tube F toward it to a greater extent, and consequently increasing the compression of the gasket on the nipple, it being
100 evident that as the gasket engages with the bead of the nipple the tube F is interlocked

with the bung and prevented from being displaced therefrom, it remaining rigidly thereon, the joint between the tube and bung being most tightly closed, so that leakage thereat is prevented.

The conveying-pipe Q may now be passed through the tube F and bung and the cork or stopper thereby driven from position, whereby said pipe is in communication with the barrel, keg, &c., and the latter subjected to the air-pressure to discharge the contents thereof through said pipe, as usual, the joint between the pipe and tube being tightly closed by the packing N, so that the escape of air under pressure is prevented at said place.

In Fig. 4 the bung and nipple are sunken to a greater extent in the bead or other part of a barrel, &c.

In Fig. 5 I show a spigot or cock applied to the tapping-tube F in lieu of the conveying-pipe Q, in which case the branch G is dispensed with; but the operation is the same in either case.

The gasket K is segmental in cross-section, so that its upper wall is circular and its bottom wall flat, whereby when it is seated and subjected to the action of the shoulder L and edge J it is forcibly compressed inwardly against the nipple.

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

1. A bung provided with a nipple, a circumferential flange at the base of said nipple and a circumferential bead on the head of the same, a threaded tapping-tube, a threaded collar which engages with said tube and is formed with a heel which is adapted to ride on said flange in the rotation of said collar, and packing interposed between said tube and collar and engaging with said bead, the latter being set back from the outer edge of said nipple and forming the seat of said packing.

2. A bung, a nipple thereon, the latter being provided with a flange and bead at oppo-

site ends, said bead being set back from the outer edge of said nipple, a tapping-tube with a conical depression in the inner end thereof, a collar with an intumed shoulder near the end of the same and a heel on said end, said collar engaging said tube and having its heel adapted to ride on said flange, a gasket encircling said nipple and engaging said bead and being confined between said shoulder and the wall of said depression.

3. In a bung and tap, a bung provided with a nipple, a flange on said nipple on the inner end thereof, a bead on the head end of the same set back from the outer edge of said nipple, a tapping-tube having a conical depression in its inner end, a screw-collar fitted on the inner end of said tube having an intumed flange near its end opposite to said depression and a heel on said end opposite to said flange adapted to ride on the flange of the nipple, a gasket interposed between said flange and the wall of said depression and bearing against the bead of said nipple back of the outer edge of said nipple, and a collar on the outer end of said tube with a conical depression in its inner end and a gasket seated between a shoulder on the interior of said tube and the wall of the depression in said last-named collar.

4. In a bung and tap, a tapping-tube, a bung, a nipple projecting outwardly from the latter, a bead on said nipple, a screw-collar fitted on said tube and provided with an intumed flange and a gasket around said nipple between said shoulder and the end of said tube, said collar having a rounded heel and said flange having a rounded face, said heel being adapted to ride on said face in the rotation of the collar, said bead being back of the outer edge of said nipple and having said gasket adapted to be tightened against the same.

GEORGE W. JACKSON.

Witnesses:

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