

No. 677,104.

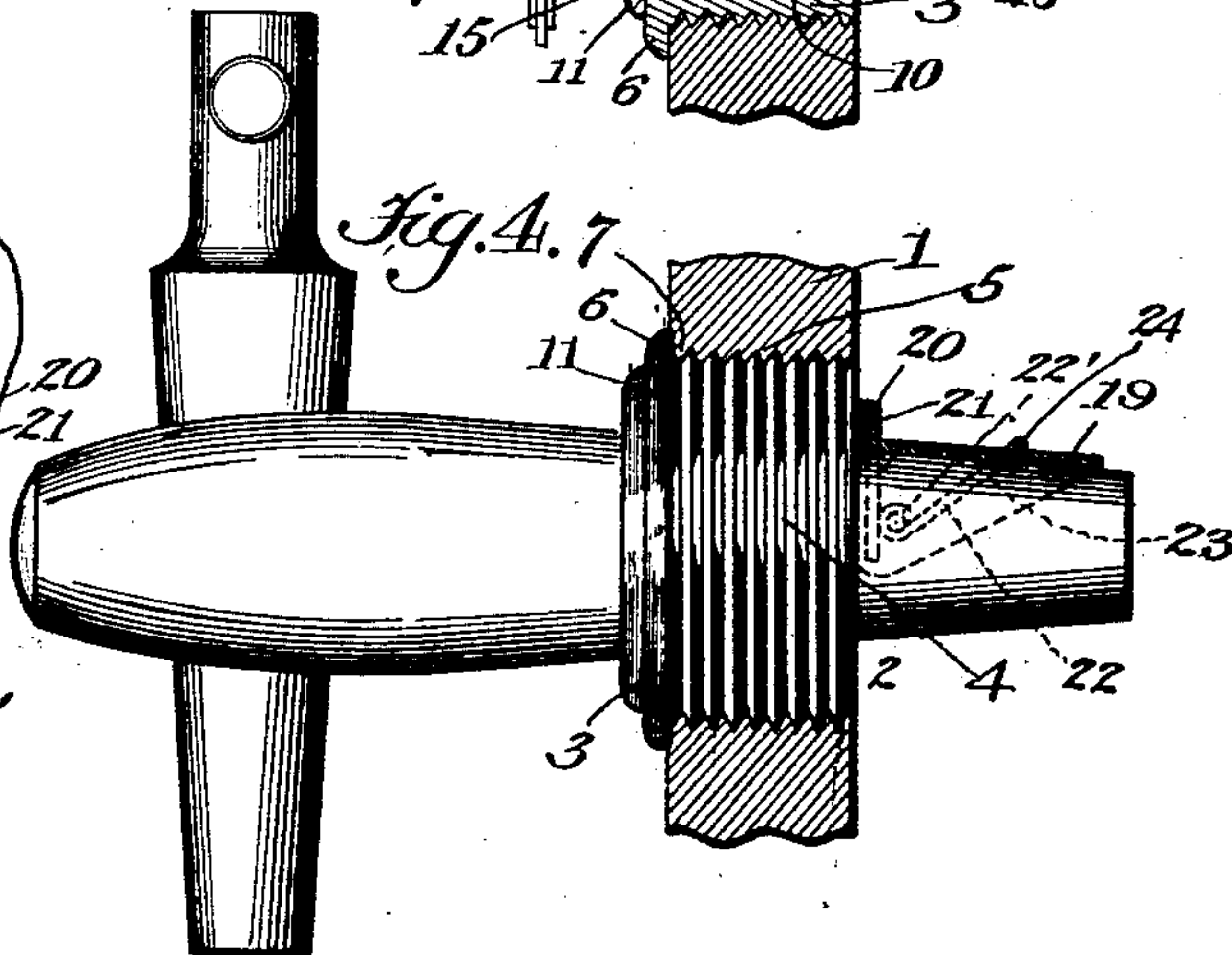
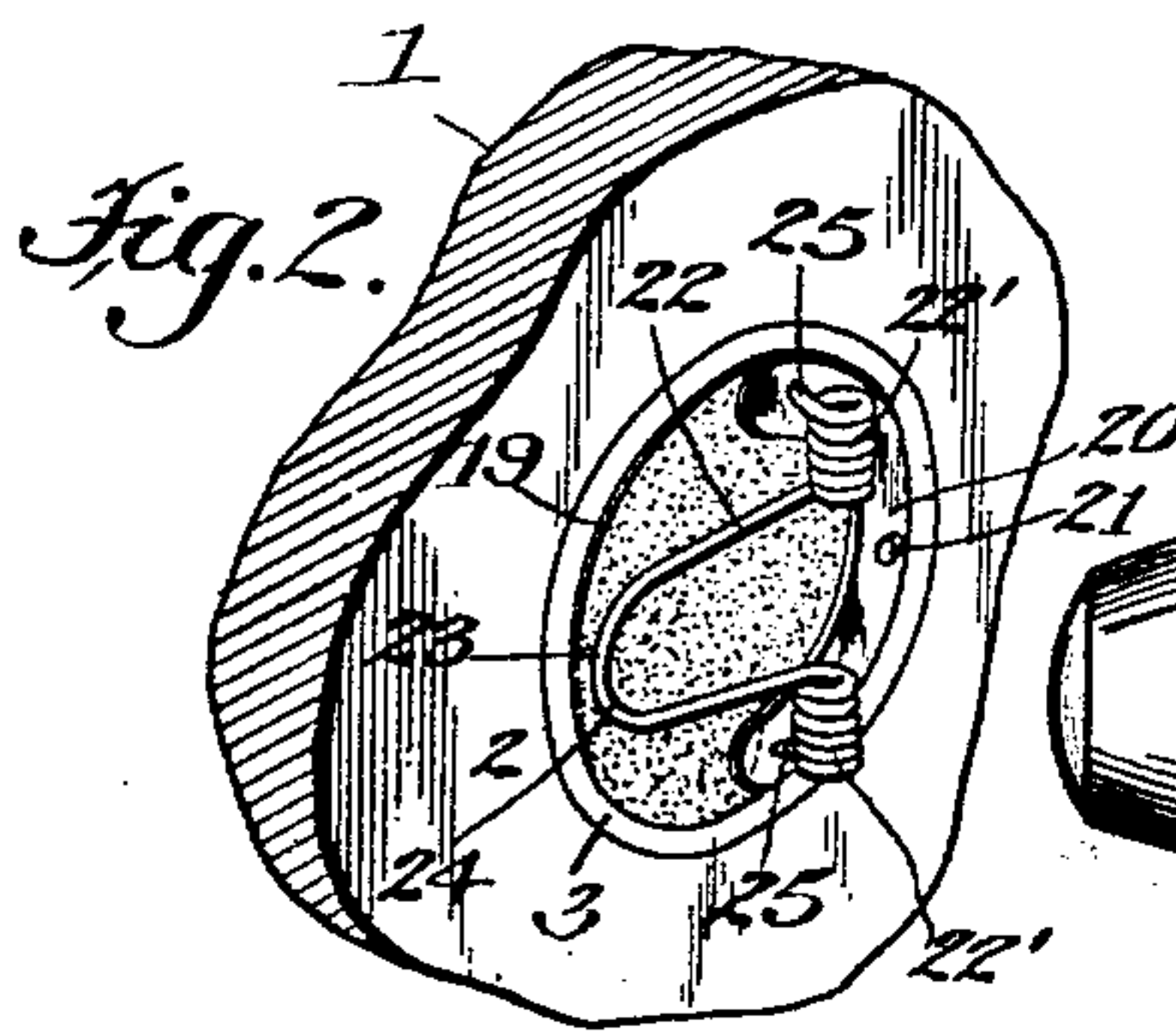
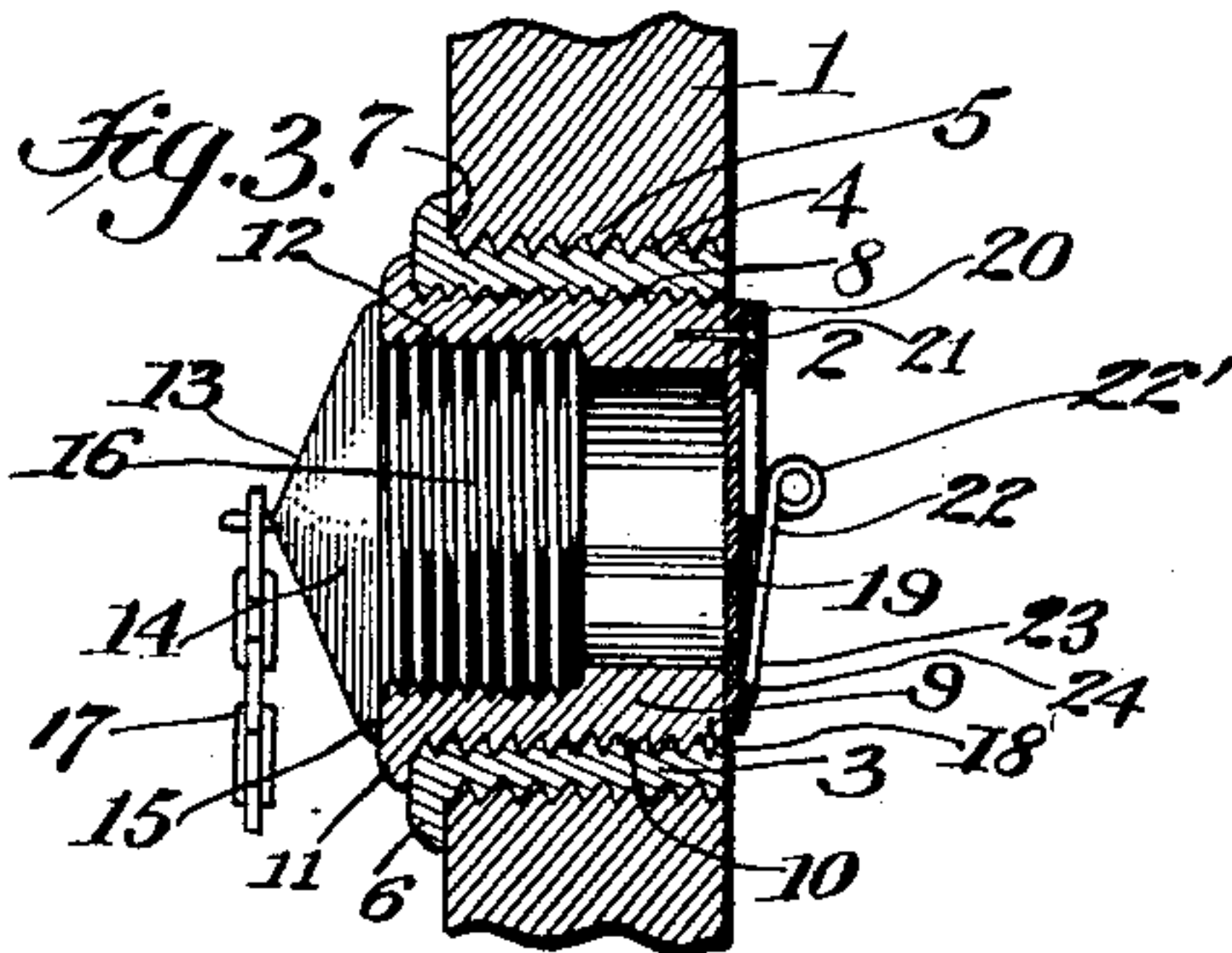
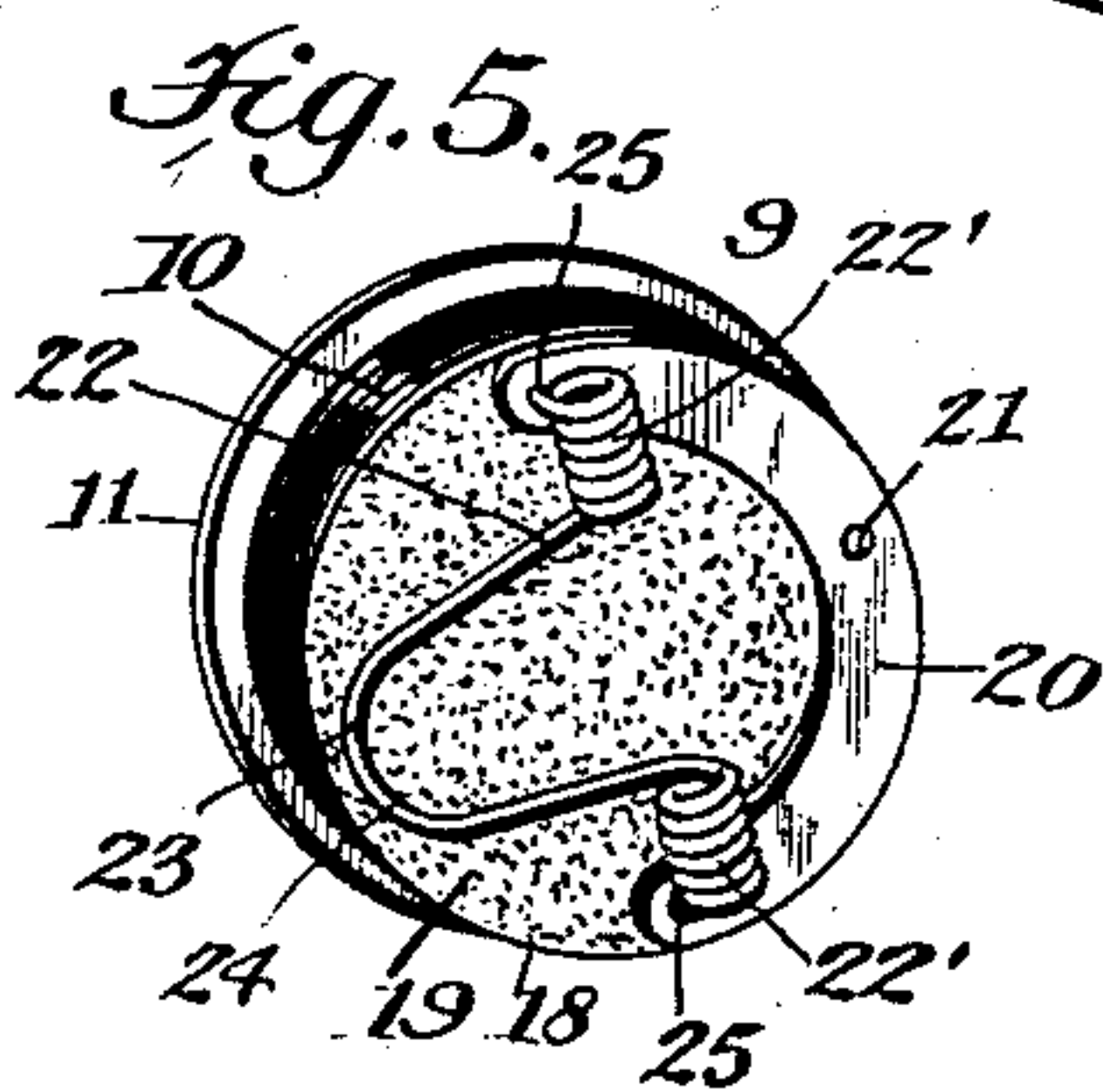
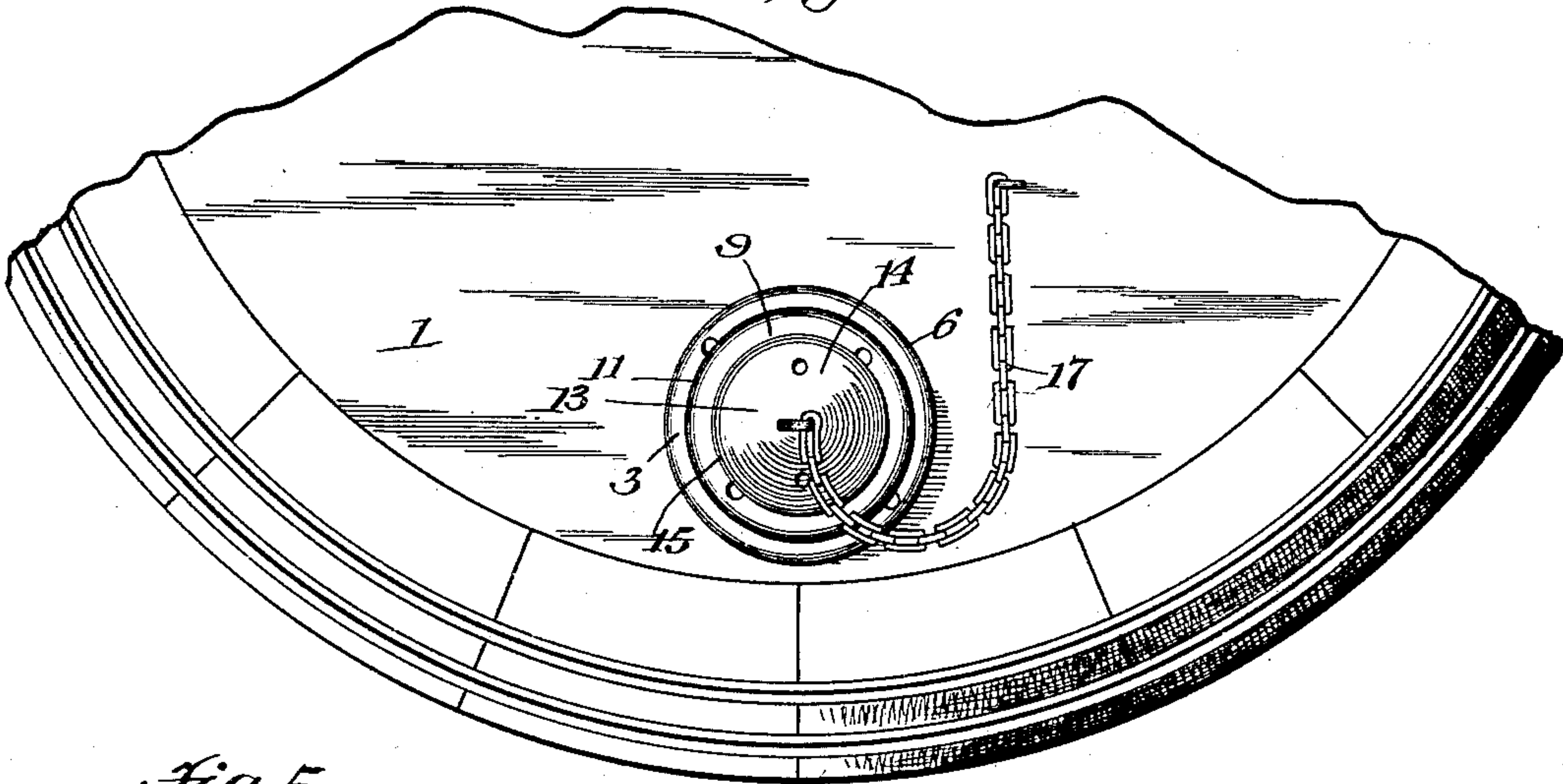
Patented June 25, 1901.

C. SAVINO.
BUNG FOR BARRELS.

(Application filed June 5, 1900. Renewed May 2, 1901.)

(No Model.)

Fig. 1.



Witnesses:

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By his Attorney

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UNITED STATES PATENT OFFICE.

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BUNG FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 677,104, dated June 25, 1901.

Application filed June 5, 1900. Renewed May 2, 1901. Serial No. 58,545. (No model.)

To all whom it may concern:

Be it known that I, CAMILLO SAVINO, a subject of the King of Italy, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Bungs for Barrels or the Like, of which the following is a specification.

This invention relates to bungs for barrels, &c., and it has special relation to that class of bung devices which are adapted to be permanently secured in the bung-hole and which can be operated to admit the passage of a draw-cock or faucet and the automatic opening and closing of the bung-hole when the faucet is inserted or removed.

The object of my invention is to provide a simple and improved device of the class just mentioned which will possess advantages in point of convenience, inexpensiveness, effectiveness, ease of operation, and general efficiency and which will perfectly operate to open and close the bung-hole automatically in the operation of tapping or withdrawing the faucet.

In the drawings, Figure 1 is a front view showing a device embodying my invention. Fig. 2 is a perspective view showing the rear or inner end of the bung device. Figs. 3 and 4 are detail longitudinal sectional views of the device, illustrating its operation. Fig. 5 is a detail perspective view of the automatic closure member of the device.

Corresponding parts in all the figures are denoted by the same numerals of reference.

Referring to the drawings, 1 designates a barrel or similar container having an ordinary bung-hole 2. My invention comprises a cylindrical body or outer member 3, which is exteriorly threaded, as at 4, and is adapted to be permanently screwed into the bung-hole, the threads 4 being adapted to tightly engage the wooden walls, as at 5, of the latter. Said cylindrical body 3 is also preferably provided at its outer end with a laterally-projecting annular flange 6, which is seated at the face of the barrel and covers the joint, as at 7, of the bung-hole. The said body member 3 is also interiorly threaded, as at 8.

9 designates an inner detachable cylindrical member, which is exteriorly threaded, as at 10, and is adapted to screw into the body member 3. Said inner member 9 may

also be provided at its front end with a laterally-projecting annular flange 11, adapted to seat against the outer face of the flange 6 of the member 3. The inner member 9 is also interiorly threaded, as at 12.

13 designates a stopper, which comprises a head 14, forming an annular laterally-projecting flange or shoulder 15 at its base, which is adapted to seat against the face of the flange or front edge 11 of the middle member 9, and is provided with a threaded stem 16, projecting rearwardly from the head 14 and adapted to screw into said member 9. The stopper 13 is preferably permanently connected with the barrel or container 1 by means of a chain, as at 17, or any other flexible retaining device, and the office of said stopper is to keep the bung-hole or opening effectively closed whenever the draw-cock is not inserted in position or before the bung-hole is tapped.

The intermediate or inner member 9 carries at its inner end 18 automatic means for opening and closing the bung-hole when the draw-cock is inserted or removed. This means comprises a flexible disk 19, formed of rubber or leather or other suitable material, which is adapted to close flat against the face of the inner end 18 of the member 9. This disk is secured in position at one portion of its periphery, so that its main portion is adapted to swing freely as a valve by means of a segmental plate 20, which preferably corresponds to the inner face or edge and bears against the outer face of the valve-disk, said securing-plate being retained and operating to secure the valve-disk in position by means of screws or bolts 21, passing through the plate 20 and disk 19 and into the member 9. The member 9 also carries a spring 22 for effecting automatic operation of the valve-disk 19, which spring preferably consists of end coils 22', from and between which extends a middle portion 23, which is preferably U-shaped and projects outwardly over the body area of the disk 19. This spring is preferably formed of a single piece of wire, and the relative construction is such that the outer end 24 of the middle portion 23 will bear with relation to the face or edge 18 at a point diametrically opposite to that at which the disk 19 is secured, whereby pressure upon the flexible and unsustained body area of the

disk is avoided. The spring 21 may be secured in position in any suitable or desired manner; but it preferably has the outer ends 25 of the coils 22' extended to form securing-points which pass through the plate 20 and disk 19 and into the member 9.

It will be noted that the relative construction and arrangement is such that the valve-disk 19 and its securing-plate 20 and the spring 22 do not in their assembled area of projection extend beyond the plane of the diameter of the detachable inner member 9, whereby the withdrawal or detachability of the latter from or with relation to the body member 3 is not interfered with.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. Ordinarily when the body member 3 is in position in the bung-hole the opening through the same may be closed by any suitable or desired bung or analogous device; but when it is desired to assemble my improved automatic bung device the inner member 9, with its operative parts, and the stopper 13 are inserted in position. Then when it is desired to tap the barrel or container it is only necessary to remove the stopper 13, the contents being retained by the automatic operation of the valve 19. The draw-cock or faucet may then be inserted through the member 9, and its inner end will automatically open the valve 19, and when the draw-cock is removed the valve will automatically close by action of the spring 22. It will be noted that the intermediate member 9, with its automatic valve attachments, may be removed from connection with the body member 3, (which may be permanently applied to the bung-hole,) as desired.

I do not desire to be understood as restricting myself to the precise details of construction and arrangement as herein shown and illustrated, as manifest variation and modification may be made without departing from the spirit and scope of my invention and im-

provements. I therefore reserve the right to all such variation and modification as properly come within the scope of my invention and the terms of the following claims.

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

1. In a bung of the class described, a detachable cylindrical member carrying at its inner end a valve-disk bearing with relation to the face of said inner end, a segmental securing-plate, means for securing said plate and disk to the carrying member, and a spring extending from said plate and embodying end coils from and between which extends a middle portion bearing against the disk.

2. An improved bung of the class described, comprising a cylindrical body member exteriorly and interiorly threaded, an inner member exteriorly threaded, a flexible valve-disk secured at part of its periphery to the inner end of said inner member and adapted to bear against the face of said inner end, and a spring carried by said inner member and embodying a projecting portion bearing against said valve-disk, the valve-disk and operating-spring being comprised within the area of the diameter of the inner member.

3. An improved bung of the class described, comprising a cylindrical body member exteriorly and interiorly threaded, an inner member exteriorly threaded, and a spring-actuated flexible valve-disk secured at part of its periphery to the inner end of said inner member and adapted to bear against the face of said inner end, the valve-disk and operating-spring being comprised within the area of the diameter of the inner member.

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

CAMILLO SAVINO.

Witnesses:

J. R. LITTELL,
GEO. VAIL HUPPERTZ.