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B. L. HENRY  
CLOSURE CONSTRUCTION

1,769,259

Filed Oct. 7, 1927

Fig. 1.

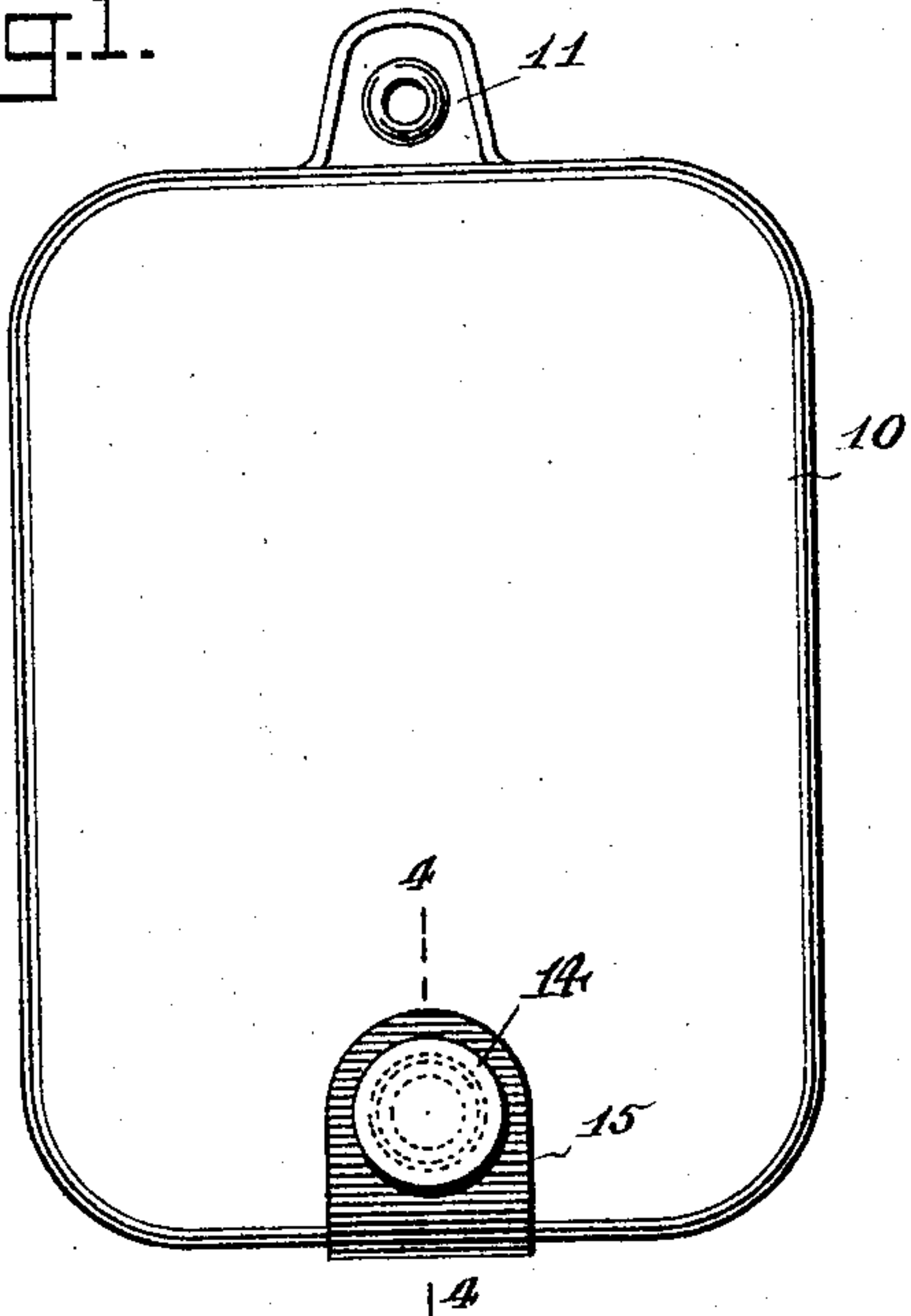


Fig. 2.

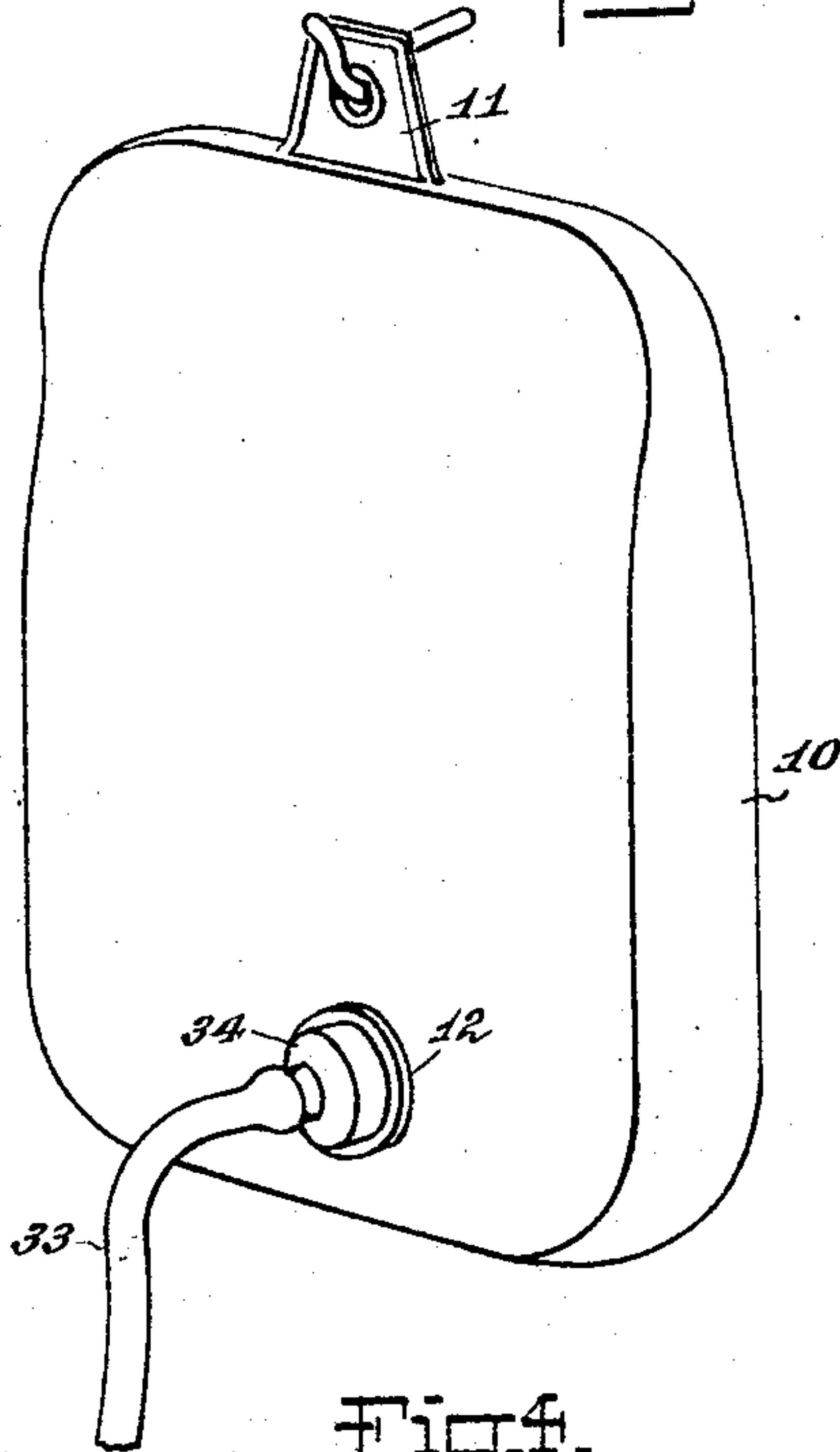


Fig. 3.

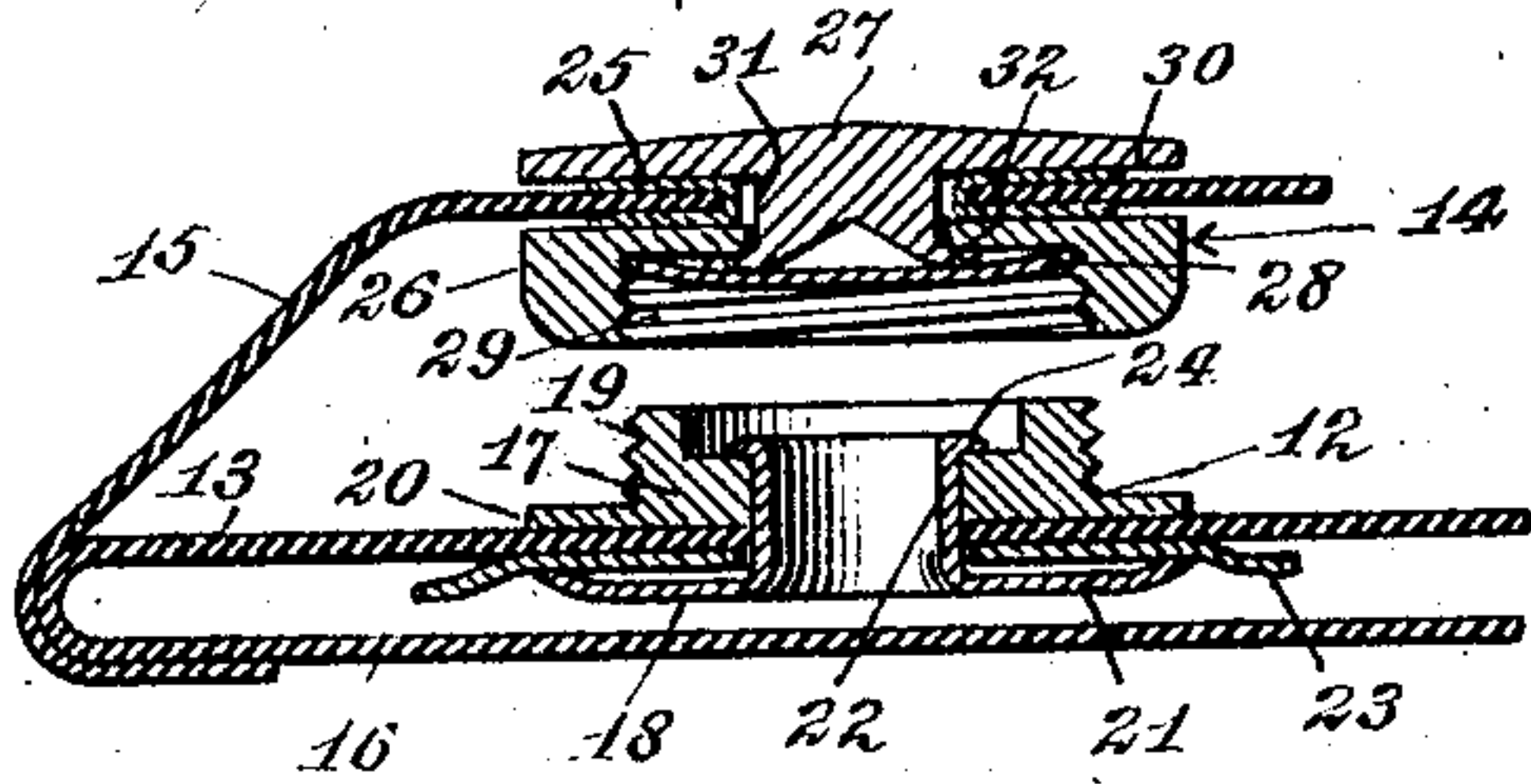


Fig. 4.

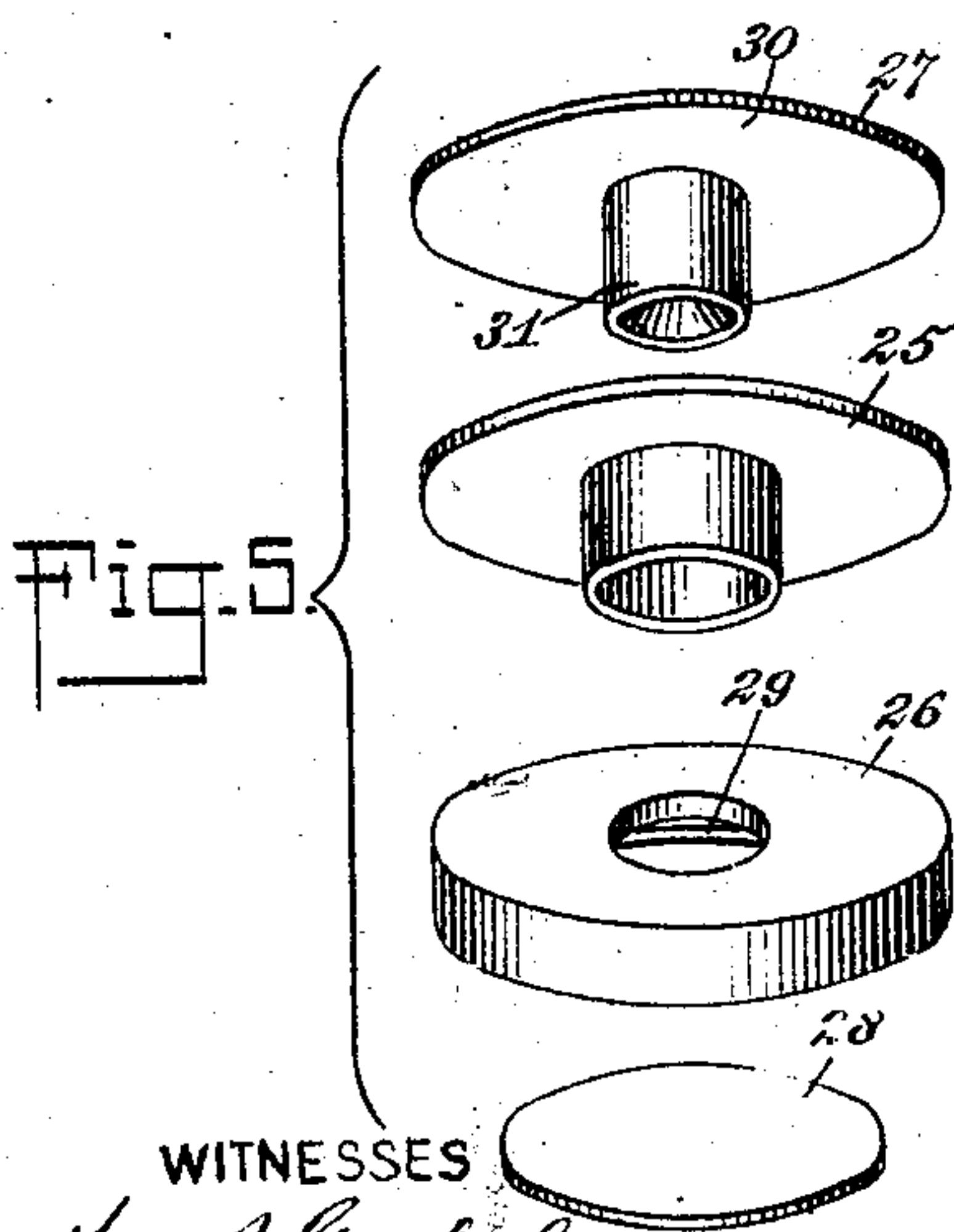
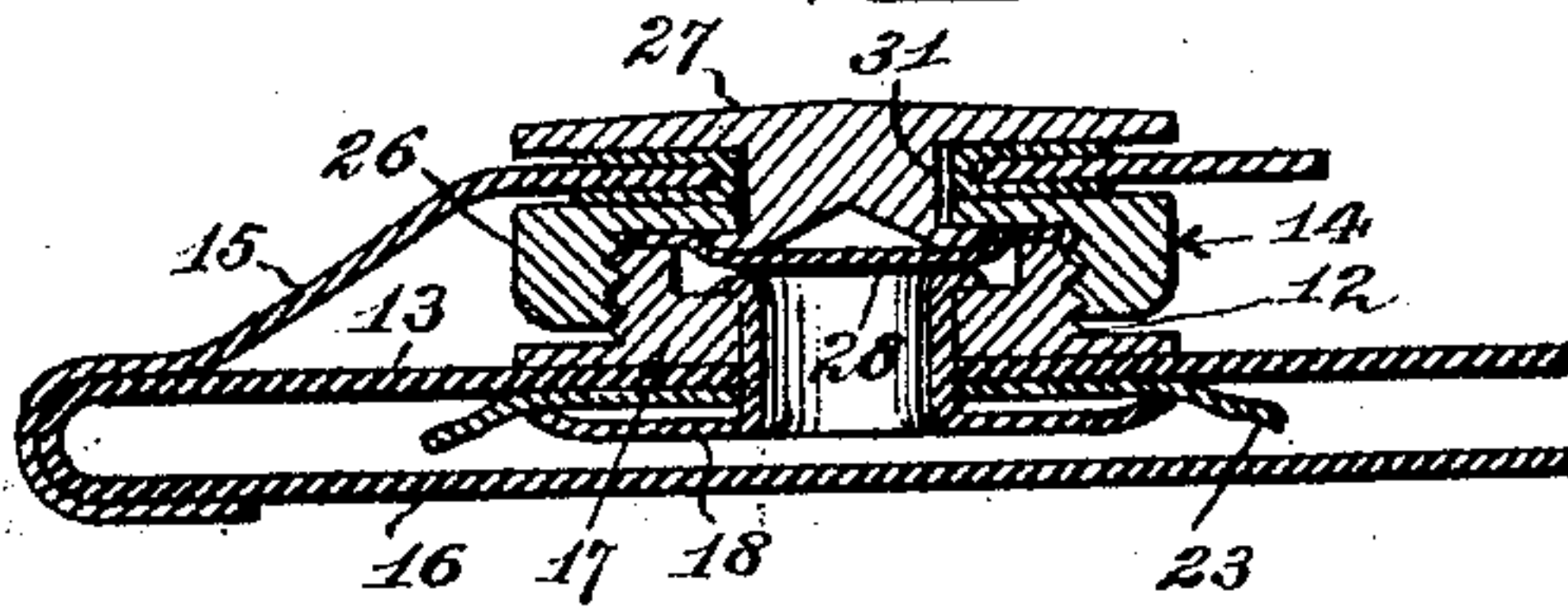


Fig. 7.

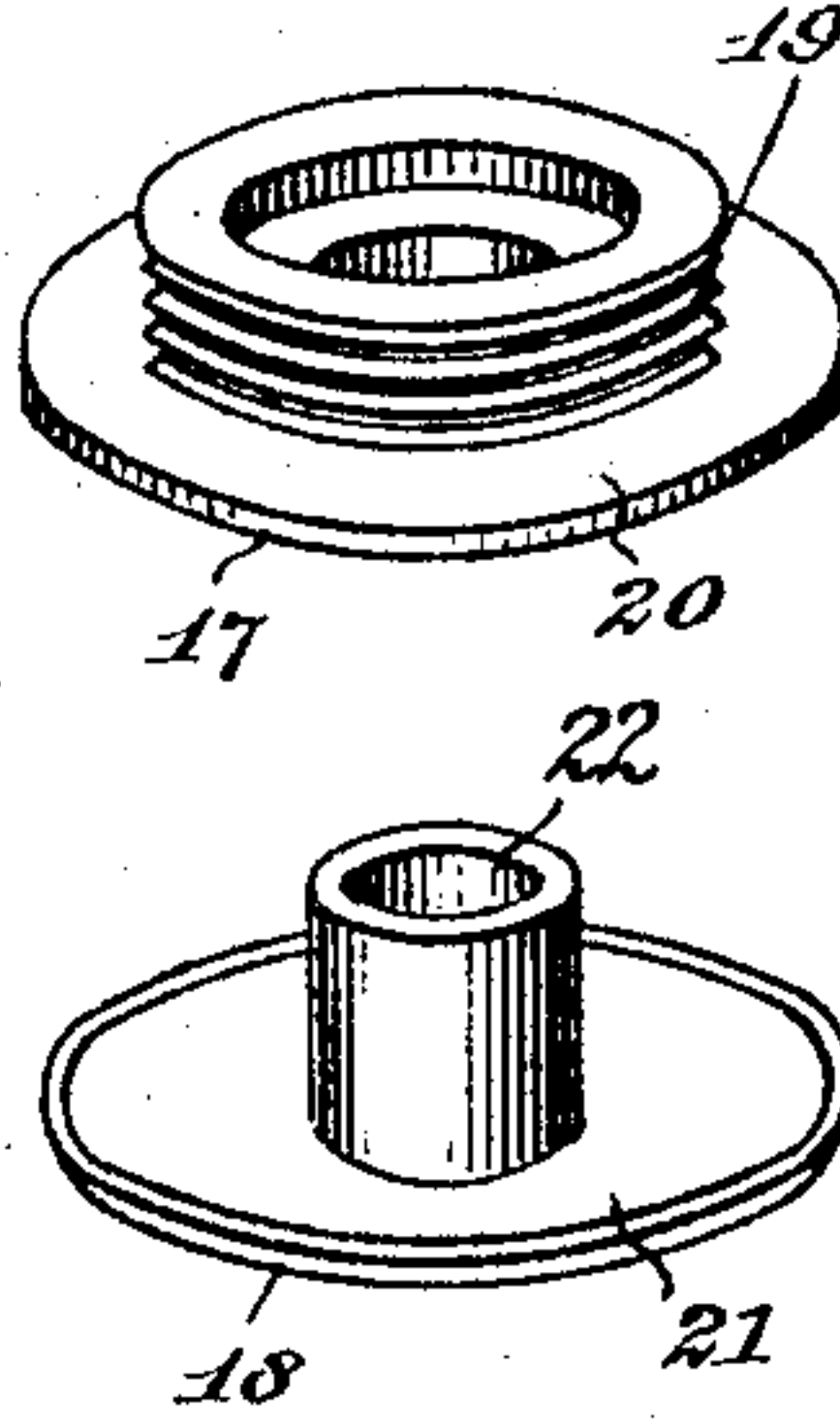
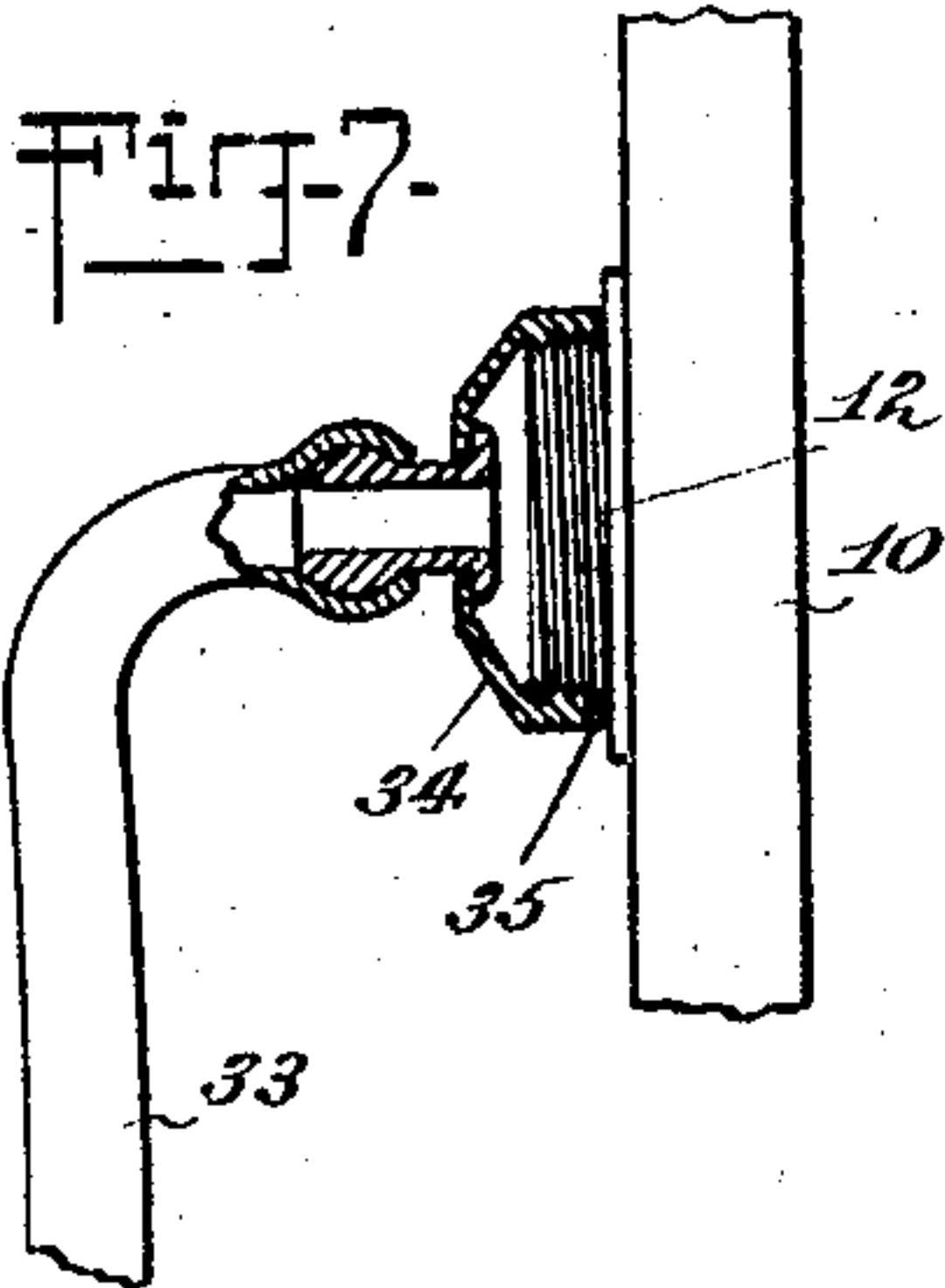


Fig. 6.

WITNESSES  
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# UNITED STATES PATENT OFFICE

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## CLOSURE CONSTRUCTION

Application filed October 7, 1927. Serial No. 224,754.

This invention relates to a closure for articles such as rubber pouches, hot water bags, syringes and the like.

Some of the objects of the present invention are: to provide a closure construction for an article of the indicated character which will be water-tight, which will be less bulky than those now provided in articles of the character mentioned, which may serve with a tube so that the article may be used as a syringe or douche, and to provide an article of the indicated character with a closure cap held captive for rotatory movement by a flexible tab, which latter, also serves for holding the article while filling the same with water.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which—

Figure 1 is a side elevation of a rubber hot water bag or bottle embodying the closure construction of the present invention.

Fig. 2 is a perspective view of the article with a tube connected therewith so that the article may be used as a syringe.

Fig. 3 is a sectional view on an enlarged scale of the closure construction and showing the cap separated from the neck.

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1 on an enlarged scale.

Fig. 5 is a collective view of the cap forming parts.

Fig. 6 is a collective view of the neck forming parts.

Fig. 7 is a sectional view illustrating one of the details.

The present invention contemplates the provision of a closure construction for containers made of rubber and adapted to contain hot water for applying heat to the body and for carrying out syringing operations, and it is contemplated to provide a closure which will be less bulky than those now provided, and which will also serve for connecting with the container a suitable tube.

Referring now more particularly to the drawings, it will be apparent that there has been shown in Fig. 1 a container body of high grade rubber of the usual oblong shape

and having a tab 11 at one end which serves for suspending the container body. The container body 10 is provided with a closure construction by virtue of which the container body is filled with hot water, which serves as a shut off to keep the water within the container body, and which allows the water to be discharged therefrom. The said closure construction generally stated consists of a neck 12 carried by a wall 13 of the container body 10, and a cap 14 held captive for rotatory movement by a flexible tab 15 having one end secured to a wall 16 of the container body.

The neck 12 consists of members 17 and 18 which are arranged respectively at opposite sides of the wall 13 and are permanently fastened together. The member 17 has an externally threaded portion 19 and a flange 20. The member 18 has a flange 21 and a tubular portion 22 received in a hole in the member 17. The wall 13 has a hole therein which receives the tubular portion 22 and a portion of said wall 13 together with a leather gasket 23 are arranged between the flanges 20 and 21, after which the extremity of the tubular portion 22 is turned over as at 24 to securely fasten the members 17 and 18 together and thus form the neck in water-tight connection with the wall 13.

The cap 14 involves the use of a grommet 25 which is applied to the tab 15, and said cap also consists of a member 26, member 27 and a disk 28. The member 26 is in the form of a socket and has internal threads 29 which are complementary to the threads of the portion 19. The member 27 has a flange 30 and a central portion 31. The members 26 and 27 are arranged respectively at opposite sides of the grommet 25, and the portion 31 extends through the grommet 25 and a hole in the member 26 and is turned over as at 32 to securely fasten the members 26 and 27 together. The members 26 and 27 thus fastened bring the flange 30 of the member 27 and a portion of the member 26 in contact with the grommet 25. The cap 14 will therefore be held captive for rotatory movement on the tab 15. The disk of leather or rubber is arranged in the socket member 26. It will now



be understood that the cap 14 may be readily screwed on to the neck 12 to effectively close the opening provided by the tubular portion 22 to hold water within the container body 10. When the cap 14 is removed, the tab 15 may be readily gripped with one hand while filling the container body 10 with water.

In accordance with another feature of the invention there is provided a rubber tube 33 having a socket 34 at one end whose threads 35 are complementary to the threads of the portion 19. When the cap 14 is removed from the neck 12, the tube 33 may be connected therewith as shown in Figs. 2 and 7 so that the article may be used for carrying out syringing operations.

I claim:

1. The combination with a container body, of a flexible tab secured to said container body, a grommet carried by the tab, a cap consisting of members having portions which receive therebetween said grommet, and one of said members having an arbor which extends through said grommet, and which is crushed against the other member to fasten said members together, the construction and arrangement being such that the cap is rotatably held captive on the container body.

2. The combination with a container body, of a flexible tab secured to said container body, a grommet carried by the tab, a cap consisting of members having portions which receive therebetween said grommet, and one of said members having an arbor which extends through said grommet, and which is crushed against the other member to fasten said members together, the construction and arrangement being such that the cap is held captive on the container body and allowed to have rotatory movement, said cap being threaded to adapt it for screwing engagement with and disengagement from a threaded member.

Signed at New York in the county of New York and State of New York this 5th day of October, A. D. 1927.

BEULAH LOUISE HENRY.

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