

No. 728,981.

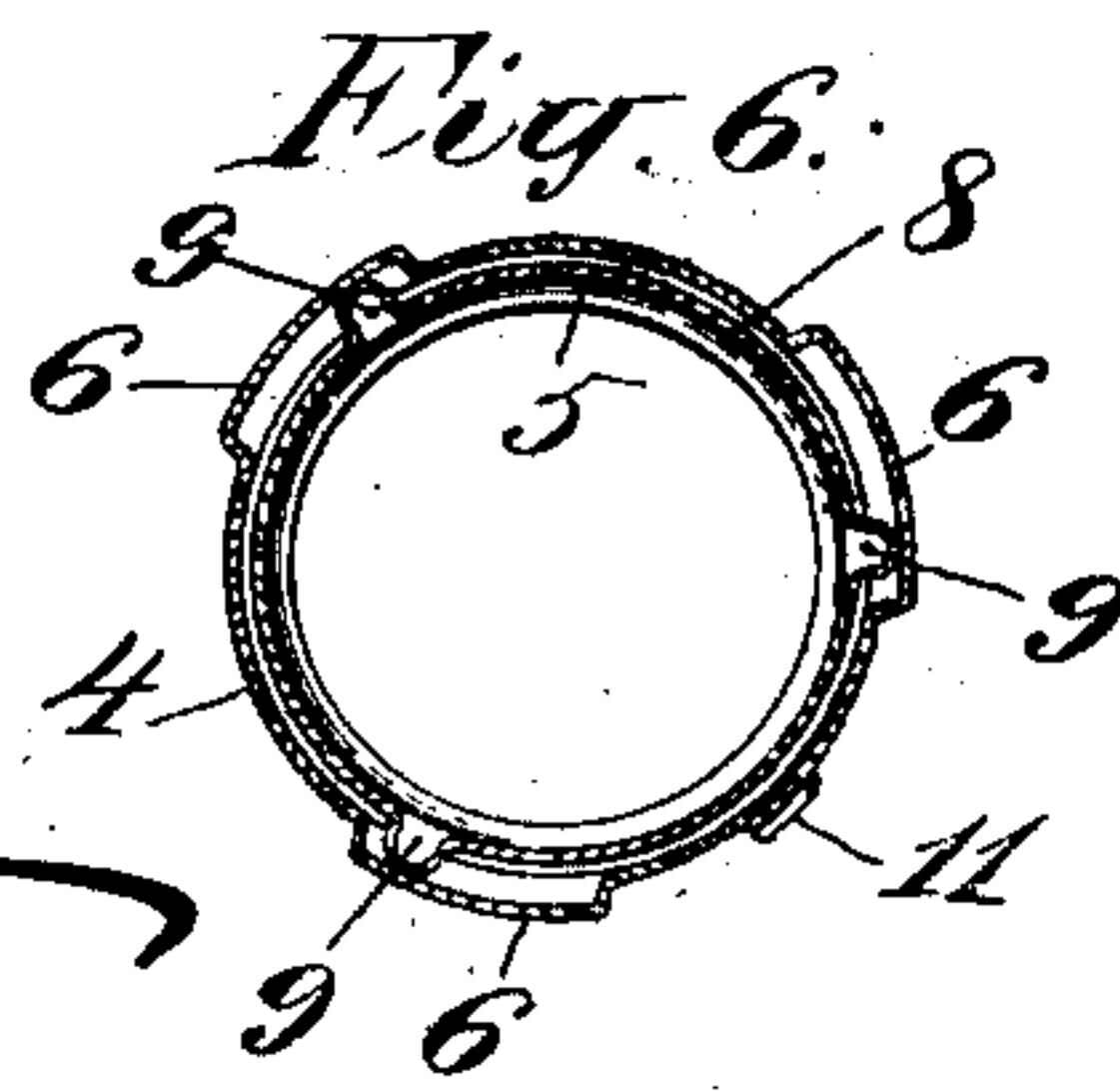
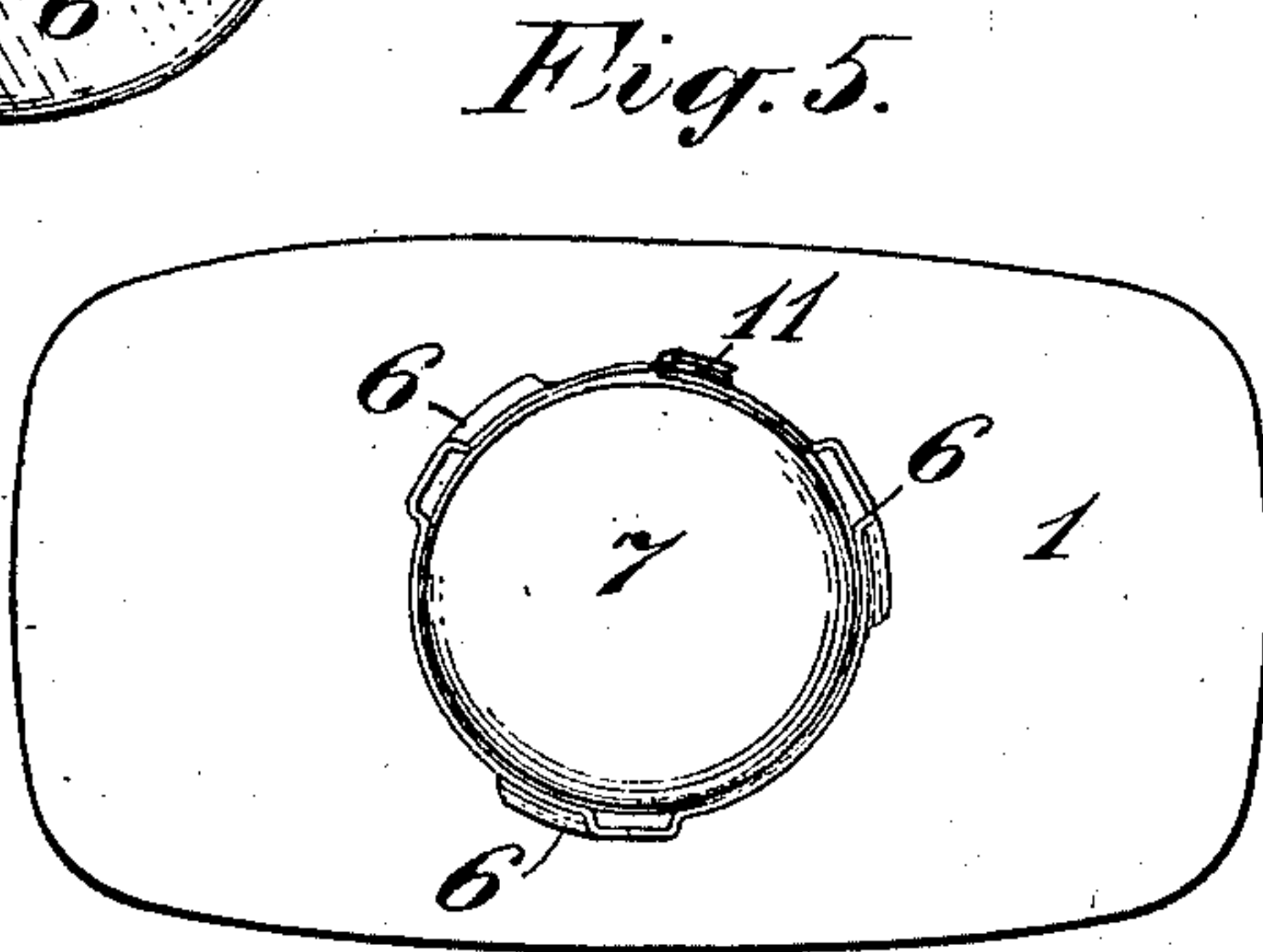
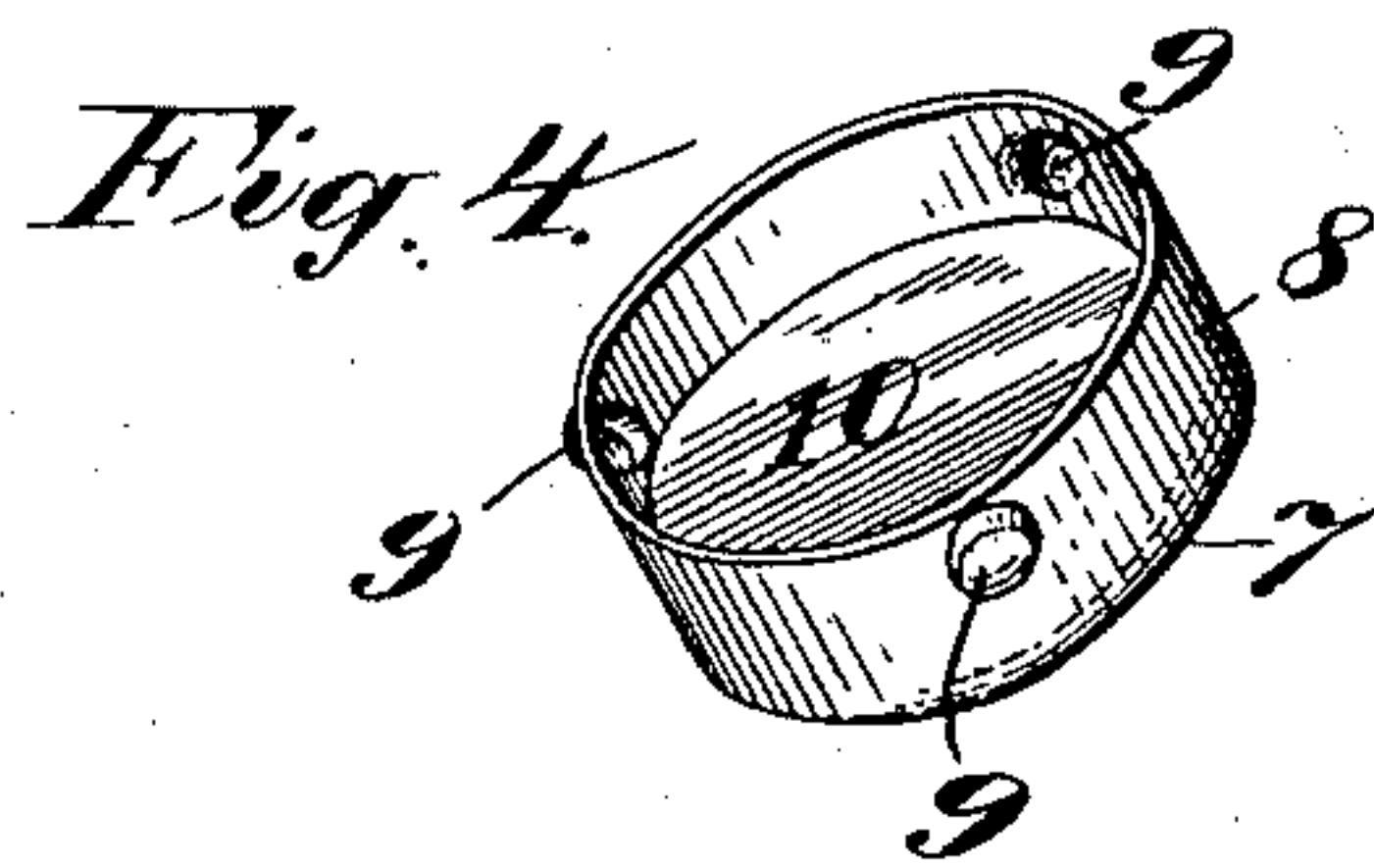
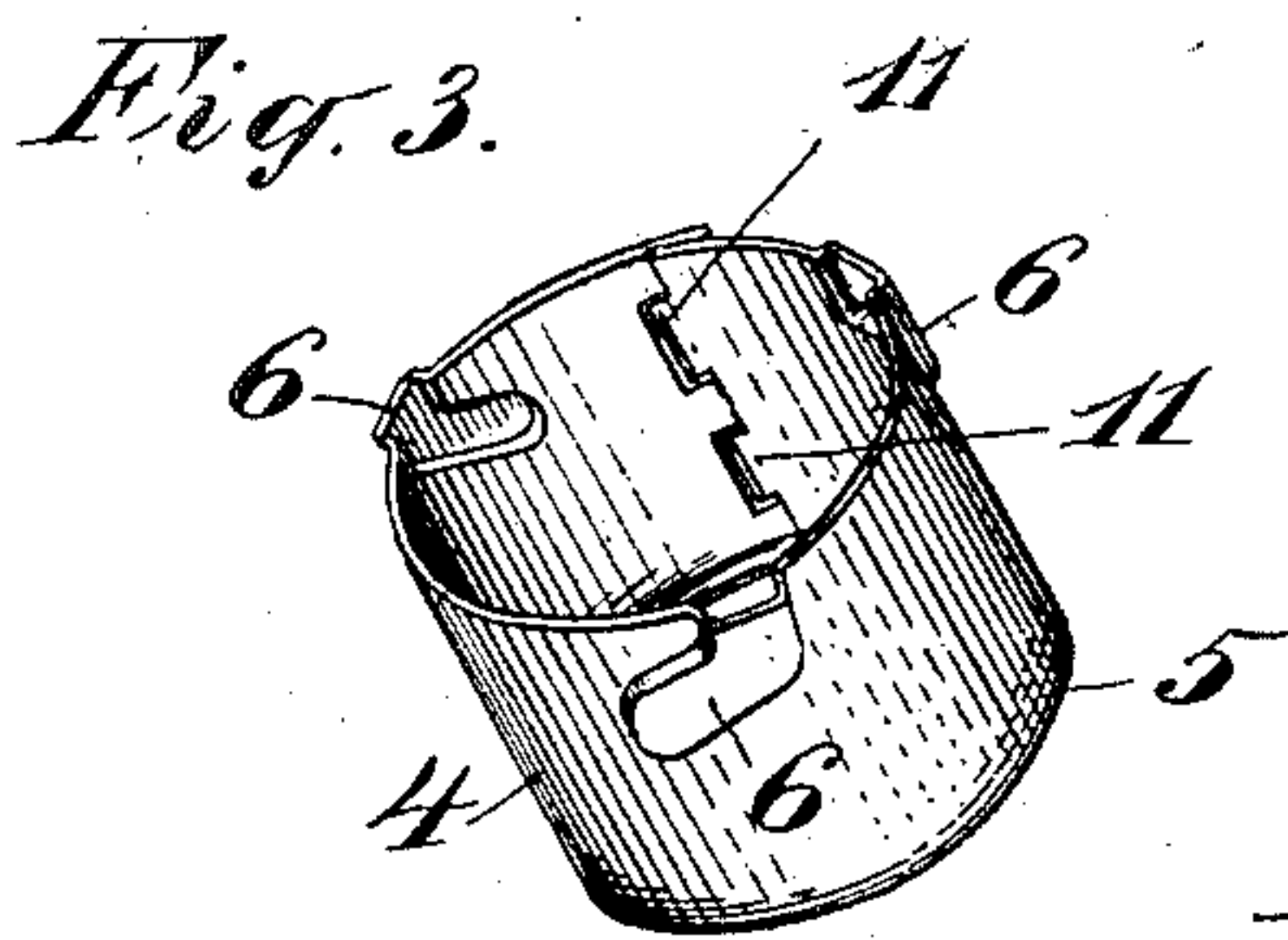
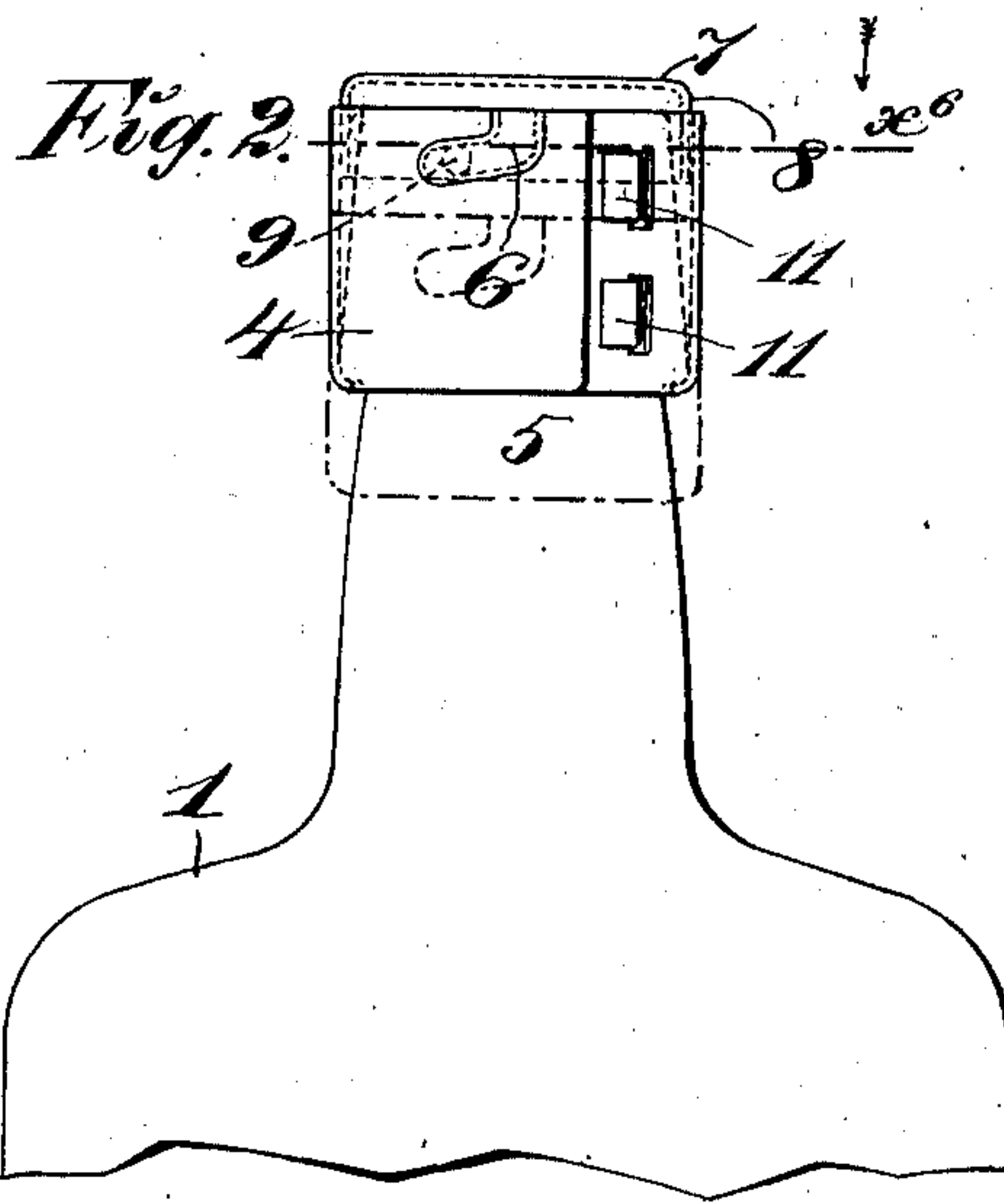
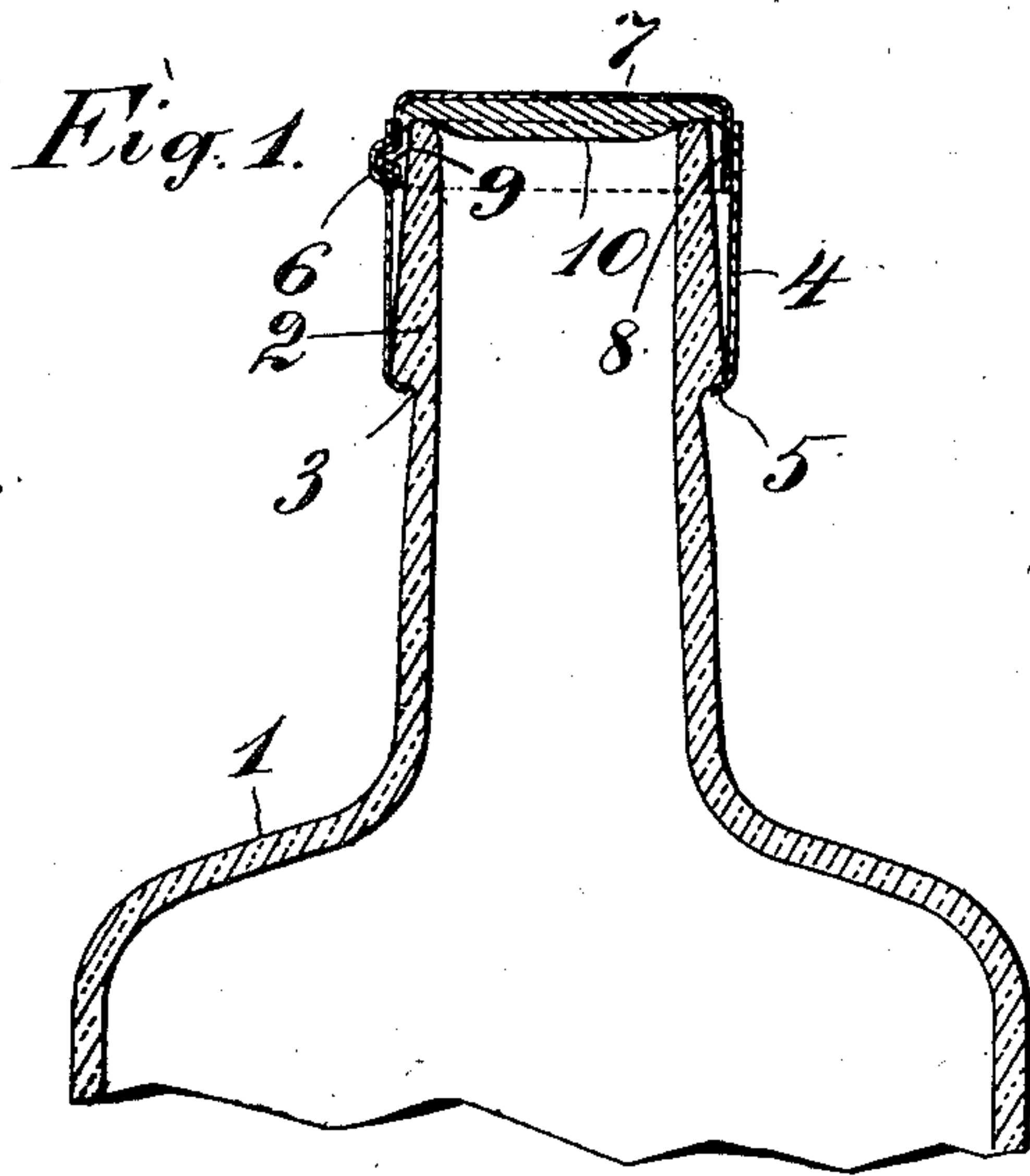
PATENTED MAY 26, 1903.

W. L. ROSE.

CLOSURE FOR BOTTLES OR SIMILAR RECEPTACLES.

APPLICATION FILED OCT. 1, 1902.

NO MODEL.



WITNESSES:

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WILLIAM L. ROSE, OF BROOKLYN, NEW YORK.

CLOSURE FOR BOTTLES OR SIMILAR RECEPTACLES.

SPECIFICATION forming part of Letters Patent No. 728,981, dated May 26, 1903.

Application filed October 1, 1902. Serial No. 125,504. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. ROSE, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, and city and State of New York, have invented certain new and useful Improvements in Closures for Bottles or Similar Receptacles, of which the following is a specification.

This invention relates to cap-like closures for bottles, jars, and the like, the object being to effect a hermetic closure capable of resisting internal pressure, although it may be applied as well to receptacles where there is no such pressure.

The characteristic features of the present invention are its applicability to ordinary bottles or any bottle or jar having a fillet on the neck and the interlocking of the cap which closes the mouth, with a loose sliding collar or sleeve on the bottle-neck, which sleeve remains always on the bottle, though the cap may be lost or discarded and replaced at will.

In the accompanying drawings, which serve to illustrate an embodiment of the invention, Figure 1 is an axial section of a part of a bottle, showing the cap and sleeve in place, with the former closing the bottle. Fig. 2 is a side elevation of the same. Fig. 3 is a perspective view of the sleeve detached, and Fig. 4 is a similar view of the cap detached. Fig. 5 is a plan of the bottle and closure. Fig. 6 is a horizontal section of the sleeve and the cap interlocked therewith, the plane of the section being at line x^6 in Fig. 2. This view shows the sleeve and cap detached, but interlocked.

1 designates a bottle having a fillet 2 on its neck about the mouth of the bottle. This is an ordinary construction found on most bottles, the thickening produced by the fillet forming a circumferential shoulder 3 about the neck. Mounted slidably on or about the neck and large enough to embrace the fillet thereon is the sleeve 4, which may be of sheet metal, although the material of which it is made is not important to this invention. At its lower end the sleeve has on it some means adapted to take under the shoulder 3 on the bottle, and this may be conveniently an in-turned flange 5 on the lower edge of the sleeve. At its upper end the sleeve has formed in

it slots or keyways 6. There will be two or more of these keyways, and preferably three, and these will be by preference placed at equal distances apart about the sleeve. It is preferred to form these keyways by swaging or embossing the material of the sleeve, and each opens out at the top of the sleeve and has an L shape, like a bayonet-fastening.

The cap 7 has a pendent flange 8, and on this flange are studs 9 of the proper number and properly placed to enter the respective keyways 6 on the sleeve. If the cap be made from sheet metal, as it will by preference, the studs 9 may be formed by embossing. In the cap is the usual packing 10, which may be of cork in the form of a disk. This feature of packing material in the cap is common in closures, and the present invention is not limited to any means for making the joint hermetic.

The manner of effecting the closure is simple. The cap is placed over the mouth of the bottle and the sleeve slipped up on the bottle-neck until the several studs 9 on the cap enter the mouths of the respective keyways 6 in the sleeve and far enough to cause the flange 5 on the sleeve to engage the shoulder 3 on the bottle-neck. This will bring the stud 9 down in the keyway to the point where the oblique lateral branch of the latter connects with the longitudinal or entering branch thereof. The sleeve is now turned about the bottle-neck in a manner to cause the studs on the cap to engage the said oblique branches of the respective keyways, and the cam-like walls of the latter draw down the cap snugly on the bottle-mouth, thus closing it tightly. Obviously the cap will be held against rotation while the sleeve is rotated, and obviously, also, the cap may be released by a reversal of the operation described.

It will be noted that the sleeve 4 interlocks with the cap and draws it down through its engagement under the shoulder 3 on the neck and also that while the cap is removable from the bottle the sleeve remains permanently on the bottle-neck.

As the sleeve cannot be conveniently slipped over the neck of the bottle in its tubular form and the flange 5 afterward formed thereon, it is found convenient to form it in the flat, bend it about the bottle-neck, and

secure its edges together in some manner. As herein shown, this result is attained by means of clips 11 on one margin made to engage corresponding slots in the other margin, 5 the clips being then bent down. However, this invention is not restricted in any way to the particular means employed for securing the edges of the sleeve, nor indeed to the use of an open sleeve with a primarily formed 10 flange 5. The flange 5 or its equivalent might be formed on the sleeve after the latter is in place on the neck of the bottle or other receptacle.

Having thus described my invention, I 15 claim—

1. In a closure for bottles and the like, the combination with a flanged cap having a plurality of studs on its flange, of a sleeve which slidably embraces the neck of the receptacle, 20 said sleeve having means which engage or take behind a shoulder on the said neck, and having keyways to engage the respective

studs on the cap, said keyways having each an oblique lateral branch for drawing down the cap to its seat when the sleeve is axially 25 rotated.

2. The combination with bottle or like receptacle having a shoulder on its neck, of a closure for said receptacle comprising a flanged cap to fit over the mouth of the re- 30 ceptacle, said cap having a plurality of studs on its flange, a packing in said cap, and a locking-sleeve loosely slidable on the neck of the receptacle, said sleeve having an intumed flange to engage the shoulder and at its outer 35 end keyways to engage the studs on the cap and hold it firmly in position on the bottle.

In witness whereof I have hereunto signed my name, this 18th day of September, 1902, in the presence of two subscribing witnesses. 40

WILLIAM L. ROSE.

Witnesses:

HENRY CONNETT,
PETER A. ROSS.