

No. 850,437.

PATENTED APR. 16, 1907.

D. O. LYNCH.  
BOTTLE CLOSURE.  
APPLICATION FILED JUNE 8, 1906.

FIG. 1.

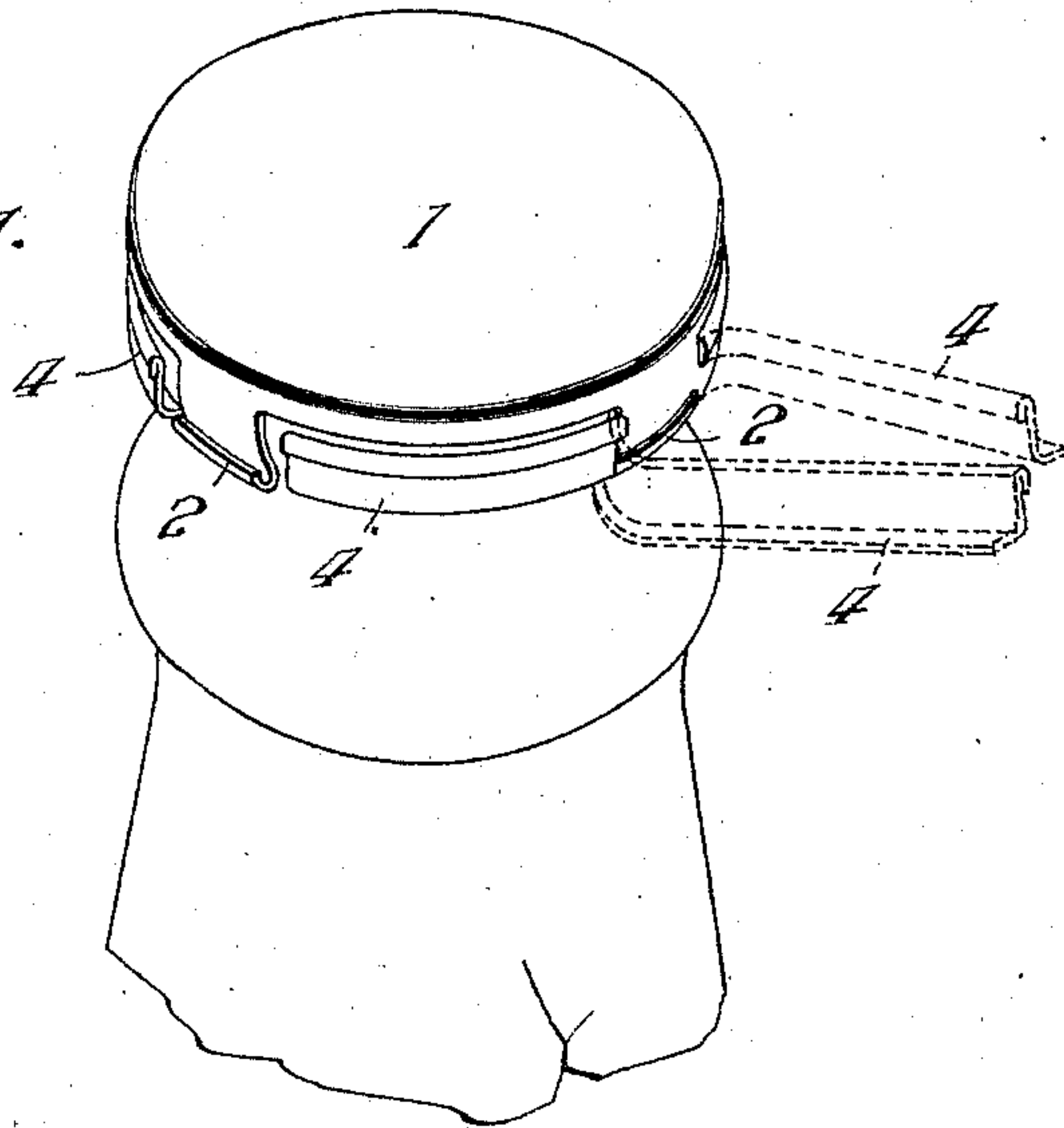


FIG. 2.

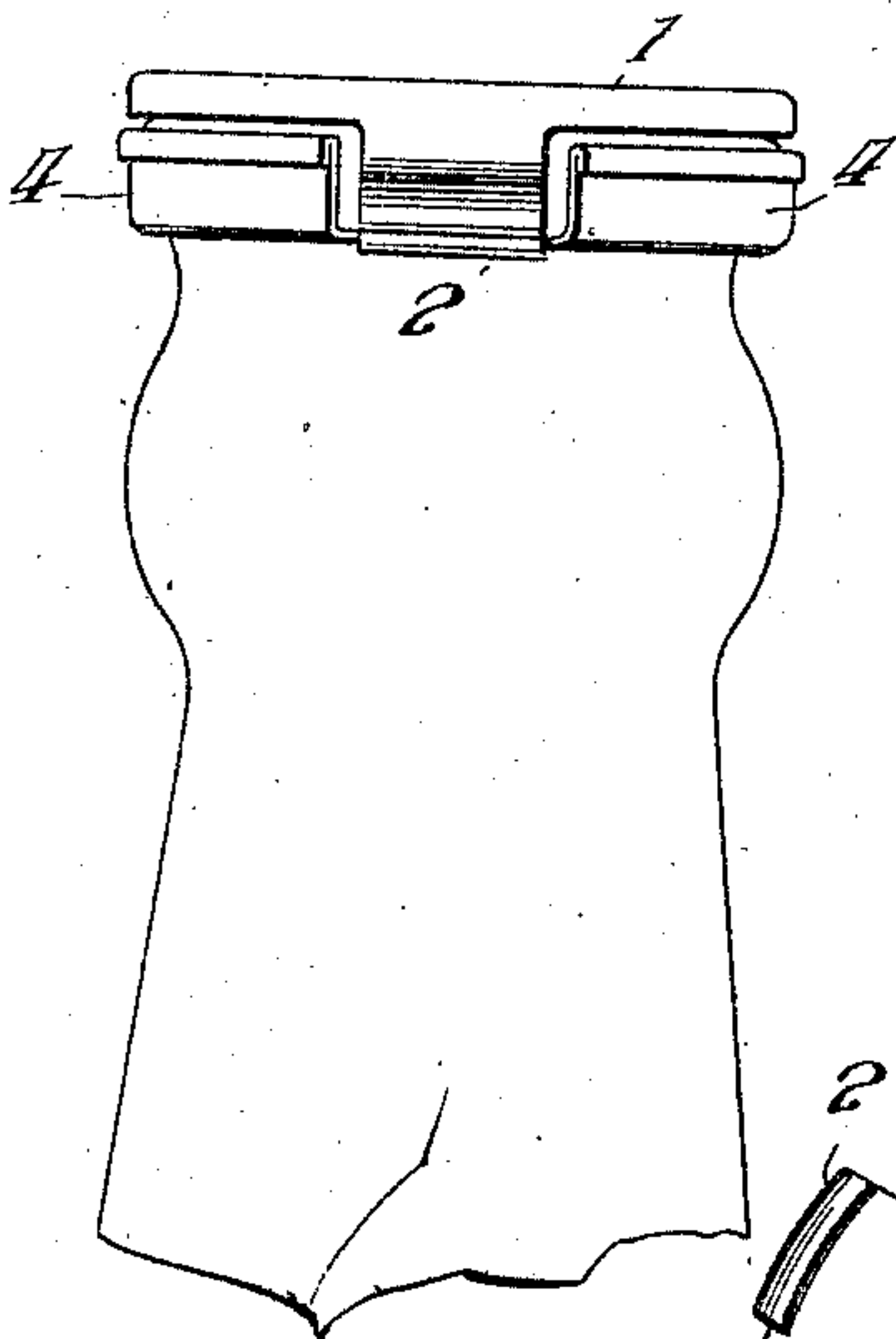


FIG. 3.

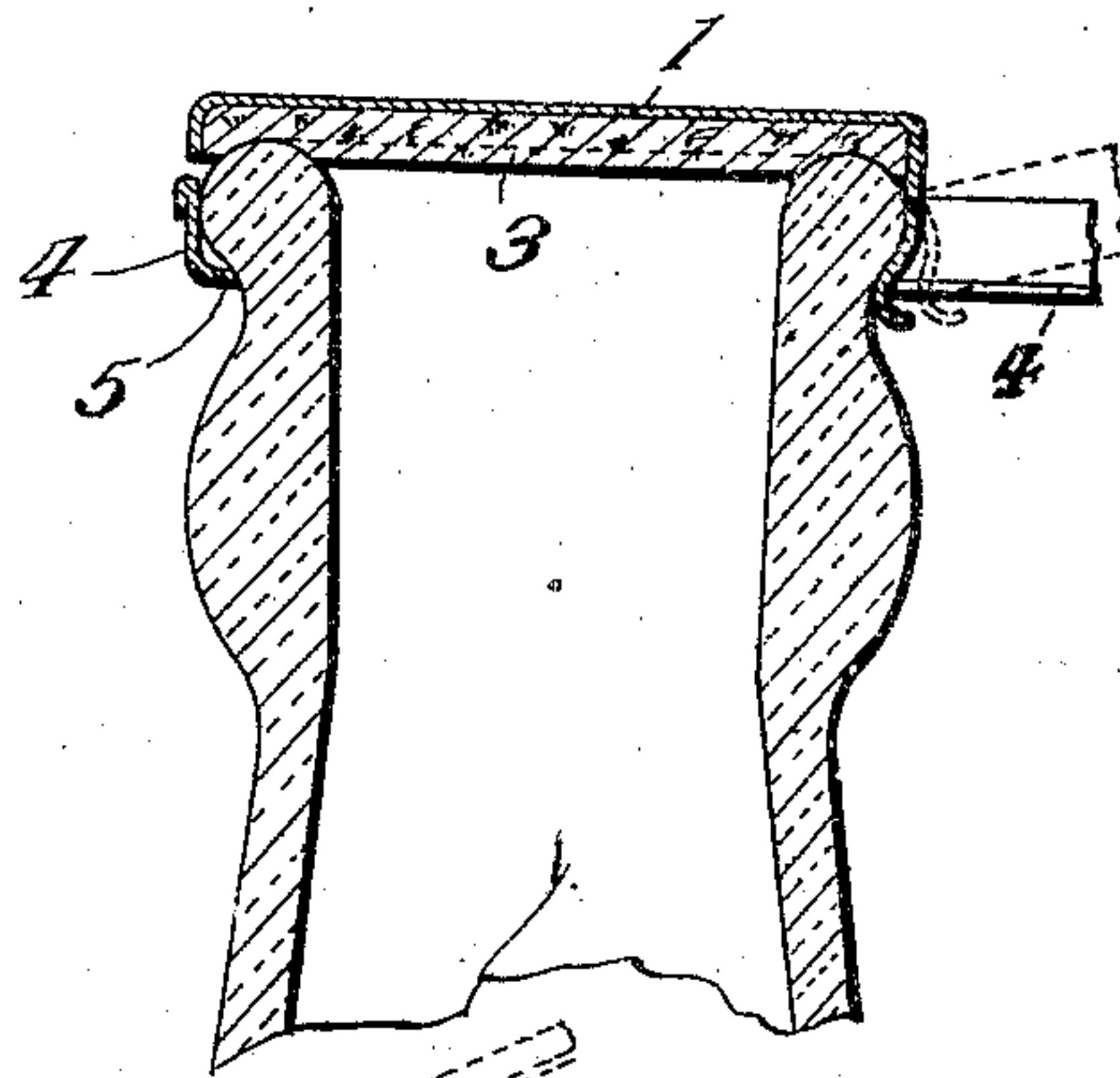
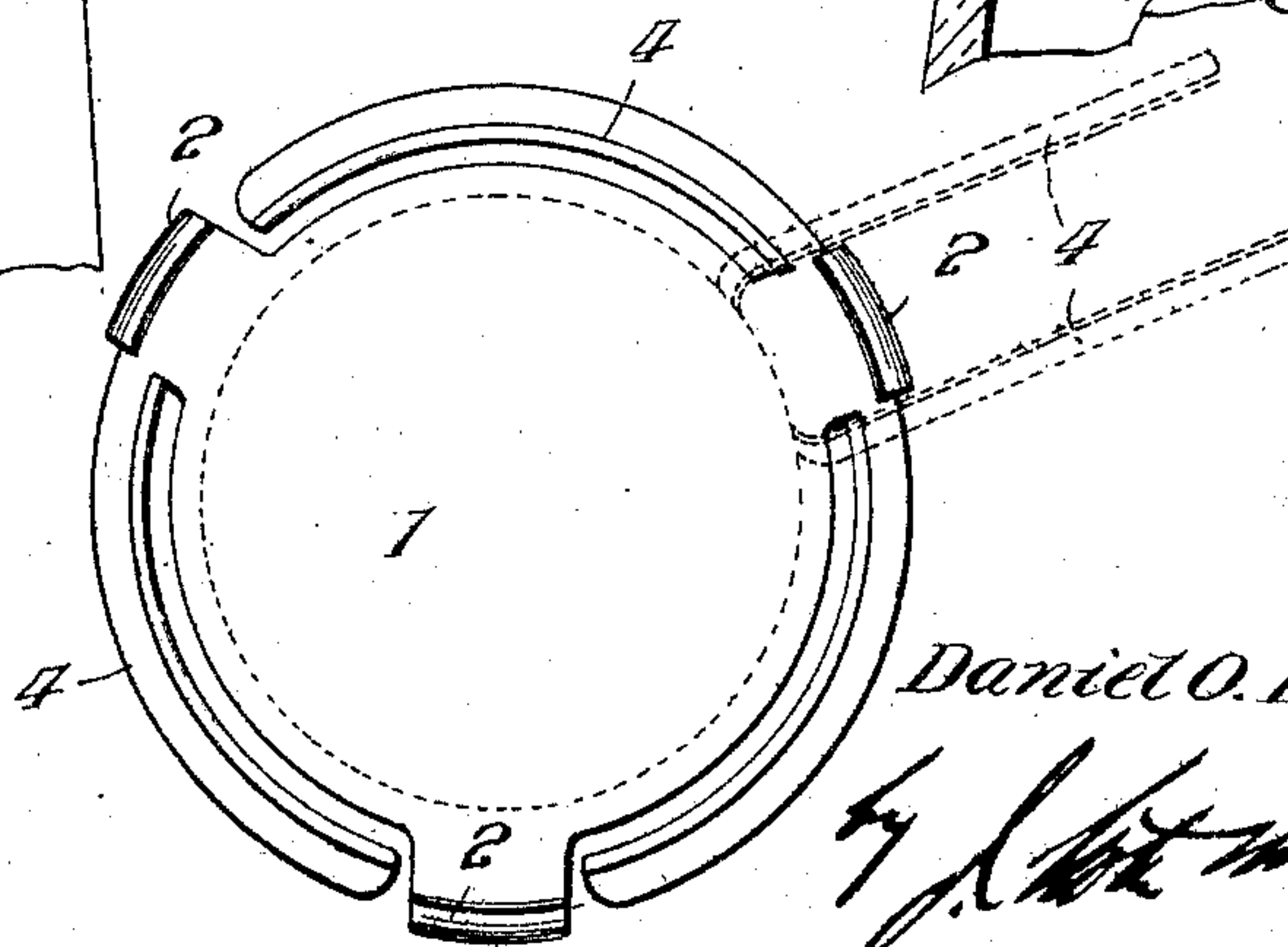


FIG. 4.



Witnesses

*Franco S. Chapman*  
*John A. Murphy*

Inventor

*Daniel O. Lynch,*

*[Signature]*

Attorney



# UNITED STATES PATENT OFFICE.

DANIEL O. LYNCH, OF WILKES-BARRE, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO CHARLES H. CASPAR AND ONE-FOURTH TO HENRY T. SCHULZ, OF WILKES-BARRE, PENNSYLVANIA.

## BOTTLE-CLOSURE.

No. 850,437.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed June 8, 1906. Serial No. 320,837.

*To all whom it may concern:*

Be it known that I, DANIEL O. LYNCH, of Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Bottle-Closures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide a sealing-cap for bottles having within itself means enabling it to be readily removed and yet capable of being capped to a bottle by any of the standard machines.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a bottle-neck with the seal attached, the means for removing the seal being shown in operative position in dotted lines. Fig. 2 is a side elevation. Fig. 3 is a central cross-sectional view showing parts in dotted lines. Fig. 4 is a top plan view.

Referring to the drawings, 1 designates the metallic sealing-cap, in the form of a flat disk rounded downwardly at its edge and having a plurality of depending binding-lips 2, which at their lower ends are bent inwardly into engagement with the usual bead of the bottle-neck. Preferably I employ three of these depending binding-lips, spaced apart equal distances, and by means thereof the cap is firmly secured in place over the mouth of the bottle, the ordinary cork disk 3 serving to hermetically seal the bottle. Extending laterally from at least two of these depending lips are arms 4, which are bent inwardly along their lower edges, as at 5, Fig. 3, into locking engagement with the bead of the bottle-neck. I have shown three such arms, two extending laterally from one of the lips and the third from a second lip, the third lip not being equipped. It is manifest, however, that one arm may project from each of the lips, if desired. The purpose of these arms is not only to aid in retaining the cap in place, but primarily to furnish means for effecting the quick and easy removal of the cap. By bending any one of the arms out-

wardly at approximately right angles to its normal position the same will serve as a lever for prying off the cap. I have found it specially advantageous to utilize two of the arms for this purpose, and hence the reason for forming two of the arms with one of the lips. As shown in Figs. 3 and 4, when these arms are bent outwardly away from the bottle and about approximately parallel, as shown in dotted lines, Fig. 4, they may be forced upwardly, (see dotted lines, Fig. 3,) withdrawing their respective lip from engagement with the bottle and permitting the cap to be forced therefrom. The same result may be secured, but possibly not in as facile a way, by the single arm.

It will be observed that all of the parts of the cap are within the plane of those portions which engage with the bead of the bottle-neck. In consequence the cap may be readily applied to bottles by any standard capping-machine. There is no portion of the cap which projects either laterally or otherwise beyond the plane of the ordinary cap. In other words, no one of the arms constitutes a longitudinal elongation of the retaining-lips; but, on the contrary, such arms themselves encircle the bottle and aid in retaining the cap in place, and when it is desired to remove the cap it is only necessary to bend either one or two of the arms outwardly at right angles to the bottle and then force upwardly thereon to effect the disengagement of one of the lips, thus permitting the ready removal of the cap.

I claim as my invention—

1. In a bottle-closure, a metallic disk and a band or flange depending therefrom and encircling the bottle-neck, said band comprising a series of lips and a series of arms extending laterally from the lips, said lips and said arms being in engagement with the bead of the bottle throughout the lengths of their lower edges, whereby said arms may be bent away from the bottle and out of engagement with the bead thereof to form means for effecting the removal of the disk.

2. The herein-described bottle-closure consisting of a metallic disk having a plurality of depending lips designed to be bent at their lower ends into engagement with the bead of the bottle-neck, arms engaging said bead

throughout their lengths and located between said lips to which they are secured, each arm being free at one end, two of the arms being secured to the same lip and all  
5 capable of being readily bent outwardly to form levers for effecting the disengagement of any one of the lips for removing the disk.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL O. LYNCH.

Witnesses:

WM. POKORNY,  
JOSEPH J. BAER