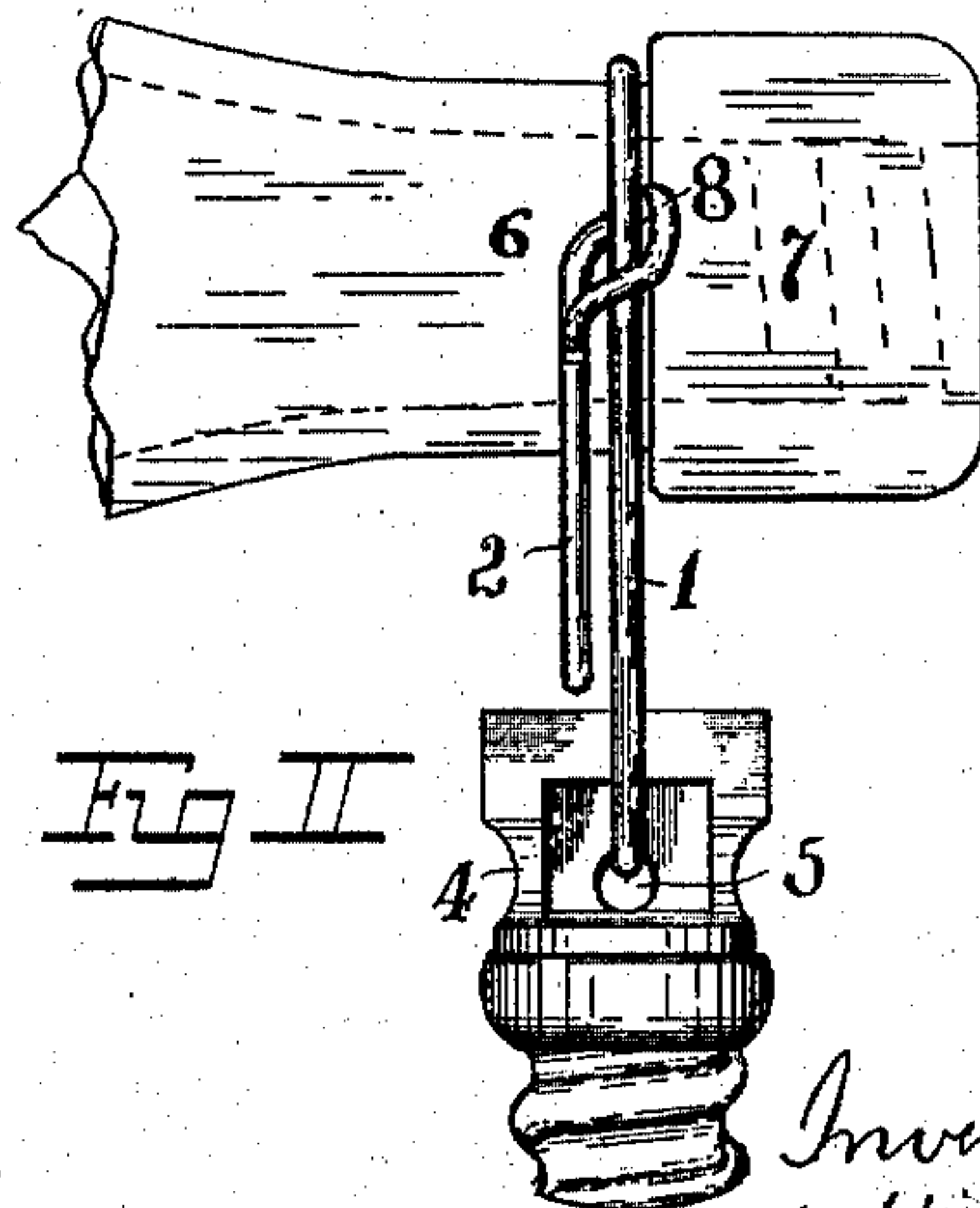
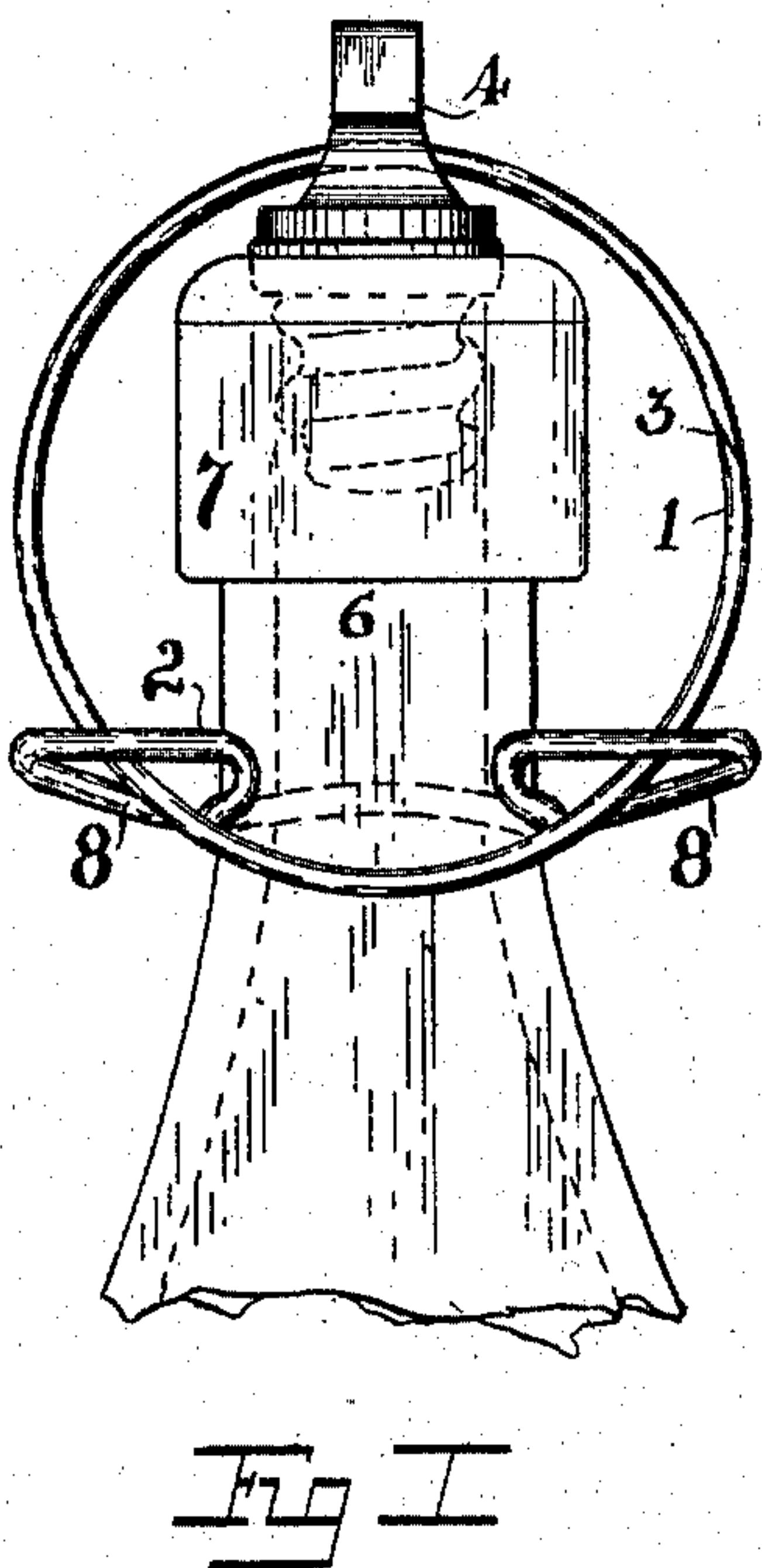
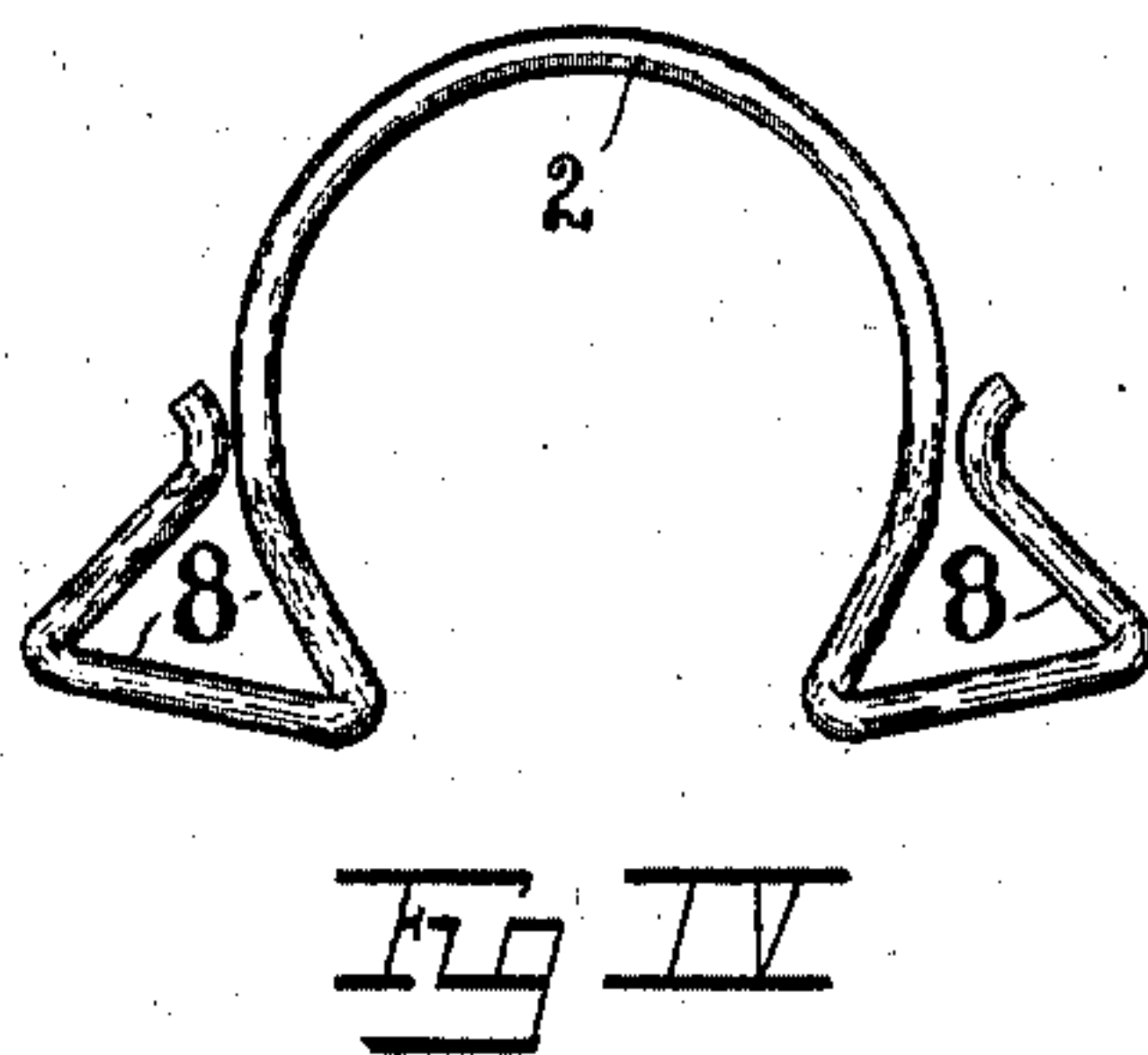


965,784.



Witnesses:  
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By B. Singer atty



# UNITED STATES PATENT OFFICE.

SYDNEY JOSEPH CROWTHER WILKINSON, OF JOHANNESBURG, TRANSVAAL.

MEANS FOR ATTACHING BOTTLE-CLOSURES.

965,784.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed April 21, 1909. Serial No. 491,296.

*To all whom it may concern:*

Be it known that I, SYDNEY JOSEPH CROWTHER WILKINSON, merchant, subject of the King of Great Britain, residing at National Mutual Buildings, Rissik street, Johannesburg, Transvaal, have invented new and useful Improvements in Means for Attaching Bottle-Closures, of which the following is a specification.

10 The present invention relates to bottle closures of the "screw stopper" type. Such closures are intended to be replaced in the bottle after the latter has been emptied; but, as a matter of fact, they are very frequently  
15 lost or misappropriated, entailing in the aggregate considerable cost to the bottlers in replacing them.

It is the purpose of the present invention to provide a simple, inexpensive and convenient device for attaching the stopper to the bottle, which does not interfere with many of the well known bottling operations and which is readily attached or detached when required, as *e. g.*, for certain special  
20 bottling operations, or otherwise.

The invention practically embodied in the preferred form is shown in the accompanying drawings, in which—

Figure I shows it assembled upon the bottle, with the stopper in place, Fig. II is a view showing the device from the side, when the bottle is being emptied, Fig. III is a view of the stopper and ring detached, and Fig. IV a view of the clip detached, such  
30 last named parts being described hereunder.

The device is preferably formed of resilient wire and is composed of a ring 1 and a clip 2. Said ring is split at 3, the joint being so disposed as to appear obliquely upon the  
40 face of the ring for a reason that will appear hereafter. The ring engages the stopper 4 by passing through a hole 5 formed in the latter.

The clip 2 is of a generally arcuate shape, its arc in plan being rather more than half a circle of an interior diameter greater than that of the bottle neck 6 but rather less than that of the collar 7. Such arc, as shown terminates in a pair of eyelets 8 turned somewhat upward at the ends, and the ring 1 is passed through said eyelets in the manner shown.

In use, as the stopper 4 is unscrewed, the whole attaching device rotates with it. The  
55 vertical movement of the stopper necessary to disengage it from the bottle is permitted

by the play of the ring 1 within the eyelets 8 and of the clip 2 upon the neck 6. Upon such disengagement being effected and the bottle being tilted for pouring, the stopper 60 4 is suspended by the ring 1 clear of the liquid being poured, as shown in Fig. II. The ends of the eyelets 8 are turned upward sufficiently to permit the ring freely to hang thus.

The ring and stopper can only fall to the side of the bottle opposite to the eyelets 8, since any considerable movement in the opposite direction is prevented by the extreme lower part of the ring (Fig. I) contacting with the bottle neck and the part of the ring immediately above making contact with the transverse parts of the eyelets 8. The ring thus pivots about the opposite side of the neck to that on which the stopper falls and the range of movement of the latter laterally from the center of the bottle neck is thus limited to a distance equal to the diameter of the ring less half the diameter of the bottle neck. This is a great advantage as compared with most existing devices of a similar nature. In packing bottles with such existing devices into the usual partitioned shipping cases, it frequently happens that the stopper and stopper attachment of one bottle projects into the adjacent compartment and are broken off or damaged by the insertion of a bottle into such adjacent compartment. The present invention permits the stopper, when loose, to be kept at all times sufficiently close to its bottle to obviate such mischance.

It will be seen that the ring and clip together completely encircle the neck of the bottle at all times and the ring thus effectually locks the clip against displacement from the neck laterally, although the width between the cusps of the clip arc may be actually greater than the diameter of the neck. Moreover, displacement by a vertical pull upon the stopper is obviated owing to the ring then tending to force together the cusps of the clip and thus prevent that expansion of the latter which is necessary for it to pass over the collar 7, and also by the fact that when the ring is disposed vertically it also engages the underside of the collar. The only manner in which the device may be removed is either by disassembling it, which is done by springing the joint 3 of the ring 1 off the eyelets 8, or by so pressing apart the cusps of the clip as to expand it



sufficiently to pass over the collar 7. The latter is the method commonly adopted both in putting the device onto the bottle and removing it therefrom. It will be understood from an inspection of the drawings, that the arrangement of the ring joint 3 as shown is such as to render it difficult for the ring to be inadvertently sprung off the clip or the stopper.

10 What I claim and desire to secure by Letters Patent is:—

1. A device for attaching a screw stopper to a bottle including a clip embracing the bottle neck and a circular split member hinged to said clip, to which member the stopper is non-rotatively attached.

2. A device for attaching a screw stopper to a bottle including a clip detachably embracing the bottle neck and circular resilient split member hinged to said clip, to which member the stopper is separably attached.

3. A two part device for attaching a screw stopper to a bottle, consisting of a clip partially encircling the bottle neck, and a member engaging both the stopper and said clip, whereby said clip and member together completely encircle the bottle neck.

4. A two part device for attaching a screw stopper to a bottle including a clip partially encircling the neck of the bottle and a ring attached to the stopper and engaging the clip so that such parts together completely encircle the bottle neck.

5. A two part device for attaching a screw stopper to a bottle, including a clip forming more than half a circle of a diameter greater than that of the bottle neck but less than that of the neck collar, and a member to which the stopper is attached, so hinged to said clip as to lock it upon the bottle neck.

6. A device for attaching a screw stopper to a bottle including an arcuate clip terminating in upturned eyelets and a split ring engaged by said eyelets and engaging an aperture in the stopper.

7. A device of the class described comprising in combination with a bottle and a stopper therefor provided with an apertured head, a circular split ring extending through the aperture in the head of said stopper, and a clip connected with said ring and loosely embracing the neck of said bottle.

8. A device of the class described comprising in combination with a bottle and a stopper therefor having an apertured head, a resilient split ring extending through the aperture of said head, and an arcuate clip loosely embracing the neck of the bottle and provided with portions loosely connected with said ring.

9. A device of the class described, comprising in combination with a bottle and a stopper therefor, a ring attached to the stopper, and an arcuate clip provided with ends for engaging the ring, said ends lying toward one side of the bottle and engaging the ring in such manner as to prevent the ring and stopper from falling to that side.

10. A device of the class described, comprising in combination with a bottle and a stopper therefor, a ring attached to the stopper, and an arcuate clip provided with ends for engaging the ring, said ends including portions extending laterally in plan.

In testimony whereof I affix my signature in presence of two witnesses.

SYDNEY JOSEPH CROWTHER WILKINSON.

Witnesses:

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