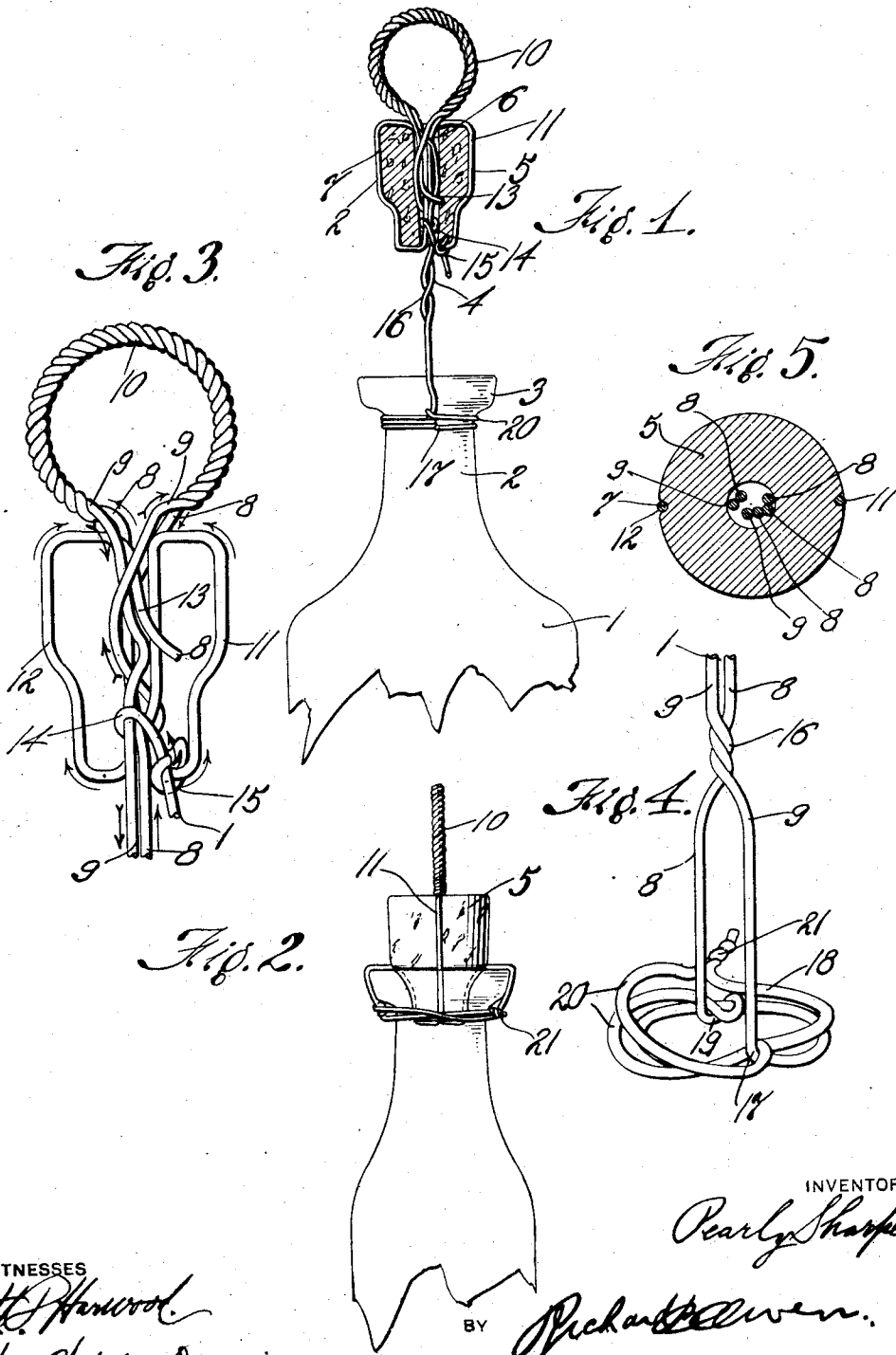


P. SHARPE,  
BOTTLE STOPPER.  
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1,265,263.

Patented May 7, 1918.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## BOTTLE-STOPPER.

1,265,263.

Specification of Letters Patent.

Patented May 7, 1918.

Application filed December 3, 1915. Serial No. 64,931.

*To all whom it may concern:*

Be it known that I, PEARLY SHARPE, a subject of the King of Great Britain, residing at Kenora, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

My invention relates to improvements in bottle stoppers and the primary object thereof resides in the provision of a novel means for securing a cork or other stopper to a bottle so that the stopper can be readily removed from the bottle without being entirely disconnected, novel means being associated with the stopper for facilitating the extraction of the stopper from the mouth of the bottle with which the stopper is associated.

Another object of this invention resides in the provision of novel means formed from single strands of wire bent and twisted to provide a finger receiving loop, means for anchoring the loop to the stopper and also being bent and arranged to provide securing means or bottle neck engaging means.

A further object of my invention resides in the provision of a bottle stopper that is preferably adapted for association with bottles of poison, the construction of the invention being of such a nature as to warn a would-be user of the contents of the bottle, since the finger receiving loop and the securing means cooperate to prevent people from accidentally using the contents of the bottle.

A still further object of my invention resides in the provision of a device of the character described that is simple in construction, efficient in operation, and one that can be manufactured and placed upon the market at a minimum cost.

Other objects as well as the nature, characteristic features and scope of my invention will be more readily understood from the following description taken in connection with the accompanying drawings and pointed out in the claims forming a part of this specification.

In the drawings:—

Figure 1 is a front elevational view of my invention associated with the neck of a bottle body, the cork or stopper being shown in section to illustrate to advantage the arrangement of the anchoring means.

Fig. 2 is a side elevational view of my invention illustrating the cork in a closed position.

Fig. 3 is an enlarged front elevational view of the finger receiving means and the anchoring means, both of which are formed from two strands of wire.

Fig. 4 is an enlarged perspective view of the securing means for the bottle engaging loops which are also formed from the strands of wire from which the ring and anchoring means are formed.

Fig. 5 is an enlarged transverse sectional view taken through Fig. 1 illustrating the arrangement of the wires.

Referring more particularly to the drawings in which similar reference numerals designate like and corresponding parts throughout the different views, I provide a bottle body 1 with a neck 2 issuing therefrom, said neck terminating in an annularly and outwardly extending rib 3. Associated with the neck 2 and the rib 3 is my improved stopper generally designated by the numeral 4.

The stopper in the present instance comprises a cylindrical body 5 having a reduced lower end to facilitate the closing the mouth of the bottle neck, the body being provided with a longitudinal bore which is central therethrough and further provided at diametrically opposite points on its outer periphery with grooves 7. In order to secure the body 5 to the bottle neck, I have provided my improved securing means, and in order to facilitate the removal of the cork from the bottle body, I have provided my improved engaging means, the latter being associated with the body through the medium of my improved anchoring means. The securing means, engaging means, and anchoring means, are formed from two strands of wire peculiarly bent and twisted

together. In associating the strands of wire with the body 5 and the rib of the bottle body 1, the strand of wire 8 is extended through the bore 6, while the other strand of wire 9 is also extended through this bore. At the outer ends of the body 5 the two strands 8 and 9 are twisted together and bent to provide a finger receiving ring 10 which facilitates the removal of the body 5 from the bottle body 1 in a manner to be hereinafter described.

For the purpose of anchoring the ring 10 to the cork, the piece of wire 8 is again extended downwardly through the opening or bore 6 and thence looped outwardly upon itself to provide a stopper engaging loop 11, the outer side of the loop being arranged within one of the grooves 7 and substantially flush with the outer periphery of the stopper. This piece of wire 8 is again engaged in the opening and extended downwardly and thence bent upon itself to provide a similarly formed stopper engaging loop 12 which lies in the other of the said grooves in a manner similar to the arrangement of the loop 11. As is readily apparent, these two loops are bent so as to provide a substantially S-shaped configuration. The free end of the piece 8 is finally extended into the opening 6 as illustrated by the numeral 13. To facilitate the anchoring of the loops in position, the piece 9 which continues from the ring 10, is extended into the opening and twisted about itself and the strand 8, as illustrated by the numeral 14, and finally terminates at the free end of the bore 6 in a knot 15, which knot is incidentally engaged about the loop 11.

To secure the body 5 to the neck 2 of the bottle body 1, the strands 8 and 9 are twisted together below the body 5 as illustrated by the numeral 16. The strand 9 is bent at right angles as illustrated by the numeral 17 and then bent about the neck 2 beneath the rib to provide a bottle neck engaging portion 18. The other strand or piece of wire 8 extends from the twist 16 and is bent and locked about the neck engaging portion as illustrated by the numeral 19 and thence bent about the neck and engaged in the right angular portion 17 to provide neck engaging portions 20. The free terminal of the piece 8 as well as the free terminal of the piece 9 are twisted together as illustrated by the numeral 21 to finally secure the sections of the wire 8 and 9 to the bottle.

The operation of my invention is as follows:—

Assuming that the pieces of wire 8 and 9 have been bent to provide the securing means, finger receiving means, and the anchoring means for the finger receiving means on the cork body or stopper, the cork is forced downwardly in the usual manner.

The strands 8 and 9 between the twisted portions 16 and the bottle neck engaging portions, are arranged between the outer periphery of the cork and the inner periphery of the bottle neck and in no way interfering with the operation of the invention. In removing the cork, it is only necessary to engage one finger of the hand in the ring 10 and draw upwardly. As is apparent, this will remove the cork or stopper body 5 without entirely disconnecting it from the bottle. Also this arrangement will serve as a poison indicator.

Although I have shown and described the preferred embodiment of my invention, I desire it to be understood that I am not to be limited to the exact details shown, however, I desire that great stress be laid upon the arrangement of the two pieces of wire that are bent and twisted together to provide a finger receiving means, the means for anchoring the finger ring to the cork as well as the means for securing the cork or stopper body to the bottle neck.

From the above description taken in connection with the accompanying drawings, it can easily be seen that I have provided a device that is simple in construction, containing but a few simple parts that can be cheaply manufactured and assembled and when assembled can be placed upon the market and sold at a minimum cost.

It will be understood that the above description and accompanying drawings comprehend only the general embodiment of my invention and that various minor changes in detail of construction, proportion and arrangement of the parts may be made within the scope of the appended claims and without sacrificing any of the advantages of my invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A bottle stopper including a body insertible into the bottle, a finger receiving means formed from two strands of flexible wire, one end of each of said strands of wire being anchored to the body, and bottle neck engaging means formed with the remaining ends of the strands, said body being thereby connected in spaced relation to the bottle.

2. A bottle stopper including a body insertible into a bottle, a finger receiving ring formed from a plurality of strands of wire, means for anchoring the ring to the body by bending certain of the ends of the strands about the body, and means for securing the body to the neck of the bottle formed by bending certain other terminals of the strands of wire about the bottle neck.

3. A bottle stopper including a body insertible into the bottle, a finger receiving ring formed from a pair of strands of wire,

body anchoring loops formed by bending  
a portion of each strand into engagement  
with the body for securing the ring to the  
body, and a bottle neck engaging portion  
5 formed by bending other portions of the  
strands of wire about the bottle neck for  
attaching the body to the neck.

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

PEARLY SHARPE.

Witnesses:

CORNELIA SHARPE,  
JAMES A. KINNEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,  
Washington, D. C."