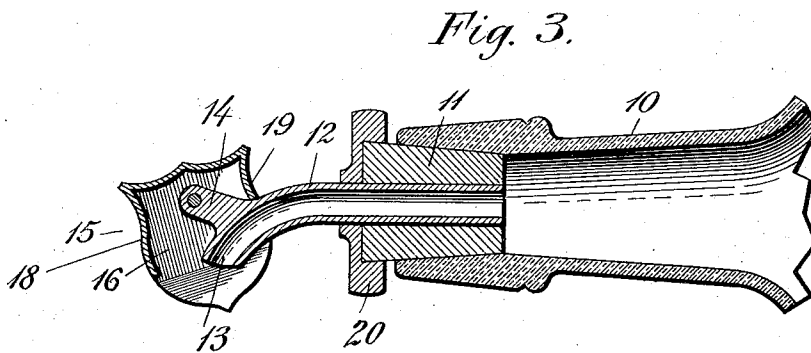
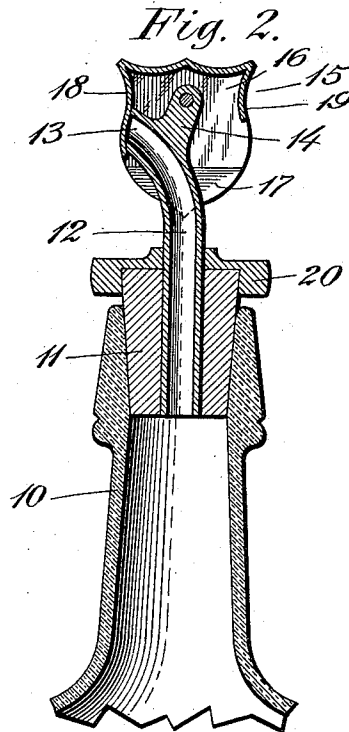
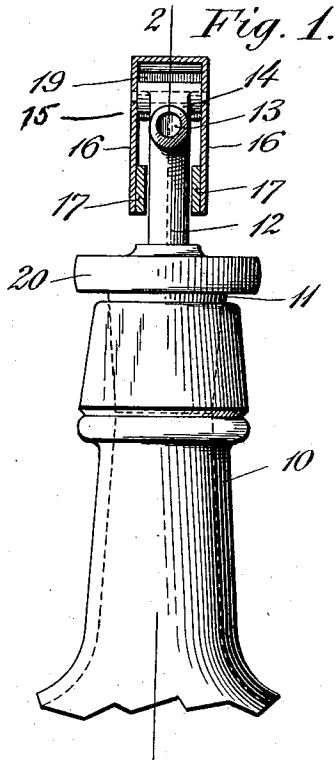


M. W. SEND.  
BOTTLE STOPPER.  
APPLICATION FILED JUNE 24, 1911.

1,022,443.

Patented Apr. 9, 1912.



Witnesses

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# UNITED STATES PATENT OFFICE.

MAURICE W. SEND, OF DETROIT, MICHIGAN.

BOTTLE-STOPPER.

1,022,443.

Specification of Letters Patent.

Patented Apr. 9, 1912.

Application filed June 24, 1911. Serial No. 635,184.

*To all whom it may concern:*

Be it known that I, MAURICE W. SEND, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to bottle stoppers and it has for one of its objects the provision of a device of this character which will automatically open when the bottle is tilted, and will close itself when the bottle  
15 is in an upright position.

The invention has furthermore for its object the provision of such device in which the weight is employed for gravitatively actuating the closure-member of the spout, said weight being disposed extraneously of the spout so as not to interfere or come into contact with the liquid or other contents of the bottle.

25 Further objects of the invention will hereinafter appear and be defined in the claims.

The invention has been clearly illustrated in the accompanying drawings in which similar characters denote similar parts, and in which—

30 Figure 1 shows the neck of a bottle equipped with my improved device; Fig. 2 is a section on line 2, 2 of Fig. 1; and Fig. 3 illustrates the bottle tilted and the closure gravitatively opened.

35 Referring to the drawings, 10 denotes the neck of a bottle adapted to receive a cork 11. A tube 12 is tightly secured in the cork 11 and has in its curved outer end an outlet opening or spout 13 and also an ear 14 on which is pivoted a pendicularly suspended cap 15 which consists substantially of a chambered casing having its top and side walls inclosed, so that when the bottle  
40 is in its upright position, the cap entirely surrounds the spout and seals the outlet opening against dirt, dust, etc.

In the present instance the side walls 16 have pendulum weights 17 for automatically bringing the front wall 18 into position to

close the spout, and the rear wall 19 is of such length as to serve for a stop to limit the gravitative movement of the cap and leave the spout uncovered when the bottle is in its tilted position as shown in Fig. 3. It will therefore be seen that neither the  
55 cap or any part of it will ever come into contact with the contents of the bottle or have its opening and closing action interfered with. Furthermore my improved device may be made ornamental in configuration, and characters or emblems may be readily inscribed on side walls thereof, thus identifying the contents of the bottle without requiring labels or other advertising matter such as would be undesirable in connection with cut-glass or silver receptacles.  
60

In order to produce a proper finish the cork 11 may have a collar cap 20 of china, silver or other material to which the tube 12 may also be secured and which may serve  
70 as a compressing member for the cork to seal the tube therein at that point.

Many changes may be made in the particular construction of my improved device especially in the construction of the cap and  
75 its articulation on the tube, without departing from the spirit of the invention.

I claim:

1. A bottle stopper comprising a bottle neck closure, a tubular spout extending  
80 therethrough and having an outcurved end portion, an ear on the spout on the upper side of the bent portion, a cap having a pair of substantially parallel depending side walls embracing the upper portion of the  
85 spout and the ear on which they are pivoted above their centers of gravity, a front wall between the side walls adapted to seat itself against and seal the mouth of the spout when the closure and spout are in upright  
90 position, and weights secured on the inner faces of the side walls below the pivot centers thereof.

2. A bottle stopper comprising a bottle neck closure, a cap over the upper end  
95 thereof, a tubular spout secured in the cap and closure and provided with an outbent end portion, an ear on the spout on the

upper side of the bent portion, a cap housing the upper portion of the spout, a pair of substantially parallel depending side walls on the cap embracing the ear on which  
5 they are pivoted and depending below the latter, a front wall uniting the side walls and bearing against the mouth of the spout as a seal when the spout is in substantially

upright position, and weights on the lower end portions of the side walls. 10

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

MAURICE W. SEND.

Witnesses:

F. E. ERNST,

ANNA C. RAVILER.

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

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