

BOTTLE.

1,179,622.

Fig. 1.

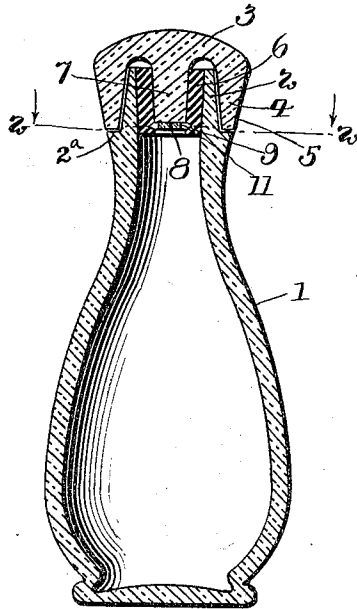


Fig. 2.

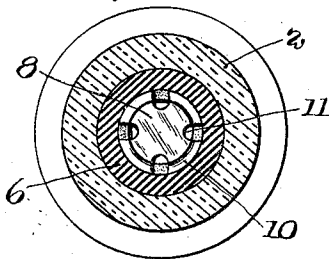


Fig. 3.

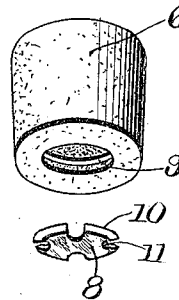
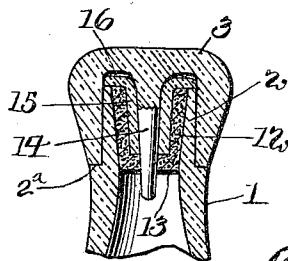


Fig. 4.



James F. FitzGibbon

H. H. Byrne

126
1 John F. Gavin, Inventor
By Prof. J. D. Doolittle

Attorneys

UNITED STATES PATENT OFFICE.

JOHN J. GAVIN, OF BALTIMORE, MARYLAND, ASSIGNOR TO CARR-LOWREY GLASS COMPANY, OF BALTIMORE, MARYLAND, A CORPORATION OF MARYLAND.

BOTTLE.

1,179,622.

Specification of Letters Patent.

Patented Apr. 18, 1916.

Application filed October 4, 1915. Serial No. 53,936.

To all whom it may concern:

Be it known that I, JOHN J. GAVIN, a citizen of the United States, residing at Baltimore, State of Maryland, have invented and discovered certain new and useful Improvements in Bottles, of which the following is a specification.

The present invention relates to bottles and stoppers therefor and consists in the combinations and arrangements of parts hereinafter described and particularly set forth in the accompanying claim.

The purpose of the invention is to provide a construction of cologne bottle and stopper which will effectively keep sealed the contents against evaporation or losing its strength by exposure, and which will readily allow the cologne to be dispensed in the form of a finely divided spray.

The invention has for its further purpose to produce a bottle and stopper that will be simple in construction and of artistic design, and one wherein the stopper and the body of the bottle form a symmetrical and flush surface for convenience in handling, and to prevent the stopper from being easily displaced by accident.

The invention is shown by way of illustration, in the accompanying drawings, wherein—

Figure 1 is a central vertical sectional view thereof, Fig. 2 a transverse sectional view, taken on the line 2—2 of Fig. 1, Fig. 3 a detail perspective view of the sealing body, and Fig. 4 a central vertical sectional view of a modified construction.

Referring to the parts in detail, 1 designates the body of the bottle, which is of appropriate design and of that size usually employed for containing cologne, and the neck portion 2 thereof is annually cut away to receive the cap 3, having a flange 4 whose surface 5 meets flush with the surface of the body 1, after the manner illustrated. The reduced neck portion 2 forms the annular shoulder 2^a that engages with the edge of the stopper flange 4. The outer surface of the flange 4 meets flush with the outer surface of the bottle and thereby gives a continuous and unbroken exterior finish thereto.

A resilient or pliable body 6, preferably of cork, is fitted within the neck 2 of the bottle and forms a permanent part of the body structure and is adapted to receive,

with a tight fit, the central projecting portion 7 of the cap 3 and form a closed seal that will exclude air and keep the contents of the bottle from losing its strength by evaporation.

A disk 8, of thin glass or metal, is fitted in the resilient body 6 and is securely retained therein by an annular channel 9 that receives the beveled edge 10 of said disk, as shown in Figs. 1 and 3. A plurality of notches, or apertures, 11 are formed in the disk 8 and provide a series of openings that serve for dispensing the cologne in the form of a finely divided spray. These dispensing apertures are closed by the central portion 7 of the stopper or cap 3 when the latter is in position and as shown in Fig. 1. The length of said portion 7 is such that the end thereof will just reach the disk 8 when the bottle cap is in applied position. To remove the contents of the bottle it is necessary only to withdraw the bottle stopper.

In the construction shown in Fig. 4, the bottle neck and stopper are designed after the manner shown in Fig. 1, but the resilient body or cork 12 is, in this instance, shaped after the manner of a cup and is formed with a single aperture in the center of the base 13 that receives the central projecting portion 14 of the stopper to complete the seal when said stopper is applied.

A tapering tubular member 15, constructed preferably of the same material as the bottle body, is fitted within the cork member 12 and is formed with an annular flange 16 that overlies the respective upper edges of the cork body and the bottle neck, and these parts (*i. e.* the body 12 and the tubular member 15) are adapted to form a permanent part of the body in the ordinary use of the bottle. Therefore, the stopper 3 only is removed for dispensing purposes in this, as well as in the former, instance.

The tubular member 15, together with the cork body 12, is adapted to be conveniently removed for filling the body, and to this end the edge of the flange portion 16 is formed with a rough surface. And in like manner, the member 6, carrying the apertured disk 8, is adapted to be removed from the neck of the bottle to fill the latter.

It is obvious that those skilled in the art may vary the details of construction and arrangement of parts without departing from

the spirit of the invention, and therefore I do not wish to be limited to such features except as may be required by the claim.

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

The combination with a bottle constructed of glass or the like, of an annular resilient body permanently fitted within the neck thereof and having formed on its inner surface an annular channel, a disk having a beveled edge fitting within said channel and held in position by the resiliency of said body, said disk being formed to provide a plurality of dispensing apertures, and a

stopper of glass or the like fitted on the neck of the bottle and having a central projecting portion adapted to fit tightly within said annular resilient body and form a seal therewith, and the end of said central portion immediately overlying and closing the apertures in said disk, substantially as set forth.

In witness whereof, I have hereunto set my hand and seal at Baltimore, Maryland, 25 October, A. D. nineteen hundred and fifteen.

JOHN J. GAVIN. [L. s.]

Witnesses:

LOUIS H. VAN HOLLEN,
H. FREDK. UHLENBERG.

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