(No Model.)

W. EDMUNDSON.

CLOSURE FOR BOTTLES.

No. 385,852. Patented July 10, 1888.

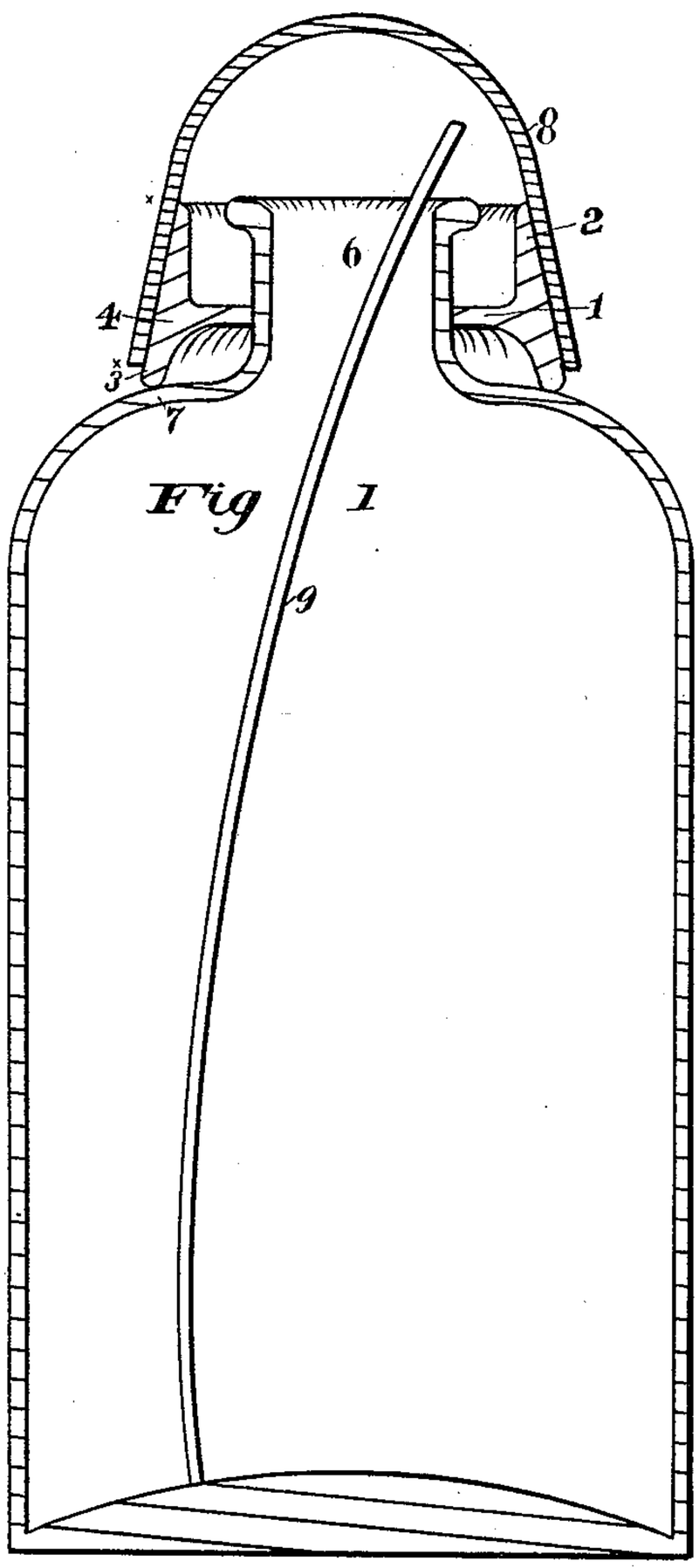
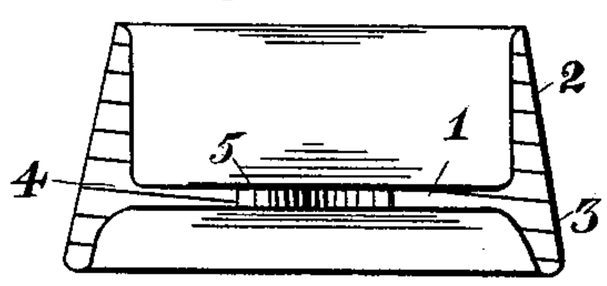


Fig 1

Fig 2



WITNESSES:
S. S. Gray.
Z. T. Wilber.

INVENTOR,
Wm Edmundson,
BY R. H. McDermott,
his
ATTORNEY.

UNITED STATES PATENT OFFICE.

WILLIAM EDMUNDSON, OF DENVER, COLORADO.

CLOSURE FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 385,852, dated July 10, 1888.

Application filed November 14, 1887. Serial No. 255,156. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM EDMUNDSON, a citizen of the United States, residing at Denver, in the county of Arapahoe and State of Colorado, have invented a new and useful Air-Tight and Dust-Proof Stopper or Cap for Bottles, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof.

The object of my invention is to furnish an air-tight and dust-proof cap or stopper for bottles, readily applicable to any bottle and as readily removable therefrom, reliable in operation, durable, and economical in first cost; to which ends it consists in the features more particularly hereinafter described and claimed.

In the practice of my invention I make use of a rubber disk having a central aperture, by which the disk may be seated and tightly held on the neck of a bottle. At its periphery flanges extend both upwardly and downwardly from the disk, the upwardly-extending flange tapering inwardly somewhat on its outer surface. At the point where these flanges spring from the web of the disk the rubber is somewhat thickened, giving a firm, tight, yet elastic seat to the cap, to be hereinafter mentioned, the upper flange gradually diminishing in thickness from that point until it may be almost, if not quite, a mere edge at its upper limit. This disk and its flanges thus constructed may be termed herein for convenience a "flanged rubber gasket." When placed upon the neck of a bottle by means of its aperture, the rubber grasps the neck firmly, forming a tight joint therewith, while the edge of the downwardly-extending flange takes upon the shoulder of the bottle, forming a second or additional tight joint at that point. Upon the flanged gasket is then seated a cap, which takes firmly upon the exterior of the gasket and forms therewith an air-tight and dust-proof covering for the mouth of the bottle.

The construction thus generally set forth may be better understood by reference to the drawings, in which—

Figure 1 is a sectional view of the cap and gasket applied to a bottle, and Fig. 2 a sectional view of the gasket detached therefrom.

In the drawings, the reference-numeral 1 indicates the web or body of the rubber disk, having the central aperture, 5. From this disk a flange, 2, extends upwardly, its outer side preferably inclining inwardly somewhat, both to give greater area of contact between it and the cap and to adapt it to caps of varying sizes. From the disk there depends in the other direction a flange, 3, intended, when in use, to take upon the shoulder 7 of a bottle, while the edge of the aperture 5 takes upon the neck 6. At the junction of these flanges 2 3 and the web of the disk the material is thickened somewhat, as shown at 4, while the body of the disk near the aperture is of such thickness only as will permit its ready stretching to adapt it to be used with bottles of varying sizes of necks. In connection with this flanged rubber gasket is used a cap, 8, of glass or other suitable material, whose interior walls at its mouth should incline outwardly, as shown at *x x*, Fig. 1, in order to take with a larger bearing-surface upon the surface of the flanged gasket. This construction, it is readily seen, furnishes a simple and reliable air-tight and dust-proof cap, all the parts of which are so removed from the contents of the bottle as not to be in danger of being fastened or stuck to the bottle nor to be soiled thereby, preserving the contents of the bottle and allowing a spoon, stirrer, or brush for use with the contents of the bottle to remain therein when the bottle is closed.

The disk 1 and its attached flanges 2 3 form what I have termed herein a "flanged rubber gasket," and may be made by molding in one piece or in any usual and approved way, and which may be manufactured and sold as a separate and distinct article of manufacture. The elasticity of the thinner portion of the web of the disk near the central aperture permits one size of the flanged gasket to be used with quite a variation of sizes of bottle-necks.

Having thus described my invention, what I claim is—

1. A flanged rubber gasket adapted to be seated upon the neck of a bottle and to receive upon its outer periphery a cap, such gasket consisting of a centrally-apertured disk having flanges extending from its periphery, substantially as set forth.

2. The combination of a flanged gasket having a centrally-apertured disk for taking upon the neck of a bottle, a flange for taking upon the shoulder of a bottle, a flange for receiving a cap, and a cap adapted to take and be seated upon the latter flange, substantially as set forth.

In testimony whereof I have hereunto affixed my signature, in the presence of two witnesses, on this 4th day of November, 1887.

WM. EDMUNDSON.

Witnesses:

Z. F. WILBER,

B. L. POLLOCK.