

R. M. CAUFFMAN & W. BEST.

BOTTLE CLOSURE.

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938,971.

Patented Nov. 2, 1909.

Fig. 1.

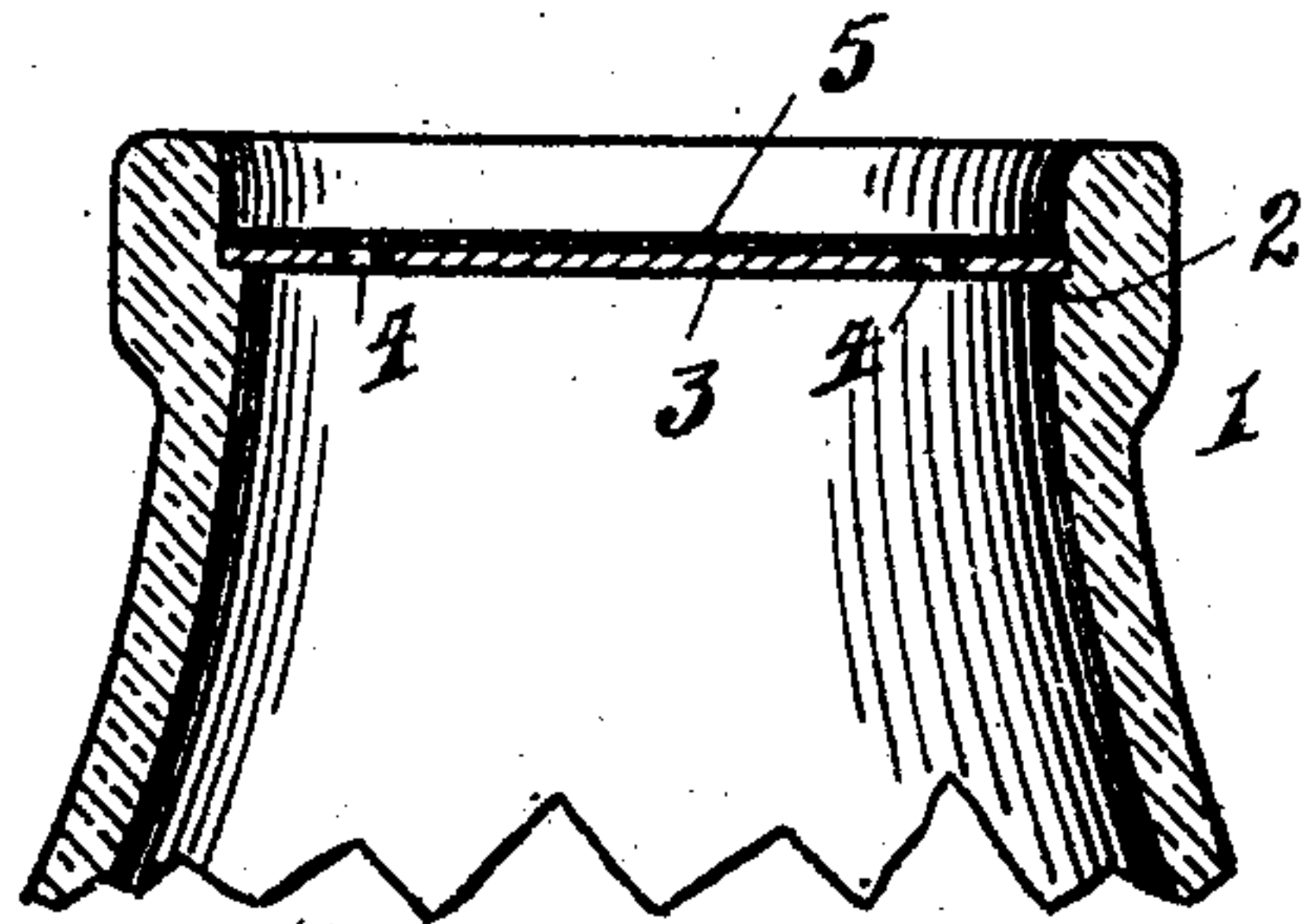


Fig. 2.

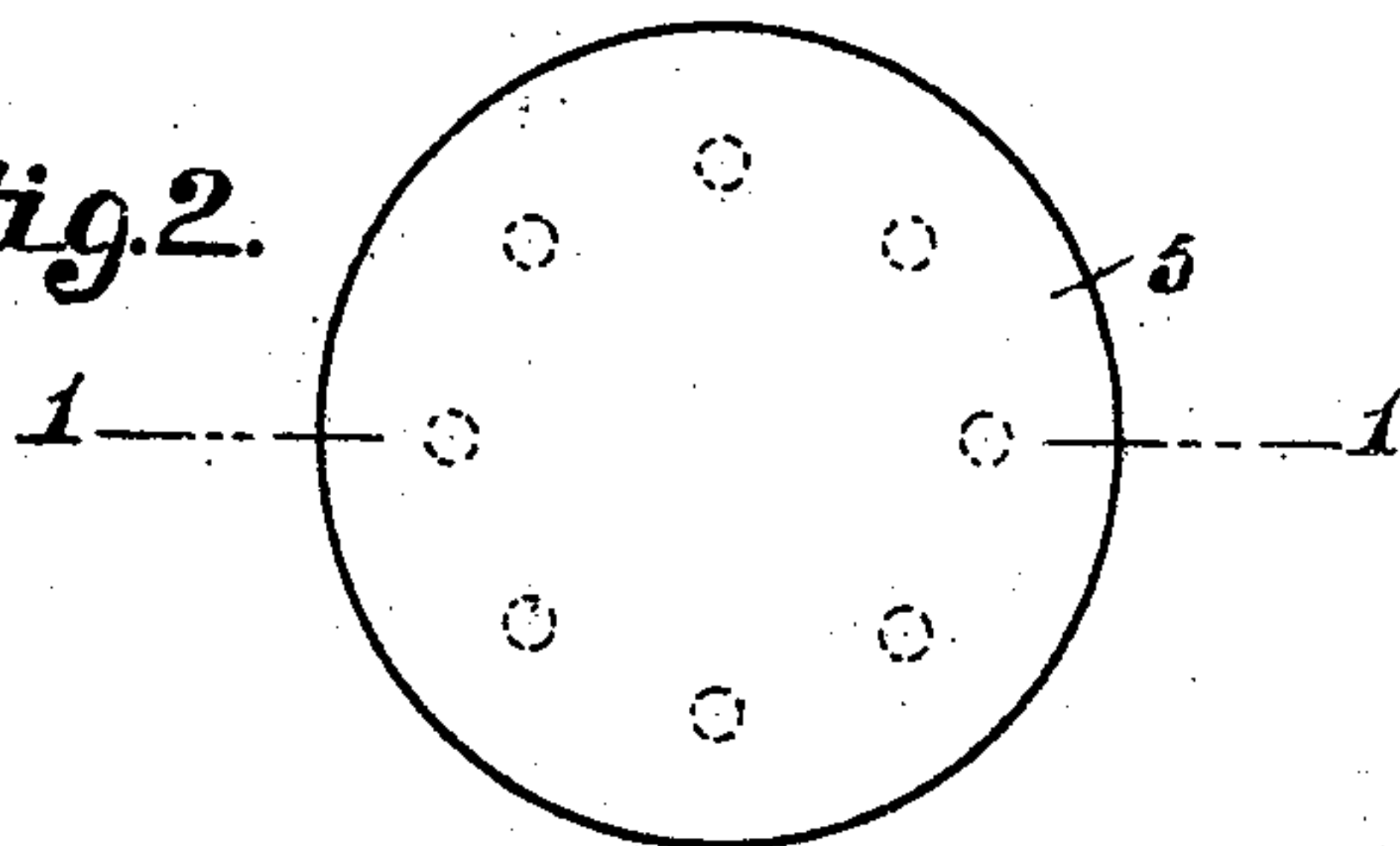
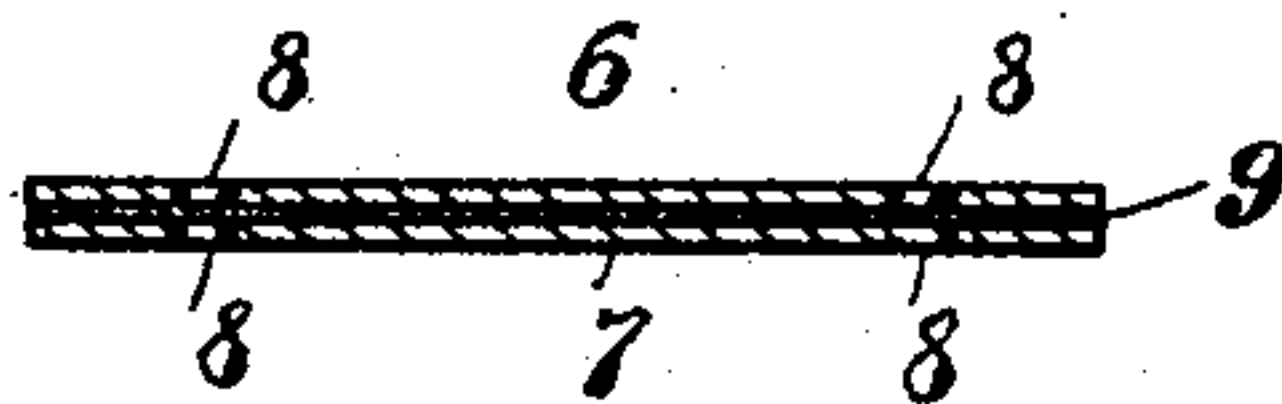


Fig. 3.



Witnesses:

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By

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UNITED STATES PATENT OFFICE.

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BOTTLE-CLOSURE.

938,971.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that we, ROBERT M. CAUFFMAN and WELLINGTON BEST, citizens of the United States, residing at Centerville, in the county of St. Joseph and State of Michigan, have invented certain new and useful Improvements in Bottle-Closures, of which the following is a specification.

This invention relates to milk jar closures. Dairymen, milk dealers and others are aware that milk will not sour as quickly in an open container as in a hermetically sealed vessel, and one of the objects of our invention is to improve existing conditions manifest in the handling of milk in hermetically sealed bottles and jars in which the milk is served to consumers.

Another object of the invention resides in the provision of a closure of the nature stated embodying such characteristics that the closure will permit of the ingress of air into the container to intermingle with the milk, purify the air in its passage into the container and yet prevent the ingress of insects or other foreign matter detrimental to the wholesomeness of the commodity.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages thereof.

In the drawings:—Figure 1 is a vertical sectional view of the neck portion of a jar illustrating the preferred form of our invention. Fig. 2 is a face view of the closure. Fig. 3 is a sectional view of a modified form of the closure.

Referring now more particularly to the accompanying drawings, the reference character 1 indicates the neck portion of a milk jar or bottle having an internal annular shoulder 2 for the support of the closure. The bottle or jar is of any well known construction, and our closure is particularly adapted to the bottles and jars now in common use.

Our preferred form of closure consists of

a paste-board or other pliable disk 3 having perforations 4 through which the air may pass into the bottle. On one face of the disk 3 we cohesively secure a piece of cotton or other suitable fabric 5 which does not preclude air from passing into the bottle or jar but which effectually guards against the ingress, into the bottle or jar, of insects and such matter as would be liable to contaminate it with impurities.

We prefer to sterilize the fabric or other material 5 in an antiseptic bath prior to its application to the pliable disk 3 so that the air entering the bottle may be subjected to a purifying agent or action and filtered in its passage into the bottle or jar.

In the use of the closure hereinbefore described, the fabric side of the closure will be preferably disposed upon the outside, as shown in the drawings.

If preferred we may employ two disks 6 and 7 provided with alining perforations 8 and with a disk or other shaped piece of fabric 9 between them, as disclosed clearly in Fig. 3. This modified form of the invention embodies all of the essential characteristics of the preferred form of the closure.

What is claimed is:—

1. A milk jar closure consisting of a perforated disk, and a disk shaped sheet of antiseptic filtering fabric adhered to the disk and covering said perforations to prevent discharge of the contents of the jar through the perforations but permitting of the passage of air into the jar through said perforations.

2. A milk jar closure consisting of a perforated disk and a sheet of antiseptic filtering material adhered to the disk and covering said perforations to prevent discharge of the contents of the jar through the perforations but permitting of the passage of air into the jar through said perforations.

3. A milk jar closure consisting of a perforated disk and a thin sheet of filtering material adhered to the disk and covering the perforations to prevent discharge of the contents of the jar through the perforations but permitting of the ingress of air into the jar through said perforations.

4. A milk jar closure consisting of a perforated disk, and a disk shaped sheet of fil-

tering material adhered to the disk and covering said perforations, the disks being of the same size.

5. A milk jar closure consisting of a perforated disk, and a disk shaped sheet of filtering material adhered to the disk and covering said perforations.

In testimony whereof we affix our signatures, in presence of two witnesses.

ROBERT M. CAUFFMAN.
WELLINGTON BEST.

Witnesses:

GEORGE OLTSCH,
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