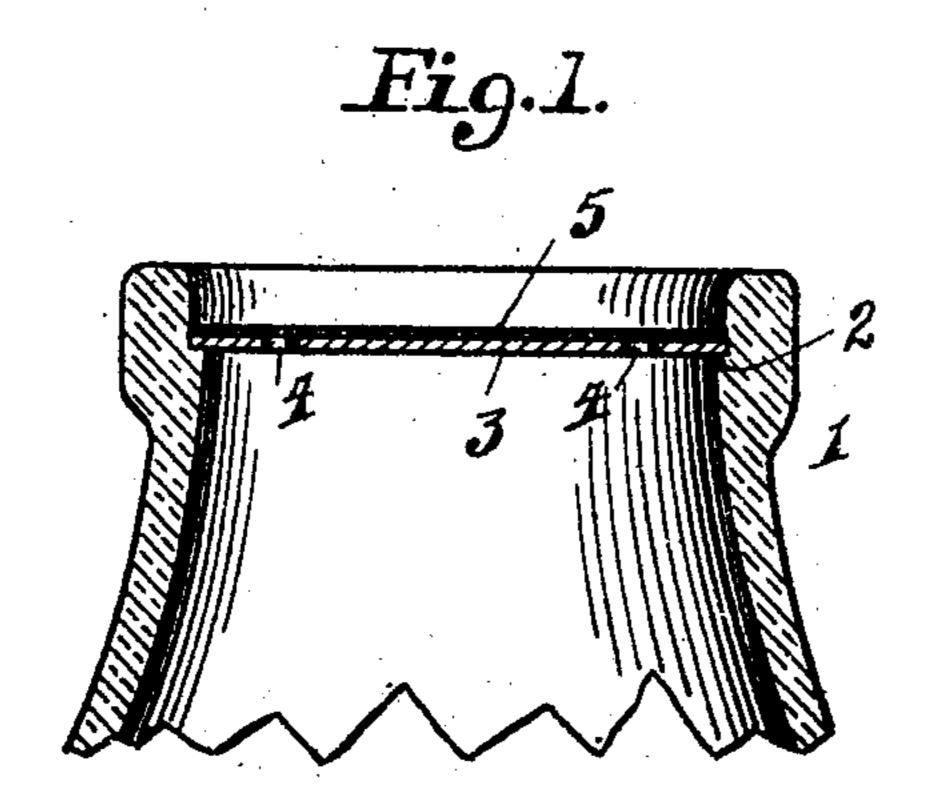
R. M. CAUFFMAN & W. BEST.

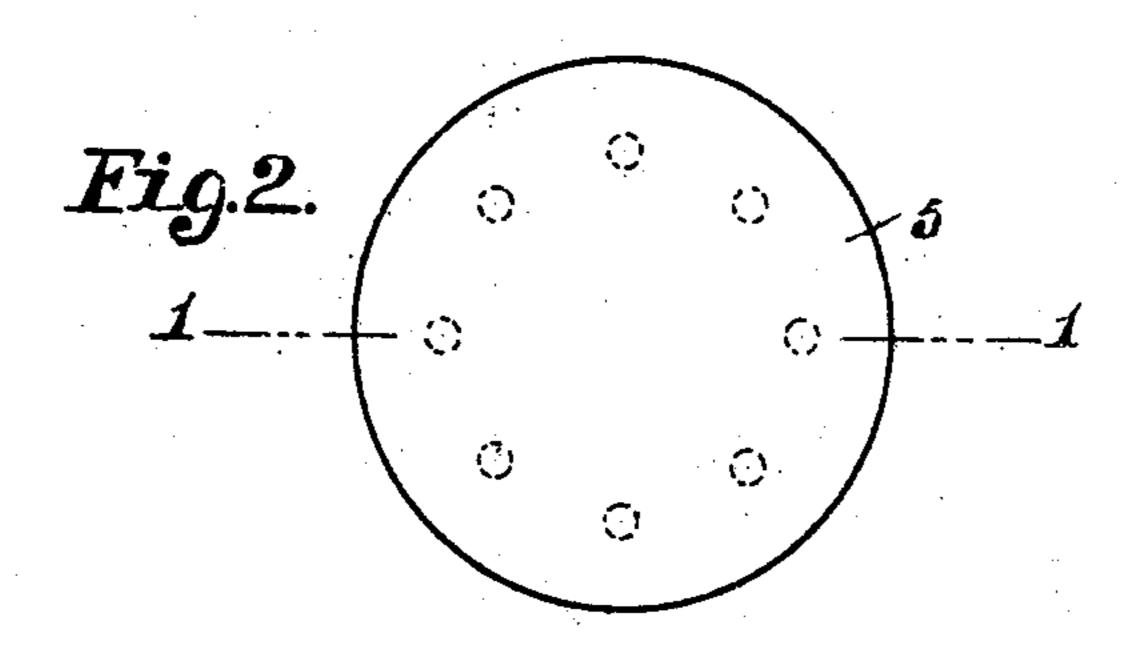
BOTTLE CLOSURE.

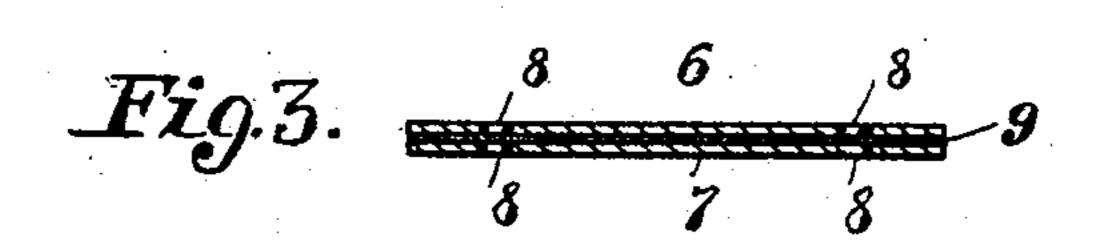
APPLICATION FILED FEB. 24, 1908.

938,971.

Patented Nov. 2, 1909.







Witnesses: George Oltsch. GM. Cole. Robert M. Cauffman Wellington Best Inventors By F. Loweraka

UNITED STATES PATENT OFFICE.

ROBERT M. CAUFFMAN AND WELLINGTON BEST, OF CENTERVILLE, MICHIGAN; SAID BEST ASSIGNOR TO SAID CAUFFMAN:

BOTTLE-CLOSURE.

938,971.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed February 24, 1908. Serial No. 417,487.

To all whom it may concern:

Be it known that we, Robert M. Cauff-MAN and Wellington Best, citizens of the United States, residing at Centerville, in the 5 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 10 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 mani-15 fest 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 20 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 in-25 sects 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 30 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 35 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 inven-40 tion. 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 char-45 acter 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 50 adapted to the bottles and jars now in common use.

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 55 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 60 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 65 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 hereinbefere described, the fabric side of the closure will be 70 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 75 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 85 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 filter- 90 ing 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 100 permitting of the ingress of air into the jar through said perforations.

4. A milk jar closure consisting of a per-Our preferred form of closure consists of | forated disk, and a disk shaped sheet of fil-

and the form the first of the terms of the first of the first of the same and the first of the f

and the contract of the form of the contract of

the straight of the first of the

and the state of the

in the second of the second

en de la composition de la financia de la composition de la composition de la composition de la composition de

and the first of the second of the first of the second of the second of the second of the second of the second

and the second of the first of the second of the second

All the control of th

and the first of the

And the first of the Contract of the Annal State of the State of the Annal State of the State of

Burker John Land William Library at a survey of the first of the first of the survey of the survey of the survey of

and the second of the second

,我们是这种人,我们就是一点一点,我们也不是这个人,我们就是一个人,我们就是一个人,我们就是一个人,我们也不是一个人,我们也不是一个人,我们也没有一个人,我们就 第一章

Little British Bright and Alle and Alle Son and Alle Andrews and Alle Control of the Control of the Alle Andrews and Alle And

Berthall Be

en transfer die harte kat beschieber tit der der geben der har het de transfer en beschieber in de geben der d

ting to the market for the following the second of the first of the second of the second of the second of the

the first of the second of the second of the second of the first of the second of the

tion and the state of the contract of the state of the st

this was interested that the experience of the contraction of the first of the first of the first of the first

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 per-5 forated disk, and a disk shaped sheet of filtering material adhered to the disk and covering said perforations.

and the first of the contract of the first of the contract of the first of the contract of the

and the first of the second of the second

and the state of t

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

ROBERT M. CAUFFMAN. WELLINGTON BEST.

Witnesses:

to the second of the first of the first of the second of the second of the first of the second of the second of

GEORGE OLTSCH, G. M. COLE.