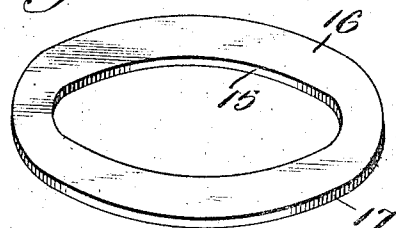
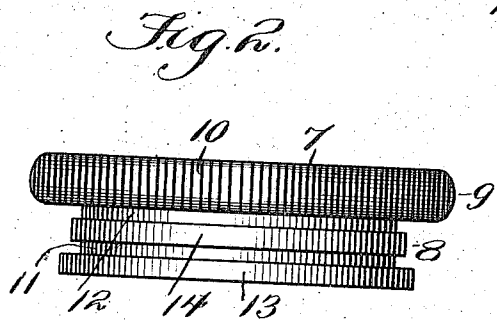
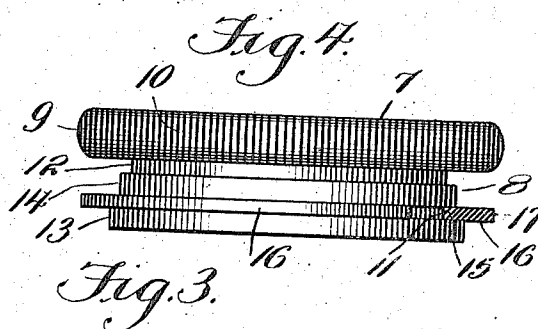
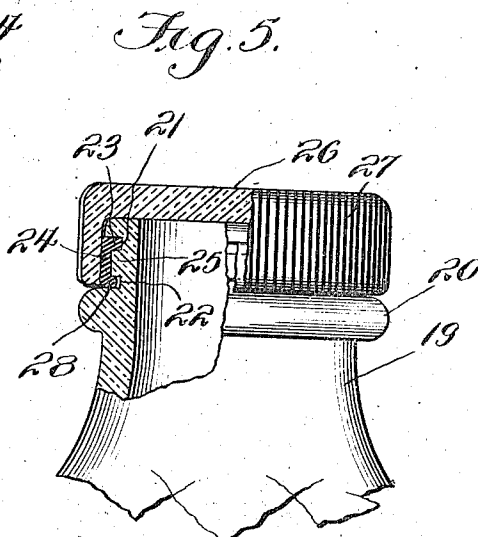
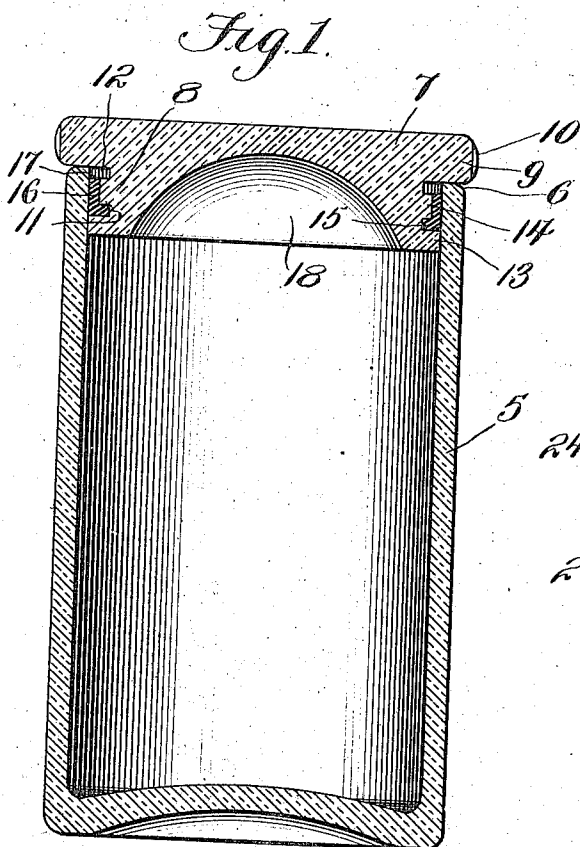


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 JAR AND CLOSURE THEREFOR.  
 APPLICATION FILED AUG. 19, 1910.

984,808.

Patented Feb. 21, 1911.



Witnesses

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# UNITED STATES PATENT OFFICE.

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JAR AND CLOSURE THEREFOR.

984,808.

Specification of Letters Patent. Patented Feb. 21, 1911.

Application filed August 19, 1910. Serial No. 577,990.

*To all whom it may concern:*

Be it known that I, GUSTAVE GLOCKER, a citizen of the United States, residing at Washington, District of Columbia, have invented new and useful Improvements in Jars and Closures Therefor, of which the following is a specification.

The invention relates to a receptacle, and more particularly to the class of bottle or jars and closures therefor.

The primary object of the invention is the provision of a closure for bottles or jars in which the mouth of the latter may be hermetically sealed so as to provide a fluid tight juncture between the closure and the body of the bottle or jar, thus obviating any possibility of the admission of air, dampness or liquid within such body, thereby preserving the contents therein.

Another object of the invention is the provision of a jar and closure of the character described, in which rubber washers or gaskets of the ordinary resilient type may be employed, whereby on the application of the cap or closure to the body of the jar the said washer or gasket will be compressed between the same, thus effecting a fluid tight closure at the mouth of the jar so as to prevent egress of the contents thereof or ingress of foreign matters therein.

A further object of the invention is the provision of a jar and closure therefor in which the latter will be held against any possible lateral displacement when applied to the mouth of the jar and also that will enable the sealing of such a jar for the preserving of the food or other substances contained therein.

A still further object of the invention is the provision of a jar and closure therefor in which access may be easily had to the interior of the jar for the cleaning thereof to render the same sanitary, the closure being readily applied and removed from the jar at will and when applied is designed to seal the said jar so as to make the same fluid tight.

In the drawings accompanying and forming a part of this specification is illustrated the preferred forms of embodiment of the invention, which to enable those skilled in the art to carry the invention into practice will be set forth at length in the following

detail description, while the novelty of the invention will be pointed out in the claims succeeding the description. It is, of course to be understood that changes, variations and modification may be resorted to, such as come within the scope of the appended claims without departing from the spirit of the invention or sacrificing any of its advantages.

In the accompanying drawings:—Figure 1 is a vertical longitudinal sectional view through the jar and closure constructed in accordance with the invention. Fig. 2 is a side elevation of the closure or stopper removed from the jar and the rubber gasket or washer detached therefrom. Fig. 3 is a perspective view of the rubber gasket or washer. Fig. 4 is a view similar to Fig. 2 the washer or gasket being mounted thereon prior to its insertion in the jar. Fig. 5 is a fragmentary side elevation of a jar and closure therefor showing a slight modification of the invention, the jar and closure being partly broken away.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, 5 designates the body of a jar or the like, preferably constructed from glass, although the same may be made from any other suitable material, the cylindrical vertical wall of the jar being of uniform diameter throughout the length of the latter so that the said jar may be readily cleaned for sanitary purposes. The jar at its mouth is provided with a rounded edge 6, the purpose of which will hereinafter more fully be described.

Detachably fitted in the mouth of the body 5 is a closure comprising a stopper body 7 which is constructed from any suitable material, although preferably made from glass, the body 7 being reduced for substantially one-half of its depth to form a contracted cylindrical portion 8 with respect to its remaining portion and also to provide a bearing shoulder 9, the latter being adapted to contact with the upper rounded edge 6 of the body of the jar when the cap or closure is inserted therein, thus limiting the insertion of the contracted portion 8 within the said body 5 of the jar.

The peripheral edge of the rim portion of the closure or stopper 7 is provided with a knurled or roughened surface 10, whereby the said closure or stopper may be gripped and the latter turned when inserting the same in the body of a jar or removing it therefrom. The closure or stopper 7 in the periphery of its contracted portion 8 is provided with spaced annular channels or grooves 11 and 12, respectively, providing annular bearing ribs or surfaces 13 and 14, respectively, spaced from each other, the bearing rib or surface 14 being of less diameter than the rib or bearing surface 13 so that when the closure or stopper 7 is inserted within the mouth of the body 5 of the jar, the said bearing rib 13 will frictionally contact with the interior surface or wall of the said body so that there will not be any possibility of lateral displacement of the said closure or stopper when engaged in the latter. Also this annular bearing surface or rib 13 when contacting with the inner surface of the body of the jar will prevent the contents of the latter from leaking into the channels or grooves 11 and 12 formed in the said closure or stopper. Within the channel or groove 11 is seated the inner peripheral edge 15 of a resilient washer or gasket 16 so that on introducing the closure or stopper 7 within the mouth of the jar, the said washer or gasket 16 will be compressed between the annular bearing surface 14 and the body 5 of the jar, thus serving as a sealing medium between the closure and the jar. Should this gasket or washer 16 be compressed to an excessive degree upon inserting the closure or stopper in the jar its outer peripheral edge 17 will be squeezed into the channel or groove 12 which latter is provided to accommodate the same.

The stopper or closure 7 in the inner face of the contracted portion is provided with a centrally located concaved recess 18 which is provided to give space for air that may exist within the body 5 of the jar, thus the air being displaced on the insertion of the closure or stopper within the mouth of the jar. However, this recess 18 may be dispensed with if deemed desirable.

In Fig. 5 there is shown a slight modification of the invention wherein the neck portion 19 of the body of a bottle or jar is formed with an annular flange 20 spaced from the mouth edge of the neck portion and in the said neck portion between the flange and the mouth edge are provided spaced annular grooves or channels 21 and 22, respectively, the channel 21 receiving the inner peripheral edge 23 of a rubber gasket or washer 24. Between the channels or grooves 21 and 22 is an annular bearing rib 25 against which is compressed the washer or gasket 24 on the mounting of the inverted cup-shaped cap 26 upon the neck portion of

the jar, the cap 26 being provided with knurled or roughened surfaces 27 to permit the same to be readily applied to the jar and removed therefrom when required. This cap 26 when applied to the neck portion 19 of the jar has its flanged portion engaged with the surfaces of the gasket 24, depressing the same between the said flanged portion of the said cap and the bearing rib 25, thus sealing the jar whereby it may be rendered fluid tight.

On mounting the cap 26 upon the jar, the gasket or washer 24 being normally flat becomes compressed and folded between it and the body of the jar so that the outer peripheral edge 28 of the washer or gasket will be squeezed into the channel or groove 22 in the neck portion 19 of the jar for the reason that on the spreading of the gasket or washer its outer peripheral edge 28 will abut against the flange 20 directing it inwardly within the channel or groove 22, as the cap is being forced onto the jar. Thus it will be seen that when the cap is forced onto the jar, the gasket or washer 24 will serve as a sealing medium to render the jar fluid tight thereby preserving the contents of the same.

Should the closure or stopper become stuck within the mouth of the jar it is only necessary to insert a tool between the rounded edge of the body of the jar and the rim portion of the closure or stopper then by depressing the tool the stopper or closure is lifted from the mouth of the jar.

It is thought that from the foregoing the construction and operation of the invention will be clearly understood, and a more extended explanation of the same has therefore been omitted.

Having thus described the invention what I claim as new is:—

1. The combination with interfitting members, of a resilient gasket interposed between the members, one of said members being provided with spaced annular channels receiving the inner and outer peripheral edges of said gasket, and an outturned annular flange on the member containing said channels and contiguous the one adapted to receive the outer peripheral edge of the gasket for deflecting the outer edge of said gasket in its channel.

2. The combination with a receiving member and a closure member therefor, of a normally contracted expansible gasket interposed between said members, one of said members being provided with an annular rib rabbeted from the contiguous face of the other member, and also provided with annular channels spaced apart by the said rib, the said gasket being held in one channel at its inner periphery and adapted to be distorted by the rib in the direction of the other channel, and a deflecting surface on

the member containing the channels to guide  
the outer edge of the gasket into its channel,  
whereby the gasket, when engaging the re-  
spective channels, will be sustained com-  
pressed and limited in its expansion between  
5 the members when interfitted with each  
other.

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

GUSTAVE GLOCKER.

Witnesses:

FRANK C. PAULER,  
BENNETT S. JONES.