

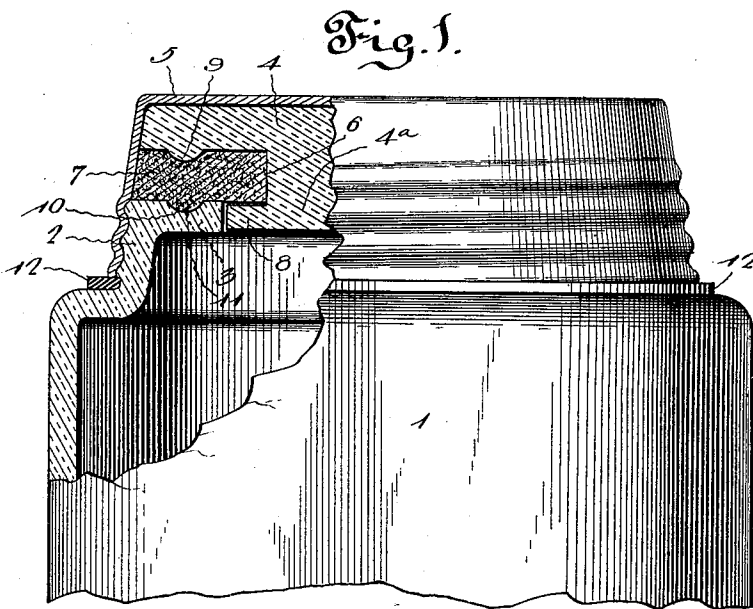
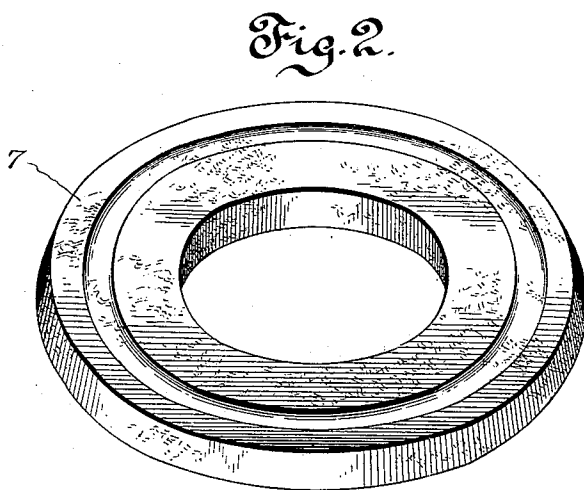
No. 635,874.

Patented Oct. 31, 1899.

W. P. SIHLER.
FRUIT JAR COVER.

(Application filed Oct. 17, 1898.)

(No Model.)



Witnesses

J. H. Culverwell.

[Signature]

William P. Sihler, Inventor

By his Attorneys,

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UNITED STATES PATENT OFFICE.

WILLIAM P. SIHLER, OF DECORAH, IOWA.

FRUIT-JAR COVER.

SPECIFICATION forming part of Letters Patent No. 635,874, dated October 31, 1899.

Application filed October 17, 1898. Serial No. 693,787. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. SIHLER, a citizen of the United States, residing at Decorah, in the county of Winneshiek and State of Iowa, have invented a new and useful Fruit-Jar Cover, of which the following is a specification.

My invention relates to fruit-jars, and particularly to fruit-jar covers, the object in view being to provide a device of this class adapted for excluding not only air, but germs, such as bacteria, the construction being such as to provide for applying and removing the lid or cover with facility.

Further objects and advantages of this invention appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a side view, partly in section, of a portion of a fruit-jar provided with a closure constructed in accordance with my invention. Fig. 2 is a detail view of the packing-ring detached.

Similar numerals of reference indicate corresponding parts in both figures of the drawings.

The receptacle 1, which may consist of a jar or any analogous device, is provided with an exteriorly-threaded neck portion 2, having a slight inward oblique direction and terminating in a horizontal inturned lip 3 to support a cap 4, which in practice may be constructed of glass, porcelain, or other analogous material, said cap being held in place by means of a lid or cover 5, which is flanged to fit exteriorly upon the threaded neck portion of the receptacle and which is interiorly threaded, as in the ordinary practice, to engage said neck portion. The cap 4 is preferably provided with a central downward extension or core 4^a, which fits within the space encircled by the lip 3 of the receptacle, and in the side of this extension or core is formed an annular channel 6, which combines with the under surface of the body portion of the cap to form a seat for a packing-ring 7 of cotton, paraffin, or other compressible material. The flange 8, forming the lower wall of the channel 6, is preferably arranged at its periphery close to the inner edge of the lip 3, and when the cap is in place upon the receptacle the upper surface of this flange 8

is approximately flush with the upper surface of the lip 3, whereby the packing-ring 7 bears at its lower side upon the upper surface of the lip 3 and the wall 8, and thereby breaks the joint between the cap and the lip, while the upper wall of the channel 6 and the under surface of the body portion of the cap bear upon the upper surface of the packing-ring, whereby when the lid or cover is screwed to place said packing-ring is compressed between the opposing surfaces of the cap and the lip 3. Also the upper and lower surfaces of the packing-ring have an interlocking and break-joint engagement with the opposing surfaces of the receptacle and the cap, said cap preferably having a depending rib 9, which fits in an annular groove in the upper surface of the packing-ring, and the upper surface of the lip having an annular groove 10, into which fits a depending rib 11 on the under surface of said packing-ring. This interlocking engagement of the surfaces of the packing-ring and the receptacle and cap prevents the ingress of germs, particularly when the packing-ring is constructed of cotton, as will be preferable in connection with fruit-jars. An ordinary rubber ring 12 may be arranged upon the shoulder of the receptacle beneath the lower edge of the lid or cover to receive the pressure of the latter as it is screwed to place, an important function of such rubber ring or gasket being to frictionally hold the lid or cover from accidental loosening or unthreading.

The upper part of the cap 4 projects outwardly a considerable distance beyond the flange 8 at the lower portion of the core 4^a of said cap. The peripheral edge of the upper portion of the cap has a slight inward bevel, and when the cap is applied the said peripheral edge is in oblique alinement with the outer surface of the neck portion 2. By having the upper portion of the cap 4 project beyond the flange 8, as specified, an overhanging or overprojecting flange is provided which completely covers the upper portion of the neck 2 and the lip 3. By this means the interposed packing-ring is more firmly held in fixed relation when the parts of the cover and the neck, including the lip 3, are assembled. By having the periphery of the upper portion of the cap 4 arranged at an inward bevel and

in alinement with the outer screw-threaded surface of the neck 2 the lid or cover 5 may be more readily applied, and presenting an oblique surface to the outer edge of the packing-ring will tend to gradually force the latter firmly into the channel 6.

In addition to this function in connection with fruit-jars and similar receptacles the cover embodying my invention is adapted for use upon jars such as those used in museums for containing specimens or curios in alcohol or other preserving fluid.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having described my invention, what I claim is—

20 1. The combination of a receptacle having a neck with a slight inward oblique deflection and terminating in a horizontal inturned lip, the outer surface of the neck being screw-threaded and the lip having an annular groove
25 in its upper surface and surrounding at its inner termination a central circular space, a cap provided with an upper outwardly-extending flange having a beveled periphery adapted to aline with the outer surface of the neck and formed with an under circumferential bead to be disposed over the circumferential groove in the lip of the neck, said cap
30 having also a lower flange forming the lower wall of a channel of which the upper outwardly-projecting portion or flange of the cap

in part provides the upper wall, a packing-ring fitted on the upper portion of the neck and lip and extending into the channel of the cap being held locked through the medium of the bead of the latter and the groove of the lip, and a lid or cover removably fitted over the cap and neck and conforming to the obliquity of the latter.

2. The combination of a receptacle having at its mouth an inturned lip disposed horizontally and surrounding a central open space, a cap for closing the mouth of the receptacle and having a central pendent core with a lower flange above which a channel is formed limited by an upper outwardly-projecting portion or flange which extends over the lip and upper portion of the mouth of the receptacle, the flange on the pendent core registering with the inner termination of the lip, an annular packing-ring disposed horizontally and seated in the channel formed in the cap and lying across the joint between the lower flange of said cap and the inner termination of the lip, the lower part of said packing-ring being exteriorly exposed, and a lid or cover removably applied to the cap and the mouth of the receptacle.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM P. SIHLER.

Witnesses:

O. C. JOHNSON,

A. L. HAAKENSEN.