G. VALENTINE.

CLOSURE FOR JARS AND OTHER RECEPTACLES.

APPLICATION FILED MAY 6, 1907.

900,240. Patented Oct. 6, 1908.

Fig. 1

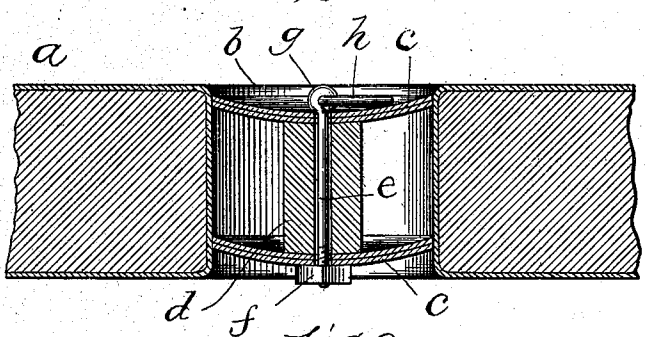


Fig. 2

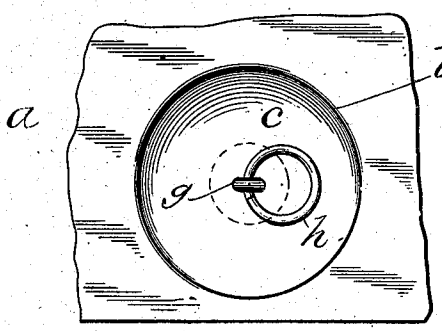


Fig. 3

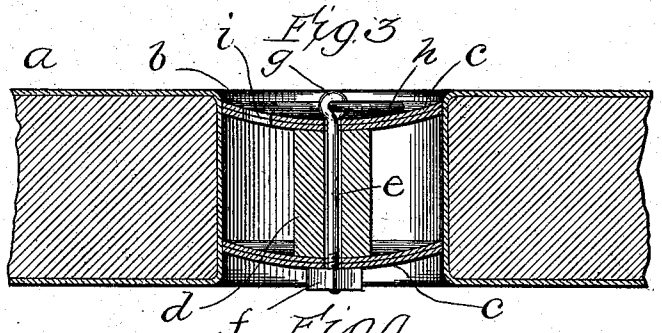
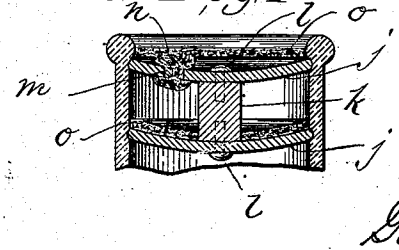


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

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CLOSURE FOR JARS AND OTHER RECEPTACLES.

No. 900,240. Specification of Letters Patent. Patented Oct. 6, 1908.

Application filed May 6, 1907. Serial No. 372,041.

To all whom it may concern:

Be it known that I, GORDON VALENTINE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Closures for Jars and other Receptacles, of which the following is a description, reference being had to the accompanying drawings, forming a part of this specification, in which corresponding letters of reference in the different figures indicate like parts.

The object of my invention is to provide a closure for jars, cans and other receptacles which shall be strong, cheap, simple and effective, and which shall be especially adapted for use as a closure where it is desirable to insulate the contents of the receptacle as much as possible from variation in temperature. I accomplish said object in the manner hereinafter more particularly described and claimed.

In the drawings, Figure 1 is a vertical sectional view of a portion of the top of a receptacle showing my improved closure applied thereto, Fig. 2, is a plan view thereof, Fig. 3 is a vertical sectional view of a portion of a cover or wall of a vessel having an opening therein showing a modified form of my invention applied thereto, and Fig. 4 is a vertical sectional view of a portion of a jar showing a modified form of closure.

Referring to the drawings, *a*, Figs. 1, 2 and 3 represents the top or horizontal wall of a receptacle, such, for example, as a milk-can, having a circular opening *b* formed therein. A closure comprising a plurality of disks *c* arranged substantially parallel to each other and connected together by means of a central stud *d*, is placed within the opening. The disks *c* are of substantially uniform diameter and are preferably formed from one or more thicknesses of paraffined paper or other suitable, yielding, non-absorbent material and are, by preference, detachably secured to the central stud by means of a bolt *e* having a nut *f* upon its lower end. A loop *g* upon the upper end enables a ring *h* to be attached to said bolt. The diameter of the disks *c* is somewhat greater than that of the opening *b* so that when the closure is inserted in place the pressure necessary to force it into position causes the disks to assume a concavo-convex form as indicated in the drawing, thereby resisting any outward pressure from within the receptacle by a tendency to expand or press laterally against the walls of the opening. The space between the two disks serves as a dead-air space to insulate the contents of the receptacle from the outer atmosphere.

In Fig. 3 I have shown a modification of said invention which consists in forming an opening *i* in the uppermost disk, thereby enabling a sealing compound such, for example, as paraffin, wax or other sealing element to be poured therein to hermetically seal said closure.

In Fig. 4, a still further modification is shown which consists of two disks *j j* rigidly attached to a central stud *k* by means of nails or tacks *l*. An opening *m* is shown in the outer disk which is filled by means of wax *n*. A similar filling *o* is formed above the inner disk as well as around the edge of the outer one. The device last described is more especially applicable to fruit jars and other receptacles, which are intended to retain and preserve their contents for a considerable time.

Having thus described my invention, I claim:

1. A device of the class described in which is combined a plurality of parallel disks of substantially uniform diameter formed from non-absorbent yielding material, a spacing stud located centrally between them, and means for detachably connecting said disks to the ends of said stud to provide an insulating space between said disks.

2. The combination in a closure of the class described, of parallel disks formed from non-absorbent yielding material, a hollow central stud interposed centrally between them, and a connecting bolt for rigidly compressing the same against said stud.

3. A closure of the class described comprising a plurality of connected disks having a space between them, said disks being formed from a yielding non-absorbent material, one of said disks being provided with an opening therein.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses, this third day of May 1907.

GORDON VALENTINE.

Witnesses:
D. H. FLETCHER,
CARRIE E. JORDAN.