

(No Model.)

G. PENDLETON, Jr.
CLOSURE FOR PACKAGES.

No. 590,908.

Patented Sept. 28, 1897.

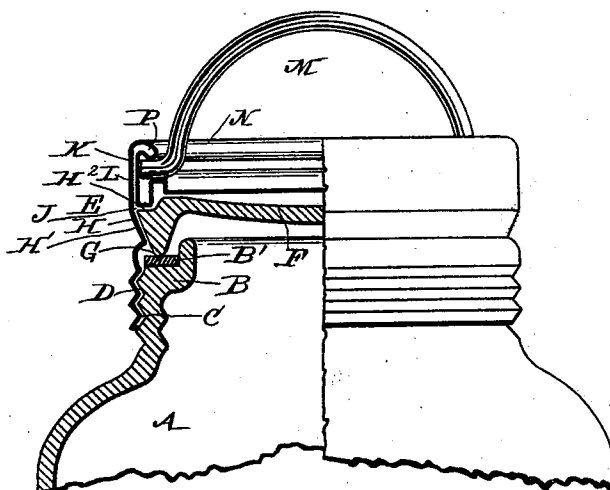


Fig. 1

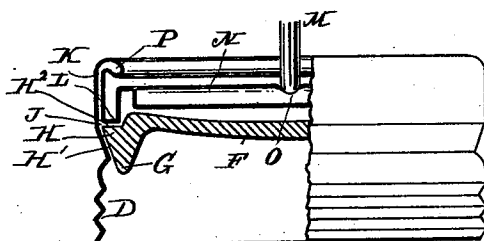


Fig. 2

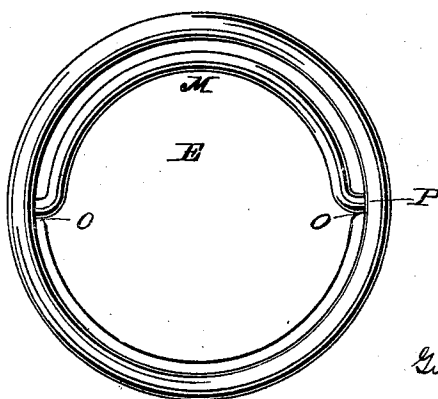


Fig. 3

WITNESSES:

Chas. L. Ditch
Chester Higgins

Gordon Pendleton Jr.
INVENTOR

BY *Clarence D. By*
ATTORNEY.

UNITED STATES PATENT OFFICE.

GURDON PENDLETON, JR., OF CARBONDALE, PENNSYLVANIA, ASSIGNOR TO
THE PENDLETON MANUFACTURING COMPANY, OF SAME PLACE.

CLOSURE FOR PACKAGES.

SPECIFICATION forming part of Letters Patent No. 590,908, dated September 28, 1897.

Application filed February 11, 1897. Serial No. 622,899. (No model.)

To all whom it may concern:

Be it known that I, GURDON PENDLETON, Jr., a citizen of the United States, residing at Carbondale, in the county of Lackawanna and State of Pennsylvania, have invented a new and useful Improvement in Closures for Packages; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to closures for packages used for paint, preserves, &c., and mainly to packages, like preserve and fruit jars, requiring an air-tight closure, and usually made of glass with a glass cover-plate secured to the glass body by an external metallic sleeve to avoid corrosion by the contents.

In one style of jar in common use the glass cover-plates are secured to the glass body by a metallic sleeve separable from the cover-plate, screwing on the neck of the body. The glass cover-plates, however, being separable from the sleeve, often fall when the cover is removed and break, while the sleeve, being unyielding, does not adapt itself to the inequalities of the joint, and thus makes an imperfect closure. Furthermore, the sleeve being round, it is difficult to screw the sleeve on tight and to unscrew it when it binds or sticks.

In another and older type of fruit-jar a glass or porcelain plate is held loosely in a capped sleeve screwing on the body, but the sealing-joint is between the bottom of the sleeve and an external shoulder on the body, so that the contents can gain access to and corrode the metallic cap between the glass plate and the mouth of the body, where the opening is variable.

My invention consists, as a whole, but briefly, of a cover-plate adapted to make a tight joint with the mouth of the jar or package and locked vertically, but rotatably, in an external cover-cap of a preferred yielding construction, adapted to be coupled by screwing to the body, and provided with a folding carrying-bail to serve also as a convenient handle for screwing it to and unscrewing it from the body.

By my invention I gain, among other advantages, a tight joint between the cover-plate and body, and thus prevent corrosion

of the sleeve, while making the cover-plate a permanent part of the cover-cap and greatly facilitating opening and covering the jar or package.

In order that my invention may be fully ascertained, I shall first describe in detail the mode in which I carry the invention into practice and then point out the various features of the invention in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which the same parts are designated by like letters in all the figures.

Figure 1 is a side view, partly in section, of part of a covered fruit-jar embodying my invention. Fig. 2 is a side, partly sectional, view of the cover from a direction at right angles to that of Fig. 1. Fig. 3 is a plan view of the same.

In practice I form the body A of the package, which is here represented as a glass preserve-jar, with an annular joint-bearing B around its mouth, usually having a compressible packing-ring B' to make a tight joint, and with an external coupler, by preference a screw-thread C, below the joint-bearing B, on which coupler is screwed the corresponding coupler D of a cover-cap E.

The mouth of the body A is closed by a cover-plate F, by preference of glass, porcelain, or other suitable material, formed with an annular ridge-bearing G, to make a tight joint with the body joint-bearing B, and an annular tongue H, which I prefer to form with an undercut or upwardly-flaring bottom bearing H' and an annular top bearing H².

The cover-plate F is inclosed in the cover-cap E, which I prefer to draw-press and roll out of a single piece of sheet metal, as zinc, in a general way as described with reference to a cover of similar form in another application for patent executed by me October 20, 1896, and filed in the Patent Office.

I form the cover-cap E above its coupler D with an annular internal groove J, by preference with an upwardly-flaring lower bearing, to correspond with and receive the tongue H of the cover-plate F, which is thus held against vertical displacement in and separation from the cover-cap, while the latter can rotate freely on the cover-plate, so that by

screwing the cover-cap to the body-coupler C the cover-plate is brought down to its bearing on the body joint-bearing B and will not rotate thereon while the cover-cap is screwed down to make the cover-plate joint tight. Likewise in unscrewing the cover-cap E the cover-plate F will not rotate on the body joint-bearing B until lifted therefrom and with the cover-cap. Thus the cover-plate will not wear the packing by turning thereon, while the cover-plate will always remain in the cover-cap.

To make the cover-cap E more elastic and thus perfect the joint between the cover-plate and the body and also to stiffen and strengthen the cover-cap, I prefer to form it with an upward peripheral annular fold K, similar to that described in my other application for patent before referred to, the outer ply of which fold forms the groove J and the body-coupler D, and the inner ply of which fold rises from the outer edge of an annular bearing L, which holds down the annular cover-plate bearing H².

To the cover-cap E, I pivot transversely a carrying-bail M to fold down upon the cover-cap within the fold K for convenience in packing and also to serve as an efficient handle for screwing the cover-cap on the body, and thus for removing or tightly securing the cover. I prefer to pivot the ends of the bail M to the upward fold K to gain greater strength and leverage, and I do so by bending the upper part of the fold K inward to form an annular lip P and forming the cover-cap with an upwardly-projecting annular ridge N beneath said lip and around the inner edge of the bearing L, interrupted on opposite sides by sockets O, in which the ends of the bail are sprung beneath the lip P. The bail is thus readily and firmly secured to the cover-cap, while the latter, and especially the bearing L, is additionally strengthened and stiffened by the ridge N. I may also use this novel cover-cap and bail as a closure for packages without the inclosed cover-plate F.

It is evident that my combined cover-plate and cover-cap may be used to great advantage on packages of all kinds, as well as pre-

serve-jars, and that each feature of the invention is valuable independently of the other features. The cover is exceptionally simple and inexpensive to manufacture in spite of its many advantages.

I claim as my invention—

1. In a cover for packages, a sheet-metal cover-cap formed with an annular downholding-shoulder L, an annular upholding-shoulder around its side wall, and a rotative body-coupler therebelow, in combination with a rotatable cover-plate held loosely between the annular downholding and upholding shoulders, but inseparably retained in the cover-cap thereby.

2. A sheet-metal cover-cap formed with a closed top, an annular downholding-shoulder L depressed below said top an annular upholding-shoulder and a rotative body-coupler therebelow, in combination with a rotatable cover-plate inclosed within the cover-cap and held loosely between the annular downholding and upholding shoulders, but inseparably retained in the cover-cap thereby.

3. A sheet-metal cover-cap formed with an annular downholding-shoulder L and an upward-projecting fold K surrounding the shoulder L, the outer ply of the fold K being formed with an annular upholding-shoulder and a rotative body-coupler, in combination with a rotatable cover-plate held between the downholding-shoulder L and the upholding-shoulder.

4. A sheet-metal cover-cap formed with an annular downholding-shoulder L, an annular upward-projecting ridge N, interrupted at opposite points to form bail-sockets O, and an upward-projecting peripheral fold K, the outer ply of which forms the body-coupler and the top of which fold is bent inward as a lip P over the bail-sockets O, to retain the ends of a bail therein.

In testimony whereof I have hereunto set my hand this 8th day of February, 1897.

GURDON PENDLETON, JR.

In presence of—

CLARENCE L. BURGER,
WILLIAM R. BAIRD.