

(No Model.)

3 Sheets—Sheet 1.

G. PENDLETON, Jr.
CLOSURE FOR PACKAGES.

No. 590,907.

Patented Sept. 28, 1897.

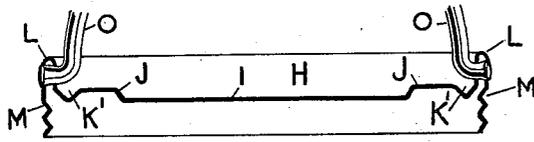
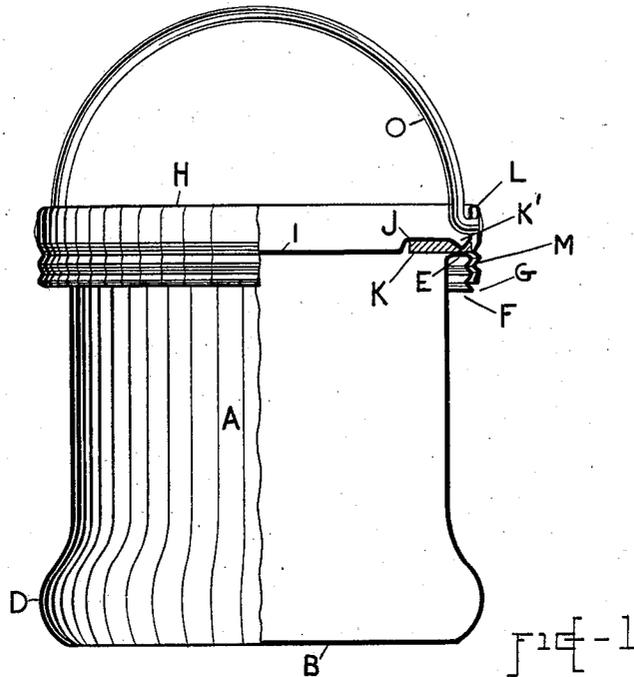


FIG. 2

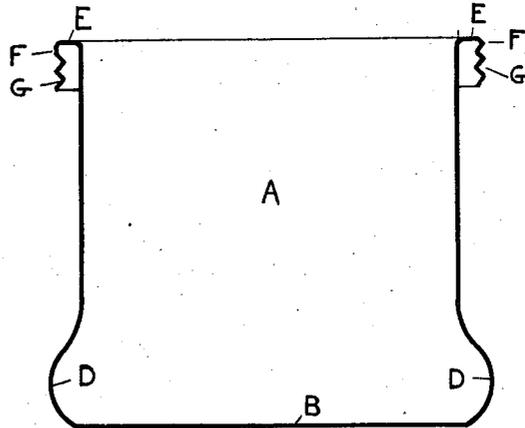


FIG. 3 G. Pendleton Jr. INVENTOR

WITNESSES:

Chas. R. Ditch
Chester H. Higgins
Herman Meyer

BY *Clarence P. [Signature]*
 ATTORNEY

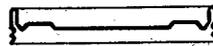
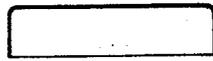
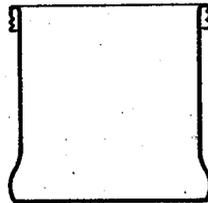
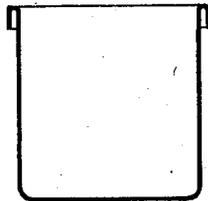
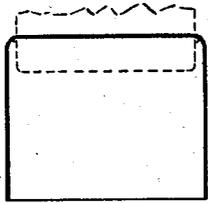
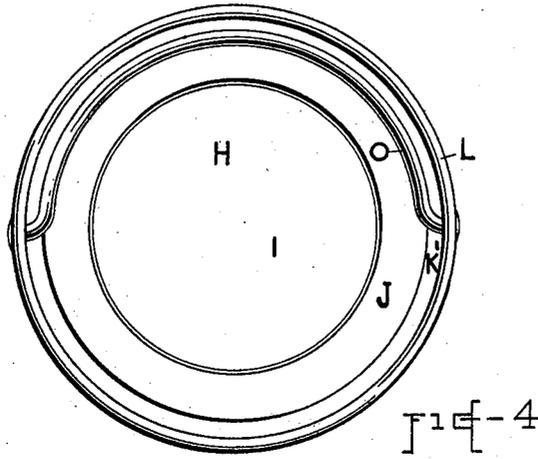
(No Model.)

3 Sheets—Sheet 2.

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WITNESSES:

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Fig-5

Gordon Pendleton Jr

INVENTOR

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Fig-6

(No Model.)

3 Sheets—Sheet 3.

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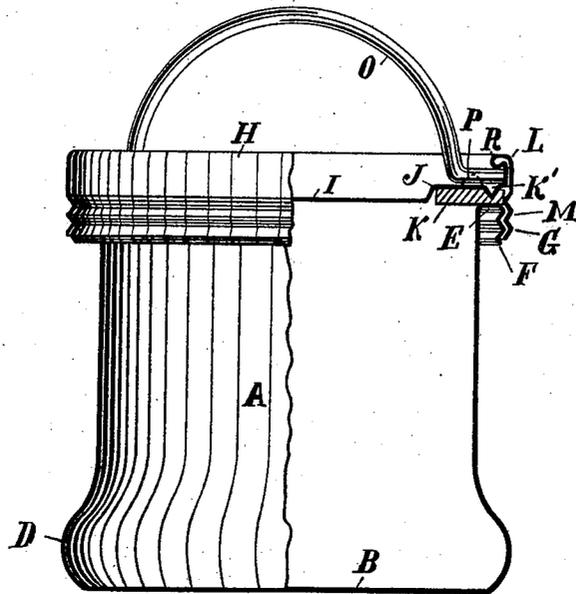


Fig. 7

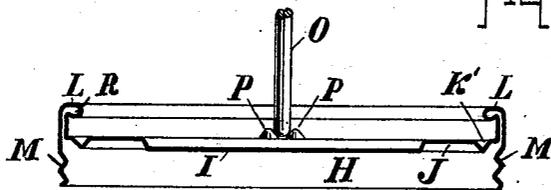


Fig. 8

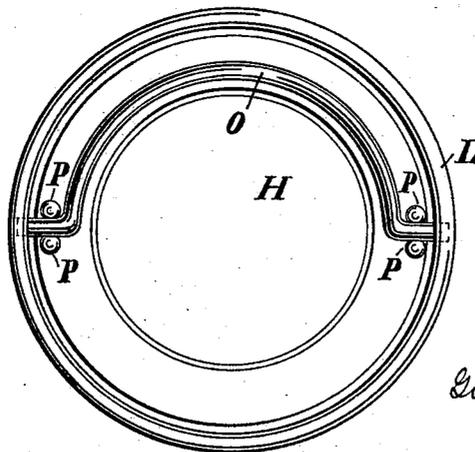


Fig. 9

WITNESSES:
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Chester H. Higgins
Herman Meyer

Gordon Pendleton Jr.
 INVENTOR

BY *Clarence R. [Signature]*
 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. 590,907, dated September 28, 1897.

Application filed January 11, 1897. Serial No. 618,817. (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, 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 generally to closures for packages used for paint, preserves, &c., and has among its objects to provide a package whose body, together with its cover-coupler, is rigid and strong and is made easily and economically of sheet metal, whose cover is readily uncoupled from and coupled to the body and when coupled makes a perfectly tight and strong package, and which package can be easily and closely packed for transportation. I attain these and other ends by my invention, and in order that the same may be fully ascertained I shall describe in detail the mode in which I carry my invention into effect, and then point out its several features in the claim.

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

Figure 1 represents, partly in cross-section, a covered package embodying my invention. Fig. 2 is a cross-section of the cover detached. Fig. 3 is a cross-section of the body uncovered. Fig. 4 is a plan view of the cover. Fig. 5 represents several steps in my method of making the body. Fig. 6 represents several steps in my method of making the cover. Figs. 7, 8, and 9 illustrate a modified form of the cover.

In making the body A of the package in accordance with this feature of my invention I take a single piece of ductile sheet metal and draw or press it, as partly indicated in Fig. 5, by means of suitable dies to form the bottom B, the cylindrical wall C, preferably swollen at D to make the package with its cover pack squarely, the laterally-projecting annular shelf or bearing E around the mouth of the body, and the annular rim F, depending from the outer edge of the bearing E and forming the coupler G for the cover below

and outside the bearing, on which coupler I prefer to form a male screw-thread pressed in the rim F, as shown, to engage a corresponding female thread on the cover.

The whole body, with its bearing E, rim F, and coupler G, is thus formed easily and cheaply of an integral piece of sheet metal, and the integral bearing E and externally-spaced coupler G act as an integral truss to stiffen and strengthen the body and whole package and prevent it from collapsing or deformation under pressure, while the coupler is also rendered to some extent elastic and its union with the cover thereby facilitated and made more tight and strong.

In making the cover H of the package in accordance with that feature of my invention I also use a single piece of sheet metal, which I draw or press, as partly indicated in Fig. 6, by means of suitable dies to form by preference the centrally-depressed portion I, surrounded by an annular recess or bearing J, in which the annular packing-ring K, if used as in packages to contain liquids, is held, as shown, or if a packing-disk is used or no packing at all the central depression I may be omitted. I also prefer to form, as by drawing or pressing, an annular concentric ridge K, depending from the bearing J, to give a greater leverage and perfect the contact and closure between said ridge and the annular shelf or bearing, as E, on the top of the body or the elastic packing therein when used. I further form, by the pressing or drawing, an upwardly-projecting annular fold L around the periphery of the cover-bearing J, the outer ply of which fold is slightly separated from the inner ply thereof and is continued downward below the bearing J and formed with the coupler M, having by preference a female screw-thread, as shown, to engage a corresponding thread on the coupler of the body. By this integral formation of the sheet-metal cover with its upward fold L and coupler M, I strengthen and stiffen the cover and package, as by a truss, against collapsing or deformation under pressure and at the same time render the coupler M somewhat elastic, so as to facilitate and perfect its union with the body-

coupler. The upright annular fold L likewise serves in Figs. 1, 2, 3, and 4 for attachment of the bail O of the package, which bail I in this case pivot transversely in opposite sides of the fold L, so that it will swing downward within the fold L for compactness and will likewise serve for rotating or coupling the cover to the body with the greatest possible leverage and strength owing to its attachment to the fold L.

It is evident that my improved cover for a package may also be used with advantage on various other package-bodies of suitable size and form, whether of glass or any other material, and whose cover-couplers may or may not be separated from the body, as described herein.

It is also evident that my improved package-body may be advantageously used with many other forms of covers than that herein described.

By using my improved cover and body together, however, a package is constituted of peculiar tightness, strength, cheapness, and convenience. The advantageous results of my invention are not dependent upon any particular form of locking device on the couplers, as while I prefer the male and female screw union the couplers may be united by simple friction, by soldering, by a bayo-

net-lock, or any other approved means for the purpose.

In Figs. 7, 8, and 9 I have shown the cover H formed with pairs of struck-up projections serving as shoulders P on opposite sides of the cover close to the upward fold L and the fold L bent inward to form an annular lip R, the ends of the bail O being sprung beneath the lip R and between the shoulders P, so as to securely attach the bail to the cover and yet form a peculiarly simple and economical means of attaching the bail thereto.

I claim as my invention—

The cover for a package herein described as consisting of sheet metal formed with an upward-projecting peripheral fold, the outer ply of which depends below the cover and forms the rotative body-coupler and the upper part of which fold is bent inward to form a lip, and with pairs of shoulders P, and provided with a bail held beneath said lip and between the pairs of shoulders P, to rotate the cover and couple the same to the body.

In testimony whereof I have hereunto set my hand this 20th day of October, 1896.

GURDON PENDLETON, JR.

In presence of—

CLARENCE L. BURGER,
WILLIAM R. BAIRD.