

(No Model.)

G. PENDLETON, Jr.
PACKAGE.

No. 571,928.

Patented Nov. 24, 1896.

Fig. 1.

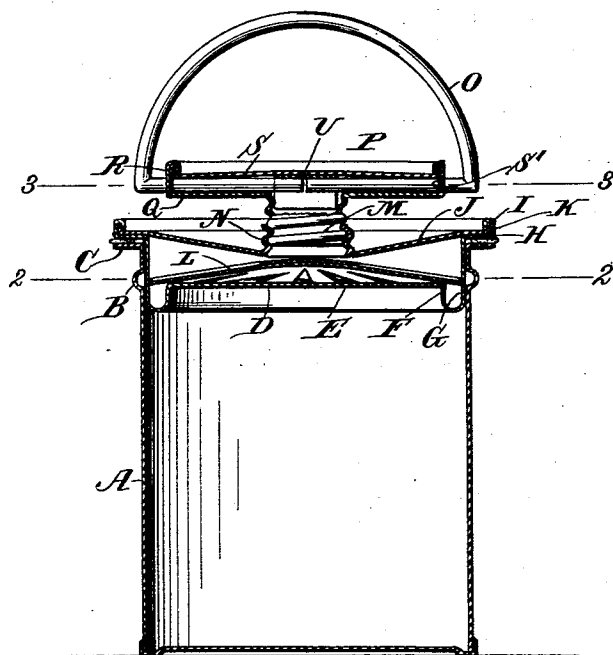


Fig. 2.

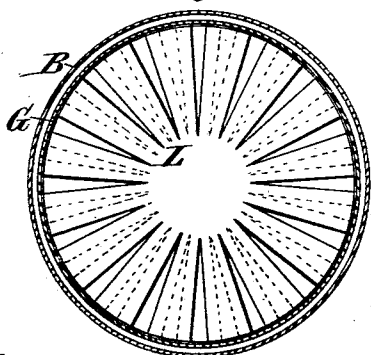
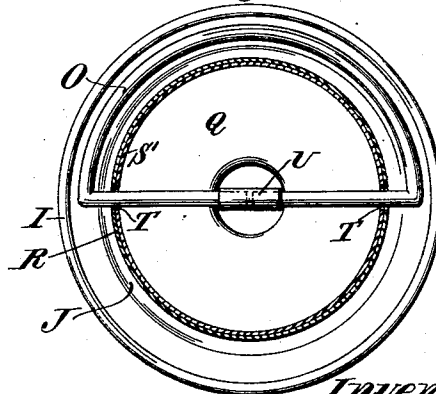


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

GURDON PENDLETON, JR., OF CARBONDALE, PENNSYLVANIA.

PACKAGE.

SPECIFICATION forming part of Letters Patent No. 571,928, dated November 24, 1896.

Application filed May 7, 1896. Serial No. 590,540. (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, Lackawanna county, Pennsylvania, have invented a new and useful Improvement in Packages, of which the following is a specification.

This invention relates mainly to means for securing the covers of sheet-metal, glass, and other cans or packages in place, so that the cover will be water-tight, and may be readily applied or removed, and the particular object of my invention is to provide a covering device for this purpose which can be applied and removed with unusual facility, is absolutely tight, is of exceedingly simple and strong construction, is applicable to nearly all varieties of packages, and renders the package extremely portable and easily packed.

In accordance with my invention I form the cover of the package with an expansible rim to fit within the mouth of the package, and by a simple dished plate expand said rim radially against the wall of the package, so as to tightly seal the package, the expanding device acting when reversed to permit the contraction of the rim and the ready removal of the cover.

In order that my invention may be clearly ascertained, I shall first describe in detail the manner in which I carry my invention into practice, and then point out its novel features in the claims.

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

Figure 1 is a cross-sectional view of a package embodying my invention, the cover being in place, but not sealed. Fig. 2 is a sectional plan view of the same on the line 2 2, Fig. 1. Fig. 3 is a sectional plan view on the line 3 3, Fig. 1.

A designates the body of the package here illustrated, which may be of tinned iron or other flexible material or glass or other unyielding material, and which I, in this example of my invention, form with an internal corrugation or groove B a short distance below the upper edge and with a laterally-projecting rim or shelf C at its upper edge. I prefer to make the cover D for the package

of sheet metal and to construct it with a bottom plate E, formed integrally, as in a die, with a depressed shoulder F, forming a channel around its edge, and with a yielding rim G to fit snugly within the upper end of the body A of the package, the rim G being also formed with an outwardly-projecting horizontal rim H to fit and rest on the shelf C of the body and with an upwardly-projecting flange I. I also prefer to construct the cover D with a centrally depressed or dished top plate J, the edge of which rests on the rim H of the bottom plate and is secured thereto by having an upwardly-projecting flange K, over which the flange I of the bottom plate is tightly bent. An exceptionally stiff cover is thus formed for the package, the rim G of which fits and is overlapped by the upper end of the body A of the package.

To seal and secure the rim G and thus the entire cover to the body A, I employ a device for expanding the flexible rim G against the overlapping part of the body, and, when the same is provided with the groove B, into said groove, and I prefer to employ for this purpose an upwardly-dished plate L, which is composed of two plates radially slotted to allow the flattening and consequent peripheral expansion of the plate L, the slots in one component plate being covered by the unslotted portions of the other component plate. I fit said dished plate L on the bottom plate E of the cover before the top plate J is secured thereon, so that its edge will bear against the inside of the rim G opposite the groove B, if present, and will rest upon the depressed shoulder F as a fulcrum, so that by centrally depressing or flattening the dished plate L the periphery of the same will expand the yielding rim G evenly and tightly against the body of the package and into the groove B, thus effecting a perfect joint. For effecting this depression of the dished rim-expanding plate L and for releasing the same so that the cover can be withdrawn from the body I prefer to employ a screw M and to form the top plate J integrally with a struck-up threaded extension N, in which the screw M turns and works against the rim-expanding plate L, the downward dishing of the top plate J serving to more effectually resist the consequent upward strain on the screw M and extension N.

I prefer to attach said cover securing and releasing screw M to and operate it by a handle O, which I prefer to employ also as the bail of the package, and to this end I provide
 5 the screw M with a head P, which I construct of a lower plate Q, formed, as in a die, with the said depending hollow screw M and an upwardly-projecting rim R, and of an upper
 10 plate S, formed with a downwardly-projecting rim S', which is fitted within the rim R and is secured therein by turning over the rim R, as shown. To this head P, I attach the handle or bail O by bending the ends of said bail and extending them inward through over-
 15 lapping reversely-semicircular apertures T in the overlapping rims R and S' until they meet over the hollow screw M, where I couple them by means of a clip U, dropped over the said meeting bail ends and fitting within said screw. With this construction the bail O can
 20 be readily used to apply and secure or release and remove the cover, and can be folded down around the head P within the bent body-flange I, so as not to interfere with the close
 25 packing or storage of the package.

I claim as my invention—

1. The cover for a package herein specified as comprising a sheet-metal cover-plate E, formed integrally with a rim G to fit the mouth
 30 of the package, a dished expanding-plate L within the rim G to bear radially against the same, and means for flattening the dished plate L toward a plane and holding it flattened.

35 2. The cover for a package herein specified as comprising a cover-plate E formed with a cylindrical sheet-metal rim G to fit the mouth of the package, a dished expanding-plate within the rim G to bear radially against the
 40 same, and means for flattening the dished plate L and holding it flattened.

3. The cover for a package herein specified as comprising a cover-plate E having a peripheral depressed shoulder F and a generally
 45 cylindrical expansible rim G to fit the mouth of the package, a dished expanding-plate L resting on the shoulder F within the rim G to bear radially against the same, and means for flattening the dished plate L and holding
 50 it flattened.

4. The cover for a package herein specified

as comprising a cover-plate E having a generally cylindrical expansible rim G to fit within the mouth of the package, the rim G being
 55 formed with an outwardly-projecting flange H to rest upon the shelf C of the package, a dished expanding-plate L within the rim G to bear radially against the same, and means for flattening the dished plate L and holding
 60 it flattened.

5. The cover for a package herein specified as comprising a bottom cover-plate E having a generally cylindrical expansible rim G to fit
 65 within the mouth of the package, a top plate J fixed to the upper edge of the rim G, a dished expanding-plate L between the plates E and G, and within the rim G, to bear radially against the rim G, and means for flattening the dished plate L and holding it flat-
 70 tened.

6. The cover for a package herein specified as comprising a bottom cover-plate E, and top plate J, having their edges joined by an
 75 expansible rim G to fit within the mouth of the package, and the top plate having a threaded boss N, a dished expanding-plate L between the plates E and J and within the rim G to bear radially against the same, and a screw M working in the boss N against the
 80 center of the dished plate L to flatten the same and hold it flattened.

7. The cover for a package herein specified as comprising a bottom cover-plate E and top
 85 plate J joined by an expansible rim G to fit the mouth of the package, the top plate J having a threaded boss N, a dished expanding-plate L between the plates E and J and within the rim G to bear radially against the same, a screw M working in the threaded
 90 boss N against the dished plate L to flatten the same, and having a head P, and a bail O hinged to the screw-head P, for turning the screw M and expanding the rim G, and for withdrawing the cover, and adapted to be
 95 folded down upon the cover.

In testimony whereof I have hereunto set my hand the 11th day of March, 1896.

GURDON PENDLETON, JR.

In presence of—

WILLIAM R. BAIRD,
 ADOLPH F. HOSCH.