L. BELING.

MOISTURE PROOF PACKAGE FOR TEA AND THE LIKE.

APPLICATION FILED NOV. 11, 1916.

1,262,299. Patented Apr. 9, 1918.

Fig: 1.

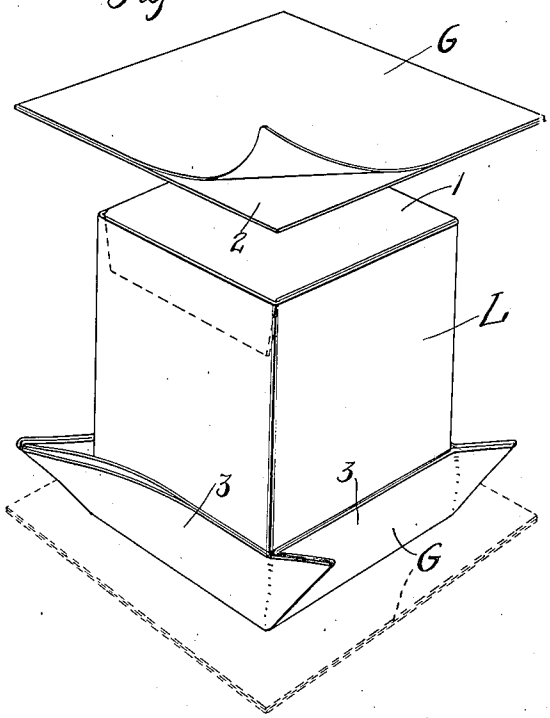


Fig: 2.

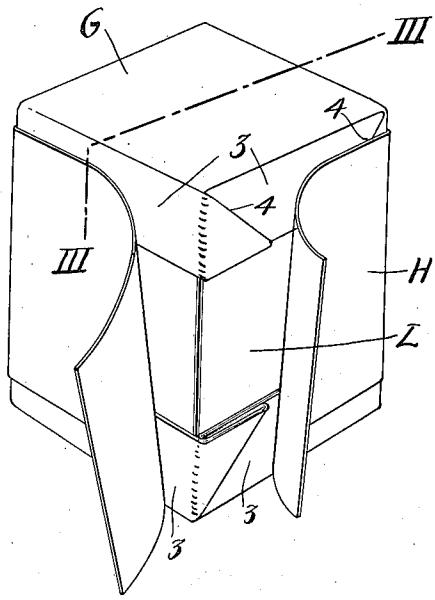


Fig: 3.

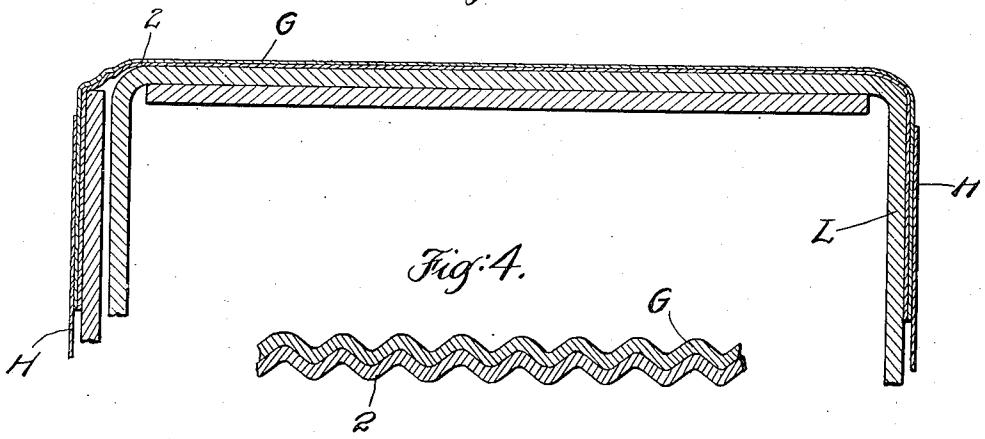


Fig: 4.

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BY

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LEOPOLD BELING, OF BROOKLYN, NEW YORK, ASSIGNOR TO CERTIPURE COMPANY, INC., OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

MOISTURE-PROOF PACKAGE FOR TEA AND THE LIKE.

1,262,299. Specification of Letters Patent. Patented Apr. 9, 1918.

Application filed November 11, 1916. Serial No. 130,765.

To all whom it may concern:

Be it known that I, LEOPOLD BELING, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Moisture-Proof Packages for Tea and the like, of which the following is a specification.

This invention relates to a package or carton for tea and the like.

A particular object of the invention is to provide a package which is of novel and attractive appearance, which is moisture proof, which is strong, substantial and efficient, and in which all of said qualities are combined at small cost of manufacture.

A more specific object is to provide a carton in which the main body portion, or side walls, may be made of cardboard, and to provide a cheap, although pleasing and attractive metallic end or cover members.

A further specific object is to provide means whereby thin, flexible, sheet metal, as for instance aluminum foil, may be employed as closure or sealing members, and to provide means for preventing likelihood of such sheet metal becoming broken particularly in its folds either during its application or thereafter.

A further general object is to provide a package made up of a pasteboard or like container having simple end flaps adapted when closed roughly to retain the contents of the package from being spilled out, and to provide a flexible impervious sheet metal cover or sealing member applied as a flat sheet having its marginal portions folded down about the sides of the container, to close and seal the cracks and openings between the flaps and side walls of the container, and having its corner portions folded over upon themselves to lie flat against the side walls of the container, and to provide a wrapper, serving as a label, encircling the side walls of the container and having its longitudinal marginal edges pasted or otherwise fixed to the folded over marginal and corner portions of the metallic closure so as to complete the seal and produce a finished, attractive, and efficient article of commerce.

A further detailed object is to provide means associated with the metallic closure for enabling the metallic closure to be held firmly in position upon the container by the use of paste or glue, or the like.

Other objects and aims of the invention, more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the elements, combinations, arrangements of parts and applications of principles, constituting the invention; and the scope of protection contemplated will be indicated in the appended claims.

In the accompanying drawings which are to be taken as a part of this specification, and in which I have shown a merely preferred form of embodiment of the invention.

Figure 1 is a perspective view of a container illustrating the manner of applying the metallic sealing covers thereto.

Fig. 2 is a similar view after the sealing covers have been applied, said view illustrating the wrapper in position partly about the container, showing the manner in which it engages the sealing covers to retain the covers in position and complete the seal.

Fig. 3 is an enlarged fragmentary sectional view taken substantially upon the plane of line III—III of Fig. 2.; and

Fig. 4 is a further enlarged fragmentary sectional view illustrating the manner in which the sealing cover is constructed.

Referring to the drawings for a detailed description of the structure illustrated therein, the reference character L indicates the container. This, as above suggested, is preferably formed of cardboard and may have one or more loose flaps 1 for roughly retaining the contents against spilling.

Even in very expensive and carefully constructed cartons of this nature cracks and openings invariably occur where the flaps are folded together so that air is free to circulate therethrough and impair the quality of the contents.

By the use of the present invention very cheap cartons in which the flaps are roughly made may be employed for the reason that the objections to the cracks and crevices are avoided by the metallic sealing covers employed.

The sealing covers are indicated at G. These are formed of metal, aluminum foil being found to be the most appropriate by reason of its great tensile strength. Although the aluminum foil is brittle to a considerable degree, nevertheless this quality is rendered entirely unobjectionable by the provision of a soft fibrous backing 2 which is applied to the sheet aluminum before the

sealing cover is folded into position over the end of the container.

When the cover is folded about the end of the container the backing interposes itself into any and all sharp bends or corners which may occur during the folding operation, particularly at the corners of the container, and prevents the formation of such sharp bends and corners in the metal as would cause the metal to crack.

Also, after the package is completed, the presence of the soft backing throughout the extent of the covers, and particularly at the corners, prevents the metal from becoming broken, when subjected to knocks and blows, by avoiding the formation of sharp bends and by reinforcing the metal.

The backing 2 is preferably of thin paper and is connected to the sheet metal so as to become in effect a part thereof to the end that the sealing cover, as the same is ready to be applied to the end of the container, comprises an element which is metallic upon one surface and which is paper upon its other surface. By applying this element with the metallic surface outermost the paper inner surface affords a desirable and proper medium whereby to attach the cover to the container by means of glue, paste, or the like, while the metallic outer surface presents an attractive exterior appearance. The metal is impervious and excludes moisture throughout its extent.

The presence of the paper in the folds which occur particularly at the corners, serves as a sort of packing at once insuring a tight joint and a soft multi-thickness portion for receiving blows and knocks in transit.

The presence of the paper backing throughout the extent of the metal serves to render the metal more tenacious and to give it increased tensile strength to withstand the blows of ordinary handling.

After the sealing covers have been placed in position and folded about the ends of the container as clearly indicated in Figs. 1 and 2, being fixed to the container at all necessary points by the use of glue or paste, the wrapper or label H is applied. This wrapper comprises a strip of paper or the like of a width slightly less than the height of the container and it is pasted or glued about the container so that its opposite longitudinal edges overlap the folded over marginal portions 3 of the sealing covers and, being glued to said covers along said marginal edges, serves to complete a positive and efficient seal for the package.

It should be pointed out that although a small quantity of air may possibly trickle in behind the wrapper through the spaces, as for instance those indicated at 4, defined by the folds of the material of the sealing covers, nevertheless this air is in so small a quantity as to be negligible and is prevented from reaching the interior of the container by the multi-thickness of parts formed in the fold, and particularly by the presence of the soft paper backing which seals the creases which might possibly otherwise occur between the metal and the material of the container.

Any suitable means may be employed for fixing the backing 2 to the metal portion of the sealing cover but preferably this is accomplished by forming both the metal and the backing into a multitude of raised and depressed portions, as indicated in Fig. 4 of the drawing. These portions are very minute, being preferably about one hundred or so to the inch and they may constitute an ornamental feature by producing a frosted appearance upon the surface of the metal. They may be omitted in certain localities so as to form attractive configurations in the frosted surface. In forming these indentations the great number of inclined walls presented both by the metal and the paper serve to provide a grip which will retain the two elements against unintentional separation during ordinary handling. In order to improve the grip the paper may be coated with a gummy substance, or with paraffin, or like impervious coating.

It should be added, however, that this invention is not limited to the presence of paper or other backing upon the sheet metal closure as many of the advantages thereof will be obtained without the use of such backing. Further, it may be mentioned that the roughened or frosted appearance upon the inner surface of the sheet metal may serve as a medium for enabling the metal to be pasted or glued directly to the material of the container without the use of the paper or other backing, the relative raised and depressed portions in the surface of the metal enabling the glue to obtain a better grip upon the metal. This is also true with respect to the outer surface of the metal where the wrapper is glued thereto, the relative raised and depressed portions in the exterior surface enabling the glue to obtain a firm grip upon the metal.

As many changes could be made in this construction without departing from the scope of the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative only and not in a limiting sense.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A package of the kind indicated, comprising a box having an opening at one end, a sealing cover for said end comprising a flat piece of thin sheet metal of a size larger than said end, said sheet metal having its

marginal portions folded down about the sides of the box, and a sheet of paper fixed to the folded down portions of the sheet metal on the inner surface of said folded down portions adapted to be pasted to the underlying portions of the box and thereby to retain the sheet metal against displacement and a label sheet wrapped about the sides of the box and covering the edges of the folded down portions of the sheet metal.

2. A package of the kind indicated, comprising a box having an opening at one end, a sealing cover for said end comprising a flat piece of thin sheet metal having its marginal portions folded down about the sides of the box, said folded down portions being creased at certain localities about the side walls of the box incident to the folding down operation, and a backing of paper secured to said folded down portions and extending into the creased portions, said paper backing being at the inner surface of said folded down portions and serving the double purpose of providing a packing for closing the openings formed by the creases and of providing a surface to which paste adheres for securing the folded down portions to the underlying portions of the box, and a label sheet wrapped about the sides of the box and covering the edges of the folded down portions of the sheet metal.

In testimony whereof I affix my signature in the presence of two witnesses.

LEOPOLD BELING.

Witnesses:
L. GESSFORD HANDY,
GEORGE H. PEAL.