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W. P. WHITE
PACKAGING CONTAINER
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Fig. 1

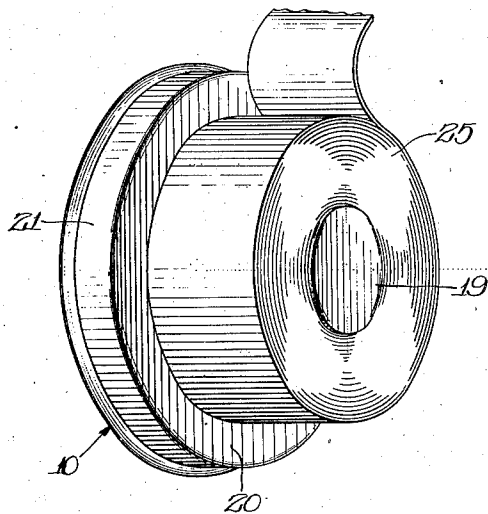


Fig. 2

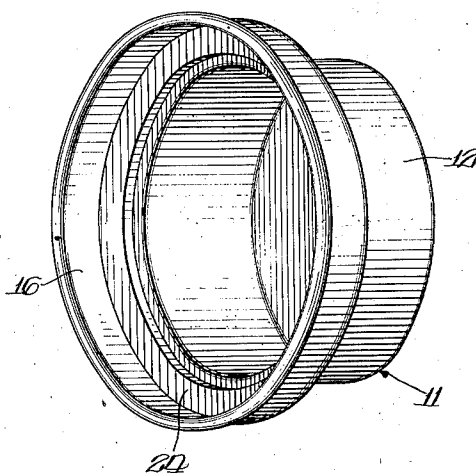


Fig. 3

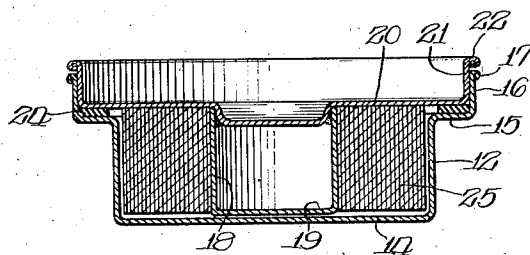
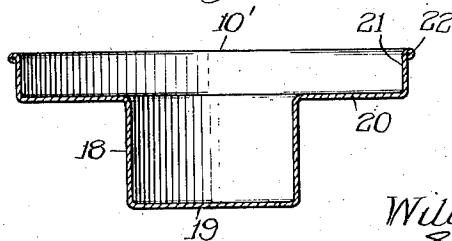


Fig. 4



Inventor:
William P. White,
By *Crowell Tipton & Co.* attys

UNITED STATES PATENT OFFICE

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PACKAGING CONTAINER

William P. White, Glencoe, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware

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2 Claims. (Cl. 206—52)

This invention relates to packaging and pertains particularly to a packaging container for material in the form of a strip or strand.

For purposes of retail sale and convenient use, it is desirable to package various strip or strand material in small packets. A familiar example of such material is surgical adhesive tape. Various such materials are subject to deterioration, drying, or other undesirable effects if left in contact with air for a sufficient length of time.

An object of the present invention is to provide a package for such kinds of material which will be of proper character and convenient size for household use, which will effectively protect and maintain the material in proper form and disposal and facilitate the dispensing or removal of portions of it from time to time for use, which will effectively protect the material in the package from contamination, and which will exclude air from contact with the material while it remains in the dealer's stock and until the package is opened for use.

Further objects are to provide such a package which may be opened and closed with facility, and which may be effectively re-sealed to prevent ingress of air.

Other and further objects and advantages of the invention will be pointed out or indicated hereinafter, or will be apparent upon its employment in use.

For purpose of aiding in an explanation of the invention I show in the drawing forming a part of this specification certain forms in which it may be embodied. It is to be understood, however, that these are presented merely for purpose of illustration and are not to be construed in any fashion calculated to limit the appended claims short of the true and most comprehensive scope of the invention in the art.

In said drawing,

Fig. 1 is a perspective view of one portion of the package;

Fig. 2 is a perspective view of the other or complementary portion of the package;

Fig. 3 is a sectional elevational view of the assembled package; and

Fig. 4 is a sectional view of a modified form of one of the elements.

The nature of the invention will be most quickly ascertained from a detailed description of the embodiments illustrated in the drawing.

The package container comprises a pair of mating or nesting elements 10 and 11. I will refer to the element 10 as the holder element and the element 11 as the cover element. These may

be formed conveniently and economically of sheet metal, or other material having the proper rigidity, strength and imperviousness. The cover member is formed with a cup portion having an approximately cylindrical peripheral wall 12 and end panel 14, and a rim portion having a flange 15 extending outwardly from the wall portion, and an axially extending flange portion 16 approximately concentric with the wall portion 12. The axial flange portion 16 has its margin curled to provide a smooth outwardly extending reinforcing bead 17.

The holder element 10 is formed with a hub portion having an approximately cylindrical wall 18 and end panel 19, and with a closure portion 20 extending outwardly from the wall 18 and terminating as an axially extending flange 21 with its margin curled into a smooth outwardly extending bead 22. The holder flange 21 is adapted to fit closely but removably within the cover flange 16, and when so disposed, the hub wall 18 is concentric with the cover wall 12. The hub portion may be originally formed separately from the closure portion 20 and attached thereto by soldering, or it may be formed integrally therewith as illustrated in Fig. 4.

Upon the cover flange 15 is disposed a flat ring sealing gasket 24, which gasket is adherently affixed to said flange 15. The gasket 24 preferably is formed of rubber which is only partially vulcanized, so that it retains a slight amount of plasticity, and it may be adherently affixed to flange 15 by heating the flange and pressing the gasket against it, thereby causing the contacting surface of the gasket to melt slightly and adhere strongly to the flange. The closure portion 20 is adapted to seat upon the opposite side of the gasket 24, the gasket thus providing an hermetic seal between the two elements 10 and 11.

The strip or strand material 25 is wound upon the hub member, which thus forms a sort of reel or spool that supports the material in a disposal approximately concentric with the hub and with the cover member when the two elements are assembled. The closure portion 20 forms a lateral support for the coil of strip material. It is obvious that a corresponding lateral support at the other side of the coil may be provided by attaching a concentric disk or flange to the hub end portion 19.

In the original assembling of the package, after the strip material has been wound on the holder element, the two elements 10 and 11 are placed in the receiver of a suitable vacuum sealing apparatus, the air is withdrawn from the receiver so

as to remove the air from the coil and from the cover element, and the package is sealed by pressing the holder element into the cover element until suitable close engagement is made with the sealing gasket 24. The elements are held in this relationship until after air is re-admitted to the receiver, whereupon the external atmospheric pressure holds the two elements closely together and maintains the hermetic seal. Thus the contained material is maintained out of contact with air until the package is opened.

The package is opened by inserting a suitable thin object, such as a small coin, between the overlapping beads 17 and 22 and prying them slightly apart. This lifts the closure portion 20 from the gasket 24 and admits air to the package, whereupon the holder member may be removed entirely from the cover member and the desired amount of the strip material 25 unwound from the coil. Then the package may be re-closed, to effectively house and protect the strip material, by inserting the holder member into the cover member and pressing them together until the closure portion 20 engages the gasket 24, the gasket meanwhile having remained affixed to the flange 16. The fit of the axial flanges 16 and 21 holds the parts thus assembled. It will be observed that the holder element holds the material in the package out of contact with the peripheral wall of the cover element and the sealing gasket, thus preventing its adhering to them or being deformed by contact therewith.

What I claim is:

1. A packaging device comprising, in combination, a cover element having peripheral and end walls forming a receptacle which is open at one end and closed at the other and having an outwardly extending flange around its open end and an axially extending peripheral flange at the outer edge of said outwardly extending flange, a holder element adapted to form a closure for

said receptacle, said holder element having a closure portion fitting within the peripheral flange and overlying the outwardly extending flange of the cover element and also overlapping the margin of the peripheral flange, and a hub portion spaced inwardly from said peripheral wall and extending substantially the entire depth of said receptacle for positioning material therein, and a sealing element arranged to be compressed between the closure portion of the holder element and the outwardly extending flange of the cover element to form a seal about the open end of said receptacle at a distance from the hub.

2. A packaging device comprising, in combination, a cover element having peripheral and end walls forming a receptacle which is open at one end and closed at the other and having an outwardly extending flange around its open end and an axially extending peripheral flange at the outer edge of said outwardly extending flange, said axially extending peripheral flange having an outwardly turned bead at its margin, a holder element adapted to form a closure for said receptacle, said holder element having a closure portion overlying said outwardly extending flange and terminating in an axially extending flange adapted to telescope within the peripheral flange of the cover element, said axially extending flange of the holder element having an outwardly turned bead at its margin in position to overlap said first mentioned bead, said holder element having also a hub portion spaced inwardly from the peripheral wall of the cover element and extending substantially the entire depth of said receptacle, and a sealing gasket affixed to the outwardly extending flange of the cover element in position to be compressed between the same and the closure portion of the holder element to form a seal about the open end of the receptacle at a distance from the hub.

WILLIAM P. WHITE.