

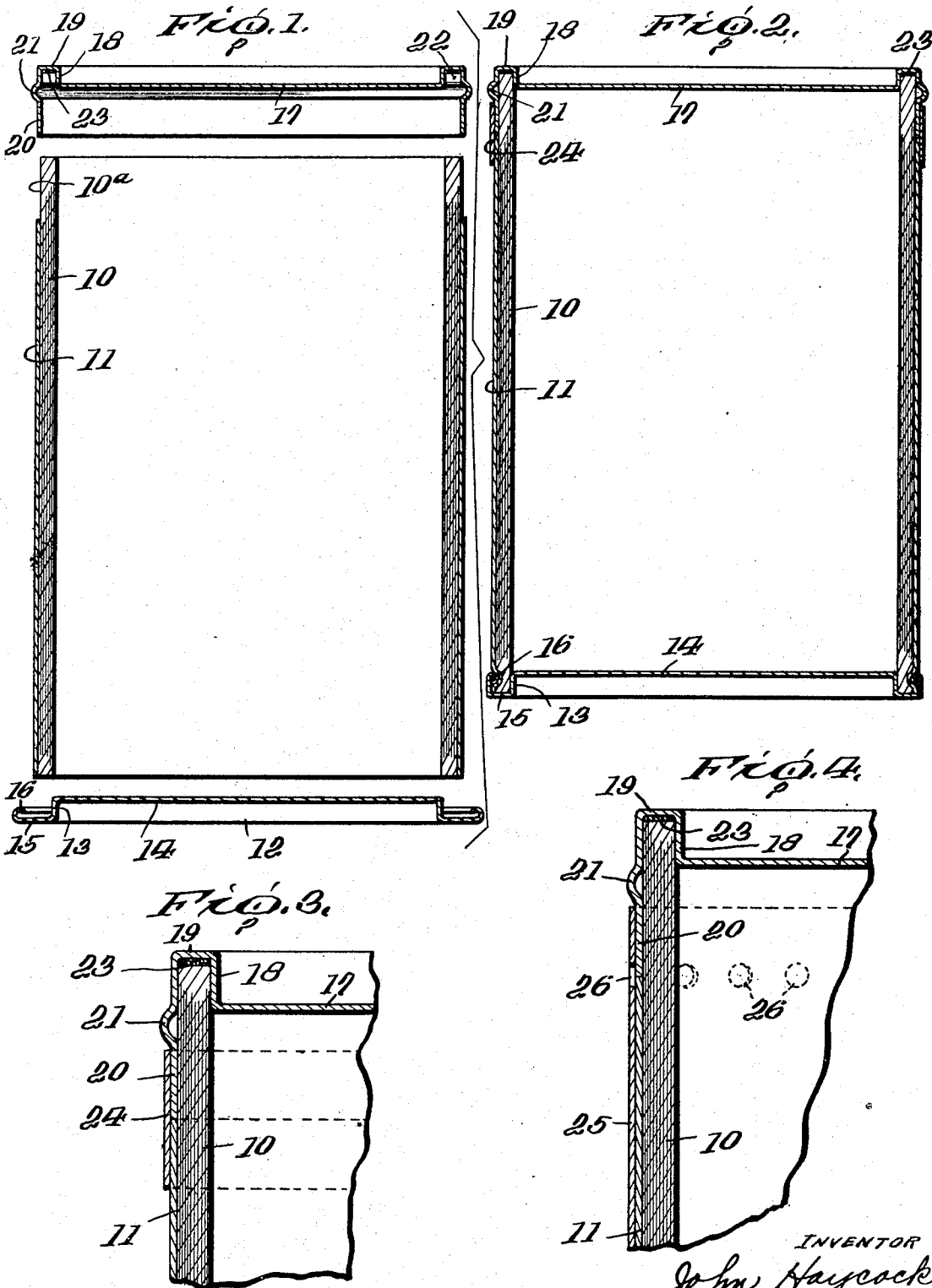
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J. HAYCOCK

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CONTAINER

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INVENTOR
John Haycock
Marion Porter
ATTORNEYS

UNITED STATES PATENT OFFICE

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CONTAINER

John Haycock, Larchmont, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

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1 Claim. (Cl. 229—4.5)

The present invention relates to new and useful improvements in containers, and more particularly to improvements in a container having at least the body portion thereof formed from paper or other fibrous material, such as fibre board, pulp board, or the like.

According to the present invention, the container includes a body portion which is preferably cylindrical and which is formed from a fibrous material in any suitable manner, as by spiral or convolute winding. The body portion is preferably provided with an outer wrapping of moisture-proof fibrous material which may be convolutely applied thereto and which extends from one end of the body portion to a point spaced inwardly of the opposite end thereof so as to leave a limited part of the body portion exposed. This exposed part of the body portion is adapted to be closed by a slip cover which is preferably in the form of a metal friction closure member having a depending flange. The opposite end of the body portion is preferably closed by a metal end which houses and is clinched on the body portion and the wrapping.

An object of the present invention is to provide a container of the above type wherein the slip cover includes a depending flange frictionally engaging the exposed outer surface of the body portion and which abuts and is substantially co-extensive with the adjacent edge of the outer wrapping so as to present a smooth and even outer surface at the abutting edges over which a sealing tape or label may be applied.

Another object of the invention is to provide a container of the above type wherein the slip cover is shaped to provide an annular recess around the edge thereof and opening downwardly so as to receive and frictionally engage the adjacent end of the fibrous body portion and so as to facilitate the addition of a suitable form of sealing material at the end of the body portion.

A further object of the invention is to provide a container of the above type wherein the cover flange is provided with an outward peripheral rib of substantially the same external diameter as the opposite end closure so as to facilitate manipulation of the container in order to apply the sealing strip or an outer label over the abutting edges of the cover and the outer wrapping.

The above and other objects of the invention will in part be obvious and will be hereinafter more fully pointed out.

In the accompanying drawing:

Figure 1 is a longitudinal sectional view show-

ing the body portion separated from the end closure members.

Figure 2 is a similar longitudinal sectional view showing the body portion assembled with the end closure members and with a sealing tape applied around the removable cover member.

Figure 3 is an enlarged fragmentary sectional view showing the sealing tape applied over the cover flange and the outer wrapping for the body portion.

Figure 4 is a similar enlarged fragmentary sectional view showing a modification wherein the sealing tape is replaced by an outer label extending over the entire body portion and cover flange.

Referring more in detail to the accompanying drawing, the body portion 10 of the container is formed of fibrous material which may be spirally or convolutely wound into cylindrical shape. An outer wrapping 11 of moisture-proof material is wound around the body portion and extends from the bottom end to a point below the opposite or upper end of the body portion, thus leaving an exposed portion 10a on the body portion immediately above the upper end of the wrapping 11.

The bottom end closure for the container is preferably in the form of a metal disc 12 having an inwardly extending wall portion 13 which merges into a central depressed closing portion 14. The end of the wall portion 13 merges into an outwardly extending flange portion 15, the end of which is inwardly turned as at 16. This end closure 12 is applied to the container in the manner illustrated in Figure 2. Thus, the outer surface of the wall portion 13 engages within the end of the fibrous body portion 10 and the flange portion 15 extends across the bottom edge of the body portion. The outer end portion of the flange 15 is turned upwardly and inwardly so that the intumed edge 16 will clinch the outer wrapping 11 and compress the fibrous body portion 10 against the wall portion 13. In this manner, an air-tight seal is provided between the body portion and the end 12 and a suitable sealing compound may be employed if desired.

The closure member for the opposite or top end of the body portion is in the form of a metal slip cover which includes a horizontal depressed closing portion 17 and an inner upwardly extending wall portion 18 which merges into a substantially horizontal portion 19. The horizontal portion 19 is turned downwardly to provide a depending flange portion 20 which is shaped to provide an outwardly extending rib 21 near the upper end thereof. The inner surface of the wall por-

tion 18, the horizontal portion 19, and the depending flange 20, provide a downwardly opening annular recess or chime 22 within which a suitable packing or sealing material 23 may be placed. As shown in Figure 2, the slip cover is applied to the body portion and the parts are so dimensioned that the bottom edge of the cover flange 20 will abut against the adjacent upper edge of the outer wrapping 11. The thickness of the wrapping 11 and the thickness of the flange 20 are substantially the same so as to provide a smooth and even outer surface around the abutting edges. The upper end of the body portion 10 will be positioned within the recess 22 so as to provide a friction seal to eliminate air. As a further seal, the packing material 23 engages the outer end of the body portion beneath the horizontal portion 19 on the cover.

The outer diameter of the rib 21 is substantially equal to the outer diameter of the bottom closure member 12 so that the assembled container can be conveniently rolled or otherwise manipulated to facilitate the application of a sealing strip or tape 24. This tape 24 is applied over the outer surface of the cover flange 20 and the adjacent outer surface of the wrapping 11 so as to seal the abutting edges therebetween. While the tape 24 provides an additional seal for the contents of the container, this tape also provides a means for indicating whether there has been any unauthorized tampering with the container. The tape must be broken before the slip cover can be removed so that there is provided a "tamper-proof" container.

In place of the sealing tape 24, it is desirable in some instances to apply an entire outer label 25 which extends over the outer wrapping 11 and also over the cover flange 20 below the rib 21. Such a label may also serve to seal the abutting edges between the wrapping 11 and the cover flange 20 and to provide a "tamper-proof" container and the bottom of the label is clinched by the inverted edge 16 on the flange 15 of the bottom

closure. Alternatively, as shown in Figure 4, the label 25 may be provided with perforations 26 in the region of the abutting edges between the cover flange and the wrapping 11. With this construction, any breaking of the label will indicate unauthorized opening of the container and these perforations 26 also serve to facilitate removal of the slip cover, when desired. In both forms of the invention, it will be seen that the sealing tape 24 and the label 25 are disposed immediately below the rib 21 in order to protect the same against tearing. The rib 21 also provides a grip for facilitating removal of the slip cover.

It is to be clearly understood that minor changes in the details of construction and arrangement of parts may be made without departing from the scope of the invention as set forth in the appended claim.

I claim:

20 A container comprising a cylindrical body of fibrous material, an outer wrapping around the body portion and terminating short of the upper end thereof, said wrapping extending all the way to the lower end of the body portion, a metal bottom end shaped to provide a channel to receive the lower end of the body wall and provide a flange extending along the outside of the body wall, the free edge of the flange being beaded and imbedded in the body wall, a metal slip cover having a channel adapted to receive the upper end of the body wall, and a depending flange abutting against the upper edge of the body wrapping, said flange being of substantially the same thickness as the wrapping and having a bead therein adjacent the upper end of said depending flange, said bead being of substantially the same diameter as the outer portion of the beaded end of the flange on the bottom end and a sealing strip overlying the abutted edge portions of the cover flange and the wrapping for securing the cover to said body for sealing said container.

JOHN HAYCOCK.