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CONTAINER LINING

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Fig. 1

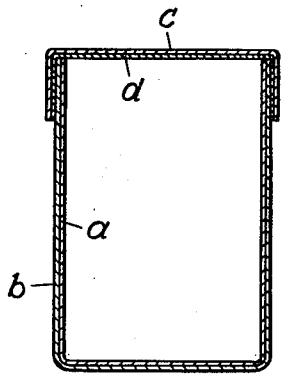
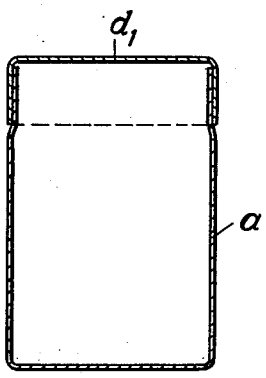


Fig. 2



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CONTAINER LINING

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4 Claims. (Cl. 220—65)

The present invention relates to improvements in linings for containers.

For shipping or storing certain materials or products, and especially food products, it is often necessary to pay the utmost attention to the possibility of corrosion of the container walls, particularly if the containers for reasons of simplicity or expense are made of sheet metal. The metal sheets have therefore often been coated, for example, galvanically, unless they consisted of expensive, non-corrosive materials which rendered the containers too high in price.

It is an object of the present invention to provide an inner container lining which is inexpensive, may be easily mass-produced, and affords an entirely safe protection so that the container itself may be made of inexpensive sheet metal.

Another object of the present invention is to provide an inner container lining of non-corrosive material which may be made in a proper shape so as to fit the container and to be inserted therein as a separate element or may first be inserted and then fitted within the container to assume the shape thereof.

Further objects, features, and advantages of the present invention will appear from the following detailed description when read in conjunction with the accompanying drawings, in which:

Fig. 1 shows a container with a liner according to the invention fitted therein; while

Fig. 2 shows the liner according to the invention as a separate unit.

Referring to the drawings, the liner *a* may be made of a shape identical with the container *b* and of a size so as to fit closely or snugly against the inner walls thereof, when inserted therein. The container *b* as shown in Fig. 1, may consist of any suitable base and inexpensive material, for example, sheet iron. The liner *a* may be either permanently fitted into the container *b* by being pressed tightly against the inner walls thereof, or it may constitute a removable insert. The cover *c* of the container, if required, may be provided with a similar liner *d* which may either be pressed into the cover *c* so as to adhere permanently to its inner walls, or the cover liner d_1, as shown in Fig. 2, may form a self-supporting element which may be placed on a similar liner element *a* independently of the container *b*, to be subsequently inserted therein, or the liner *a* may be fitted either permanently or removably into the container and then covered only by the cover liner d_1, over which a sheet metal cover *c* may then be fitted for added security, if required.

The liner according to the invention may be made of any non-corrosive material suitable for the particular purpose, such as, for example, cellulose or a material similar thereto, such as paper, cardboard, cellophane, or the like, or rubber, either natural or synthetic, or a rubberized or plastic material. The liner may also be composed of several materials or several layers of different materials, for example, of a paper or cellulose base which may be coated on one or both sides with rubber or other non-corrosive material. It may also consist entirely of or be coated with organic or inorganic materials, such as synthetic resins, vitreous or similar substances, provided they are sufficiently non-corrosive and may be molded or pressed into the shape suitable as a container lining. The liner may also be made, for example, of a metal foil which because of its low weight forms a relatively inexpensive liner even though the material itself may be of a more precious variety.

The liner or insert according to the invention only requires to be relatively stiff so as to retain its own shape. Since the pressure and other forces acting upon the inside of the liner will be taken up by the walls of the outer container, it may be very thin, and it is preferably made of a durable, wear-resistant material which may be easily cleaned.

Although my invention has been illustrated and described with reference to the preferred embodiment thereof I wish to have it understood that it is in no way limited to the details of such embodiment or to the specific examples described, but is capable of numerous modifications within the scope of the appended claims.

Having thus fully disclosed my invention, what I claim is:

1. A cup-shaped container having bottom and side walls for transporting food provided with an inner lining which may be used over and over again, said inner lining being insertable in said container and having a cup-shaped form imparted to it prior to its insertion in the container, the said form accurately conforming to that of the interior of said container, said inner lining upon insertion in said container snugly engaging the walls thereof and being readily removable from the container and retaining its cup shaped form upon such removal, said inner lining being made of a corrosion resistant material, said container being provided with a cover including an insertable inner lining made of corrosion resistant material and having a form which closely fits the interior of said cover, said form having been imparted to said last-named lining before insertion in said cover.

2. A container with inner lining according to claim 1, wherein said inner linings are made of cellulose material.

3. A container with inner lining according to claim 1, wherein said inner linings are made of a paper pulp.

4. A container with inner lining according to claim 1, wherein said inner linings are made of rubber.

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