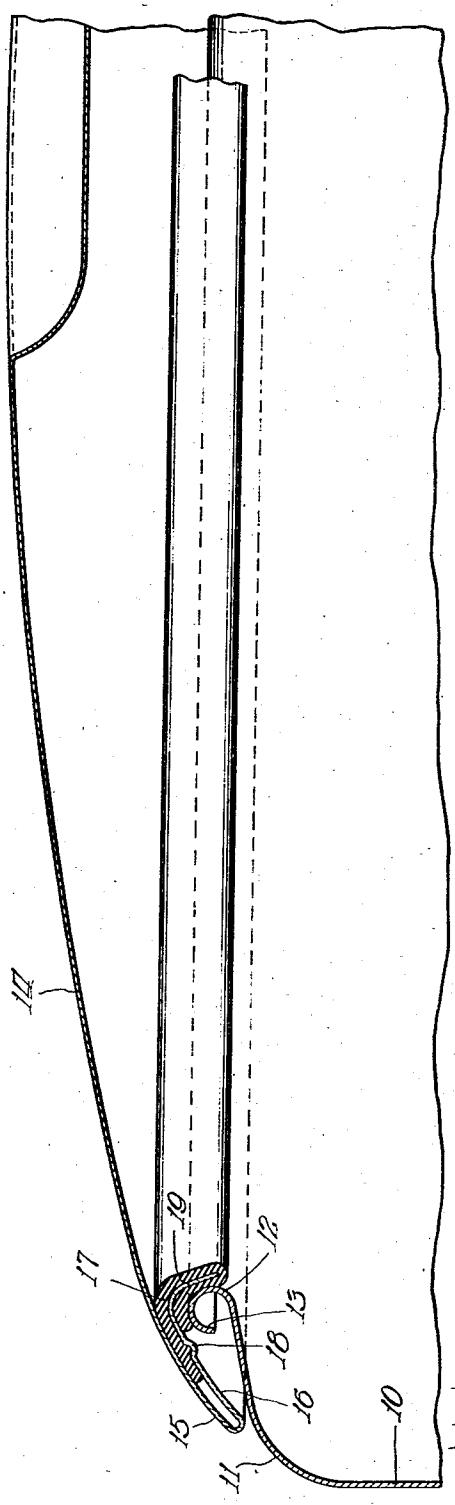
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RECEPTACLE COVER

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RECEPTACLE COVER

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2 Claims. (Cl. 220—46)

This invention relates to receptacles and particularly to covers therefor.

The object of this invention is an improved receptacle cover which is made from a single sheet of metal and which is provided with a reinforced edge.

A feature of the invention is a sealing means for the reinforced edge which prevents seepage of fluid between the sheet and the reinforcement at its edge.

Another feature is a reinforced edge for a receptacle cover which is sealed against seepage of fluid and which is designed to maintain the sealing means in place.

Still another feature is a reinforced edge for a receptacle cover which is provided with an improved seat for the receptacle.

Still another feature is a cover for a receptacle in which the edge of the cover extends below the seat of the cover to conceal the seat and to improve the appearance of the cover and receptacle.

These and other features and objects will become apparent from the following description when taken together with the accompanying drawing which forms a part thereof and which shows an elevation in section through the cover and receptacle.

In its preferred form, this invention comprises a cover which is made from a single sheet of metal. The edge of the cover is reinforced by folding it inward on the under side of the cover, and the seat for the opening of the receptacle is formed by bending the folded portion downward. Sealing means, such as rubber or the like, is inserted between the sheet and fold, and is extended around the downwardly projecting portion to cover the seat. The receptacle may be provided with a bottle-neck and the edge of the cover may be bent over the neck to conceal the latter and improve the appearance of the receptacle and cover.

Referring now to the drawing for a detailed description of the invention, 10 is a receptacle such as the body of a washing machine, kettle, boiler, etc., which may be fabricated from any suitable material and may have any desirable form. For purposes of illustration it is shown as being formed from sheet steel. It is provided with a rounded shoulder 11 and a neck 12, the edge 13 being rolled as shown to provide a seat for a cover.

The cover 14 is made from a single sheet of metal which may be dished as shown. The edge 15 is reinforced by folding sheet 14 back upon itself as at 16. It has been found that when receptacle 10 is used to contain fluid, and particularly condensable fluid, the fluid or condensate tends to seep between cover 14 and fold 16 and to accumulate in the space therebetween. Such fluid is removed only with difficulty and as a result remains there to decompose and give off a disagreeable odor, or to corrode the metal, or to contaminate the contents of receptacle 10.

According to this invention, seepage is prevented by inserting rubber 17 or the like between folds 16 and edge 15 and then compressing the rubber therebetween. It is understood that other materials may be used, the choice depending largely upon the nature of the fluid in the container, since the sealing means should not be readily attacked and disintegrated by the fluid in the container. To prevent rubber 17 from working loose, the space between edge 15 and fold 16 is made of irregular cross-section as by forming a bead 18 on fold 16. As shown, bead 18 is an external bead with respect to rubber 17, but it could likewise be made internal, that is, it could be made to reduce rather than increase the cross-section of rubber 17. Several such beads may be used if necessary.

To seat cover 14 on receptacle 10, edge 19 of fold 16 is bent away from cover 14 until it is substantially normal to a tangent to the surface of cover 14 at the bend. Since cover 14 is dished, this results in a conical surface which is ideal for seating purposes. To prevent direct metal to metal contact between edge 19 and rolled edge 13 of receptacle 10, with its attendant noise and unsatisfactory seal, rubber 17 may be continued around both sides of edge 19 to provide a sound-deadening and fluid-tight seal between seat 13 and edge 19 of cover 14. The rubber may be made to adhere to the various portions of cover 14 with which it is in contact, by means of suitable adhesives.

Since neck 12 of receptacle 10 is very short, it is possible to conceal the neck completely by the overhanging edge 15, which makes for a neat design. Furthermore, the contour of edge 15 can be made to blend with the contour of shoulder 11 of receptacle 10 to render the combination of cover and receptacle more unified or "streamlined" in appearance.

It is understood that the foregoing description is merely illustrative of a preferred form of the invention and that the scope of the invention, therefore, is not to be limited thereto but is to be determined by the appended claims.

We claim:

1. A receptacle having an opening, and a fluid-tight cover for said opening, said cover comprising a unitary metallic sheet having an inwardly and upwardly folded edge to reinforce the sheet thereat, said folded edge having a downwardly projecting flange by which the cover is centered on the receptacle, and sealing means between the inwardly folded edge and sheet for preventing the seepage of fluid therebetween and substantially surrounding said extending portion to form a seal between the cover and opening.

2. A receptacle having a bottle-neck opening, and a cover therefor, said cover comprising a unitary metallic sheet having an overhanging portion adapted to seal the bottle-neck opening of the receptacle, a reversely bent portion having a region projecting into the neck and constituting the means by which said cover is centered in the opening, and sealing means inserted between the reversely bent portion and the cover and extending substantially around the inwardly projecting region to form the contacting means between the cover and opening.

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