

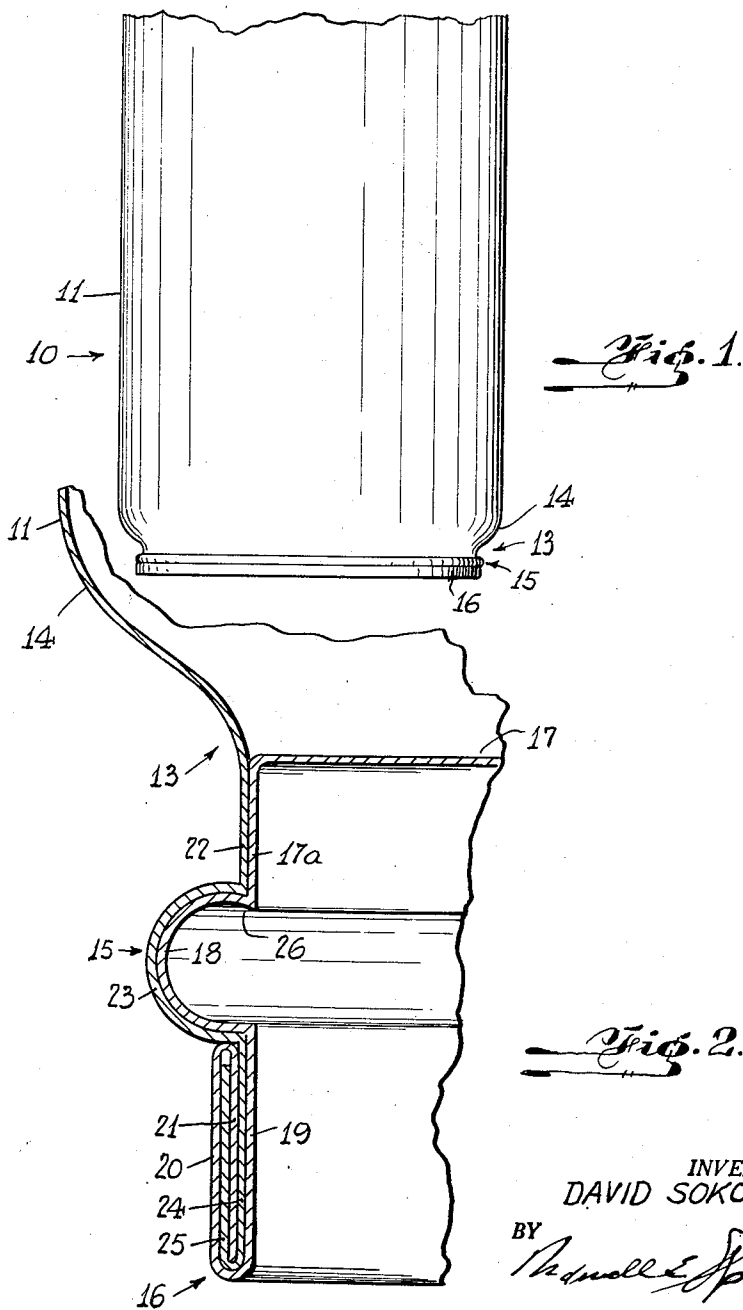
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CONTAINER END STRUCTURE

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CONTAINER END STRUCTURE

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2 Claims. (Cl. 220—67)

This invention relates to improvements in containers, receptacles and the like.

It is an object of the present invention to provide a container or receptacle which will withstand shocks particularly imparted to the ends thereof.

It is a further object of the invention to provide a container or receptacle with shock absorbing means which forms part of the container or receptacle.

Another object of the invention is to provide such shock absorbing means at or adjacent the seam-lock section of the container or receptacle.

A still further object of the invention is to form the shock absorbing means between the seam lock and the end wall of the container.

Yet another object of the invention is to construct such shock absorbing means from an extension of the body of the container and an extension of the end wall, the latter constituting the bottom or top of the container.

A further object of the invention is to make the shock absorbing means in the form of an annular arcuate rim or extension located between the bottom wall and the seam lock of the container.

Another object of the invention is to construct the shock absorbing means in such fashion that even if said arcuate rim gives or collapses, the bottom of the container will thus be further reinforced because of such giving or collapsing.

Still another object of the invention is to provide a container or receptacle which is practical and efficient for the purposes for which it has been designed and constructed and one which is of such simple elemental structure that it may be manufactured economically in quantity production.

Various further and more specific objects, features and advantages will clearly appear from the detailed description given below taken in connection with the accompanying drawing which forms a part of this specification and illustrates merely by way of example one embodiment of the device of the invention.

The invention consists in such novel features, arrangements and combination of parts as may be shown and described in connection with the container or receptacle herein disclosed by way of example only and as illustrative of a preferred embodiment.

In the following description and in the claims, parts will be identified by specific names for convenience, but such names are intended to be as generic in their application to similar parts as the art will permit. Like reference characters denote like parts in the figures of the drawing.

Referring now to the drawing:

Fig. 1 is a plan view of a container according to the invention, the top part being broken away; and

Fig. 2 is a sectional view of a bottom section of the container shown in Fig. 1, but drawn on a much larger scale.

Reference will now be made more particularly to the drawing in which the container or receptacle is generally indicated by the numeral 10. The container 10 has a

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substantially cylindrical or peripheral wall 11 which curves inwardly at its bottom as seen at 14 providing a reduced section indicated by the numeral 13.

The wall 11 continues at 13 to form a vertical portion 22, the deflection angle at 26, bulge or arcuate rim 23, the downwardly directed vertical flange 24 and the parallel spaced upwardly directed flange 25.

The bottom wall 17 continues downwardly forming the wall 17a parallel to and in contacting engagement with portion 22 of wall 11, the deflection angle at 26, bulge or arcuate rim 18 in contacting engagement with bulge 23, the downwardly directed flange 19 parallel to and in contacting engagement with flange 24, the parallel upwardly directed flange 20 parallel to and in contacting engagement with flange 25, and the downwardly directed flange 21 interposed between and in contacting engagement with flanges 19 and 25. Thus the continuing extensions of the body wall 11 and bottom 17 constitute respectively, the shock absorbing means indicated generally by the numeral 15, and the double seam-lock or chime generally indicated by the numeral 16.

It is evident that any reasonable pressure which is caused at the bottom section of the container which would tend to collapse it, would be absorbed by portion 15 of the container. If any excessive pressure is transmitted to the bottom section of the container and cause it to collapse, then because of the deflection angle 26, section 15 will fold or collapse inwardly, thus reinforcing or strengthening the bottom of the container, rather than weakening it.

A further advantage of the bulging portion 15 resides in the fact that, while, normally, if the bulging portion 15 was not provided, some or all of the flanges 19, 20, 21, 24 and 25 would buckle when abnormal pressure is applied to the container, but, by providing the bulging annular portion 15, it has been found in practice that this portion 15 acts as cushioning or shock absorbing means to prevent such buckling. The said flanges constitute a substantially solid mass which, in the event of abnormal pressure being applied to the container, will in relation to the portion 15, withstand buckling and cause strengthening and reinforcement of the bottom wall 17.

From the foregoing it is apparent that by this invention there has been provided a container or receptacle which will withstand pressure and shocks to a degree greater than that normally withstood by conventional containers of similar type and for similar purposes and that perchance, the bottom of the container does buckle or collapse, such condition will increase reinforcement thereat, and strengthen the bottom wall 17. The container can be made of any suitable material.

While the invention has been described with respect to a certain particular preferred example which gives satisfactory results, it will be understood by those skilled in the art after understanding the invention, that various changes and modifications may be made without departing from the spirit and scope of the invention and it is intended, therefore, in the appended claims to cover all such changes and modifications.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

1. A container comprising a vertically disposed cylindrical side wall, a horizontal bottom wall disposed within said side wall adjacent to and spaced above the lower end thereof, a depending peripheral wall on said bottom wall having its outer surface in face to face abutting engagement with the inner surface of said side wall, the portion of said depending wall adjacent to and spaced above the lower end thereof and the adjacent portion of said side wall being bent outwardly to form an annular bulge, said bulge being curved in cross-section to form an arc of greater than 180°, the lower end portion of said side and

depending walls being in locking engagement to provide a reinforcing seam.

2. A container comprising a vertically disposed cylindrical side wall, a horizontal bottom wall disposed within said side wall adjacent to and spaced above the lower end thereof, a depending peripheral wall on said bottom wall having its outer surface in face to face abutting engagement with the inner surface of said side wall, the portion of said depending wall adjacent to and spaced above the lower end thereof and the adjacent portion of said side wall being bent outwardly to form an annular bulge, said bulge being curved in cross-section to form an arc of greater than 180°, the lower portion of said side wall being bent upwardly into parallel spaced relation with respect to the adjacent portion of said side wall, the lower portion of said depending wall being bent upwardly and inwardly

to overlie and abut the upwardly bent portion of said side wall and extend into the space between said side wall and the upwardly bent portion thereof.

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