

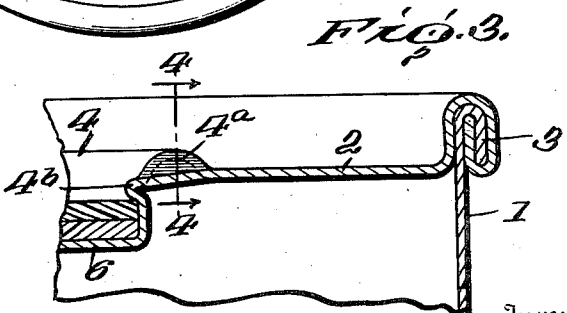
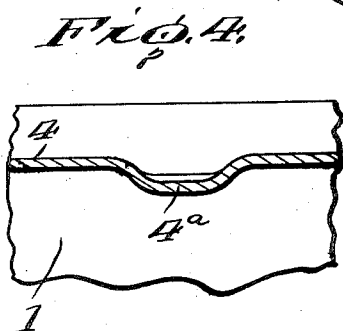
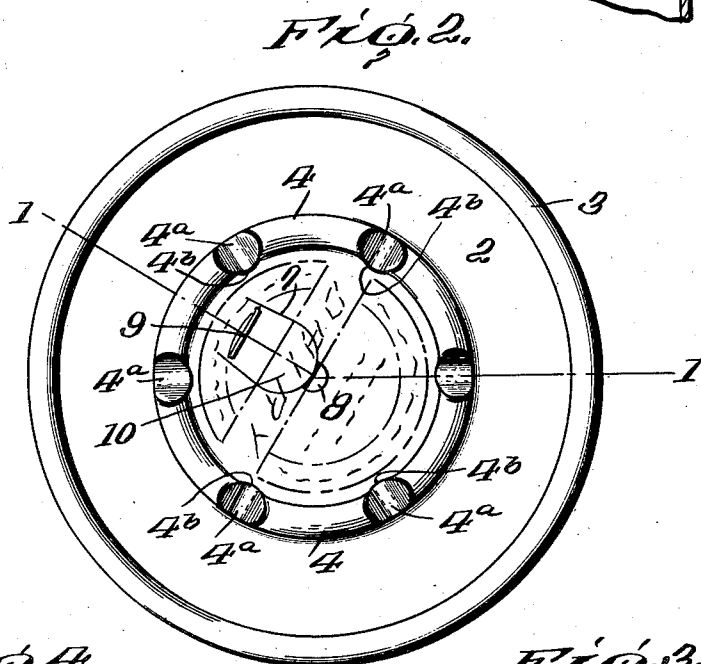
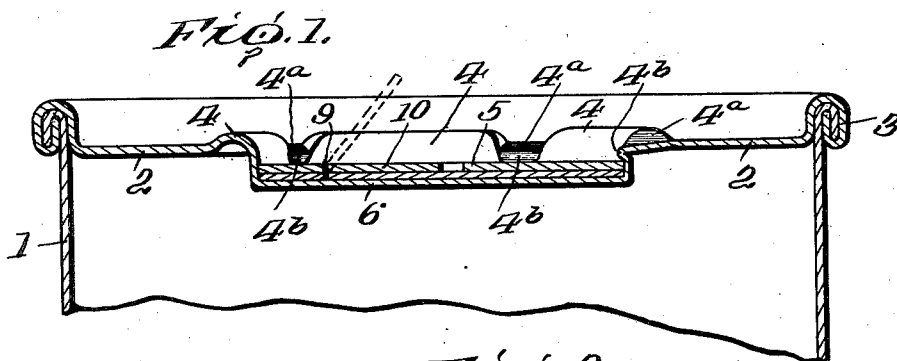
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2,184,039

SHEET METAL CONTAINER

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UNITED STATES PATENT OFFICE

2,184,039

SHEET METAL CONTAINER

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1 Claim. (Cl. 40—10)

The invention relates to new and useful improvements in sheet metal containers, and more particularly to a container which is provided with means for detachably securing articles thereto.

An object of the invention is to provide a sheet metal container having an end double-seamed thereto, with means for detachably holding a disk-shaped article.

A further object of the invention is to provide a sheet metal container of the above type wherein the article is attached to the outer face of the container end in the central region thereof and at a distance from the double-seam so as not to interfere with the double-seaming of the end to the container body.

These and other objects will in part be obvious and will in part be hereinafter more fully disclosed.

In the drawing—

Figure 1 is a sectional view through the upper portion of a sheet metal container embodying the improvement, the section being taken on the line 1—1 of Fig. 2;

Fig. 2 is a plan view of the same;

Fig. 3 is an enlarged sectional view of a portion of the container end at the right of the line 1—1 of Fig. 2, and

Fig. 4 is a sectional view on the line 4—4 of Fig. 3.

The container comprises a sheet metal body which is preferably cylindrical in shape. The body 1 is flanged in the usual way and the end 2 secured thereto by double-seaming as indicated at 3. The container end is likewise of sheet metal and is provided with a raised annular rib 4. The metal within the rib is depressed below the plane of the container end 2. This forms a depression in the container end which is located centrally of the end and spaced inwardly from the double-seam 3. In order to secure the container end to the container body by a double-seam it is necessary to form the end with a recess in which the chuck of the seaming head can be placed for the seaming operation. This annular rib 4 is spaced well away from the wall of the recess in the container end which receives the chuck and does not in any way interfere with the seaming operation.

Housed within the depression in the container end formed by the annular rib 4 is a fibrous display disk 5. The disk 5 lies flat against the bottom 6 of the depression. The disk is detachably held in the depression by deforming the annular rib at spaced intervals as indicated at 4a. This

may be done by any suitable type of instrument which bearing on the top of the rib will collapse it so as to form a lug which projects inwardly toward the center of the depression and presses against the edge of the disk 5 or slightly overlies the upper edge portion of said disk as indicated at 4b (Fig. 1). This fibrous disk is formed of layers which are secured together by cementing, and the upper layer is cut through along the line indicated at 7. There is a cutout space 8 in the upper layer at one side of this line of cutting indicated at 7. The line of cutting does not extend all the way around, and a metal staple 9 is inserted so as to form a hinge for this section which is within the cut line 7. This enables the section which is indicated at 10 to be lifted, turning on the hinge, to a vertical position where it serves as a tab for pulling the disk loose from the holding lugs.

This disk may be in the form of a booklet, if desired, containing recipes or other printed matter. It is preferred, however, to make it in the form of a solid disk, on the outer face of which may be placed any desired printed matter. The disk as shown and described is shaped and constructed very similar to the ordinary bottle cap, and it may be removed and returned by the customer to the distributor as a rebate check. While the disk is described as of fibrous material, it may be of any suitable material which will serve the purpose above described.

It is noted that this holding means for the disk is completely on the outer face of the container end and forms no part in the closing of the container. The container is made of sheet metal and the closure end is secured thereto by double-seaming in the usual way. The container may be opened by cutting the same in the customary manner. If desired, this end may be scored, either within the annular rib or adjacent the double-seam to facilitate the rupturing of the metal and the opening of the container. While the depression is shown as formed by a raised rib and the disk is held in place by deforming the rib to provide holding lugs, it will be understood that the housing means for the disk and the holding means may be varied without departing from the spirit of the invention. It is important, however, that the disk shall be positively held attached to the container and by a means which requires it to be forcibly detached from the container.

It will be noted that the disk is not only housed within the depression in the can end, but it is disposed well beneath the plane of the upper edge

of the double-seam so that the stacking of containers one on the other is not, in any way, interfered with, nor does such stacking disturb the holding means for securing the disk to the container.

Having thus described the invention, what we claim as new and desire to secure by Letters-Patent, is:

A sheet metal container comprising a body portion, an end seamed thereto, said end having a central depression formed therein spaced from the seam joining the end to the body portion, and having a vertical wall surrounding and de-

fining the same, said end having also a raised annular rib surrounding said depression with the inner edge portion thereof merging into said vertical wall, a fiber display disk disposed in said depression, said annular rib being deformed at spaced intervals so as to provide inwardly extending radial lugs, said display disk and said lugs being dimensioned and positioned so that the lugs will retain the disk in the depression, permitting the same to be forcibly removed therefrom.

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