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1,938,353

SHEET METAL PAIL

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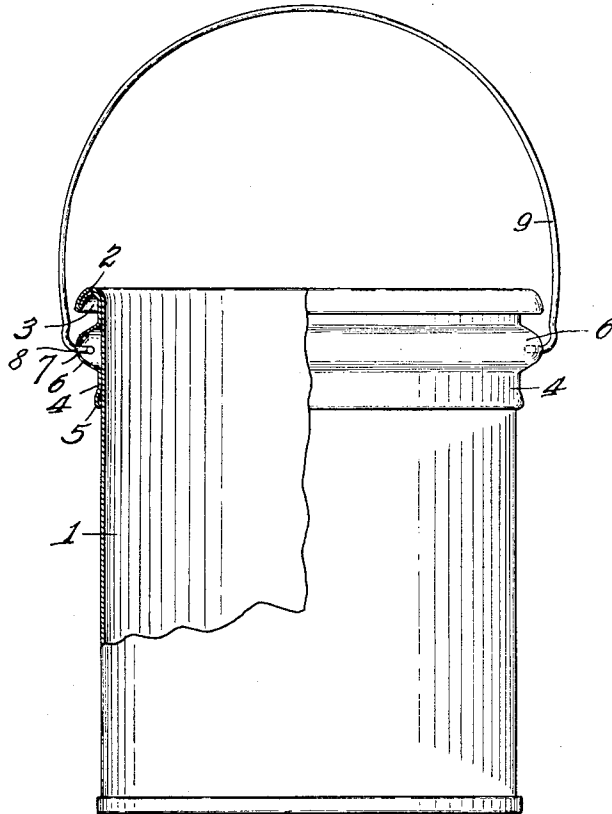


FIG 1

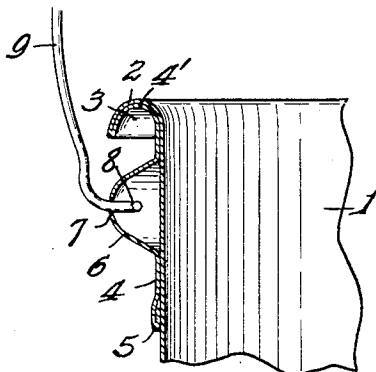


FIG 2

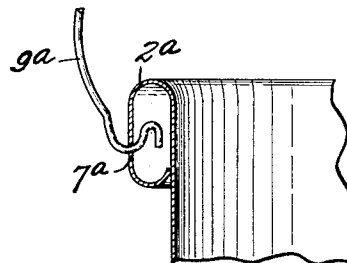


FIG 3

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1,938,353

SHEET METAL PAIL

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2 Claims. (Cl. 220—91)

This invention relates broadly to sheet metal containers, and more specifically to a can or pail of the character commonly employed as containers for paints and like materials.

5 The primary object of the invention is to provide a pail embodying a simple and improved means whereby the upper end of the pail body is stiffened and reinforced.

10 A further object is to provide reinforcing means for the upper ends of sheet metal pails which obviates the necessity for the use of the commonly employed stiffening bead or beads provided annularly in the bodies of pails and which, consequently, eliminates all deformity of the pail resulting from the provision of such bead or beads, leaving the interior of the pail perfectly plain and smooth.

15 A still further object is to provide pail reinforcing means which embodies therein novel and improved attaching means for the bail, the last mentioned means being wholly exterior to the pail body and not requiring that the latter be perforated, as for the reception of the usual ear-attaching rivets, thus precluding all possibility of leakage at or adjacent to the points of attachment of the bail.

In describing the invention in detail, reference is herein had to the accompanying drawing, in which—

20 Figure 1 is a view, partly in section and partly in side elevation, illustrating a pail embodying my invention;

Figure 2 is an enlarged detail section of the invention; and

25 Figure 3 is a similar section showing a modified form.

Referring, first, to Figs. 1 and 2 of said drawing, 1 designates the body of a sheet metal pail of the general type commonly employed as containers for paints and the like. The upper edge portion of said body is formed with an outwardly curled arcuate rim flange 2. While said rim flange may have other appropriate form, it is herein shown as approximately semi-cylindrical and presenting a downwardly facing channel 3 adapted for the reception of a therewith interlocking flange or other portion of a head or cover-like pail closure (not shown).

30 Disposed in closely seated embracing relation to the pail body 1 below said rim flange 2 is a collar-like band 4 of substantial width, as shown. Said band is preferably formed integrally with the pail body 1, the metal thereof being folded back upon the body prior to shaping of the latter—that it to say, while the metal of the body

remains in its flat sheet form. Thus, said band 4 includes a portion 4' which occupies closely seated underlying relation to and complements said rim flange 2. So disposed, said portion 4' reinforces said rim flange. Said band preferably has its lower terminal edge turned inwardly and upwardly upon itself to form a hem 5, as shown.

Formed annularly in the band 4 at a suitably spaced distance below the rim of the pail and preferably substantially midway between said rim and the hem 5 is an outwardly pressed bead 6 which, as herein shown, is so proportioned that it projects beyond the wall of the pail body a distance substantially corresponding to that of the rim, but which, obviously, may be made of any other appropriate proportions.

Manifestly, the band 4, if made perfectly plain and flat, would serve materially to strengthen or reinforce the pail body against collapse or distortion; however, with the bead 6 formed therein, a greatly increased reinforcing strength is afforded.

35 Provided in the bead 6 at diametrically opposite points are apertures or eyes 7 through which are directed the angularly disposed end portions, or hooks, 8 of a wire bail 9.

As is manifest, the band 4 with its strengthening, or stiffening, bead 6 effectively reinforces the pail at and adjacent to the rim without in any way altering the regular or uniform contour of the interior of the pail body. Thus is eliminated the necessity for the provision of the usual stiffening beads in the body of the pail, which is objectionable because the fluid, or semifluid, contents collects in the internal channel and its removal is attended with considerable difficulty.

40 Since the bail ends are attached directly to the bead 6, the necessity for attaching bail ears to the pail body is eliminated. Such ears are objectionable chiefly because the use of their attaching rivets requires that the pail body be provided with perforations for their reception and such perforations frequently constitute avenues through which leakage of contents of the pail occurs. Additionally, the attachment of the bail to the bead possesses the advantage that the bead cannot become detached, or torn off, as frequently happens in the case of use of the usual attached ears.

45 In the modification shown in Fig. 3, the body-embracing band is omitted and, instead of the upper end of the pail body being turned into rim-flange form, a vertically elongated rim-roll 2^a is formed about said upper end, thus to provide the requisite strength and rigidity. Said roll is

perforated to provide eyes 7^a for receiving the hook terminals of the bail 9^a.

What is claimed is—

1. As an article of manufacture, a receptacle
 - 5 having side walls defining an open upper end, the metal of the side walls being deflected outwardly, upwardly and downwardly to provide an upwardly arched seat surrounding the open end with the outer periphery of the seat freely spaced
 - 10 a substantial distance from the side walls, a reinforcing band formed integral with said periphery and underlying the seat in reinforcing relation thereto and thence extending downwardly along the side walls, said band having
 - 15 upper and lower spaced portions surrounding the side walls and in contact therewith and an outwardly directed intermediate portion projecting beyond the side walls a distance in a direction substantially perpendicular thereto not greater
 - 20 than the projection of the outer periphery of the seat, said intermediate portion being provided

with eyes for the reception of the hook terminals of a bail.

2. As an article of manufacture, a receptacle having side walls defining an open upper end, the metal of the side walls being deflected outwardly, upwardly and downwardly to provide an upwardly arched seat surrounding the open end with the outer periphery of the seat freely spaced a substantial distance from the side walls, a reinforcing band underlying the seat in reinforcing relation thereto and thence extending downwardly along the side walls, said band having upper and lower spaced portions surrounding the side walls and in contact therewith and an outwardly directed intermediate portion projecting beyond the side walls a distance in a direction substantially perpendicular thereto not greater than the projection of the outer periphery of the seat, said intermediate portion being provided with eyes for the reception of the hook terminals of a bail.
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CHARLES H. ROLLASON.

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