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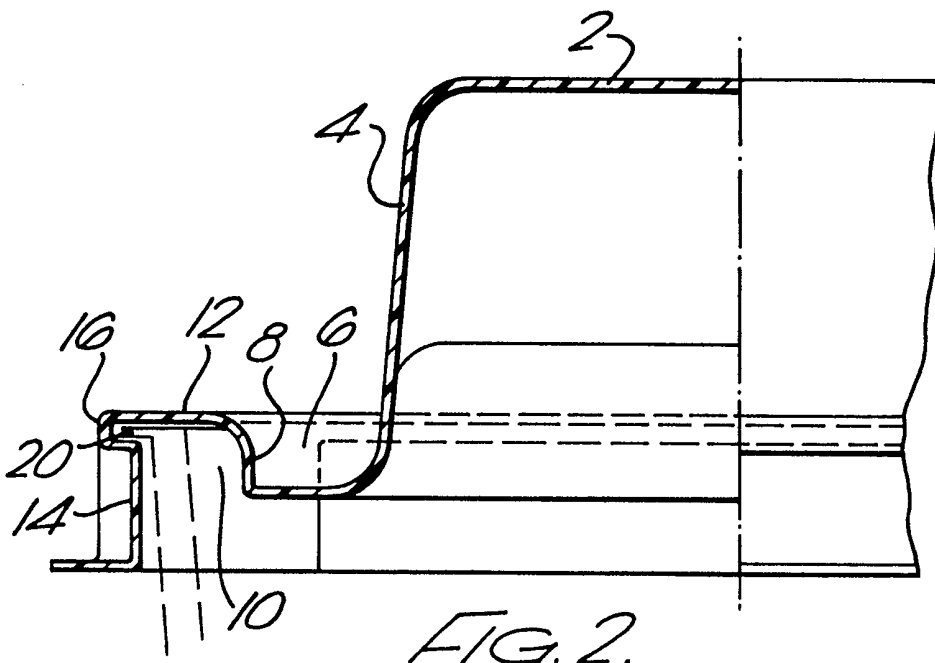
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GB 1299425 GB 1159199 US 3504823
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(58) Field of search
E1T
E1C
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B8T

(54) Covers for storage tanks and cisterns

(57) A cover for a storage tank, e.g. a domestic feed or expansion cistern, has a peripheral channel (10) which receives the rim of the tank, the peripheral channel (10) having a radially-outwardly-directed extension (16) for accommodating an outwardly-directed flange (20) formed on the rim of the tank.



GB 2 169 338 A

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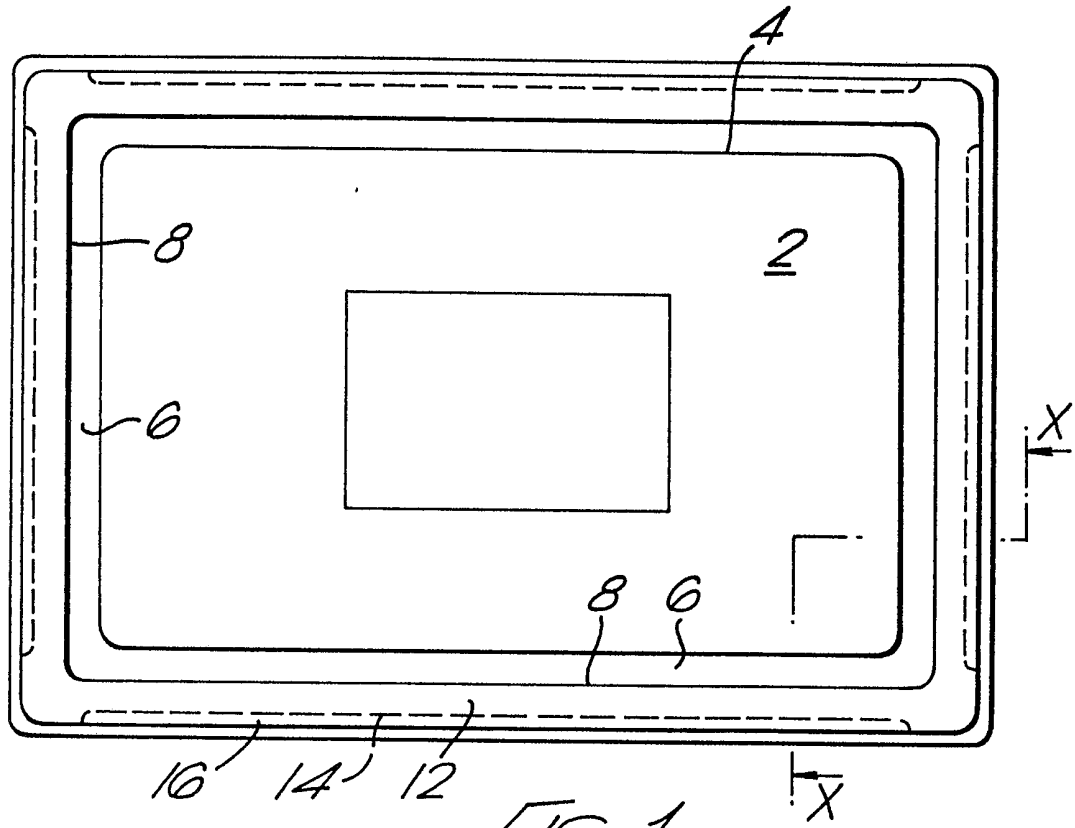


FIG. 1.

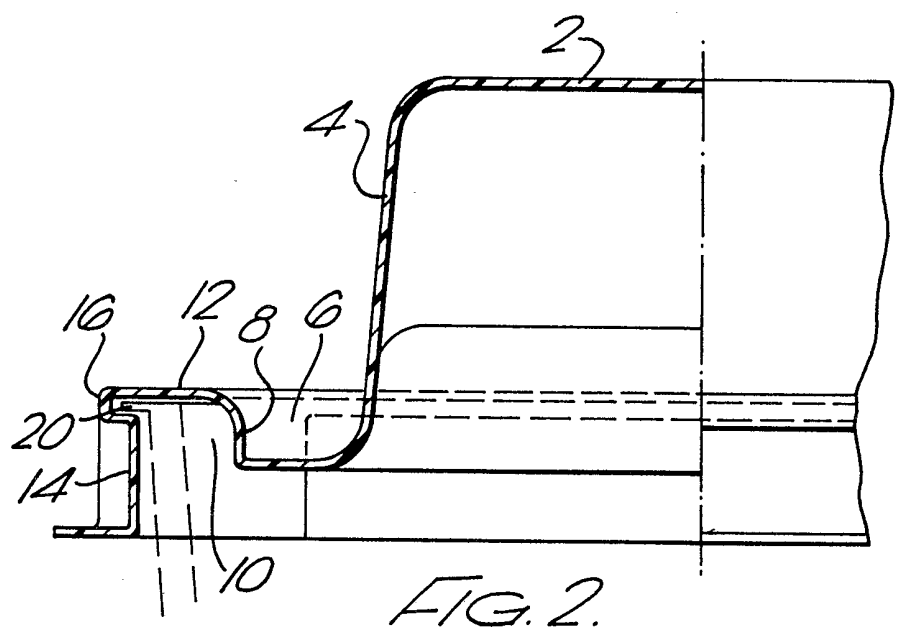


FIG. 2.

SPECIFICATION

Covers for storage tanks and cisterns

5 This invention relates to covers for storage tanks or cisterns, and is especially concerned with providing covers for domestic feed and expansion cisterns.

10 Domestic tanks and cisterns have long been made from galvornised iron, and more recently they have been made from rigid plastics materials such as polypropylene. Recent legisla-
 15 tion requires that all cisterns which are supplied to new installations must comply with drinking water standards, i.e. they must exclude all foreign bodies having a diameter greater than 0.6mm. It has therefore become necessary for domestic tanks and cisterns to be provided with a cover, and it is an object
 20 of the present invention to provide such a cover.

25 According to the invention a cover for a storage tank or cistern has a peripheral channel adapted to receive the rim of the tank or cistern, the peripheral channel having a radially-outwardly-directed extension for accom-
 30 modating an outwardly-directed flange formed on the said rim.

35 The cover is suitably made of a plastics material which has sufficient resilience for the cover to be able to "snap" over the rim of the tank or cistern and "lock" the outwardly-directed flange on the rim within the radially-outwardly-directed extension of the periphera-
 40 l channel.

45 The peripheral channel may extend around the entire periphery of the cover; when the cover is rectangular in plan, however, it is suitable for the channel to extend along the major proportion of each of the four sides.

An embodiment of the invention is illustrated in the accompanying drawings, in which:—

50 *Figure 1* is a plan of a cover for a storage tank or cistern; and

Figure 2 is a section on the line X-X of Fig. 1, with the rim of a cistern shown in dotted outline.

55 Referring to the drawings, the cover, suitably made of polypropylene or polyethylene, has a central portion 2 which may suitably be of flat, dished or domed shape, surrounded by side walls 4. Side walls 4 terminate at their lower ends in a peripheral
 60 groove 6, the other side of which, remote from wall 4, is formed by an upstanding wall 8 forming one side of a downwardly-facing peripheral channel 10. Channel 10 is completed by an upper wall 12 joined to a side wall 14 through a radially-outwardly-directed extension 16.

65 The cover shown in the drawings is suitable for fitting onto a rectangular cistern or tank of corresponding shape. The upper part of one wall of a tank is shown in dotted outline in

Fig. 2. The rim of the tank is provided with an outwardly-directed flange 20, which is accommodated in the extension 16 of the channel 10.

70 Application and removal of the cover are simple matters. To apply the cover to a tank, the cover is placed on top of the tank, so that the bottom of wall 14 rests on the flange 20. Downward pressure on the wall 12
 75 causes the flange 20 to flex downwardly, or the wall 14 to flex outwardly, or both, so that the wall 14 rides over the flange 20 and the flange 20 then "snaps" back into the radial extension 16. The cover is then securely at-
 80 tached to the tank.

To remove the cover, the wall 14 is flexed outwardly, until the top of the wall is clear of the flange 20, and the cover is lifted off the tank.

85 CLAIMS

90 1. A cover for a storage tank or cistern, the cover having a peripheral channel adapted to receive the rim of the tank or cistern, the peripheral channel having a radially-outwardly-directed extension for accommodating an out-
 95 wardly-directed flange formed on the said rim.

2. A cover as claimed in claim 1 substantially as described with reference to the draw-
 ings.

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