March 23, 1948. W. RELIS 2,438,299

INFANT'S FORMULA CAN AND CAN-OPENER AND NIPPLE ATTACHMENT

Filed July 1, 1946

Fig. 1

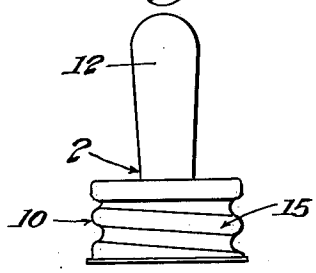


Fig. 3

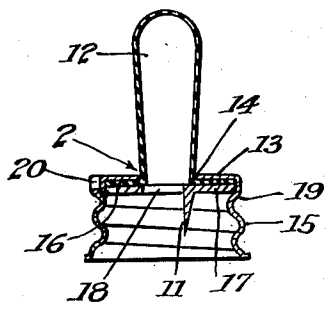


Fig. 2

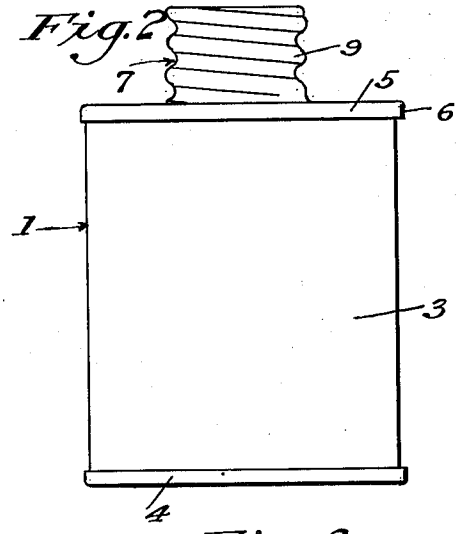


Fig. 4

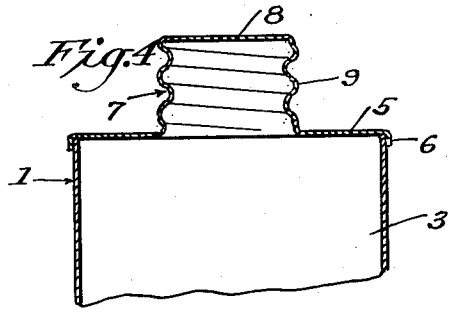


Fig. 5

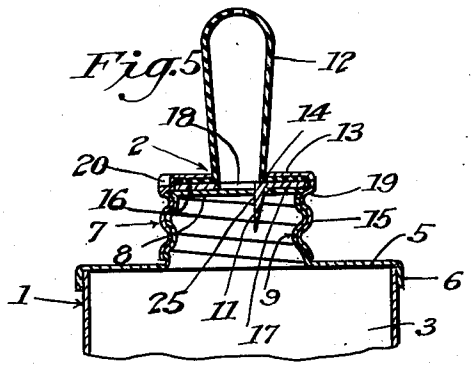


Fig. 6

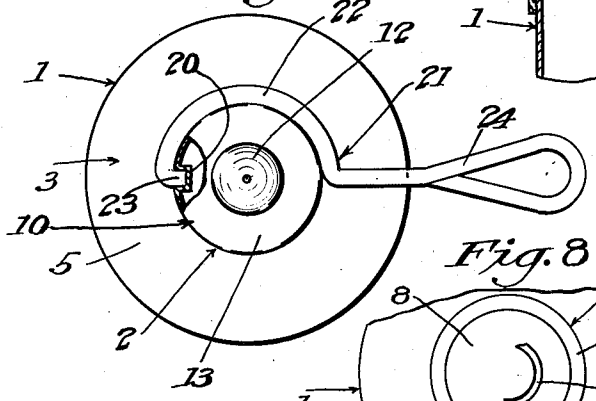


Fig. 7

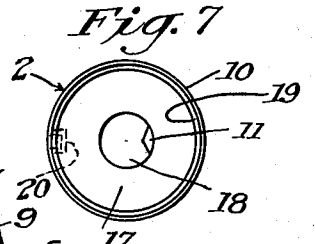
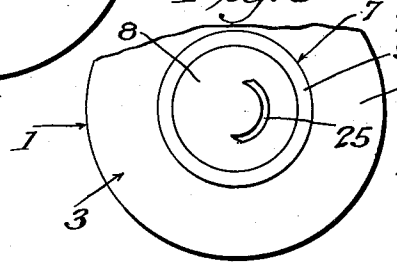


Fig. 8



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INFANT'S FORMULA CAN AND CAN OPENER AND NIPPLE ATTACHMENT

Walter Relis, Lomita, Calif.

Application July 1, 1946, Serial No. 680,819

1 Claim. (Cl. 215—11)

1

This invention relates to sealed cans for infants' formulae and a can opener and nipple attachment for such cans.

The general object of the invention is to provide sealed cans for infants' formulae and a can opener and nipple attachment for such cans, which attachment, when applied to any one of the cans will cut a small opening therein, through which opening the contents of the can may flow into the nipple for nursing an infant, without exposing said contents.

Other objects and advantages will appear hereinafter as this specification progresses.

The invention is illustrated in the annexed drawing which forms a part of this specification, and in which:

Fig. 1 is an elevation of the can opener and nipple attachment for the cans of my invention.

Fig. 2 is an elevation of one of the cans of my invention for containing the infants' formulae.

Fig. 3 is a vertical longitudinal section of my can opener and nipple attachment as shown in Fig. 1.

Fig. 4 is a fragmentary vertical longitudinal section of one of the cans of my invention as shown in Fig. 1.

Fig. 5 is a fragmentary vertical, longitudinal section of one of the cans and the can opener and nipple attachment of my invention shown attached to said can.

Fig. 6 is a plan view of my invention, showing a wrench applied to my can opener and nipple attachment for screwing said attachment on one of my cans containing an infant's formula.

Fig. 7 is a bottom plan view of my can opener and nipple attachment.

Fig. 8 is a plan view of the mouth of one of my cans, showing the top wall of said mouth with an opening cut therein by the blade of my can opener and nipple attachment, through which opening the infant's formula may flow from the can into the nipple when attached to the mouth of said can.

Referring more particularly to the drawing, in which corresponding parts are designated by the same reference numerals in all of the figures, my invention includes primarily a plurality of cans 1, for containing infants' formulae, and a can-opener and nipple attachment 2 for any one of said cans.

Each of the cans 1 comprises a body 3, a bottom head 4 closing the lower end of said body, and a top head 5 formed with a depending edge flange 6 sealed over the upper end of said body

2

and closing the top of the can. From the top head 5 a short cylindrical spout 7 is stamped outwardly with its outer end formed with and closed by an outer end wall 8. The cylindrical wall of said spout 7 is corrugated spirally in the form of a screw thread 9.

The can opener and nipple attachment 2 comprises a cylindrical metal cap 10, a can opener blade 11 in said cap, and a rubber nipple 12 extending outwardly and upwardly from the outer end of said cap. The cap 10 is formed with an upper end wall 13 provided with a control opening 14 through which the nipple 12 extends, and the cylindrical wall of said cap is spirally corrugated in the form of a screw thread 15 to fit over and screw on the thread 9 of the spout 7 of the can 1. The nipple 12 is formed with an external base flange 16 which extends under the end wall 13 of the cap 7, and the can opener blade 11 depends from a metal disc 17 at the edge of a central opening 18 formed in said disc, which is crimped in the upper end of the cap 10 against the lower side of the nipple flange 13 by an annular crimp 19 in the upper end of the cylindrical wall of the cap 10, whereby the nipple flange is clamped in the upper end of the cap between the top wall 13 of said cap and said disc 17.

The cap 10 is formed with a socket 20 in its side wall to receive a wrench 21, which comprises an arcuate jaw 22 with its outer end 23 bent inwardly and a handle 24 formed on said jaw. The wrench 21 is applied to the cap 10 with the end 23 of its jaw extending into the cap socket 20 and its jaw 22 engaging the periphery of said cap. By means of the handle 24 power may be applied to the cap 10 to turn it to screw the cap on the threaded spout 7 of a can 1 to cause the blade 11 to cut an opening in the top of the cap, or to unscrew the cap from said spout.

The operation of my invention is as follows:

Each can 1 is filled with an infant's formula before the head 5 is placed on the top of the can, and when so filled the head 5 is placed on the top of the can with its depending edge flange 6 fitted over the upper edge of the body 3 of the can and sealed thereon.

The can opener and nipple attachment 2 is placed over the top of the spout 7 of a can 1 with the thread 15 of the cap 10 engaging the thread 9 of the spout 7 of said can, and said cap is screwed on said spout until the blade 11 in said cap cuts an opening 25 in the top wall 8 of the spout 7, which opening communicates through the opening 18 in the disc 17 with the nipple for

delivery of the liquid in the can 1 into said nipple for withdrawal by an infant.

If the cap 10 should be hard to turn in screwing the same on the threaded spout 7 to cause the blade 11 to cut the opening 25 in the top wall 8 of said spout, the wrench 21 may be applied to the cap by inserting the jaw end 23 of the wrench into the socket 20 in the cap 10 and first bringing the arcuate jaw 22 against the periphery of said cap, and then upon grasping the wrench handle 24, applying power through said wrench to said cap and easily turning the cap 10 with the wrench 21.

I claim:

In combination, a can containing a liquid, which can is formed with a threaded spout closed by an end wall, a can opener and nipple attachment formed with a threaded cap, a blade and a nipple, which cap is screwed on said threaded spout to cause said blade to cut an opening in said spout end wall, through which opening the liquid may flow from said spout into said nipple, said cap being provided with an opening in its top wall through which opening extends the inner

end of said nipple, which end of said nipple is formed with an external flange extending under said top wall of said cap, and a blade disc provided with an opening therein, on which disc the can opener blade is formed at the edge of said disc opening, said cap being crimped under said blade disc for securing said blade disc in said cap, and clamping said nipple flange between said disc and the top wall of said cap, for securing the inner end of said nipple in said opening in said top wall of said cap.

WALTER RELIS.

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