Dec. 20, 1927. 1,653,284

J. M. HOTHERSALL

OIL CAN

Original Filed May 22, 1920

Fig. 1

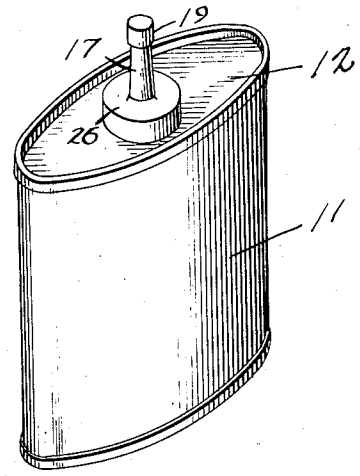


Fig. 2

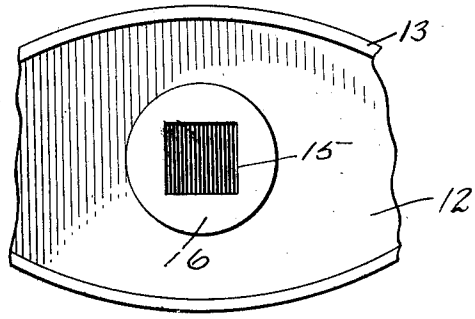


Fig. 4

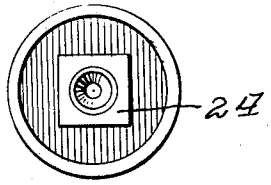
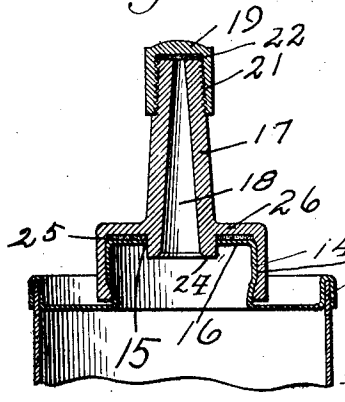


Fig. 3



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UNITED STATES PATENT OFFICE.

JOHN M. HOTHERSALL, OF BROOKLYN, NEW YORK, ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

OIL CAN.

Application filed May 22, 1920, Serial No. 383,494. Renewed March 5, 1927.

This invention relates in general to cans provided with pouring nozzles and while the invention has more particular reference to cans provided with a nozzle of lead or lead composition it will be apparent that it has valuable use in cans provided with other and different nozzles.

A principal object of this invention is the provision of a can and a nozzle therefor so connected together that the manipulation of a screw cap with which such nozzles are frequently provided will not tend to loosen the connection between the nozzle and can body.

Another highly important object of this invention is the provision of a can and nozzle therefor so connected together as to insure a liquid tight closure between them.

Nozzles of the character described are usually of some molded or cast material and have a cylindrical recess in the base in which a neck or nozzle portion of the can is tightly formed. Thus constructed the friction between the can neck or nozzle and the lead nozzle has been relied upon to hold the parts together against leakage and to withstand the strains of positioning and removing the screw nozzle cap. Not infrequently these strains have been sufficient to break this frictional engagement and destroy the sealing contact. My invention contemplates the provision of positive means for taking up these strains and relieving the non-leaking contact between the surfaces of them.

Other objects and advantages of the invention will be apparent from the following description which when considered in connection with the accompanying drawing illustrates only a preferred embodiment thereof.

On the drawing:

Figure 1 is a perspective view of a can embodying my invention;

Fig. 2 is a partial top plan view of a can body embodying my invention;

Fig. 3 is a partial sectional view of a can embodying my invention showing the nozzle secured in place; and,

Fig. 4 is a bottom plan view of a nozzle embodying my invention.

For the purpose of illustrating my invention I have shown on the drawing a can body 11 having a top 12 secured thereto, as indicated at 13, the body construction however being of any desired form, shape or material. The top 12 is provided with an upstanding nozzle or neck part 14 of cylindrical form. This nozzle or neck portion is provided with an opening 15 in its otherwise imperforate top 16 the opening 15 being shown as square in shape in the present instance. The nozzle proper or spout of lead, lead composition or other molded material is indicated at 17 and is provided with the usual tapering bore 18 adapted to be closed by a cap 19 having screw threaded engagement at 21 with the nozzle and provided preferably with a non-leaking packing gasket 22. At the base or body 26 the nozzle proper is provided with a recess within a flange 23 to receive the neck or nozzle part 14 of the can end and this nozzle part 14 is undercut as seen in Fig. 3. The neck is inserted in the recess and the flange 23 of said body 26 is forced and bent in by suitable pressure dies to form a tight frictional engagement with the neck. The nozzle has also, as may be seen from viewing Fig. 4 which is a bottom plan view thereof, a downwardly protruding part 24, square in section, and adapted to fit within the opening 15. A gasket 25 is preferably provided between the top 16 of the can nozzle part 14 and the body 26 of the nozzle.

Thus constructed the nozzle and can have a positive inter-locking engagement against relative rotation at the opening 15 and by reason of this engagement the frictional contact between the metal of the part 14 and the metal of the nozzle body is relieved from the strain of screwing on and screwing off the cap 19.

It is thought that the invention and many of its attendant advantages will be better understood from the foregoing description and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A can and nozzle therefor, said can having a part overhanging the body of the can and said nozzle having a portion embracing said part of the can and a portion inserted through the part of the can which is embraced, one of said portions of the nozzle being bent under said part of the can.

2. A can and nozzle therefor, said nozzle having a portion embracing a part of the can and having also a tubular portion inserted through an aperture in that portion of the can which is embraced, the said inserted portion and the said aperture being non-circular.

3. The combination of a can body having a neck provided with a top formed with a non-circular orifice, said neck having its upper part of greater exterior diameter than its lower part, and a spout having its lower end shaped to fit within said orifice and having above said lower end a flange which encloses said neck of the body, the lower part of said flange being bent slightly under the said upper part of said neck, whereby the spout is held from rotation and fixed on said neck, and a rotary cap for the outer end of the spout.

4. The combination of a can body having a neck provided with a top formed with a non-circular orifice, said neck having its upper part of greater exterior diameter than its lower part, and a spout having its lower end shaped to fit within said orifice and having above said lower end a flange which encloses said neck of the body, the lower part of said flange being bent slightly under the said upper part of said neck, whereby the spout is held from rotation and fixed on said neck.

5. The combination of a can body having a neck provided with a top formed with an orifice, said neck having its upper part of greater exterior diameter than its lower part, and a spout having its lower end shaped to fit within said orifice and having above said lower end a flange which encloses said neck of the body, the can and spout having mutually engaged faces of non-circular contour, the lower part of said flange being of soft metal and bent slightly under the said upper part of said neck, whereby the spout is held from rotation and fixed on said neck, and a gasket encircling said lower end of the spout and clamped between said top of the neck and said flange of the nozzle.

6. A can and nozzle therefor, said nozzle having a part embracing a portion of the can and a part inserted through an opening therein, said part inserted through said opening being of non-circular contour and preventing relative movement between the can and nozzle.

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