

Oct. 9, 1928.

1,687,316

C. H. ROLLASON

Pouring Spout for Containers

Filed July 20, 1927

FIG 1

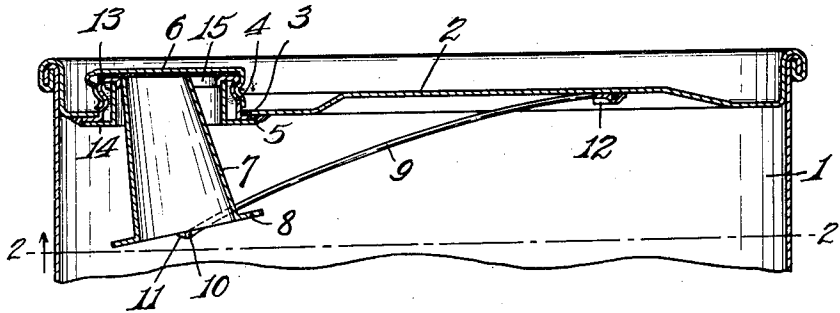


FIG 2

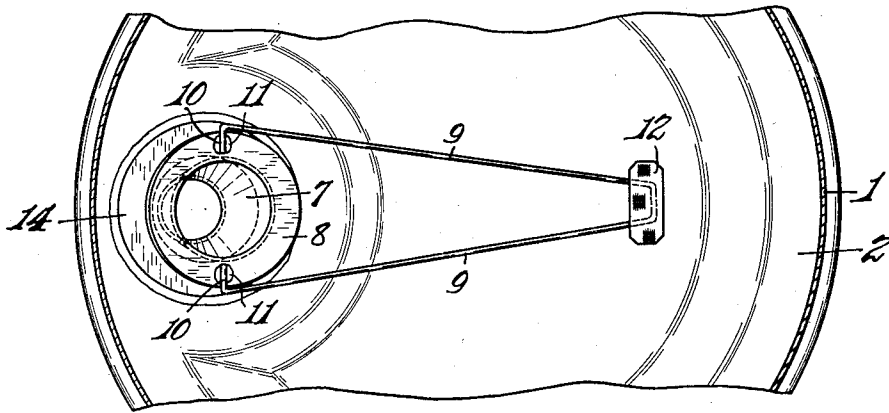


FIG 3

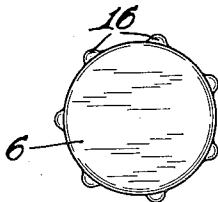
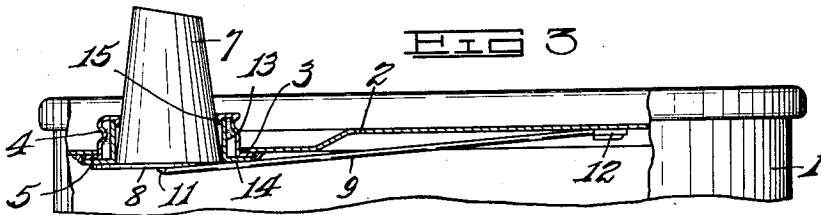


FIG 4

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POURING SPOUT FOR CONTAINERS.

Application filed July 20, 1927. Serial No. 207,242.

This invention relates broadly to sheet metal drums or containers, and more specifically to a pouring spout for such containers.

5 The primary object of the invention is to provide a simple, inexpensive and convenient form of pouring spout for fluid containers or drums of that type which embodies an end having therein an opening with a removable cap-like closure.

A further object is to provide a pouring spout which, when the closure occupies closing position, is disposed in an out-of-the-way position, and which, when the closure is removed, automatically assumes pouring position.

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

20 Figure 1 is a central vertical section of the head end of a sheet metal drum equipped with my invention;

Figure 2 is a sectional elevation of the same, the section being taken on line 2—2, Fig. 1;

25 Figure 3 is a view similar to Fig. 1, showing the spout in pouring position; and—

Figure 4 is a top plan view of the closure.

Referring to said drawings, 1 designates the body, and 2 the head of a drum of an ordinary sheet metal construction or type.

Rigidly carried by the head 2 and projecting outwardly through a circular opening 3 provided in said head is a sheet metal ring 4, an annular bottom flange 5 formed on said ring being secured, as by soldering or brazing, in closely seated underlying relation to the portion of the head adjacent to said opening. Said ring has exterior screw threads pressed therein, adapting it for the reception of a similarly threaded cap-like closure 6 which is readily removable to permit introduction or removal of the contents of the drum.

30 Occupying underlying seated relation to the under face of the closure 6 when the latter is threaded upon the ring 4, is the outer end of a spout 7 which is yieldingly supported within the body portion of the drum and which, upon removal of said closure, is automatically projected through the interior of the ring to a position wherein it may be utilized for pouring the liquid contents of the drum. Said spout, which is preferably of

truncated cone form, as shown, is provided with a circular base flange 8, or an equivalent part, which, in the pouring position of the spout, occupies closely seated underlying relation to the head 2, or to a part interposed between said flange 8 and said head.

60 The pouring spout 7 is carried by a resilient support which is suitably mounted on the under side of the head 2 of the drum. In the embodiment herein disclosed, the spout support comprises a length of resilient wire bent into approximately U-form, the substantially parallel arms 9 thereof having angularly disposed terminals 10 to which are rigidly attached, as by solder 11, diametrically opposite portions of the base flange 8 of the spout. The loop end portion of said wire support is rigidly mounted upon the under side of the drum head 2 at a suitable point, a small plate 12, shaped to conformably fit upon said loop end, being herein shown attached to the head, as by spot welding, and occupying supporting relation to the interposed loop end.

To provide increased rigidity for the neck-like ring 4, a second ring 13 may be fitted interiorly of the latter, said second ring having an annular bottom flange 14 soldered in underlying seated relation to the flange 5, as shown. The upper end of the ring 4 is turned inwardly into overlying seated relation to the corresponding end of the reinforcing ring 13 and has a downwardly turned short terminal flange 15 seated interiorly of the latter.

35 The cap 6 is preferably formed with a series of outwardly pressed knobs or projections 16, as shown in Fig. 4, for facilitating its application and removal.

In practice, the threaded-on closure 6 holds the pouring spout 7 depressed in the position shown in Figs. 1 and 2, wherein it is wholly enclosed within the drum. Upon removal of the closure, the spring support which carries said spout instantly elevates said spout to its seated position shown in Fig. 3.

What is claimed is—

1. The combination with a container having a head provided with an opening which has permanently mounted therein a threaded neck, and a closure adapted to be removably mounted on said neck, of a pouring spout located interiorly of the container, and a yieldable one-piece support of approximately U-

- form upon which said spout is carried, said support being fixed to the underside of the container head at a point remote from said opening and being adapted, upon removal of
5 said closure, to project said spout through said neck to pouring position and to permit depression of said spout within said container effected by the application of said closure.
- 10 2. The combination with a container having a head provided with an opening which has permanently mounted therein a threaded neck, and a closure adapted to be removably mounted on said neck, of a pouring spout located interiorly of the container, and adapted to be moved to and from a position in which it projects through said neck to pouring position, and means tending to actuate
15 said spout to assume pouring position within said neck upon removal of said closure, 20 said means comprising a resilient wire support which is rigidly attached to the underside of the container head and being adapted to yield to pressure applied to the outer end of said spout for permitting inward movement of the latter.
- In testimony whereof, I affix my signature.
CHARLES H. ROLLASON.