

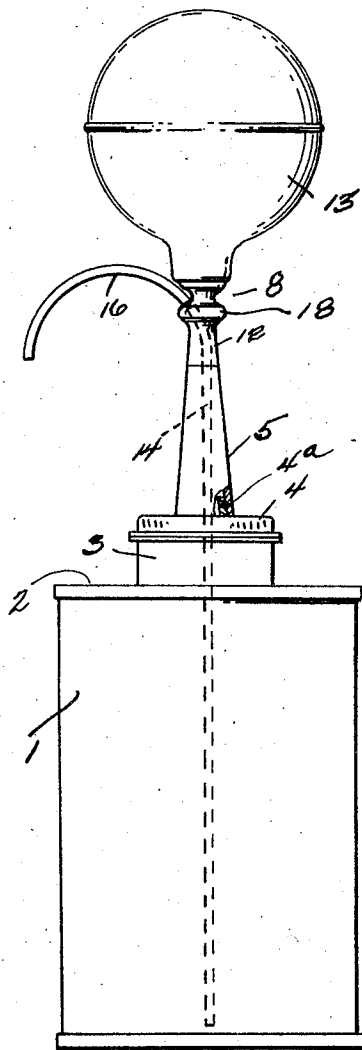
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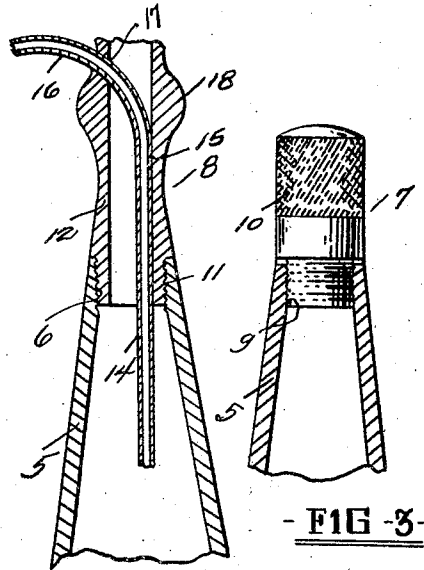
A. E. KUNZL

DISPENSING CONTAINER

Filed Feb. 16, 1928

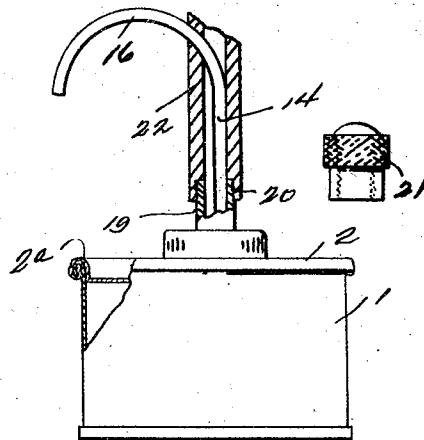


- FIG. 1 -

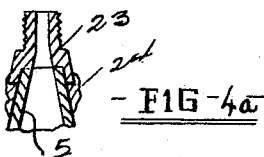


- FIG. 2 -

- FIG. 3 -



- FIG. 4 -



- FIG. 4a -

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UNITED STATES PATENT OFFICE.

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DISPENSING CONTAINER.

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My present invention, in its broad aspect, has reference to improvements in containers and dispensing means therefor, whereby the combustible fluid used in cigar and cigarette lighters may be put-up, stored, shipped and preserved by the user, and handily dispensed from the container directly into the cigar and cigarette lighter without danger of spilling the fluid, or igniting it, or soiling the hands or clothes. More particularly it is my purpose to provide a container having a unique dispensing nozzle; the cap therefore being interchangeable with the dispensing device and which container and dispensing device presents a pleasing appearance. My dispensing attachment is simple in construction and is designed for continued and long use in conjunction with a number of containers which are replaced as the fluid is used up, and since the dispensing attachment is ordinarily given away with an initial purchase or sold for a relatively small sum its design is such that it may be manufactured in quantities at a relatively small cost. Furthermore, there is nothing about my dispensing device to become out-of-order or broken, or to become clogged up or inoperative through continued use, and it is especially adapted for use with cigar lighter fluid since it will accurately direct a relatively small stream of fluid into a small opening such as is found in the filling opening of a cigar lighter; it also is so constructed that it prevents evaporation of the lighter fluid.

My container, on the other hand is of the type ordinarily employed with fluid having a low flash point, i. e. it is of metal and is sealed. The nozzle thereof is relatively small, and is carried by the filling cap; so that the container has the filling cap, and the nozzle on the cap, and the nozzle is provided with an adapter so that a cap may be used to close and seal it, and my dispenser mounted thereon.

Other and equally important objects and advantages of my invention will become apparent as the description proceeds, but while I have in the present instance defined for the sake of illustration a certain specific form of my dispensing container, it will be understood that I do not desire to limit myself except as may be indicated by the scope of the claim appended hereto and forming a part of this specification.

In the drawings, wherein I have illustrated

the preferred embodiment of my invention;—

Figure 1 is an assembly view thereof,

Figure 2 is an enlarged detail view of the nozzle and dispensing attachment applied thereto,

Figure 3 is an enlarged detail view of the nozzle with the cap applied thereon, and

Figure 4 is a view, partly broken away, of a modified form of my invention especially designed for small containers. Figure 4^A is a modified nozzle connection.

In the drawings wherein like characters of reference are used throughout the several views to designate like or similar parts:—

The numeral (1) designates my container which is formed of metal and is sealed so that cigar lighter fluid which has a relatively low flash point may be stored therein. The container (1) has a top (2) with a cylindrical mouth (3) for filling the same and a cover (4) which carries the long, tapered nozzle (5). The mouth of the nozzle (5) is interiorly screwthreaded as at (6) to receive either a cap (7) or a dispensing attachment (8). The cap (7) has a screwthreaded portion (9) and a knurled portion (10). The dispensing attachment, which may be used with the nozzle in place of the cap, has a screwthreaded portion (11) and a hollow shank (12) upon the upper end of which is carried the bulb (13) to build up a head of pressure in the container. In the hollow portion of the shank (12) is carried a tube (14) which extends almost to the bottom of the container as shown in dotted lines in Figure 1, and the tube is braised, soldered or otherwise attached to the inner wall (15) of the shank as shown in Figure 2. The upper portion of the tube (14) is bent out and down as shown at (16) and extends through an opening (17) in the shank above the enlargement (18) thereof. Accordingly it will be seen that the enlargement (18) reinforces the opening (17) in the shank and provides, as well, a finger grip. The top (2) of the container (1)—see Figure 4—is formed with a rim 2^a therearound so that any fluid dropping upon the top of the can will evaporate and will not spill upon a table top or the like. The member (5), or nozzle, may be screwthreadedly engaged with a nipple (4^a) of the cover (4), as shown in Figure 1, or it may be welded thereon. In operation the tube 14 is sealed when not in use by condensation of the fluid therein.

When it is desired to dispense fluid from the container (1) the cap (7) is removed and the dispensing attachment (8) mounted on the nozzle; the bulb (13) is then squeezed to
5 build up a head of pressure in the container which causes the fluid to rise in and be dispensed from the thin walled tube (14); the mouth or bent portion (or curved portion) of the tube being inserted in the filling opening of a cigar lighter. This operation is completed from time to time until the can is empty, in which case it is replaced by a new can.

The small container shown in Figure 4 is slightly different in construction since the nozzle (19) thereof is shortened and exteriorly screwthreaded as at (20) to receive an interiorly screwthreaded cap (21) or the dispensing attachment (22) which is similar, except for its means of attachment to the nozzle,
20 and to the dispensing attachment (8). In order to adapt the relatively long tube (14) usually sold with the type of dispensing can shown in Figure 1, to the relatively shallow dispensing can shown in Figure 4, it is simply clipped off to the proper length with a pair of scissors. In Figure 4^A a modified form of cap attachment is shown for the large can shown in Figure 1, and in this case I pro-

vide a brass exteriorly threaded nipple (23) 30 which is soldered as at (24) to the mouth of the nozzle; upon this nipple the cap or dispensing attachment may be applied.

While in the foregoing there has been illustrated and described such combination and
35 arrangement of elements as constitute the preferred embodiments of my dispensing attachment, it is nevertheless desired to emphasize the fact that interpretation should only be conclusive when made in the light of 40 the subjoined claim.

I claim:—

A dispensing container having a nozzle, said nozzle being provided with one element of a detachable connection at its mouth, a dispensing attachment having a hollow shank
45 provided with an element of a detachable connection engageable with the said element on the nozzle, a thin walled tube in the shank extending through the nozzle to a point adjacent 50 the bottom of the container, said tube having a bent portion extending without the shank, a compressible bulb, and the upper end of said shank having an integral part to which said bulb is directly attached.

In testimony whereof, I affix my signature hereunto.

A. EDW. KUNZL.