J. A. Bostwick,

Oil Can Nozzle.

No. 113,137. Patented Mar. 28, 1871.

FIG: 1.

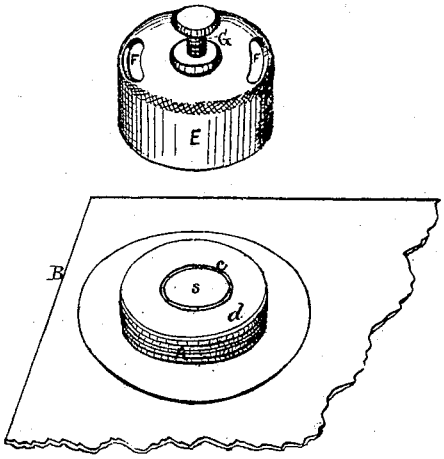


FIG: 2.

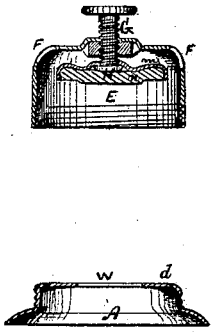
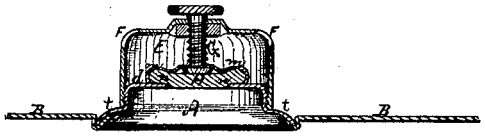


FIG: 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JABEZ A. BOSTWICK, OF NEW YORK, N. Y.

IMPROVEMENT IN NOZZLES FOR OIL-CANS.

Specification forming part of Letters Patent No. **113,137**, dated March 28, 1871.

I, JABEZ A. BOSTWICK, of the city, county, and State of New York, have invented an Improved Nozzle and Valve Cap or Tap for Oil-Cans and other Vessels, of which the following is a specification:

Nature and Objects of the Invention.

My invention relates to the formation of one or more discharge-apertures in an ordinary cap for the nozzle of an oil-can, and to the combination therewith of a valve, which may be made to bear upon a flange or rim encircling the opening in the nozzle, so as to cover and close said opening at pleasure.

Description of the Accompanying Drawing.

Figure 1 illustrates, in perspective, the nozzle of an oil-can, and over it, detached therefrom, my improved valve cap or tap, made to screw down thereon. Fig. 2 is a central vertical section of the two detached, and Fig. 3 a central vertical section of the valve cap or tap screwed down upon the nozzle.

General Description.

A is a nozzle, struck up in the usual manner, of sheet metal, and provided with a flanged rim, *t*, (by means whereof it is secured over the mouth or opening of an oil-can or other vessel, B,) and with a screw-thread cut or formed exteriorly around its periphery, as shown in Fig. 1, so that the valve-cap may be screwed thereon.

The top of the nozzle is left closed or unbroken when manufactured; but it is deeply scored on top with a circular groove, *c*, (see Fig. 1,) much smaller in diameter than the nozzle itself, so that the central piece, *s*, circumscribed by said groove, may be very readily detached with the blade of a pen-knife, or by a sharp blow thereon, leaving in the top of the nozzle a central opening, *w*, Fig. 2, encircled by a flat rim or flange, *d*. (See Figs. 1, 2, and 3.)

E is a plain cap, of a diameter to fit very closely over and screw down accurately upon the nozzle.

F F are apertures pierced in the top or rim of the cap at diametrically opposite points.

G is a screw, screwing centrally through the top of the cap E, which is either made thicker and heavier for this purpose, or is fitted with a nut secured upon the under side thereof.

To the lower end of this screw G is secured a valve, H, formed of a metallic cup-shaped disk, *m*, soldered or otherwise secured to the end of the screw, in combination with a packing of leather, *n*, placed within the recess of said disk *m*, and confined by the rim thereof.

When the nozzle A, as first manufactured, is soldered over the mouth of the can, the can is thereby hermetically sealed. It is, however, readily opened by cutting or striking out the central piece, *s*.

The valve-cap E screws down over said nozzle A, and when thus placed thereon its valve H will cover the opening *w* in the nozzle, and when pressed down by its screw G will bear closely upon the surrounding flange *d*, and thus perfectly close and seal said opening.

Whenever it is desired to withdraw any portion of the contents of the can, it is only necessary to unscrew and thus open the valve H, when the liquid may be readily poured out through either of the apertures F, the opposite aperture serving in such case as a vent.

The valve-cap may be secured upon the nozzle A by means of a pin on the nozzle and an offset slot in the cap, forming a "bayonet-joint," instead of by a screw, as illustrated; or it may be secured otherwise by any of the simple devices known to the art.

The valve H may be pressed down by means of a spring inserted within the cap, between the top thereof and the valve H, in which case a simple rod is substituted for the screw G.

I contemplate, also, operating the valve, when a spring is employed to close it, by means of a short lever projecting from the side of the cap, and pivoted within the same, so as to bear upon the valve and the spring, to compress the latter and elevate the former. In this case the use of a rod or screw projecting through the top of the cap is dispensed with.

Although I contemplate the use of all these equivalent devices for operating the valve H, I prefer the use of a screw, G, as described.

In this my invention I combine the utmost cheapness (for its three simple parts are all

made and fitted together at an extremely low cost) with perfect durability and efficiency.

Claim.

I claim as my invention—

The combination, substantially as herein described, of the flanged nozzle A, the valve-cap E, and the inclosed valve H, working within said cap and operated by a screw, G, to fit upon the flange of the nozzle and close the opening therein, as specified.

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