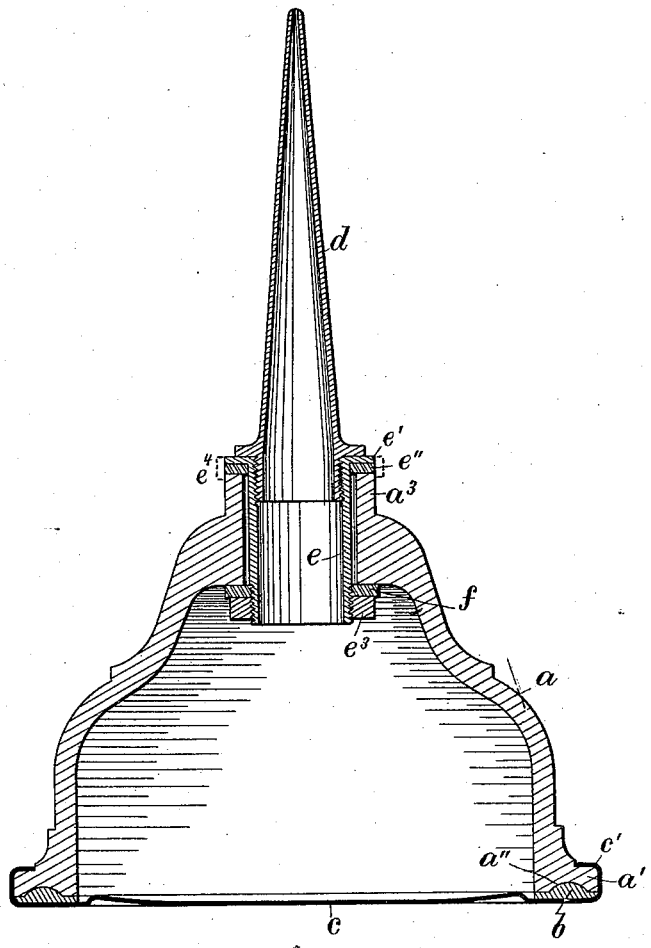
(No Model.)

F. H. STEVENS.

OIL CAN.

No. 345,738. Patented July 20, 1886.



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UNITED STATES PATENT OFFICE.

FITZ H. STEVENS, OF GLOUCESTER, MASSACHUSETTS.

OIL-CAN.

SPECIFICATION forming part of Letters Patent No. 345,738, dated July 20, 1886.

Application filed January 4, 1886. Serial No. 187,605. (No model.)

To all whom it may concern:

Be it known that I, FITZ H. STEVENS, a citizen of the United States, residing at Gloucester, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Oil-Cans; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawing.

This invention relates to improvements on glass-bowl oil-cans of that kind in which the oil is ejected by pressing the bottom inward, and my invention is carried out as follows, reference being had to the accompanying drawing, representing a sectional view of the improved oiler.

In glass-bowl oilers two very essential features are necessary: First, the flexible metal bottom should be so attached to the open-end glass bowl as to prevent leakage of the oil at such place, and there should be placed between the lower end of the bowl and the metal plate a yielding or soft packing, so as to prevent the bowl from being broken when the oiler is set down upon any hard substances. It is also desirable that the nozzle through which the oil is ejected should be attached to the upper end of the glass bowl in such a manner as to prevent the glass bowl from being broken when the nozzle is struck or brought in contact with hard substances, and therefore I carry out my invention as follows:

a is the glass bowl, made of properly-tempered glass in the usual manner. In its lower open end I make an annular flange or projection, *a'*, and I prefer to provide its under side with a circular groove or recess, *a''*, as shown, in which is laid the elastic or yielding packing-ring *b*, that is preferably made of cork, leather, textile or fibrous material, or other suitable elastic or yielding material.

c is the spring-metal bottom, that is made somewhat larger in diameter than the exterior diameter of the lower end of the glass bowl *a*, and it is provided with an upwardly-projecting annular lip, *c'*, which is spun over and closed around the annular flange *a'* of the bowl *a*, after the elastic packing *b* has been placed between the lower end of the bowl and the metal bottom, as shown in the drawing, proper pressure being brought to bear on the packing while in the act of closing the metal bottom over the lower edge of the glass bowl. By this arrangement I am able to prevent any and all leakage at this place, and also to provide an elastic medium between the bottom of the bowl and the metal plate *c*, for the purpose as set forth.

a^3 is the open neck of the glass bowl *a*, and to it is attached the nozzle *d*, as follows:

Before the metal bottom *c* is secured to the lower end of the glass bowl *a*, I insert through the top of the neck a^3 the short pipe or hollow cylinder *e*, having a flange or collar, *e'*, in its upper end, between which and the upper end of the neck a^3, I place a yielding cushion, *e''*, made of any suitable yielding or elastic material. The lower end of the pipe or sleeve *e* is screw-threaded and provided with a screw-threaded ring or nut, e^3, between the top of which and the under side of the neck a^3 is placed, within the bowl *a*, a suitable packing-ring, *f*, as shown, so as to establish a tight connection between said nut and the interior of the upper end of the glass bowl *a*, and thereby prevent leakage at this place. The outer edge of the flange *e'* is preferably provided with a downwardly-projecting annular rim, e^4, to inclose and protect the cushion *e''*, as shown in dotted lines in the drawing. The lower end of the nozzle *d* is screw-threaded and screwed into an interior screw-thread in the upper end of the sleeve *e*, as shown.

The cushion *e''* does not serve as a packing to effect a tight joint between the sleeve *e* and neck a^3, as this is accomplished by means of the nut e^3 and packing *f*; but such part *e''* serves as a yielding cushion to provide an elastic connection between the flanged sleeve *e e'* and the upper end of the neck a^3, so as to prevent the latter from getting broken, if the nozzle *d* is suddenly brought in contact with hard substances.

I am aware that glass-bowl oilers have heretofore been made, and I therefore wish to state that I do not claim such as my invention; but

What I wish to secure by Letters Patent, and claim, is—

1. An oil-can having the glass bowl *a*, with

lower annular flange, a', as described, the elastic packing b, and spring-metal bottom c, having annular lip c' spun or closed around the annular flange a', as and for the purpose set forth.

2. In an oil-can, the glass bowl a, having neck a^3, in combination with the flanged sleeve $e\,e'$, cushion e'', packing f, nut e^3, and nozzle d, all arranged and combined for the purpose as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

FITZ H. STEVENS.

Witnesses:

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