

(No Model.)

W. C. WINFIELD.
LAMP FILLING CAN.

No. 362,474.

Patented May 3, 1887.

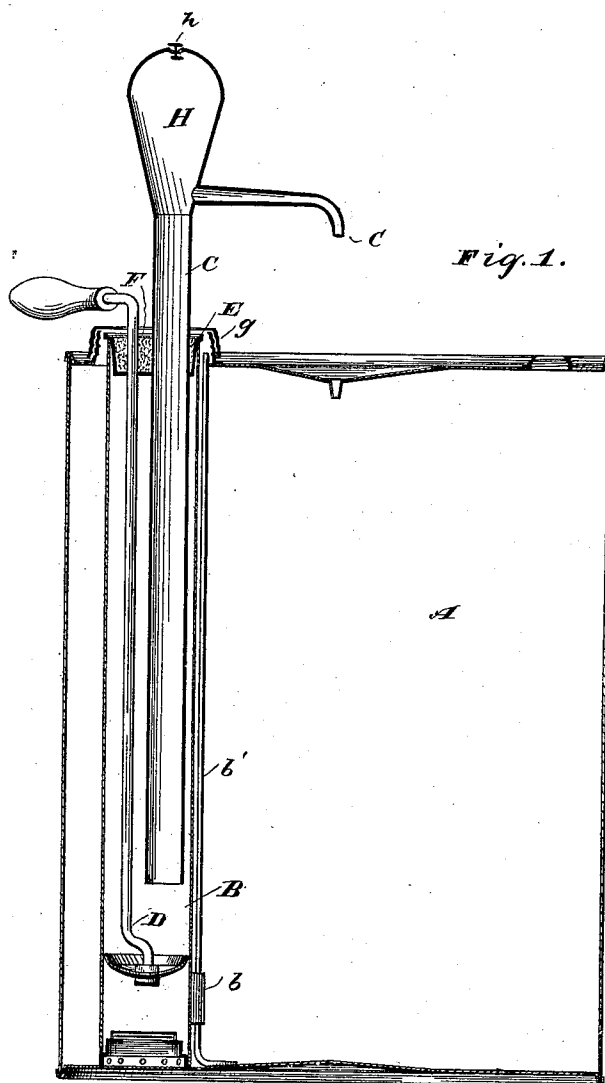


Fig. 1.

Fig. 2.

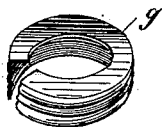


Fig. 3.



Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM C. WINFIELD, OF WARREN, OHIO, ASSIGNOR OF TWO-THIRDS TO
ROLLIN A. COBB AND ORRIS R. GRIMMESEY, BOTH OF SAME PLACE.

LAMP-FILLING CAN.

SPECIFICATION forming part of Letters Patent No. 362,474, dated May 3, 1887.

Application filed January 24, 1887. Serial No. 235,259. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. WINFIELD, a citizen of the United States, residing at Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Lamp-Filling Cans; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to what are commonly known as "lamp-filling cans;" and the object of the invention is to produce a device in which the structure and cost are materially simplified and reduced, while at the same time all the advantages of the more expensive and elaborate filling devices are retained.

To these ends the invention consists in the construction and combination of parts, as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 represents a vertical central section of a can embodying my improvements. Fig. 2 is a detail of the screw-cap on the top of the pump; and Figs. 3 and 4 are details, respectively, of the packing-cup and the loose cap thereon.

The can-body or vessel A is made in the manner of an ordinary can. The pump B is of the variety known as "lift pumps," and is located at one side of the can and interior thereof. At the top the can is provided with a suitable opening to admit the pump-body, which at one side of its lower end has a loop, b, adapted to engage with the guide or stay rod b', fastened to the bottom of the can. The rod b' is preferably made of common wire, and extends upward to and just through the opening in the top of the can provided for inserting the pump. This arrangement permits the user, when inserting the pump into the can, to start and guide the pump to its proper position, where it is held firmly in its place. By this means I avoid the annoyance of guiding the pump into any holding arrangement placed wholly in the bottom of the can, as is commonly done.

The discharge-tube C is set at one side within

the pump, and the plunger or piston rod D is bent at its lower end, so that while it connects centrally with the piston the body of the rod is thrown to one side, thus making room for both the rod and discharge-tube side by side within the pump-chamber. The usual manner of disposing these parts is to provide separate chambers for the plunger and discharge-tube; but this arrangement is complicated and expensive, and I have therefore devised the means herein described for overcoming these objections, and at the same time getting equally satisfactory results.

The top of the pump chamber or cylinder is sealed against the escape of fluid about the plunger-rod and discharge-tube by means of packing-cup E, having openings in its bottom for the passage of said parts, and leather washers or other suitable packing in the cup, with a cap, F, likewise perforated for the passage of the plunger-rod and discharge-tube and adapted to fit upon the packing-cup E. A screw-cap, g, engaging a threaded flange on the top of the can, serves to hold the packing-cup and cover and the pump-cylinder firmly in position.

The discharge-tube is provided with a reservoir, H, at its upper end above the spout, and an automatic valve, h, in the top of the reservoir for the escape of air. The reservoir with its valve steadies and evens the flow of oil from the discharge-tube. The discharge-tube is vertically adjustable to any height above the can required in filling a lamp or like article, and may be turned axially, so as to discharge at the side of the can.

Any suitable valve mechanism may be employed in the bottom of the pump and the piston be formed as shown, allowing the fluid to pass about its sides, or with a valve.

In operation the liquid will rise in the pump-chamber above the end of the discharge-tube, but the chamber being sealed at the top against the passage of fluid, the liquid will be forced through the tube and spout.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A can, a pump, and a discharge-tube extending into the chamber of the pump and adjustable therein, substantially as set forth.
2. A can, a pump set into the can, and an adjustable discharge-tube and a plunger, both
5 arranged to operate within the pump-chamber, substantially as set forth.
3. A can having a guide and stay extending upward from its bottom, in combination with a removable pump having a loop at its side to engage said guide and stay, substantially as
10 set forth.

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Witnesses:

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