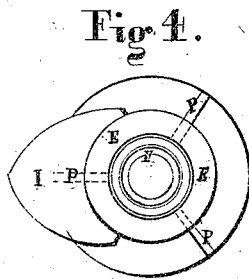
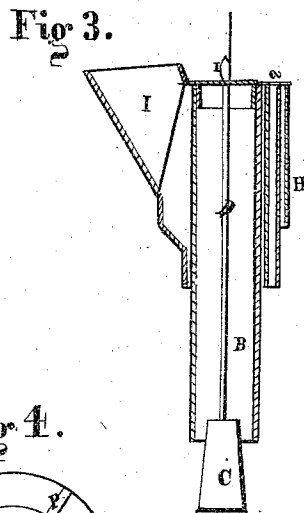
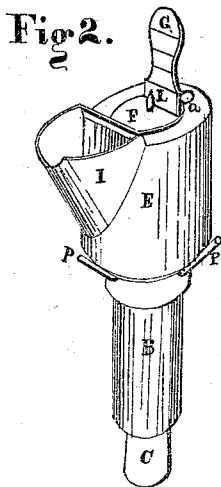
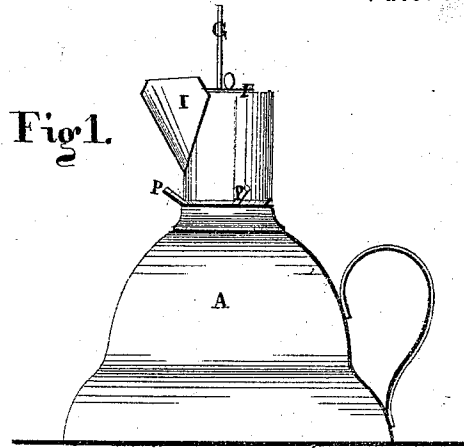


J. A. RYAN.

Indicating Fillers for Lamps, &c.

No. 134,819.

Patented Jan. 14, 1873.



Witnesses.

W. H. Burridge
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Inventor.

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UNITED STATES PATENT OFFICE.

JOHN A. RYAN, OF CLEVELAND, OHIO.

IMPROVEMENT IN INDICATING-FILLERS FOR LAMPS, &c.

Specification forming part of Letters Patent No. 134,819, dated January 14, 1873.

To all whom it may concern:

Be it known that I, JOHN A. RYAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Indicating-Filler for Lamps, &c.; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawing making part of the same.

Figure 1 is a side view of the filler in its application to a lamp. Fig. 2 is a detached view of the filler. Fig. 3 is a vertical transverse section. Fig. 4 is a top view of Fig. 2.

Like letters of reference refer to like parts in the several views.

The nature of this invention relates to a device for filling lamps; and the object of the same is to enable persons to fill lamps without danger of an explosion of the oil while pouring it in, and also to indicate when the lamp is full, and thereby avert the necessity of looking into the lamp for that purpose, the device being especially intended to be used in connection with metal lamps, through which the oil cannot be seen, but which, however, is applicable to glass lamps.

The following is a description of the filler and its practical operations.

In the drawing, Fig. 1, A represents a metal lamp, into which the filler is inserted. Said filler consists of a central tube, B, Fig. 2, in which is loosely fitted a float, C, attached to a stem, D, passing upward through the tube to the outside of the top, as shown in Fig. 3. The upper portion of said tube is inclosed in a shell or chamber, E, and is attached to the top of the shell, whereas the lower end of the shell is not in contact with the tube, but simply surrounds it, having a space between it and the tube, as seen in Fig. 3. In the upper end of the tube is fitted a cap, F, Fig. 2, to which is secured an index-plate, G, the purpose of which will presently be shown. H is a ventilating-tube passing through the shell, and opening to the outside at the top and bottom. I is a mouth-piece attached to one side of the shell and communicating therewith.

The practical application and use of the above-described lamp-filler are as follows: The

tube B is inserted in the oil-hole usually made in the side of the lamp, which avoids the necessity of removing the chimney and wick-tube. The filler thus applied to the lamp, oil is then forced into it through the mouth-piece I. As the oil ascends in the lamp and reaches the float, it is borne up thereby, and consequently raises the pointer L until it reaches a certain line on the index-plate, at which point the lamp is full.

In order to prevent the oil from bubbling while being poured into the shell or chamber E, the air therein is allowed to escape through the vent *a* made in the top of the shell. Should there be no side oil-hole in the lamp, then the filler is inserted in the top of the lamp, the chimney and wick-tube being removed for that purpose. The oil is poured in in the same way as before, and when the lamp is full the pointer will indicate the fact on the face of the index-plate.

This apparatus is very convenient for filling barrels, and for that purpose the tube H is provided to allow a free escape of the air from the barrel in the event the apparatus fills the bung-hole.

By the use of this filler much trouble is saved in filling lamps, and the danger of explosion by filling the lamp too full is avoided, as the pointer will indicate the fact when the lamp is full enough.

The fingers P projecting from the side of the tube are for the purpose of preventing the apparatus from dropping into the barrel should the bung-hole thereof be of large size; hence by which means it will fit various-size holes.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The herein-described lamp-filler, consisting of the central tube B, shell or chamber E, ventilating-tube H, mouth-piece I, index-plate G, float C, and pointer L, all constructed and arranged to operate in the manner as described, and for the purpose set forth.

JOHN A. RYAN.

Witnesses:

W. H. BURRIDGE,
A. F. CORNELL.