

No. 876,784.

PATENTED JAN. 14, 1908.

H. ELLIS.
LAMP FILLER.
APPLICATION FILED JUNE 13, 1907.

Fig. 1.

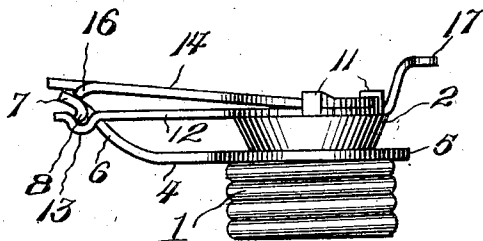


Fig. 2.

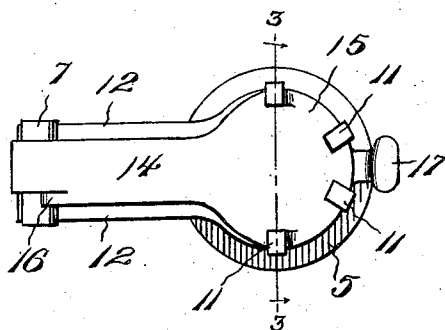


Fig. 3.

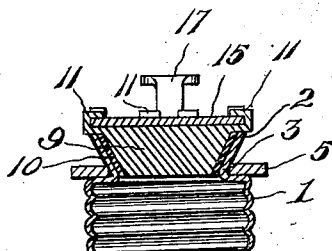


Fig. 4.

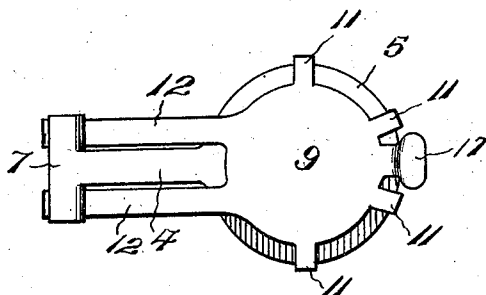
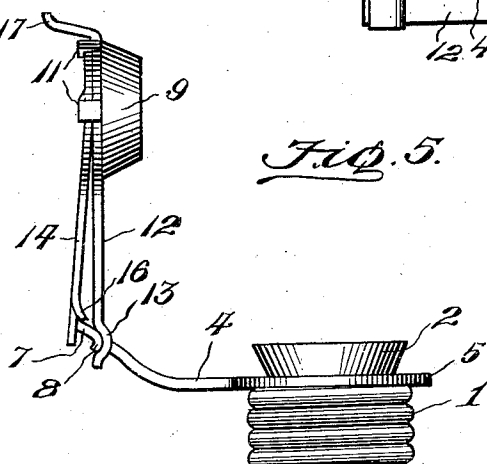


Fig. 5.



Witnesses

J. T. L. Wright.

[Signature]

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UNITED STATES PATENT OFFICE.

HUGH ELLIS, OF BROWNVILLE, MAINE.

LAMP-FILLER.

No. 876,784.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed June 13, 1907. Serial No. 378,836.

To all whom it may concern:

Be it known that I, HUGH ELLIS, a citizen of the United States of America, residing at Brownville, in the county of Piscataquis and State of Maine, have invented new and useful Improvements in Lamp-Fillers, of which the following is a specification.

This invention relates to lamp fillers, and one of the principal objects of the same is to provide a device to take the place of the ordinary cap or plug used for closing the filling orifice of lamps or lanterns.

The filling orifices of lamps and lanterns as usually constructed are closed by a screw cap or plug which is removed when it is desired to fill the lamp or lantern. This plug or cap often becomes lost and is moreover a source of annoyance for the reason that the screw threads become injured and it is difficult to properly close the orifice.

My invention has for its object the production of a device for opening and closing the filling orifice without requiring the detachment of a screw plug or cap, and comprises a plug secured to a spring mounted arm by means of which the orifice is closed by the action of the spring and may be opened by lifting the plug upward.

The objects and advantages above referred to may be attained by means of the construction illustrated in the accompanying drawing, in which:

Figure 1 is a side elevation of a filling device made in accordance with my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2, and looking in the direction indicated by the arrows. Fig. 4 is a top plan view of the device with the upper arm removed, and the lugs for connecting said arm being shown before they are bent upward to secure said arm in place. Fig. 5 is a side elevation of the filler with the plug thrown upward in position to permit the lamp to be filled.

Referring to the drawing for a more particular description of my invention, the numeral 1 designates a threaded funnel adapted to be connected to the threaded ring surrounding the filling orifice of a lamp or lantern. It will be obvious that the funnel 1 may be provided with exterior screw threads to fit within an interiorly screw threaded filling orifice without departing from the spirit of my invention. The upper portion

of this funnel is provided with an outwardly flaring mouth 2 which serves as a funnel for the oil can. Connected to the funnel at the reduced portion 3 thereof is an arm 4 provided with a ring 5 which surrounds the reduced portion of the funnel, said arm having a laterally extending cross bar 7 provided with downwardly curved edges 8. A tapering plug 9 provided with a surrounding gasket 10 of rubber, leather or other suitable material, is provided with outwardly projecting flexible lugs 11 and is provided with a pair of spaced arms 12, each arm at its outer end having a downwardly extending depression 13 which engages the downwardly curved edges 8 of the cross bar 7. An arm 14 made of spring metal is provided with a disk 15 at one end which is engaged with the plug 9 by bending over the lugs 11, as shown in Figs. 2 and 3, and the outer end of said arm is provided with a downturned spring lip 16 which bears against the cross bar 7. Formed on the plug 9 is an upwardly curved finger hold 17.

The operation of my invention may be briefly described as follows: The funnel portion 1 is connected to the filling orifice of a lamp or lantern, and when it is desired to fill the lamp or lantern, the finger hold 17 is lifted against the tension of the spring arm 14, and swung into the position shown in Fig. 5. After the lamp or lantern has been filled the plug is thrown down into the position shown in Fig. 1, where it will be held by means of the spring arm. Should there be a generation of gas in the oil reservoir of the lamp, the pressure would be sufficient to overcome the tension of the spring and to permit the same to escape, thus preventing an explosion of the lamp.

From the foregoing it will be obvious that my invention is of simple character, can be quickly attached to any lamp or lantern, is easily operated for filling the lamp, and can be manufactured at slight cost.

Having thus described the invention, what I claim is:

1. A lamp filler comprising a threaded funnel adapted to be connected to the filling orifice of a lamp or lantern, an arm secured to the funnel and provided with a cross bar having downwardly turned edges, a plug provided with spaced arms having depressions in which the cross bar is fitted, and a spring

arm connected to the plug and provided with a downturned lip for engaging the cross bar, and a finger hold for operating the plug.

2. A lamp filler comprising a threaded funnel adapted to be connected to the filling orifice of a lamp or lantern, an arm connected to the funnel and provided with a cross bar having downwardly turned edges, a plug provided with spaced arms hinged to the
10 arm connected to the funnel, said spaced

arms each having a depression to engage said downwardly turned edges on the cross bar, and a finger hold for operating the plug.

In testimony whereof, I affix my signature in presence of two witnesses.

HUGH ELLIS.

Witnesses:

E. H. GOULD,
DAVID ELLIS, Jr.