C. R. Landmann,

Oil Can.

No. 11,612. Patented Aug. 29, 1854.

Fig. 2.

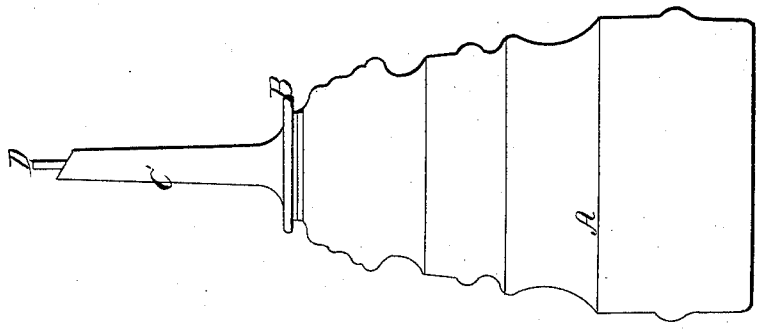
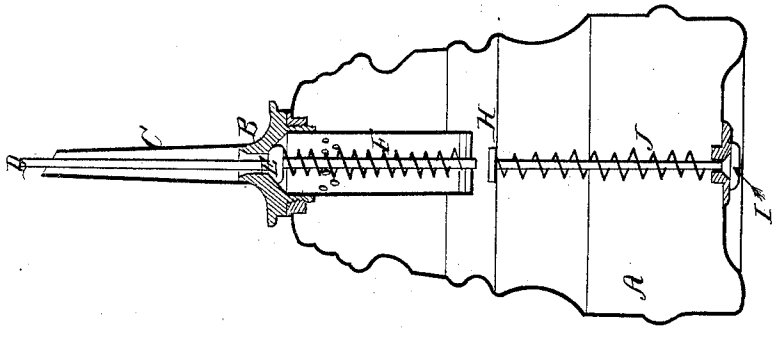


Fig. 1.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

C. R. LANDMANN, OF NEW YORK, N. Y.

IMPROVEMENT IN LAMP-FILLERS.

Specification forming part of Letters Patent No. **11,612**, dated August 29, 1854.

To all whom it may concern:

Be it known that I, C. R. LANDMANN, of the city, county, and State of New York, have invented a new and Improved Quick Safety-Filler for Lamps and other Purposes; and I do hereby declare the following to be a full description of the same.

The nature of my invention consists in arranging in the tube or nozzle of the filler a piston-rod having a button on it at about midway the length of the rod, and ground on its upper surface, so as to fit a seat in the lower side of the filler tube or nozzle, so that by means of a spiral spring on the piston-rod the vent to the tube is always kept closed by the button. In combination with this arrangement for discharging the fluid from the filler is another rod in it, directly under the piston-rod, and passing down through the bottom of the filler, so as by the elevation or raising the button on the end of it, in consequence of the piston-rod being forced against its upper end, the air enters the filler and causes the fluid in it to discharge freely into the lamp, and on reversal of the position of the filler the spiral springs on the rods closes the air-vent and nozzle-orifice.

To describe my invention more particularly I will refer to the accompanying drawings, forming a part of this schedule, the same letters of reference, wherever they occur, referring to the same parts.

Figure 1 is a vertical cut section of the filler and safety apparatus. Fig. 2 is a side elevation of the filler, showing the upper end of the piston-rod projecting beyond the nozzle of the filler.

Letter A is the filler-case, made of any suitable metal for such purposes. In the neck of the filler-case is secured a cap, B, to the upper side of which is the nozzle C of the filler-case. Arranged in the filler-cap is a piston-rod, D. On this rod is arranged a button, E, which is ground or turned down, so as to fit a seat cut in the lower side of the cap D. On the rod is also a spiral spring, F, attached at one end to the rod and at the other to the tube G, surrounding the lower end of the rod. The length of this rod is governed by the length of the nozzle and depth of the filler, as it is requisite that its upper end should project beyond the end of the nozzle, so that by pressure against it the button is raised from off its seat, and its lower end forced against the upper end of the air-vent rod H in the bottom of the filler. This rod passes through the bottom of the filler, and has a button, I, on it, arranged outside of the filler, the object of which is to close the space around the rod in consequence of the reaction of the spiral spring J, attached to it, on the pressure being removed.

The operation of the filler is that when the upper end of the piston-rod is pressed against any object it recedes, opening thereby the valve in the cap, and at the same time its lower end, coming in contact with the upper end of the air-vent rod, raises the button on its outer end to let the air into the filler and instantly causes the fluid to flow. Immediately the filler is righted the spiral spring closes the escape from the nozzle or leakage from vent-hole in the bottom.

The safety-filler is intended as an accompaniment to my safety-filler tubes for lamps, &c., and though it can be used without them, yet it has been expressly designed for that purpose, as the nozzle of the filler, on being inserted into the filler-tube, fills the entire space, and the stem of the filler opening the filler-tube fills the lamp, and instantly it is filled and the nozzle of the filler withdrawn all the openings are closed by the valves and self-adjusting springs.

Having now described my invention, I will proceed to state what I claim and desire to secure by Letters Patent of the United States—

The use of the safety-filling apparatus, made and operating substantially as hereinbefore set forth, in combination with a filler-case, for the purposes set forth.

C. R. LANDMANN.

Witnesses:

R. D'HEUREUSE,

CHARLES L. BARRITT.