

HENRY H. ROGERS & GEORGE F. WALTER.

Oil Cans.

No. 118,155.

Patented August 15, 1871.

Fig. 1.

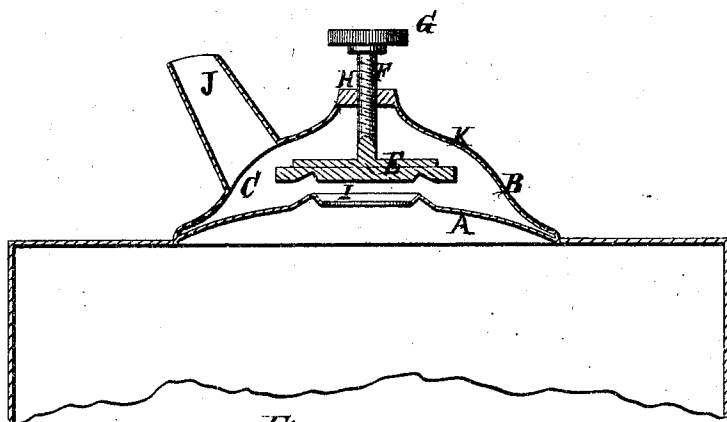
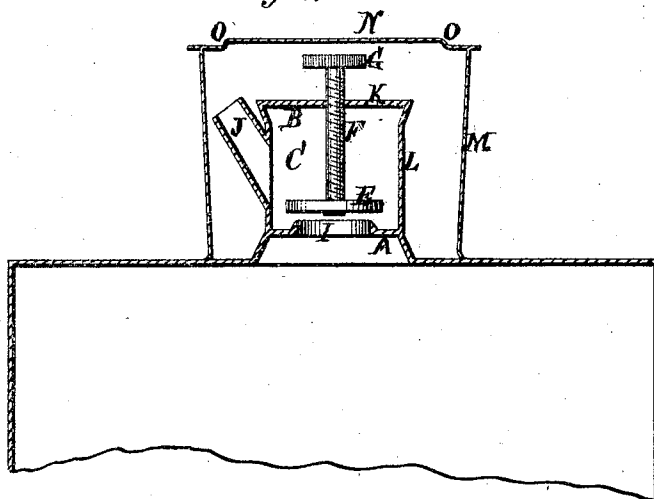


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

HENRY H. ROGERS AND GEORGE F. WALTER, OF BROOKLYN, N. Y., ASSIGNORS
TO "CHARLES PRATT MANUFACTURING COMPANY," OF NEW YORK CITY.

IMPROVEMENT IN SCREW-NOZZLES FOR LIQUID-PACKAGES.

Specification forming part of Letters Patent No. 118,155, dated August 15, 1871.

To all whom it may concern:

Be it known that we, HENRY H. ROGERS and GEORGE F. WALTER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Screw-Nozzle for Liquid-Packages; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical section of our improved nozzle, showing the valve raised. Fig. 2 is a similar view of a modification, showing the parts arranged within an exterior cap affixed to the can.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

Our invention has for its object to provide a simple and compact discharge-nozzle for liquid-packages, which shall combine in itself three qualities, to wit: A seal to protect the contents of the package, together with the valve and discharge-spout, during transportation. Secondly, a screw-valve, to be operated after the seal is broken to permit the discharge of the liquid and to act as a stopper for the exclusion of air. Thirdly, a spout, by which the contents of the package are discharged after the seal is removed. To this end, the invention consists in a metallic nozzle provided with an air-vent, a discharge-spout, and a screw-valve, in combination with an exterior safety-cap, whose top must be cut away or removed before the nozzle can be reached to operate the screw-valve.

Our improvement insures perfect safety during transportation, as it prevents the screw-nozzle from being tampered with or injured by casual blows.

In the accompanying drawing, A is the bottom, and B the top plate of the screw-nozzle, united at the edges so as to form a valve-chamber, C, between them. E is the valve placed within the chamber C, and operated by the screw-stem F, which passes vertically through the raised center of the top plate, as shown, its outer end being provided with a milled head, G, by which it is operated. The opening in the top plate through which the valve-stem passes is provided with a

nut, H, for the reception of the stem, as shown in Fig. 1. The lower plate A of the nozzle is provided with a central opening, by which a communication is formed between the interior of the can and the chamber C when the valve is raised, and a rib, I, is formed around said opening, as a seat for the valve. J is the discharge-spout affixed to the top plate upon one side of the valve-stem, and K is a vent formed in said plate upon the opposite side of the stem. The screw-nozzle thus constructed is applied to a can, around an opening formed in the head thereof, by soldering or otherwise securing the edge of the plate B to the metal surrounding such opening.

In Fig. 2 I have shown a modification in the form of the screw-nozzle, which consists in making the bottom and top plates A B straight and uniting the two by a cylindrical body, L, upon which the discharge-spout J is placed, instead of being placed upon the top plate above described.

It is evident that by raising the valve the liquid can be discharged from the can through the chamber C and spout J. When the valve is screwed down to its seat it forms a close joint, through which the liquid cannot escape.

In Fig. 2 is further shown a metallic cap or spout, M, secured to the head of the can, inclosing the screw-nozzle, for the purpose of protecting the same. When this cap has been applied access to the nozzle can only be had by cutting away the top plate N, which is made of soft or thin metal for this purpose, and may be provided with a shoulder, O, to indicate the line in which it should be cut.

Having thus described our invention, what we claim is—

The metallic nozzle provided with the screw-valve, the discharge-spout, and an air-vent, in combination with the exterior sealed cap M, substantially as described, for the purposes specified.

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Witnesses:

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