(No Model.)

F. J. DEVERALL.

NOZZLE FOR OIL CANS.

No. 442,285. Patented Dec. 9, 1890.

Fig. 1.

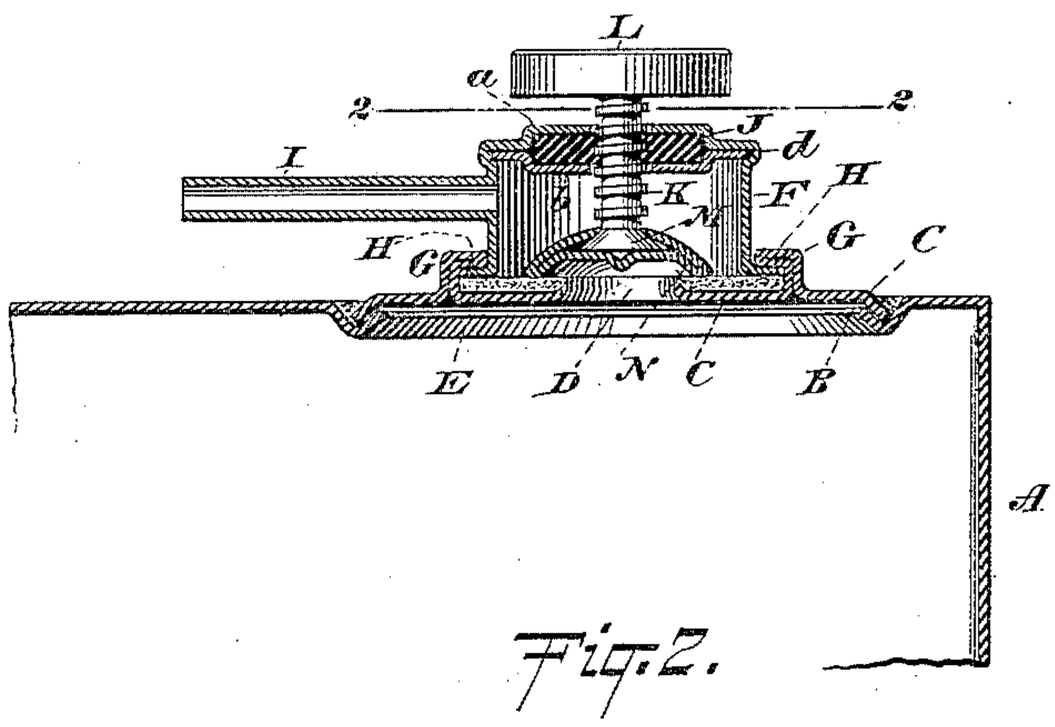


Fig. 2.

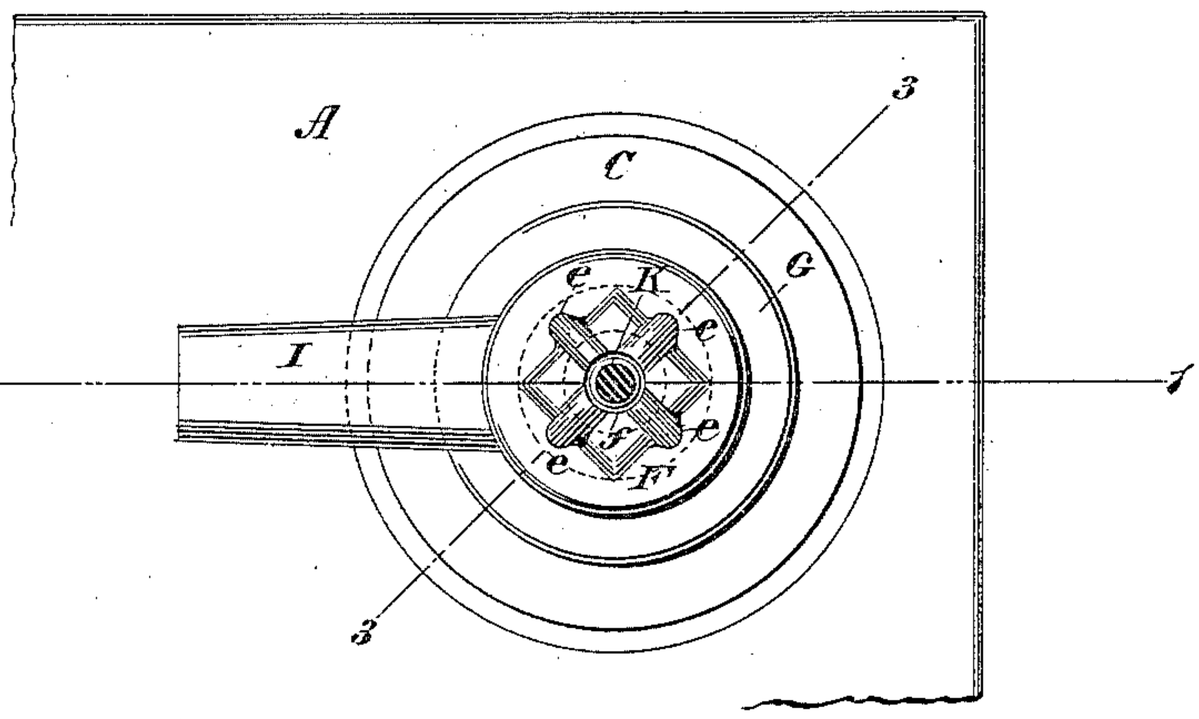


Fig. 3.

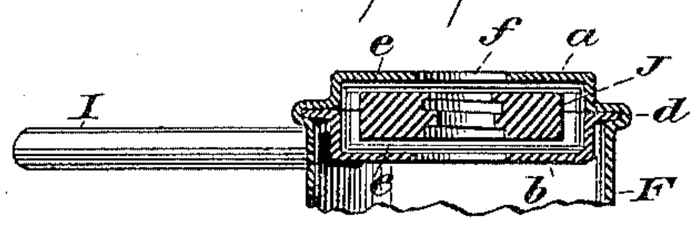
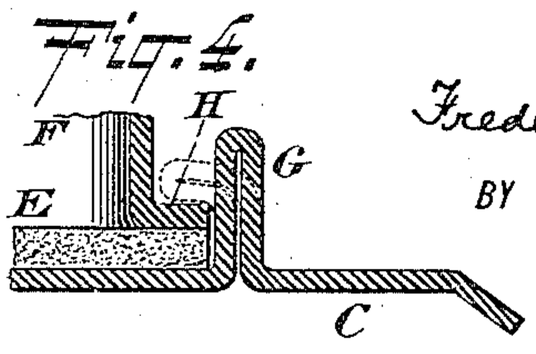


Fig. 4.



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NOZZLE FOR OIL-CANS.

SPECIFICATION forming part of Letters Patent No. 442,285, dated December 9, 1890.

Application filed June 16, 1890. Serial No. 355,542. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK J. DEVERALL, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Nozzles for Oil-Cans, of which the following is a specification.

The invention relates to improvements in nozzles for oil-cans; and it consists in the elements of arrangement and construction hereinafter described and claimed.

Referring to the accompanying drawings, Figure 1 is a central vertical section of a nozzle constructed in accordance with the invention and applied to the top of the usual form of can, the section being on the dotted line 1 1 of Fig. 2, which is a sectional view of same on the dotted line 2 2 of Fig. 1. Fig. 3 is a sectional view of the upper part of the nozzle, being on the dotted line 3 3 of Fig. 2; and Fig. 4, a detached vertical section of one edge of the nozzle, said section being presented to show the manner of permanently attaching the cap or body of the nozzle to the can.

In the drawings, A designates the can of usual form, having at one corner of its top the aperture B to receive the plate or disk C, which is soldered at its outer edges to the top of the can, as shown in Fig. 1, and contains the central aperture D. That portion of the disk C between the aperture D and the edges of the aperture B forms a seat for the disk of packing material E, which has at its center an aperture conforming with the aperture D.

Upon the packing E is permanently secured the cap F by means of the flange G, which is folded upward and inward from the metal of the disk C and has its edge turned upon the outwardly-extending flange H, formed on the lower edge of said cap F, as shown in Figs. 1 and 4. The cap F is permanently held against the packing E, and, although not detachable from the can, it may be turned so as to cause the spout I, carried by it, to extend outward over the edge of the can or inward over the top of the can, which latter position of the spout is the one illustrated in the drawings. The spout I is secured in an aperture in the side of the cap F, and is of convenient dimensions to permit the oil to be poured from the can A into a lamp or other receptacle. The cap F carries between its top *a* and the disk *b*, fitted against the inner side of said top, the internally-threaded nut J to receive the vertical screw K, the latter having upon its upper end the head or finger-piece L, and upon its lower end the head M, supporting the valve N, whose outer edges curve downward and engage the packing E on a line inclosing the aperture D and within the cap F. The disk *b* is held at its outer edges in a groove *d*, formed in the upper outer edges of the cap F, as shown in Figs. 1 and 3, and said disk *b* and the top *a* are suitably conformed to the exterior surface of the nut J, in order that the latter may be snugly inclosed and prevented from rotating. The disk *b* and top *a* are also ribbed, as at *e e*, to form passages, through which the air may pass from the aperture *f* to the interior of the cap and facilitate the flow of the oil through the spout I. The valve N is formed from a disk of sheet metal, the outer edges of the disk being turned inward upon the head M at the lower end of the screw K. The valve N is loose upon the head M, in order that it may be carried by said head, but not compelled to rotate with it particularly when the outer edges of the valve are impinging the packing E.

It will be observed that when the flange G is folded inward upon the flange H the cap F will thereby be permanently held against the packing E and attached to the disk C, and that when the disk C is soldered at its outer edges to the cam A the nozzle will then be in operative condition and position and will not be liable to become detached under ordinary circumstances. The cap F may be rotated so as to project the spout I over the edge of the can when desired, but has no vertical movement. The flange H at the lower edge of the cap F has a bearing on the packing E, and this not only prevents the escape of the oil under the edges of the cap, but retains the packing in position.

When the valve N is screwed firmly down on the packing E, the oil will be sealed within the can; but when the valve N is elevated from the packing E by the operation of the

screw K and the spout I turned over the edge of the can the oil may be conveniently discharged into a lamp or other receptacle.

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

1. The nozzle for cans, consisting of the cap F, having the discharge-spout I and the outwardly-turned flange H at its lower edge, combined with the flange on the can engaging said flange H and holding the cap F permanently on the can, the valve N, screw K, head L, nut J, and packing E, the latter serving for both the cap F and valve N, substantially as and for the purposes set forth.

2. The nozzle for cans, consisting of the cap F, having the discharge-spout I and outwardly-turned flange H, combined with the valve N, screw K, head L, nut J, packing E, disk C, and the flange G, the latter being folded from said disk to retain the flange H in contact with and to form a seat for said packing, which serves for both said flange and said valve, substantially as and for the purposes set forth.

3. The nozzle for cans, consisting of the cap F, having the spout I and being permanently secured to the can, combined with the packing E, valve N, screw K, head L, and nut J, the latter being secured between the top *a* and disk *b* and having air-passages around it, substantially as and for the purposes set forth.

4. The nozzle for cans, consisting of the cap F, having the spout I and attached to the can, combined with the packing E, valve N, screw K, head L, and nut J, the latter being held between the top *a* and disk *b*, which are ribbed to form air-passages around the nut, substantially as and for the purposes set forth.

Signed at New York, in the county of New York and State of New York, this 10th day of June, A. D. 1890.

FREDERICK J. DEVERALL.

Witnesses:
CHAS. C. GILL,
E. D. MILLER.