(No Model.)

E. NORTON.

SCREW CAP SEALING NOZZLE FOR CANS.

No. 602,465. Patented Apr. 19, 1898.

FIG. 1

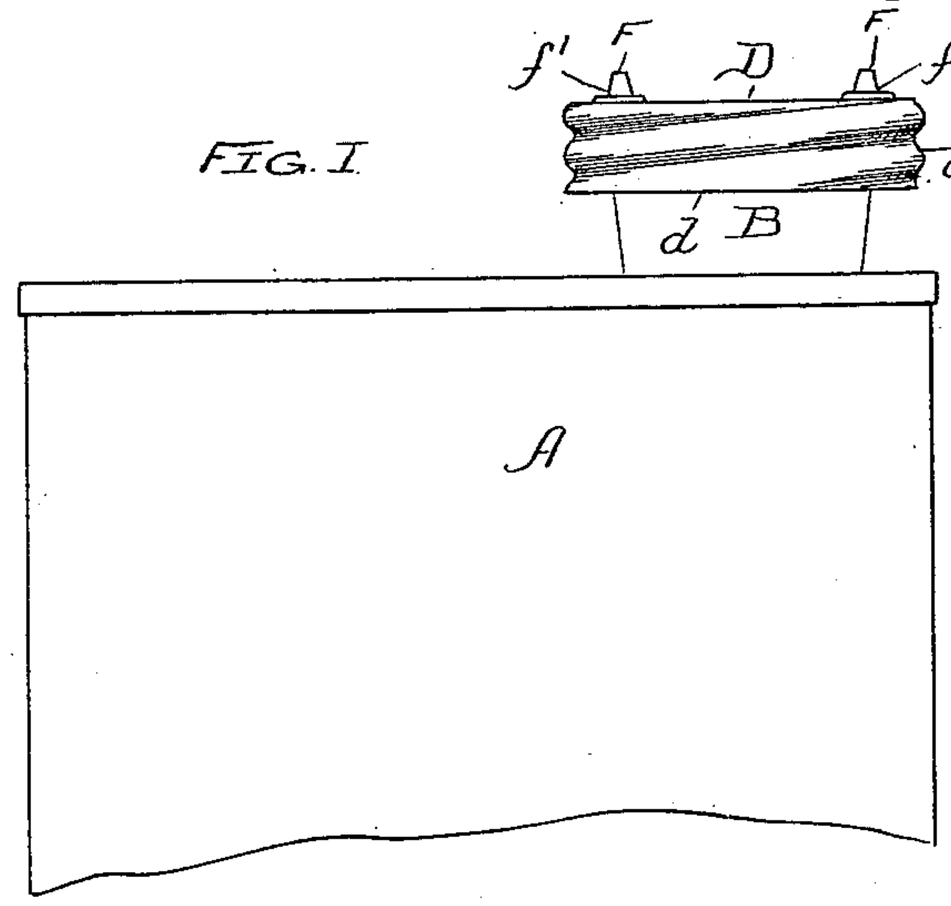


FIG. 2

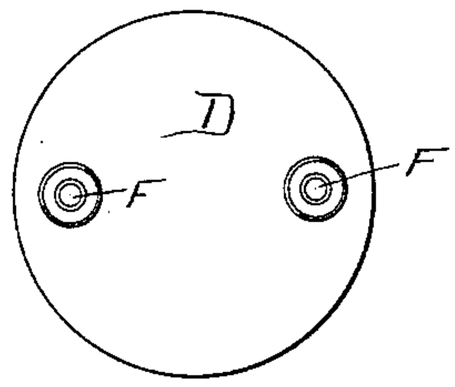


FIG. 3

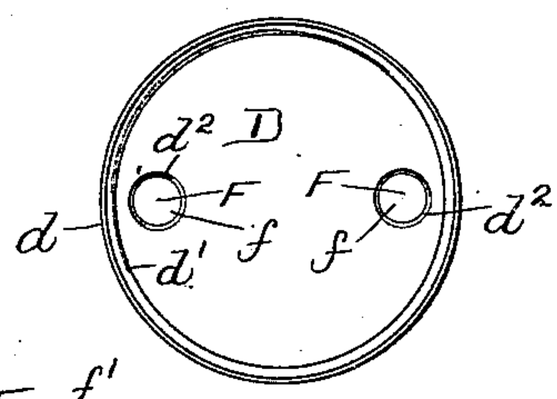
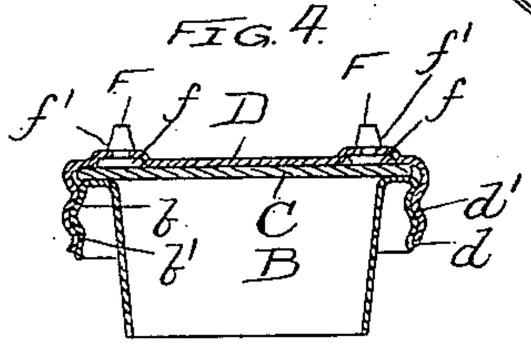


FIG. 4



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UNITED STATES PATENT OFFICE.

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SCREW-CAP SEALING-NOZZLE FOR CANS.

SPECIFICATION forming part of Letters Patent No. 602,465, dated April 19, 1898.

Application filed June 19, 1896. Serial No. 596,194. (No model.)

To all whom it may concern:

Be it known that I, EDWIN NORTON, a citizen of the United States, residing in Maywood, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Screw-Cap Sealing-Nozzles for Cans, of which the following is a specification.

My invention relates to improvements in the construction of screw-cap sealing-nozzles for cans.

The object of my invention is to provide a strong and efficient means in the construction of these nozzles for unscrewing the cap, and which can at the same time be manufactured very rapidly and cheaply.

To this end my invention consists, in connection with the screw-nozzle, the sealing-disk, and screw-cap, in providing the screw-cap with lugs for unscrewing and screwing the same, consisting in a pair of rivets which are inserted through the cap and upset, so that the shoulder formed by the upsetting in connection with the head of the rivet may firmly and securely attach the rivet to the cap, while at the same time the sealing-disk closes air-tight the holes in the cap through which the rivets are inserted. The projecting rivets thus form strong bearings or fulcrums on the cap for screwing and unscrewing the same, while at the same time admitting of their being applied to the cap and the whole manufactured very rapidly and cheaply, soldering being unnecessary.

In the accompanying drawings, which form a part of this specification, and in which similar letters of reference indicate like parts throughout all of the views, Figure 1 is a side elevation of a device embodying my invention. Fig. 2 is a plan view of the screw-cap nozzle. Fig. 3 is a bottom view of the screw-cap, and Fig. 4 is a central longitudinal section.

In the drawings, A represents the can or vessel to which my invention may be applied. B is a screw-nozzle attached thereto and provided with the customary depending flange b, furnished with the screw-threads b'.

C is the sealing-disk, made, preferably, of waterproof or impervious paper or other slightly-yielding material. D is the screw-cap, having the customary depending flange d, furnished with the screw-threads d'.

F F are rivets inserted through suitable holes formed in the cap D and having heads f at their lower ends and upset shoulders f', thus firmly embracing the cap between them, so that the rivets are securely held in place. The cap D is also furnished with countersinks d^2 to receive the heads f of the rivets and permit them to fit flush with the lower surface of the cap. The heads of the rivets will thus not interfere with the proper sealing of the nozzle by the sealing-disk C. The sealing-disk C will also, for that matter, seal or close air-tight the openings formed through the cap by the rivets.

In my invention it will be observed that the annular shoulder f' formed on the stem or shank portion of the rivet by the upsetting operation, for the purpose of securing the rivet to the perforated cap by clamping the cap between the head f of the rivet and the shoulder f', still leaves the stem or shank portion of the rivet projecting above the cap, so as to form an efficient lug for unscrewing the cap. In other words, the base of the stem or shank portion of the rivet above the cap is simply enlarged in diameter at its base portion to form a clamping-shoulder f' to cooperate with the head f for securing the rivet to the cap without flattening down or destroying the stem or shank portion of the rivet, but leaving it projecting, so as to form an efficient lug.

I claim—

1. The combination with a screw-nozzle, its sealing-disk, and screw-cap provided with two holes in its flat top or disk portion to receive rivets, of a pair of rivets in separate pieces from the cap and projecting through the cap to form screwing or unscrewing lugs, and having heads and shoulders embracing the cap, the projecting stem or shank portion of said rivets being enlarged at their bases to form said shoulders and projecting above said shoulders to form said screwing or unscrewing lugs substantially as specified.

2. The combination with a screw-nozzle, its sealing-disk, and screw-cap provided with two holes in its flat top or disk portion to re-

ceive rivets, of a pair of rivets in separate pieces from the cap and projecting through the cap to form screwing and unscrewing lugs, and having heads and shoulders embracing the cap, said cap having countersinks to receive the heads of the rivets and permit the cap to fit flush upon the sealing-disk, the projecting stem or shank portion of said rivets being enlarged at their bases to form said shoulders and projecting above said shoulders to form said screwing or unscrewing lugs substantially as specified.

EDWIN NORTON.

Witnesses:
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