No. 657,274. Patented Sept. 4, 1900.

A. N. RITZ.

VENT NOZZLE.

(Application filed May 31, 1900.)

(No Model.)

Fig. 2.

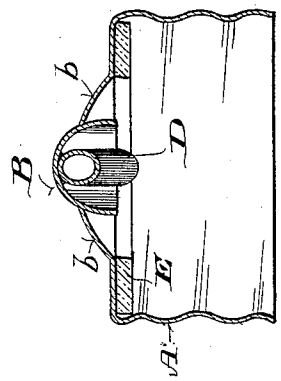


Fig. 1.

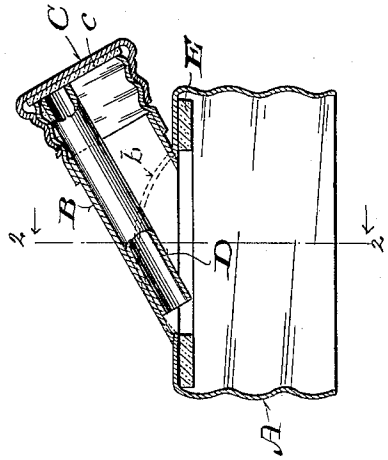
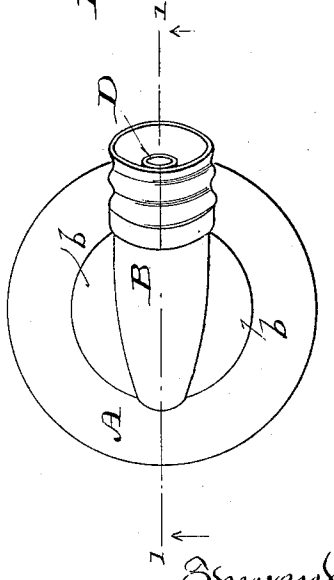


Fig. 3.



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UNITED STATES PATENT OFFICE.

AUGUST N. RITZ, OF MILWAUKEE, WISCONSIN.

VENT-NOZZLE.

SPECIFICATION forming part of Letters Patent No. 657,274, dated September 4, 1900.

Application filed May 31, 1900. Serial No. 18,514. (No model.)

To all whom it may concern:

Be it known that I, AUGUST N. RITZ, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Vent-Nozzles; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple, economical, and efficient vent-nozzles for bottles, cans, and other vessels, said invention consisting in what is hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a vertical transverse section of a vent-nozzle constructed according to my invention, the plane of the section being indicated by line 1 1 in the third figure of the series; Fig. 2, a similar view of the nozzle on the plane indicated by line 2 2 in the preceding figure, and Fig. 3 a plan view of said nozzle.

Referring by letter to the drawings, A indicates a sheet-metal screw-cap having a central top slot between struck-up ears *b*, and soldered to the cap-top and its ears in register with the slot is an inclined tubular spout B, having its outer mouth end threaded to engage a screw-cover C, provided with an inner compression-disk *c*, by which to obtain an air-tight closing of the spout. However, it is practical to employ a slip-cover for the mouth end of said spout. That portion of spout B occupying the top slot of cap A is undercut in an oblique direction to obtain the greatest possible practical area of opening, and soldered to the upper longitudinal portion of said spout, inside the latter, to extend nearly the whole length thereof, is a vent-pipe D, its inner end being considerably in rear of the forward extremity of the undercut of the aforesaid spout to carry air back of the outpour of the aforesaid spout, and thus prevent choking of fluid contents of the vessel during a pouring operation, this being an important feature of my invention. A compression-gasket E is arranged inside the cap A, so that the latter may have air-tight union with the mouth of the bottle, can, or other vessel to which it is applied.

Owing to the oblique undercutting of the inner end of the spout and the arrangement of pipe D in said spout fluid contents of a vessel provided with the above-described nozzle will readily pour without entering said pipe. Owing to the inclination of the vent-pipe when in normal position any of the vessel contents that may splash or otherwise enter therein will drain back, and hence said pipe is not liable to become clogged by dried-out accumulations therein.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A vent-nozzle consisting of a cap having a central top slot and elevated ears between which the slot is located, a tubular inclined spout soldered to the cap-top and its ears in register with said slot, the inner end of this spout being undercut in an oblique direction; and a pipe located in the upper portion of the spout parallel therewith to extend approximately the whole length of same, the inner end of this pipe being considerably in rear of the forward extremity of the undercut of the aforesaid spout.

2. A vent-nozzle consisting of a cap having a central top slot and elevated ears between which the slot is located, a tubular inclined spout soldered to the cap-top and its ears in register with said slot, the inner end of this spout being undercut in an oblique direction; a detachable cover for the mouth end of the spout, and a pipe located in the upper portion of said spout parallel therewith to extend approximately the whole length of same, the inner end of this pipe being considerably in rear of the forward extremity of the undercut of the aforesaid spout.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

AUGUST N. RITZ.

Witnesses:

H. E. OLIPHANT,

B. C. ROLOFF.