## (No Model.)

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No. 332,281.

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# S. B. OPDYKE. NOZZLE FOR BOTTLES.

# Patented Dec. 15, 1885.

Fig-I. Etg-2. Eig 4. B.  $\mathcal{A}$ CTQ. 5 F, G h WITNESSES:

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INVENTOR

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Stacy B. Opdyke BY WHBabcock



#### N. PETERS. Photo-Lithographer, Washington, D. C.



# UNITED STATES PATENT OFFICE.

STACY B. OPDYKE, OF NEW HAVEN, CONNECTICUT.

## NOZZLE FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 332,281, dated December 15, 1885.

Application filed October 12, 1885. Serial No. 179,618. (No model.)

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To all whom it may concern:

Be it known that I, STACY B. OPDYKE, a citizen of the United States, residing at New Haven, in the county of New Haven and State 5 of Connecticut, have invented certain new and useful Improvements in Nozzles for Bottles; and I do hereby declare the following to be a

full, clear, and exact description of the invention, such as will enable others skilled in the o art to which it appertains to make and use the same.

This invention has for its object to provide bottles with cheap and convenient nozzles, which will allow the contents of said bottles 15 to be poured out partly or wholly with neatness and without spilling, and which may be easily inserted or removed at will. It is especially applicable to bottles containing tablesauce and other thick liquids which are 20 poured out in small quantities at a time.

It consists, chiefly, in a tube of cork adapted to be inserted in the mouth of a bottle, in combination with a nozzle, of metal or other suita-

| slot, b. This tube is forced into the mouth of said neck.

C is a nozzle, of metal or other suitable ma-55 terial, the cylindrical lower part of which is forced into the slot b of said tube or otherwise embedded therein. As shown in Figs. 1 and 2, this nozzle is provided, above said tube B, with a single lip or chute, c, overlapping the 60 mouth of the bottle, while the form of nozzle shown in Fig. 3 has two such lips c on opposite sides. Through this lip, or one of these lips, the liquid is poured, as from the mouth of a pitcher. Of course, the use of a nozzle 65 with a projecting lip is not broadly new; but the exceeding cheapness, lightness, and simplicity of my nozzle with the cork tube, into which it is easily forced, give to my device special advantages. 70

Instead of cork, soft wood, paper, or other equivalent material may be used.

As shown in Fig. 3, I sometimes add, by way of further improvement, an external annular flange, D, attached to the metal of the nozzle 75

below the lip or lips c. This flange is of greater ble material, having a cylindrical part which diameter than said tube B, and rests on the 25 is inserted into a circular slot in said tube and mouth of the bottle, forming a neat joint there, a discharge lip or chute overlapping the and preventing the nozzle from being pushed mouth of the bottle. 8C too far down. It consists, further, in the combination of such These nozzles are easily inserted in and rea tube with a nozzle thus inserted, and having moved from the bottle; but of course when 30 an annular flange for resting on the mouth of removed some form of stopper must be subthe bottle. stituted to keep out dust and other foreign It consists, finally, in the construction of a substances. Instead of this procedure, I may 85 supplemental stopper for covering the said allow the nozzle to remain permanently in ponozzle, and in its combination therewith, all sition for use, but insert in the tube B, when I 35 substantially as set forth. desire the interior of the bottle to be protected In the accompanying drawings, Figure 1 from such intrusion, the tapering stem E, prorepresents an elevation of the neck and vided with a cap, F, which is recessed on its 90 mouth of a bottle with my improved nozzle under side, at f, to receive a cork washer, G, attached thereto. Fig. 2 represents a vertical the said parts EFG constituting a supplemen-40 section through said nozzle and its tube. Fig. tal stopper. Of course, such a stopper may 3 represents an elevation of a nozzle and tube be inserted directly in the mouth of the bottle, embodying my invention, said nozzle being the nozzle being removed to admit it; but in 95 provided with two discharge-lips and a flange. that case the stem E would need to be of greater Fig. 4 represents a perspective view, and Fig. diameter. As shown, this stem is of a size to 45 5 a vertical section of a supplemental device used as a stopper for said nozzle. Fig. 6 repfit the interior of the tube B, and the cork washer G rests upon and covers the top of resents a detail perspective view of the cork said nozzle. This washer is removable, so that 100 tube, and Fig. 7 represents a vertical section it may be replaced when worn. Its softness of a modification of my supplemental device prevents the edge of the nozzle from being 50 provided with a flanged metal plate. bent or injured. A designates the neck of a bottle; B, a tube, Instead of using a countersunk stopper, I of cork, having in its upper end a circular

may employ an ordinary stopper with smooth inner face and a metal cap or collar, H, having its back fitting against the inner side of the head of the stopper and provided with a 5 flange, h, for holding the washer. This washer fills the space within said flange and affords a cushion for the edge of the nozzle on which it rests, the washer being horizontal when the bottle and nozzle are upright.

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

1. The combination of a cork tube adapted to fit the mouth of a bottle with a nozzle hav-15 ing its lower end embedded in the upper end of said tube, substantially as set forth.

3. The combination of collar B and nozzle C, inserted in the upper end thereof, with stop-25 per E, having a cork washer for resting on the edge of said nozzle, and a stem extending down within said tube, substantially as set forth.

4. The stopper E, provided with a plate, 30 H, having a peripheral flange, h, and a cork washer or disk, G, which fills the space within said flange and is adapted to rest on the upper edge of the nozzle, substantially as set forth.

5. A cork tube provided with a slot or groove, b, in its upper end, in combination with a nozzle inserted into said groove or slot. In testimony whereof I affix my signature in presence of two witnesses.

2. A nozzle having an external annular flange for resting on the mouth of a bottle and a cylindrical part below said flange, in com-20 bination with a tube which is grooved to receive said cylindrical part of the nozzle, said tube fitting within the neck of the bottle, substantially as set forth.

### STACY B. OPDYKE.

Witnesses: WM. H. BABCOCK, JAS. P. RYON.

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