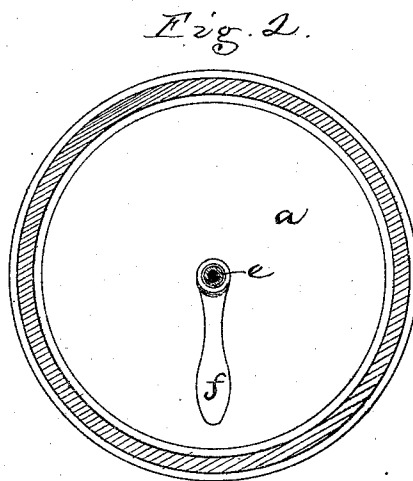
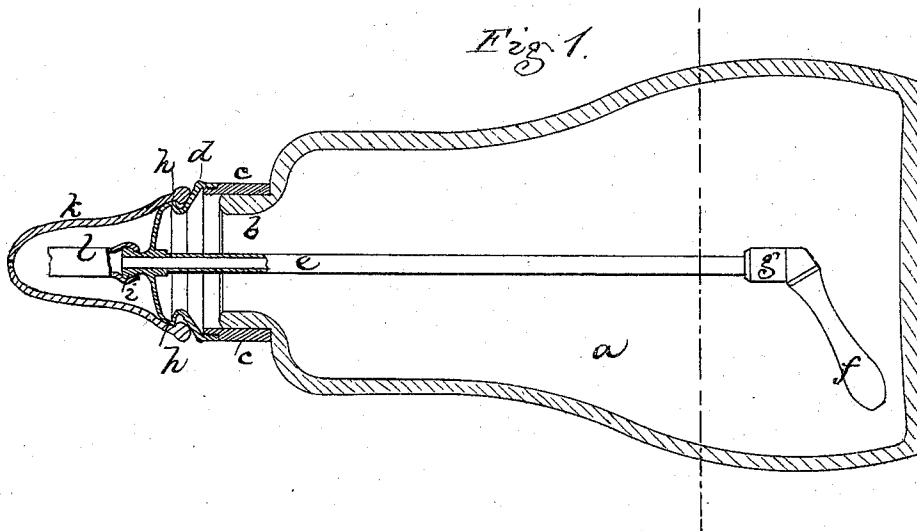


G. R. WHITE.
Nursing-Bottles.

No. 138,219.

Patented April 22, 1873.



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UNITED STATES PATENT OFFICE.

GEORGE R. WHITE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN NURSING-BOTTLES.

Specification forming part of Letters Patent No. **138,219**, dated April 22, 1873; application filed April 2, 1873.

To all whom it may concern:

Be it known that I, GEORGE R. WHITE, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Nursing-Bottles; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

A nursing-bottle as now generally made is provided with a rubber tube extending inwardly from the cap of the bottle, the flexibility of such a tube enabling a glass inlet-tube at its inner end to drop to the bottom side of the bottle in whatever position the bottle may be held. These rubber tubes are objectionable, as they cannot be kept clean and sweet, the application of hot water rotting them and destroying their elasticity, and the glass tubes at their ends are fragile and often break.

To remedy these defects I use a metallic tube, preferably silver-plated or nickel-coated, which tube may be instantly cleansed by pouring hot water through it without removal from the bottle, and without injurious effect upon it, and to the inner end of this tube I apply a branch tube, having a passage in common with the main tube, but swinging freely upon said main tube, or so as to always hang pendent from the main tube to whatever extent the bottle may be turned while kept in an approximately horizontal position.

My invention consists primarily in a nursing-bottle having extending from the inner end of a central and rigid or fixed metal draft-tube a pendent loosely-swinging branch tube, which by its weight always hangs down and reaches to or nearly to the deepest part of the bottle, when the bottle is held in horizontal or approximately horizontal position. For such bottle I use a metal screw-cap, and this cap I make not only as a cap to close the bottle, but with provision for attachment both of a flexible

tube at the end of which is attached the rubber-nipple and of the nipple itself, the metal screw-cap or cover thus made constituting part of the invention.

The drawing represents a construction embodying the invention.

Figure 1 shows the bottle in longitudinal section. Fig. 2 is a cross-section of it.

a denotes the glass bottle, made in the usual form. To its mouth *b* is fixed a permanent nut-threaded metal ring, *c*, and to this ring is screwed the metal cap *d* having the draft-hole through its center. Extending from the cap is the metal tube *e*, and to the inner end of this tube is joined the branch tube *f*, the tube *e* extending into the enlargement or sleeve *g*, and the connection being such that the tube *f* swings with perfect freedom. This tube extends down to the bottom of the bottle, as shown, and assumes or keeps this position constantly, and having the inlet-orifice at its end it is always in position for the milk in the bottle to enter it. The cap *d* has two buttons or flanges, *h i*, the button *h* being for attachment of a nipple, *k*, direct to the bottle, and the button *i* for attachment of one end of a flexible tube, *l*, to the other end of which the nipple is applied, and the metal screw-cap, answering as a cover or stopper, also serves for direct attachment of the nipple, or of the tube to receive the nipple at its end.

I claim—

1. In combination with the bottle *a*, the rigid center draft-tube *e*, having at its inner end the pendent loosely-swinging metal tube *f*, substantially as shown and described.

2. The screw-cap *d*, made with the two buttons or flanges *h i*, for receiving either the nipple *k* or nipple-tube *l*, substantially as described.

GEO. R. WHITE.

Witnesses:

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