

No. 671,753.

Patented Apr. 9, 1901.

A. BRIELMAYER.
NON-REFILLABLE BOTTLE.

(Application filed Dec. 31, 1900.)

(No Model.)

Fig. 1

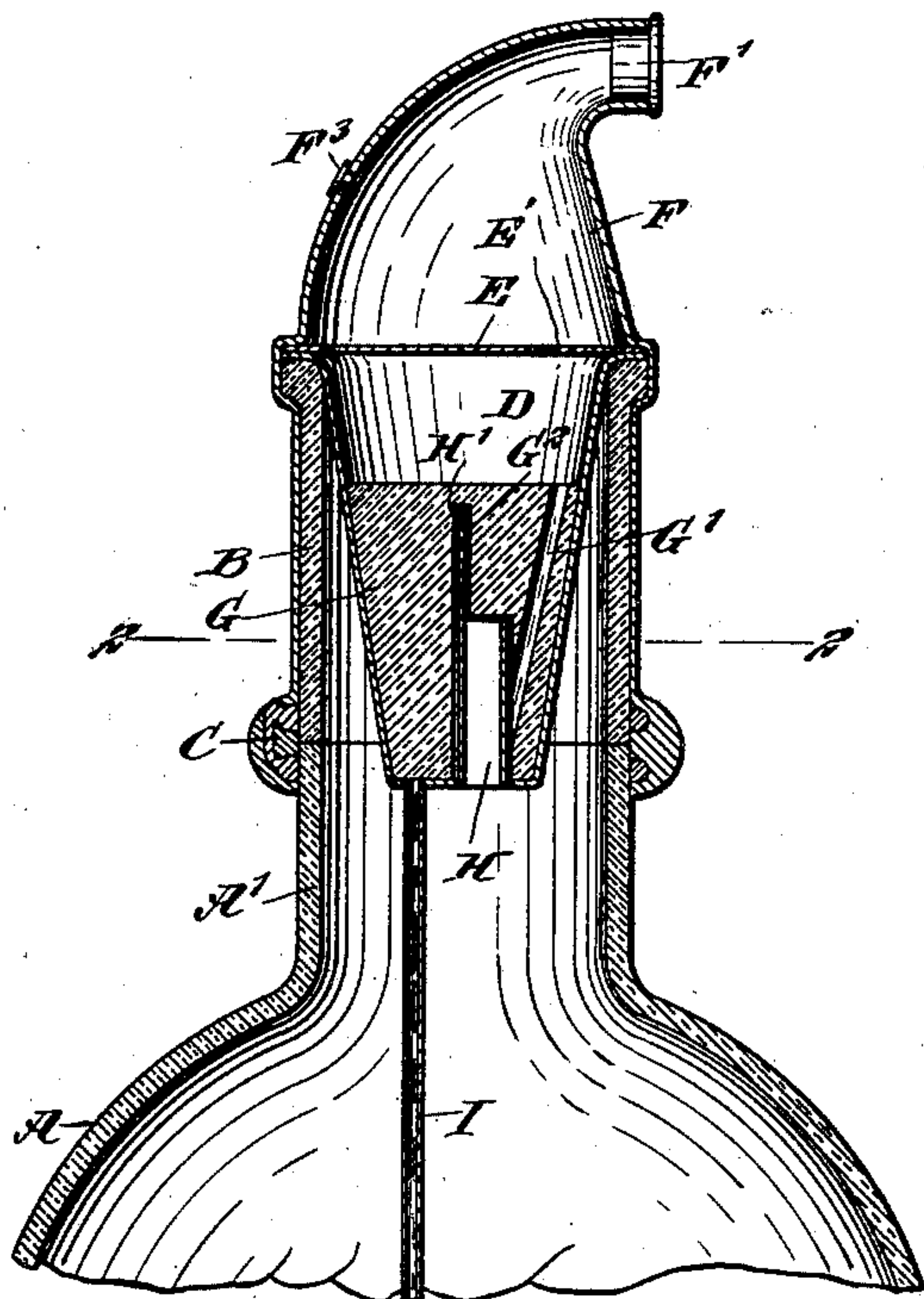


Fig. 2

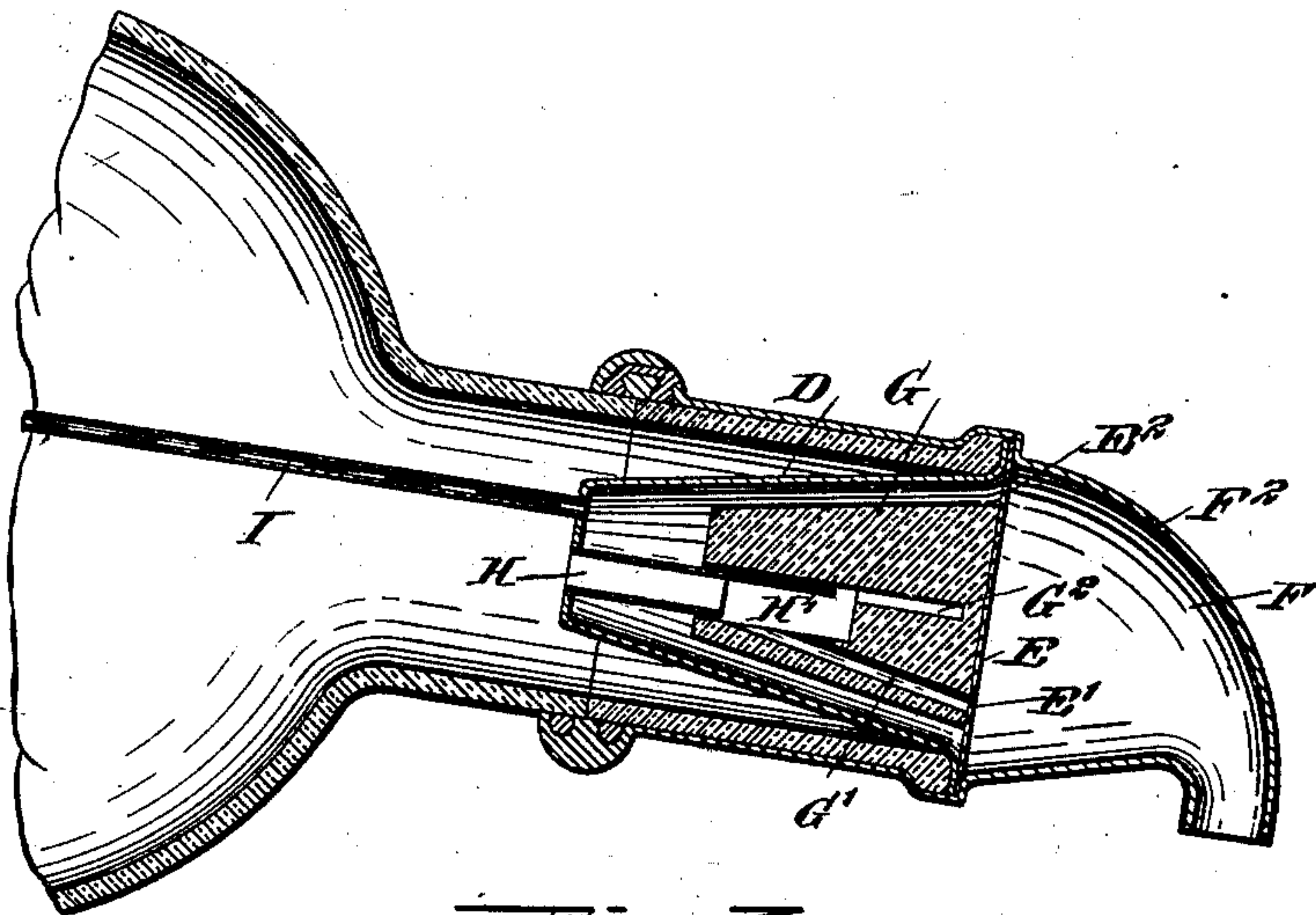
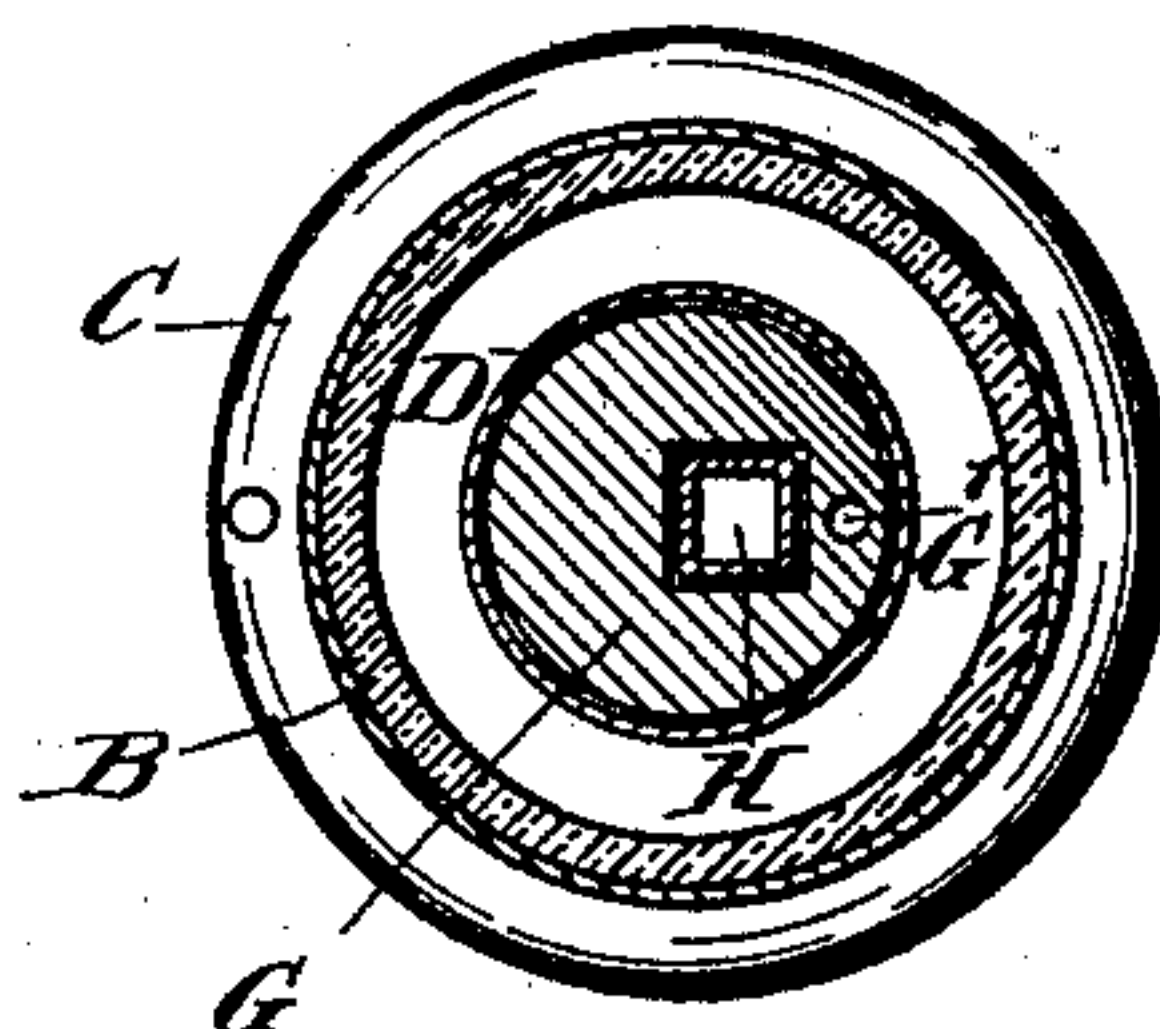


Fig. 3

WITNESSES:

J. A. Propoy
Henry H. Foster

INVENTOR

Alexander Brielmayer

BY

Wm. L. E.

ATTORNEYS

UNITED STATES PATENT OFFICE.

ALEXANDER BRIELMAYER, OF SOUTH NYACK, NEW YORK, ASSIGNOR OF ONE-THIRD TO THOMAS P. FITZGERALD, OF NEW YORK, (BOROUGH OF BROOKLYN,) NEW YORK.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 671,753, dated April 9, 1901.

Application filed December 31, 1900. Serial No. 41,688. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER BRIELMAYER, a subject of the Emperor of Germany, and a resident of South Nyack, in the county of Rockland and State of New York, have invented a new and Improved Non-Refillable Bottle, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved non-refillable bottle which is simple and durable in construction and arranged to prevent unauthorized persons from refilling the bottle with spurious goods after the bottle is once emptied of its original contents.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional side elevation of the improvement with parts in a closed position. Fig. 2 is a sectional plan view of the same on the line 2 2 in Fig. 1, and Fig. 3 is a sectional side elevation of the same with the bottle tilted and parts in position for discharging the contents.

The bottle on which the improvement is applied may be of any approved construction. In case, however, the body A of the bottle is provided with a very short neck A' then an extension-neck B is secured thereon by means of a suitable fastening device C, as indicated in Figs. 1 and 3. In the extension-neck B is secured a conically-shaped casing D, made of metal or other suitable material and closed on top by a cover E, held in place by a funnel F, preferably forming part of the fastening device C, previously mentioned, and normally closed by a suitable plug F', as shown in Fig. 1.

In the casing D is arranged a stopper G, of glass or other suitable material and normally fitting into the lower portion of the casing D when the bottle A is in an upright

position, as indicated in Fig. 1, the top of the stopper then being a distance from the cover E, as is plainly shown in said Fig. 1.

In the stopper G is formed a longitudinally-extending channel G', normally closed at its lower end by a short tube H, preferably polygonal in cross-section and extending into a correspondingly-shaped recess formed in the under side of the stopper G, so that when the bottle is tilted, as shown in Fig. 3, then the stopper is free to slide outward on said tube H until the top of the stopper abuts against the cover E. When this takes place, the inner end of the channel G' becomes uncovered, and consequently liquid contained in the bottle can flow through the tube H and channel G' through a registering aperture E' in the cover E to the funnel F and out of the same into a glass or other receptacle.

As shown, the tube H is secured in the bottom of the casing D and opens to the interior of the bottle, and on the upper end of the said tube is arranged a guide-arm H', adapted to fit into a recess G² in the stopper to assist in guiding the latter during its outward and downward movement.

From the bottom of the casing D extends a vent-pipe I into the bottle, and said vent-pipe is normally closed by the stopper G; but when the latter slides outward, as shown in Fig. 3, then the vent-pipe I is uncovered and air can pass into the interior of the bottle by way of the aperture F² in the funnel F, the aperture E² in the cover E, and the space between the stopper and the side wall of the casing D, as will be readily understood by reference to Fig. 3. The aperture F² above mentioned is closed by a plug F³ when the bottle is shipped or stored.

It is understood that after the contents have been poured out of the bottle and the latter is set back into a vertical position then the stopper by its own weight glides back into a lowermost position, so that the outlet-channel G' is again closed as well as the vent-pipe I.

The funnel F has its outlet at one side, as indicated in Figs. 1 and 3, so that unauthorized persons cannot well get at the stopper G and hold the same in an open position for re-

filling the bottle with spurious goods after the bottle has been once emptied of its original contents.

The device is very simple and durable in construction, is not liable to get out of order, can be cheaply manufactured, and readily placed in position.

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

1. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stopper having an outlet-channel and mounted to slide in said casing, and an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, as set forth.

2. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stopper having an outlet-channel and mounted to slide in said casing, an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, said tube being polygonal in cross-section to form a guideway for the stopper to slide in, and to prevent the stopper from turning, as set forth.

3. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stopper having an outlet-channel and mounted to slide in said casing, an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into the said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, and a cover for said casing and serving to limit the outward movement of said stopper, the cover having an aperture adapted to register with said channel when the stopper has moved into an outer position, as set forth.

4. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stop-

per having an outlet-channel and mounted to slide in said casing, an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into the said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, a cover for said casing and serving to limit the outward movement of said stopper, the cover having an aperture adapted to register with said channel when the stopper has moved into an outer position, and a funnel over said casing and cover and having its opening at one side, as set forth.

5. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stopper having an outlet-channel and mounted to slide in said casing, an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, and an air-vent pipe extending from the casing into the bottle, the air-vent pipe being normally closed by the stopper, as set forth.

6. A non-refillable bottle, comprising a casing fixed in the neck of a bottle, a conical stopper having an outlet-channel and mounted to slide in said casing, an outlet-tube fixed in the casing and opening at one end into the bottle, the other end of the tube opening into said stopper-outlet when the stopper has moved into an outermost position upon tilting the bottle, an air-vent pipe extending from the casing into the bottle, the air-vent pipe being normally closed by the stopper, a cover over said casing and having an air-vent opening, and a funnel over said casing and cover and having an air-vent opening, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALEXANDER BRIELMAYER.

Witnesses:

WM. SHAKSPEARE,
FRANK DAVIS.