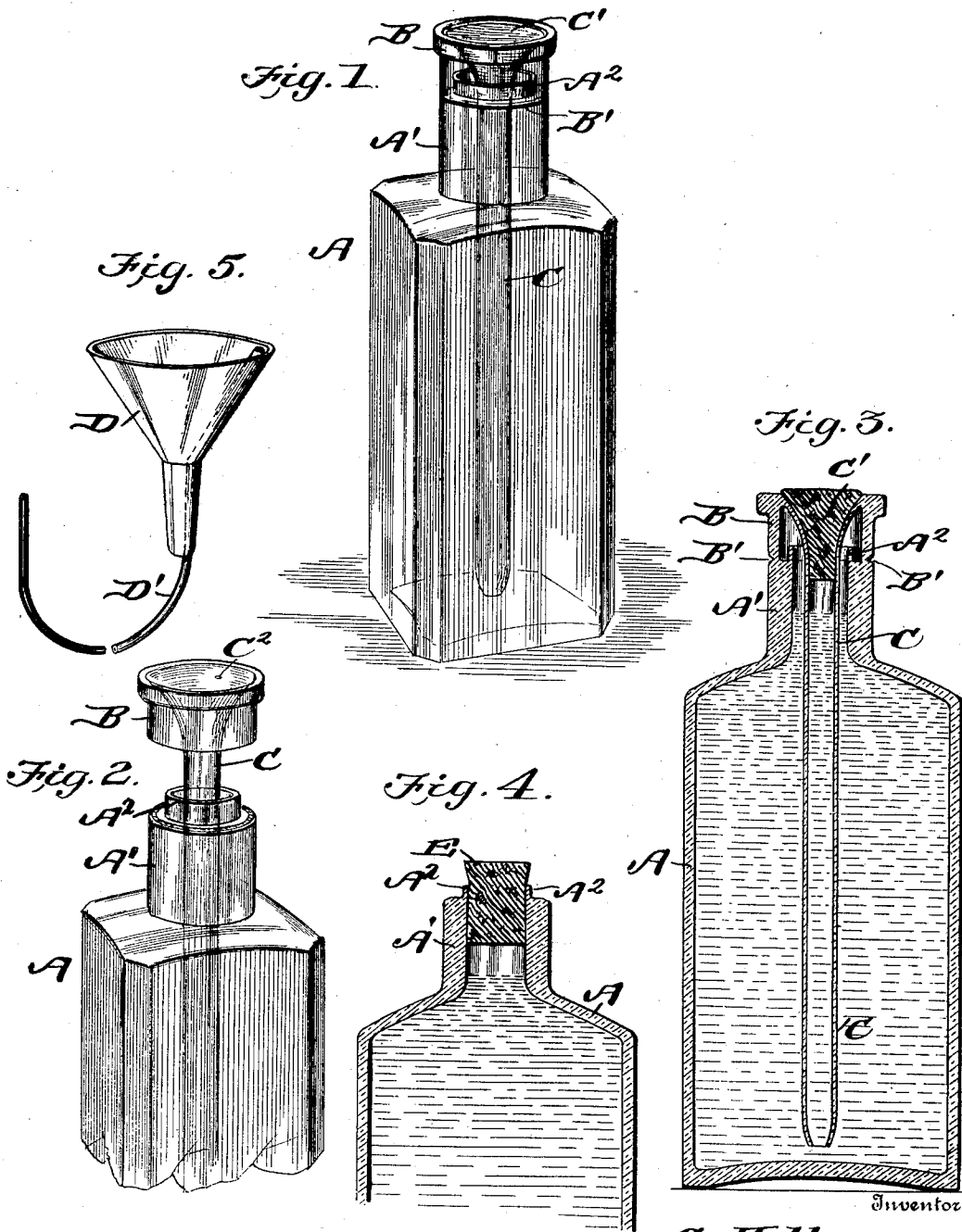


No. 737,739.

PATENTED SEPT. 1, 1903.

C. HOLLOWAY.
BOTTLE AND STOPPER.
APPLICATION FILED APR. 20, 1903.

NO MODEL.



Witnesses
W. D. Glonack
Clayton Shaw

By *O'Meara & Brock,*
Attorneys

UNITED STATES PATENT OFFICE.

CLARENCE HOLLOWAY, OF LINCOLN, ILLINOIS.

BOTTLE AND STOPPER.

SPECIFICATION forming part of Letters Patent No. 737,739, dated September 1, 1903.

Application filed April 20, 1903. Serial No. 153,508. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE HOLLOWAY, a citizen of the United States, residing at Lincoln, in the county of Logan and State of Illinois, have invented a new and useful Bottle and Stopper, of which the following is a specification.

My invention is an improvement in bottles; and the object of my invention is to produce a bottle of this type in which the neck will be broken when the contents of the bottle are to be removed, and a further object is to so construct the bottle that in breaking the neck there will be no danger of fine broken glass getting into the contents of the bottle.

My invention consists of the novelties of construction and arrangement of parts hereinafter described, particularly pointed out in the claims, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my bottle before breaking. Fig. 2 is a perspective view showing the bottle, the upper neck having been broken from the lower and the tube being partly withdrawn. Fig. 3 is a vertical section showing an unbroken bottle. Fig. 4 is a detail sectional view showing a bottle after it has been broken. Fig. 5 is a perspective view showing means for originally filling the bottle.

In the drawings, A represents a bottle of any size and shape having the usual contracted neck portion A', and this neck portion, which, comparatively speaking, is of considerable thickness, has an upwardly-extending annular flange A², rising from and integral with the inner part of the neck. An upper neck portion B is also formed, its interior diameter being greater than the exterior diameter of the flange A² and rising above same. An annular groove B' is formed in the neck at the junction of the section A' and neck portion B, and in manufacture the glass is tempered so as to make a clean break. Extending downwardly within the bottle to a point adjacent its bottom is a tube C, preferably integral with the neck B, but of a less diameter than the interior diameter of the

neck A'. A stopper C' fits into the upper bell-shaped portion of this tube. A small aperture C² is formed in the bell-mouth portion of the tube and permits escape of air while the bottle is being filled, or the bottle may be filled by inserting a funnel D in the tube C and having a small pipe D' extending from the top of the funnel down into the tube and serving as an air-vent; but by having the opening C² it will not be necessary to use a pipe such as D'.

It will be obvious that the bottle having once been filled the liquid will not run when the bottle is decanted. By tapping the bottle at the groove B' the neck will break cleanly at this point and the upper neck-section B can be lifted from the section A', drawing the tube C and stopper C' with it. The bottle can then be emptied in the usual way and corked by an ordinary stopper E. The flange A² will prevent any broken glass from getting into the contents of the bottle should the neck be shattered in breaking.

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

1. In a bottle of the kind described comprising upper and lower neck-sections, an annular exterior groove separating the two sections, a vertical, interior flange integral with the lower section, and a tube integral with the upper section, extending downward into the bottle.

2. A bottle of the kind described comprising upper and lower neck-sections, an annular exterior groove at the junction of the two sections, an annular flange integral with the lower section extending upward into the upper neck-section, and a tube open at each end and integral with the upper section, said tube extending downwardly through the flange and lower neck-sections and terminating just above the bottom of the bottle.

CLARENCE HOLLOWAY.

Witnesses:

E. F. L. RAUTENBERG,
C. H. LOVEWELL.