No. 624,204. Patented May 2, 1899.

R. FRANK.

MEDICINE BOTTLE.

(Application filed Dec. 15, 1898.)

(No Model.)

Fig: 1.

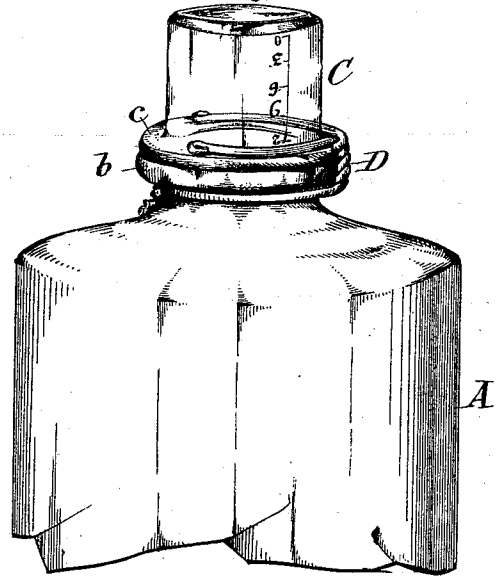


Fig: 3.

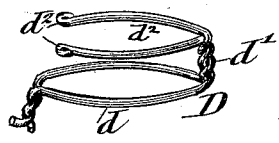


Fig: 2.

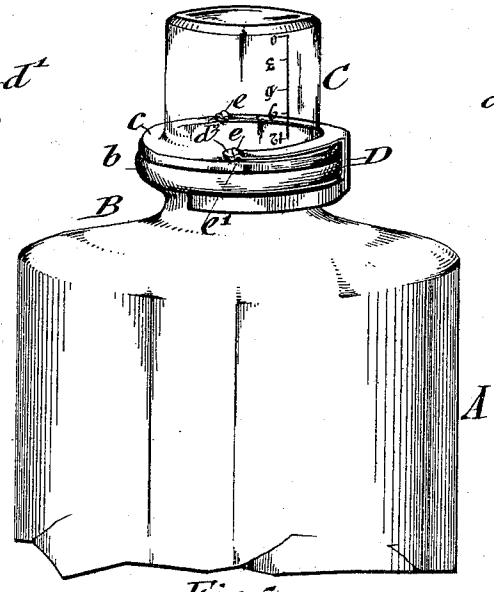


Fig: 4.

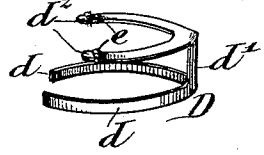
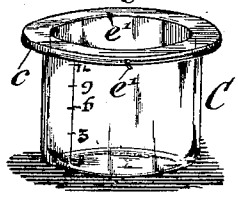


Fig: 5.



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RICHARD FRANK, OF NEW YORK, N. Y.

MEDICINE-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 624,204, dated May 2, 1899.

Application filed December 15, 1898. Serial No. 699,303. (No model.)

To all whom it may concern:

Be it known that I, RICHARD FRANK, a citizen of the United States, residing in the city of New York, in the borough of Manhattan and State of New York, have invented certain new and useful Improvements in Medicine-Bottles, of which the following is a specification.

This invention relates to an improved medicine-bottle in which the use of ground-glass or cork stoppers is dispensed with and in place thereof a closure in the form of a graduate employed, which is retained on the neck of the bottle and which can be easily removed and used as a receptacle in which to measure off the prescribed quantity of medicine. The medicine may then be taken directly from the graduate or from a spoon into which the medicine is poured for the purpose.

The invention consists in the combination, with the neck of a medicine or other bottle, said neck having a flange at its top provided with a ground top surface, of an inverted graduate having an exterior flange ground on its face and adapted to be supported on the flange of the bottle-neck and a retaining device adapted to retain the graduate on the bottle-neck with its ground flange-face contacting with the ground flange-face of the bottle-neck, and, further, in certain details of construction and combinations of parts, to be more fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of my improved medicine-bottle, showing the graduate in position thereon. Fig. 2 is a similar perspective view showing a modified form of retaining device for the graduate. Figs. 3 and 4 are perspective views showing different forms of retaining devices, one being made from spring-wire and the other from spring sheet metal; and Fig. 5 is a detail perspective view of the graduate used for the closure of the bottle, shown removed from the bottle and in upright position.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a bottle, and B the neck of the same. On the flange *b* of the neck is retained in inverted position a small flanged graduate C by means of a spring retaining device D, which can be made either of spring-wire, as shown in Fig. 3, or of spring sheet metal, preferably sheet-steel, as shown in Fig. 4. The adjacent faces of the flange *b* of the neck and the flange *c* of the graduate are preferably ground off, so that a tight fit between the neck of the bottle and the graduate is obtained, so that the latter can be used as a closure for the bottle without requiring a glass or cork stopper. On the body of the graduate is arranged a graduation, indicating by drops or other units the quantity of medicine as it is poured in. The retaining device D is either bent of two pieces of spring-wire, which form a neck-band *d*, a twisted shank *d'*, and a U-shaped fork d^2, or it is formed of sheet metal, with a spring neck-band *d*, shank *d'*, and fork d^2. For most purposes, especially for smaller bottles, the wire-retaining device is preferred, while for larger bottles the sheet-steel retaining device may be preferable. The wire fork d^2 hugs the body of the graduate and holds the same in position on the neck of the bottle. When the sheet-metal retainer is used, each tine of the same is preferably provided with a ridge *e*, which engages a corresponding raise or projection *e'* on the graduate. The forks in this form of retainer do not embrace the graduate, and hence do not spread apart on inserting or removing the graduate, but spring vertically, thus keeping the ridge on each side of the fork normally in engagement with the raise and retaining the graduate on the bottle-neck. When it is desired to use the graduate, the same is slipped off by pulling in the direction of the fork ends, so that the same give sufficiently to permit the removal of the graduate. The graduate is then placed in upright position and the required quantity of medicine poured into it from the bottle and the medicine taken either directly from the graduate or poured into and taken from a spoon. In most cases the graduate can be used directly for taking the medicine. After using, the graduate is replaced by slipping it back on the bottle-neck with the flange under the retaining device.

The advantages of my improved medicine-bottle are that the special corking of the medicine-bottle either by a glass or cork stopper is dispensed with, and at the same time a con-

venient means of measuring off and taking the medicine is provided at a small extra expense.

My improved graduate attachment for bottles may also be used in connection with bottles containing liquids other than medicines, as for alcoholic liquors and the like, in which case a slightly-modified retaining device can be used to conform to the special shape of either the bottle or the graduate employed.

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

1. The combination, with the neck of a medicine or other bottle, said neck having a flange at its top provided with a ground top surface, of an inverted graduate having an exterior flange ground on its face and adapted to be supported on the flange of the bottle-neck, and a retaining device applied to the neck of the bottle and adapted to retain the graduate in position with its ground flange-face contacting with the ground face of the flange of the bottle-neck, substantially as set forth.

2. The combination, with the neck of a medicine or other bottle, of a flanged inverted graduate placed thereon and provided with raised projections, and a retaining device consisting of a neck-band applied to the neck of the bottle, a shank, and a spring-fork for engaging said projections of the graduate, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

RICHARD FRANK.

Witnesses:
PAUL GOEPEL,
M. HENRY WURTZEL.