No. 705,018. Patented July 22, 1902.

A. C. BECHTOLD.

DROPPING ATTACHMENT FOR MEDICINE BOTTLES.

(Application filed Oct. 24, 1901.)

(No Model.)

Fig: 1.

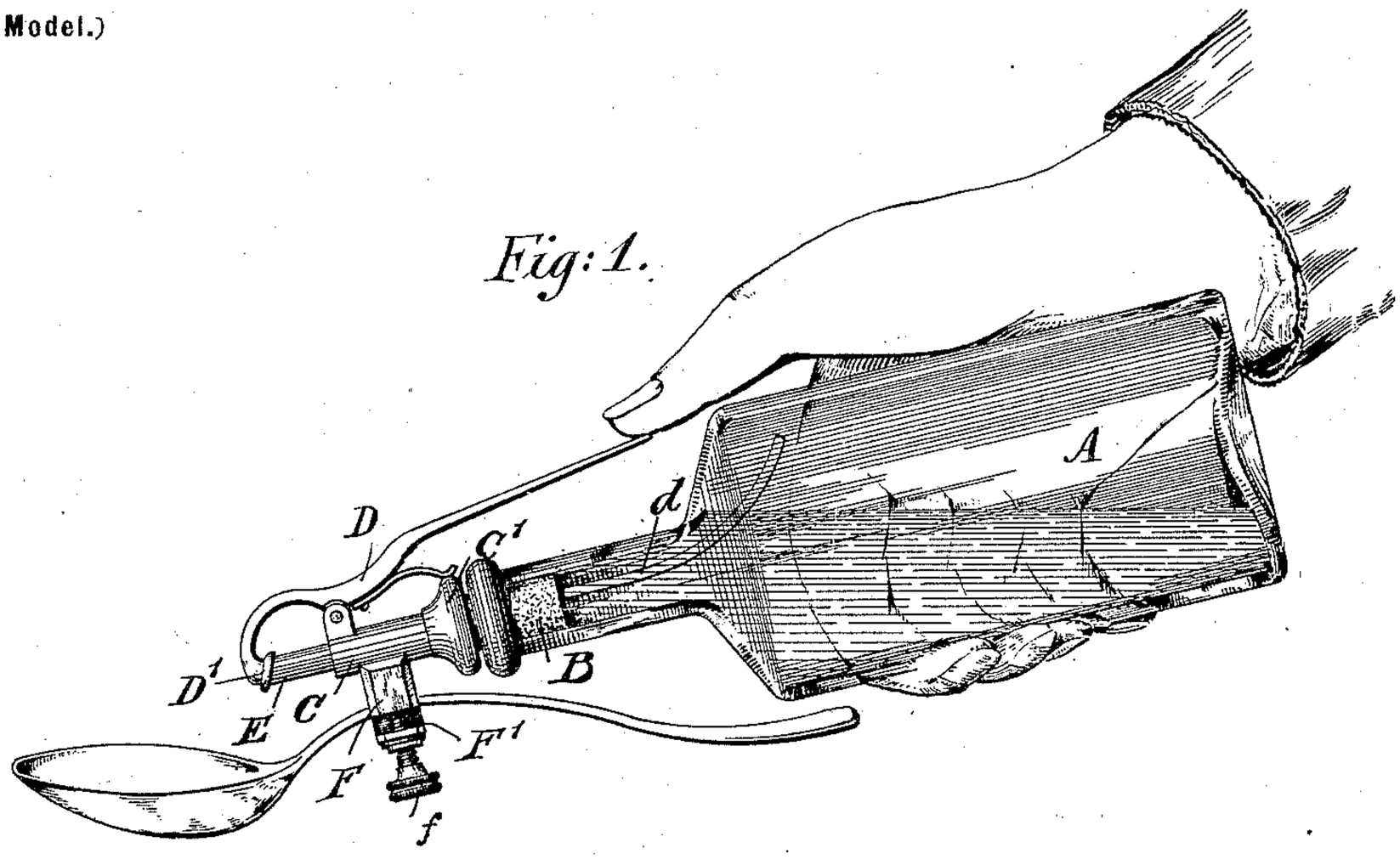


Fig: 2.

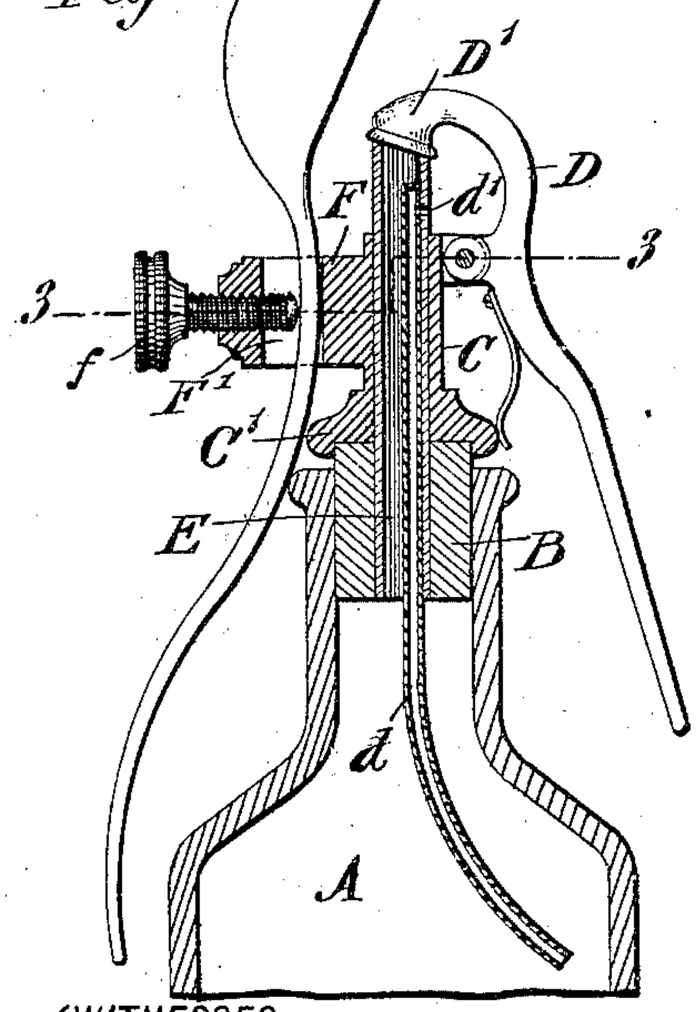


Fig: 4.

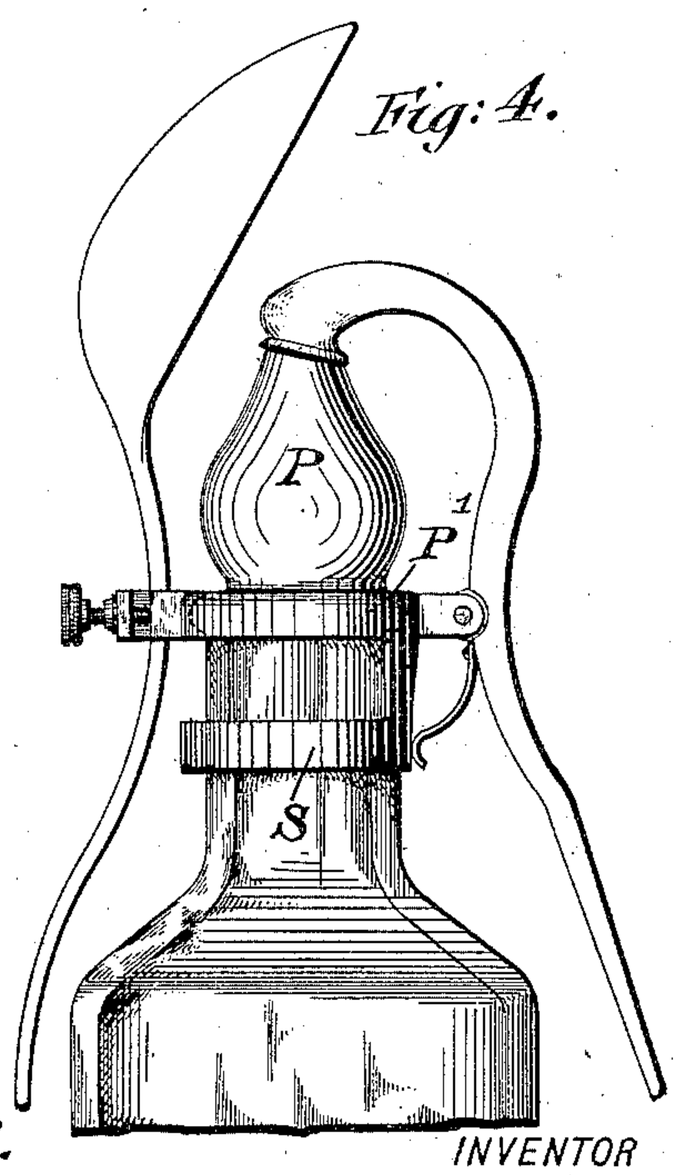
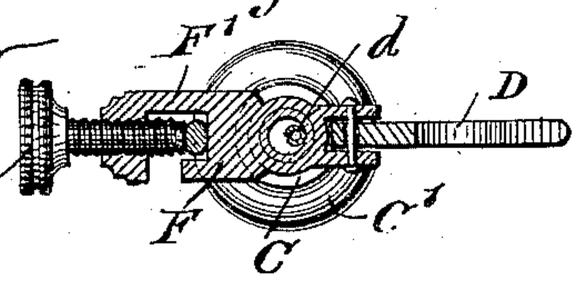


Fig: 3.



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DROPPING ATTACHMENT FOR MEDICINE-BOTTLES.

SPECIFICATION forming part of Letters Patent No. 705,018, dated July 22, 1902.

Application filed October 24, 1901. Serial No. 79,798. (No model.)

To all whom it may concern:

Be it known that I, AUGUST C. BECHTOLD, a citizen of the United States, residing in New York, borough of Brooklyn, and State of New York, have invented certain new and useful Improvements in Dropping Attachments for Medicine-Bottles, of which the following is a specification.

This invention relates to improvements in dropping attachments for medicine or other bottles by which the medicine can be conveniently poured into a spoon and then taken directly therefrom by the use of one hand, so that patients can conveniently attend to the taking of medicine by using one hand only. The dropping attachment also has the advantage that in giving medicine to children the medicine is dropped into the spoon and directly transferred to the mouth of the child without spilling; and for these purposes the invention consists of a dropping attachment for medicine-bottles, which comprises a spout applied to the mouth of the bottle, a valve at the end of the spout, a fulcrumed and spring-actuated lever for operating said valve, and a clamping device for holding the spoon applied to the opposite side of the spout in proximity to the discharge end of the same, so as to permit the dropping of the medicine from the spout into the spoon by opening the valve and taking the medicine without removing the spoon from the spout, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view showing my improved dropping attachment as used for dropping medicine into the spoon. Fig. 2 is a vertical transverse section through my improved dropping attachment, drawn on a larger scale. Fig. 3 is a horizontal section on line 3 3, Fig. 2; and Fig. 4 is a side elevation of a modified construction of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a medicine-bottle, and B the cork of the same.

C represents a spout of tubular shape provided with a cap C′, that extends over the cork, as shown in Fig. 2. The cork is provided with a small bent tube *d*, that passes through the center of the same into the bottle, the upper end of the bent tube *d* being connected with the opening *d′* in the spout near the discharge end of the same. The lower end is curved in an outward direction, so as to permit the ingress of air into the interior of the bottle while dropping the medicine. On one side of the spout C is fulcrumed at the top a spring-actuated lever D, which carries at its upper end a flat valve D′, which is provided with an elastic face and adapted to close the vent-tube E of the spout when no pressure is exerted at the end of the lever. On the opposite side to the lever D the spout is provided with a clamping device F for holding a spoon in position relatively to the discharge end of the spout. The clamping attachment is composed of a U-shaped portion F′, which is grooved on one side, so as to receive the shank of the spoon, while the opposite side is provided with a clamping-screw *f*, by which the shank of the spoon is pressed into the grooved end, so as to hold the same in position alongside of the attachment, as shown.

In operation my improved dropping attachment is applied to a medicine-bottle and a suitable spoon inserted in the clamping attachment at a proper relative position to the discharge end of the spout. The medicine-bottle is held in the hand, and the thumb is used to depress the lever, so as to partly or entirely move the valve from the discharge end of the spout, in order to discharge the liquid contained in the bottle, either in drops counted off or in a full flow, as required. As soon as the desired quantity is dropped the lever is released and the valve closed by the lever, actuated by the spring. The medicine is then directly taken from the spoon without removing the same, while the bottle is held in the hand, so that only one hand is required for dropping the medicine and taking it from the spoon. This is of great advantage when a patient has to use one hand only or when giving medicine to children, as the medicine is thereby quickly transferred to the mouth of the child before it realizes that medicine is to be given.

The dropping attachment, as shown in Figs. 1, 2, and 3, is made of silver or nickel-plated cast metal; but it can also be made of hard rubber or spun from sheet metal, as shown in

Fig. 4. In this case the tubular spout is dispensed with and in place thereof a cap P, with a discharge-opening, is used, said cap being attached to the neck of the bottle and retained on the same by its cylindrical base portion P′, while a spring neck-band S engages the neck and holds thereby the attachment in position on the neck. The arrangement of the lever-operated valve and the clamping device for the spoon remain the same as in Figs. 1 and 2. The sheet-metal construction of the dropping attachment can be furnished at a lower price than the cast form of the same and also forms a very convenient attachment for medicine-bottles for use in sick-rooms, hospitals, &c.

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

1. A dropping attachment for medicine-bottles, consisting of a tubular spout applied to the neck of the bottle, a valve for opening and closing said spout, a fulcrumed and spring-actuated lever for operating said valve, an air-tube arranged in said spout and communicating with an opening provided in the same adjacent the end thereof, a spoon-holding attachment formed with the spout so that the spoon can be adjusted in proper relative position to the end of the spout, substantially as set forth.

2. A dropping attachment for medicine-bottles, consisting of a tubular spout, a valve for opening and closing said spout, a fulcrumed and spring-actuated lever applied to one side of the spout and a spoon-clamping attachment at the opposite side so as to hold the bowl of the spoon in proper relative position to the spout, substantially as set forth.

3. A dropping attachment for medicine-bottles, consisting of a tubular spout applied to the neck of the bottle, an air-tube with closed upper end, an opening in the side of said spout communicating with said air-tube adjacent the closed end thereof, a spring-actuated lever having a valve for opening and closing said spout, said lever being fulcrumed to said spout and disposed parallel thereto, a supporting device for the spoon of U shape horizontal cross-section and being formed integral with the spout, and a clamping means provided therewith for adjustably securing the spoon in proper relation with the end of the spout, 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.

AUGUST C. BECHTOLD.

Witnesses:
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