No. 712,979. Patented Nov. 4, 1902.

C. W. TAYLOR.

INHALER.

(Application filed July 23, 1902.)

(No Model.)

Fig. 1.

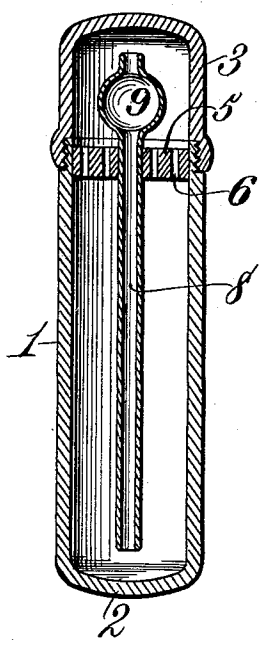



Fig. 2.

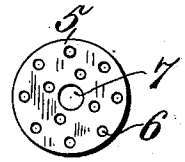



Fig. 3.

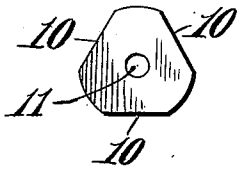
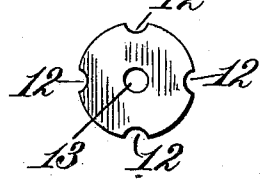



Fig. 4.




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# UNITED STATES PATENT OFFICE.

CLARENCE W. TAYLOR, OF SIOUX CITY, IOWA.

## INHALER.

SPECIFICATION forming part of Letters Patent No. 712,979, dated November 4, 1902.

Application filed July 23, 1902. Serial No. 116,706. (No model.)

*To all whom it may concern:*

Be it known that I, CLARENCE W. TAYLOR, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented new and useful Improvements in Inhalers, of which the following is a specification.

This invention relates to certain new and useful improvements in inhalers.

The object of the invention is to provide an improved inhaler of few parts, of practical utility, efficient in its use, and comparatively inexpensive to manufacture.

A further object of the invention is to produce an inhaler which can be closed by the placing thereon or the employment thereof of a single cap or cover and which is so constructed that when removed the inhaler will be ready for use, furthermore, the cap or cover closing both the ingress and egress of air to the inhaler when the cap or cover is in position.

With the foregoing and other objects in view the invention consists of the novel combination and arrangement of parts hereinafter more specifically described, illustrated in the accompanying drawings, and particularly pointed out in the claims hereunto appended.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views, and in which—

Figure 1 is a vertical sectional view of the inhaler with the cap or cover thereon. Fig. 2 is a detail view of the perforated closure-disk for the top of the inhaler. Figs. 3 and 4 are detail views of a modified form of cork closure-disk.

Referring to the drawings by reference-numerals, 1 denotes the body of the inhaler, which is substantially cylindrical in contour and provided with a closed bottom 2 and an open top. The periphery of the body portion 1, near the top edge thereof, is formed with screw-threads, which are adapted to engage the screw-threads on the inner face of the cap or cover 3. By this arrangement the cap or cover 3 is suitably connected to the body portion of the inhaler for closing the same. Other means may be employed for connecting the cap to the body portion 1 than that as disclosed.

The top of the body portion 1 has mounted therein a cork disk 5, provided with a series of perforations 6 and a centrally-arranged perforation 7, through which extends the inhaling-tube 8. The tube 8 extends to near the bottom 2 of the body portion 1 and is hollow with its lower end open and is further provided at its outer or upper end with a bulb portion 9, which is open. This bulb portion may be omitted and the tube made of a uniform diameter throughout. The tube 8 is supported by the cork disk 5, the perforations of the latter forming air-inlets for the admission of air to within the body portion 1 of the inhaler.

In Figs. 3 and 4 a modified form of cork disk for closing the top of the body portion 1 of the inhaler is shown. In Fig. 3 the cork disk is cut away at three parts, forming flat edges, the same and the walls of the body portion forming the air-inlets. The cut-away portions of the disk in Fig. 3 are designated by the reference-numeral 10. The disk in Fig. 3 is provided with a centrally-arranged opening 11 for the tube 8. In Fig. 4 the edges of the disk are formed with a series of concaved cut-away portions, as at 12, which, in connection with the inner face of the body portion 1 of the inhaler, form the air-inlets. The disk in Fig. 4 is provided with a centrally-arranged opening 13, through which extends the tube 8.

The body portion 1 of the inhaler I term the "container," and it may be constructed of any suitable material, preferably glass or hard rubber. The tube 8 may also be constructed of any suitable material, such as glass or hard rubber, as well as the cork disk 5. The cover or cap 3 is constructed of a single piece and easily removed from or connected to the body portion of the container and when connected to the latter closes the air-opening and the inhaler-tube, which keeps the latter free from dust, &c. The inhaler is ready for use when the cap is removed, as

no impractical parts are required to register or coöperate with the other parts.

An advantage possessed by the inhaler is that physicians can fill the same with their own medicaments prescribed for special cases.

It is thought the many advantages of my improved inhaler can be fully understood from the foregoing description, taken in connection with the accompanying drawings, and it will be noted that minor changes in the details of construction may be made without departing from the general spirit of my invention.

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

1. In an inhaler, a container having a closed bottom and an open top, a disk suitably cut away to form air-passages and secured within the container at the top thereof, an imperforate tube extending through the said disk to near the bottom of and projecting above the container, and a cap adapted to be connected to the inhaler for closing the same.

2. In an inhaler, a container open at its top and closed at its bottom, a disk arranged in the open top of said container and cut away to form air-passages, and an imperforate tube extending above and within the container to near the bottom thereof, said tube extending through and supported by the said disk.

3. In an inhaler, a container having the upper portion of its periphery screw-threaded, a disk secured within said container and cut away to form air-passages, an imperforate tube extending through said disk into and projecting above the said container, and a screw-threaded cap adapted to engage the screw-threads of the container for securing the said cap thereto.

4. In an inhaler, a container having an open top and a closed bottom, a perforated disk secured in said container near the top thereof, and an imperforate tube extending in said container to near the bottom thereof and having an enlarged upper end projecting above the container.

5. In an inhaler, a container, a disk secured within said container near the top thereof and cut away to form air-passages, and a tube extending in said container through the said disk and provided with an enlarged outer end projecting above the container.

6. In an inhaler, a container having a portion of its periphery screw-threaded, a disk mounted in said container and suitably cut away to form air-passages, a tube extending through said disk within the said container and having its outer end enlarged and projecting above the container, and a cap adapted to engage the said screw-threads for connecting it to the container.

7. In an inhaler, a body portion having an open top and an integral closed bottom, a disk secured within said container and cut away to form air-passages, and a tube extending through said disk into and projecting above said body portion.

8. In an inhaler, a container having an open top and a closed bottom, a disk secured within said container and cut away to form air-passages, a tube extending above and below said disk, and a cap for closing the upper end of said container and for inclosing the upper projecting end of said tube.

9. In an inhaler, a container, a perforated disk secured therein, a tube extending through said disk and projecting above and below the same, the outer end of said tube provided with a bulbous portion, and a cap for closing the upper end of said container and for inclosing the projecting bulbous portion of the said tube.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CLARENCE W. TAYLOR.

Witnesses:
DELOSS C. SHULL,
MUSA F. MCINTOSH.