May 18, 1926. 1,585,466

C. H. COLES

POCKET INHALER

Filed Sept. 18, 1923

Fig. 1.

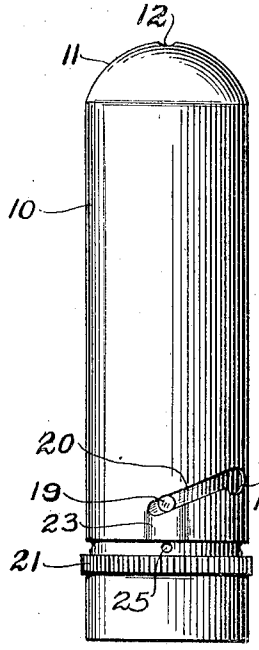


Fig. 2.

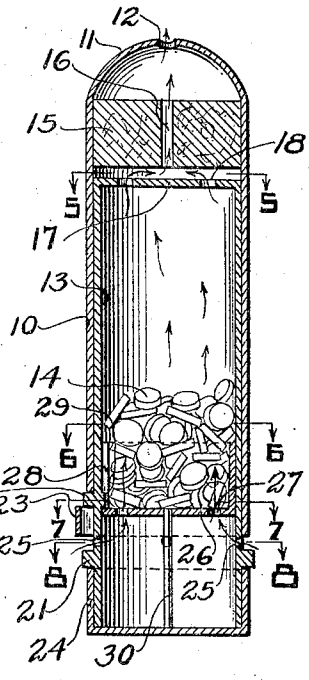


Fig. 3.

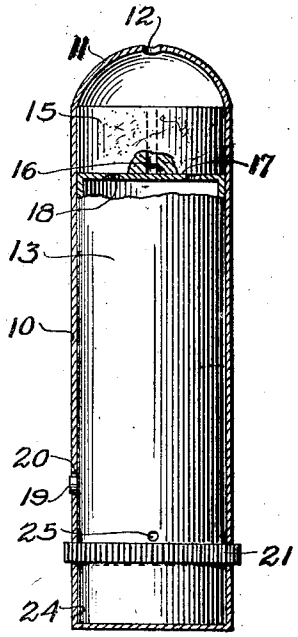


Fig. 4.

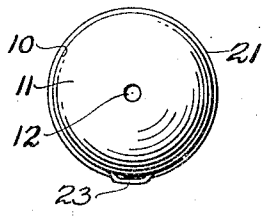


Fig. 5.

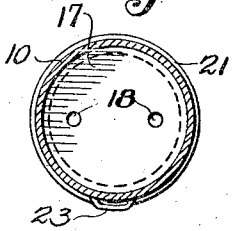


Fig. 6.

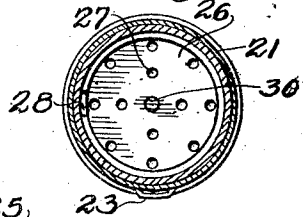


Fig. 7.

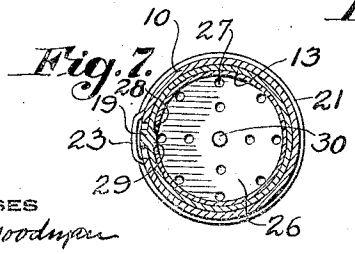
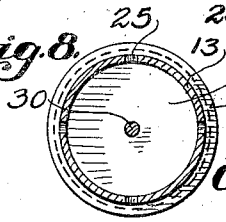


Fig. 8.



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UNITED STATES PATENT OFFICE.

CHARLES H. COLES, OF GAINESVILLE, FLORIDA.

POCKET INHALER.

Application filed September 18, 1923. Serial No. 663,384.

This invention relates to a pocket inhaler adapted to contain menthol, smelling salts or the like, and so constructed that when in use, it may be closed absolutely tight and no odor can escape, nor can the contents waste by evaporation, and it may be easily refilled as often as desired.

The object of the present invention is to provide an inhaler of this type in which the process of recharging is simplified, the opening and closing operation is rendered easier, and there is always a free and direct draft whenever the inhaler is in position for use.

The invention will be more particularly described in connection with the accompanying drawing, which illustrates the preferred form of the invention.

In the drawing:

Figure 1 is a side elevation of the invention.

Figure 2 is a central vertical section therethrough, with the parts in position for inhaling.

Figure 3 is a view similar to Figure 2, showing the inhaler closed.

Figure 4 is an end elevation.

Figure 5 is a section taken on the line 5—5 of Figure 2.

Figure 6 is a section taken on the line 6—6 of Figure 2.

Figure 7 is a section taken on the line 7—7 of Figure 2.

Figure 8 is a section taken on the line 8—8 of Figure 2.

The inhaler which comprises my invention, includes an outer shell 10 having one end rounded, as shown at 11, and provided with an opening 12 through which the contents are inhaled. The other end of the shell 10 telescopically receives the cylindrical body portion 13, which is adapted to contain the smelling salts, menthol or other medicinal preparation 14. The inner end of the shell 10 contains a plug 15 of cork or similar yieldable material, through which extends a passageway 16. The adjacent end 17 of the container 13 is provided with one or more perforations 18, which are out of registry with the passageway 16, so that when the container is fully inserted within the shell 10, the head 17 presses against the plug 15 and absolutely prevents any draft through the passageway 16 and outlet 12.

The container 13 is provided near its outer end with a lug 19, which rides in an inclined slot 20 in the wall of the shell 10, and a flange 21, preferably knurled, is formed on the periphery of the container 13 outside of the shell 10, whereby the container may be rotated so that the lug 19 riding in the inclined slot 20 will advance or retract the container in the shell 10 to open or close the passageway 16. A small notch 22 may be provided in the upper end of the slot 20, so as to better retain the lug 19 with the parts in closed position. A groove 23 is formed in the lower end of the shell 10 adjacent the slot 20, and the lug 19 may be slid through the groove when it is desired to move the container 13 from its shell. The container is closed by a cap 24, which fits snugly and is practically air-tight, so that the draft through the container must pass inwardly through the openings 25, which are located just above the knurled flange 21 and are uncovered whenever the lug 19 is moved to the lower end of the slot 20, but when the lug is moved into the notch 22, the holes 25 are covered by the lower end of the shell 10 and the holes 18 are also covered by the plug 15, so that the draft is cut off from both sides of the tablets or smelling salts within the container.

In order to support the tablets 14 above the bottom of the container, so that they will be in the direct line of draft through the same, I have provided an inside cap 26, which is provided with a plurality of perforations 27 to permit a free draft therethrough. This cap fits snugly within the container 13, and is preferably provided with a slot 28 in its side which engages with an inwardly projecting lug 29, so as to guide the cap within the container and form an abutment against which it may rest. The cap 26 is also provided with a stem 30 for manipulating the same, when it is desired to recharge the container. This stem also forms a means for supporting the cap from the outer cover 24.

From the foregoing description it will be apparent that the device may be easily manipulated to open or close the draft, that the tablets 14 are supported in a position to produce a maximum effect, and that when the device is closed it is absolutely tight and there is no waste of the contents.

While I have shown and described the specific details of construction by means of which the invention is carried out, it will be understood that this is merely illustrative, and that various modifications may be made

in the size, proportion and arrangement of the various parts without sacrificing any of the salient features of the invention as expressed in the claims.

What is claimed is:

1. In a pocket inhaler, the combination of a shell having one end perforated and the other end open, a container telescopically received in the open end of said shell and having its outer end closed by a removable outer cap, a perforated inner cap fitting within the container and spaced from the outer cap and defining an inner cavity for containing a medicinal preparation, the inner cap having a slot in its side, an internal lug on the container engaging the slot to limit the inward movement of the inner cap, means on the inner cap engageable by the outer cap for retaining the inner cap in position, and adjustable means for optionally establishing a draft longitudinally through the inner cap and the inner cavity and through the perforated end of the shell.

2. In a pocket inhaler, the combination of a shell having one end perforated and the other end open, a container telescopically received in the open end of said shell and having its outer end closed by a removable outer cap, a perforated inner cap fitting within the container and spaced from the outer cap and defining an inner cavity for containing a medicinal preparation, the inner cap having a slot in its side, an internal lug on the container engaging the slot to limit the inward movement of the inner cap, a stem on the inner cap engageable by the outer cap to retain said inner cap in position, an inclined pin and slot connection between the shell and container, whereby a rotation of the container within the shell causes a relative longitudinal movement thereof which is operable to open or close the draft longitudinally through said inner cap and said cavity and through the perforation in the end of the shell.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature.

CHARLES H. COLES.