

UNITED STATES PATENT OFFICE

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CONTAINER AND DISPENSER FOR SALVE AND THE LIKE

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My invention relates broadly to medicinal devices and more particularly to the construction of a device for medicinally treating parts of the body.

One of the objects of my invention is to provide a construction of tube providing a container for medicated petrolatum, vaseline, salve or ointments, the tube being shaped for conveniently introducing the medicated contents into the nasal, rectal or vaginal or other passages of the body.

Another object of my invention is to provide an inexpensive construction of conical shaped collapsible container having means for sealing a medicated composition therein sufficient for one body treatment, the container being discarded after such treatment.

A further object of my invention is to provide a construction of medicinal device having a conical shaped container for a medicated composition having a moisture proof coating thereon for the protection of the contents preparatory to the application of the medicated composition to the passages of the body.

A still further object of my invention is to provide a construction of multi-walled, flattened and tapered grease proof collapsible container shaped to fit the passages of the body to be treated by the contents of the container, the end of the container being severable for squeezing out the contents of the container into the passages of the body.

Other and further objects of my invention reside in the structure of medical device as set forth more fully in the specification hereinafter following by reference to the accompanying drawing, in which:

Figure 1 is a plan view of the sheet of material from which the improved container of my invention is constructed; Fig. 2 is a horizontal sectional view taken on line 2—2 of Fig. 1; Fig. 3 is a detailed perspective view of the completed tube; Fig. 4 is a longitudinal sectional view of the tube shown in Fig. 3 on an enlarged scale; Fig. 5 is a horizontal sectional view taken on line 5—5 of Fig. 4; Fig. 6 is a side elevation of my improved tube completely finished, filled with medicated material and the upper end

closed with a strip of metal clinched thereon; Fig. 7 is an end elevation thereof; Fig. 8 is a transverse vertical sectional view taken on line 8—8 of Fig. 6 with the multi-walled structure being shown as a single thickness for the sake of clarity; Fig. 9 is a sectional view showing the tube as applied, the multi-walled structure again being shown as a single thickness for simplification; and Fig. 10 is a detailed perspective view of the clinching strip employed in connection with my improved tube.

Referring to the drawing in more detail, reference character 1 designates the paper sheet from which the container is formed. The paper is chemically treated to render it grease proof by means of a coating of nitro-cellulose compound such as a solution of gun cotton, the coating being represented at 2 on both sides of the sheet 1. I apply a second coating over the nitro-cellulose compound coating on one side only of the sheet as represented at 3 in the form of lacquer. Fig. 2 shows in cross section the manner in which the coating of lacquer 3 is spread over the surface of the nitro-cellulose compound. While the lacquer is still wet the paper sheet 1 is rolled upon a mandrel into the shape of a flattened cone as shown in Fig. 3. The lacquer serves as an adhesive material between the layers of the folds and insures the uniting of the several layers in a moisture tight manner. The mandrel upon which the conical shaped container is wrapped is not circular but is flattened so that the container will have such a shape as will more readily conform to the shape of the parts of the body to be treated.

The container when wrapped as shown in Fig. 3 has a multi-ply-wall structure as represented at 4 for avoiding any tendency of seepage of the contents through the walls of the container. The cross-sectional view of Fig. 4 illustrates clearly the several thicknesses of the container wall as represented at 4 for insuring the moisture tight character of the casing. In the zone indicated at 5 the wall has a double thickness. At 6 the wall has three thicknesses while at 7 the wall has four thicknesses. Fig. 5 is a cross-

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sectional view on line 5—5 of Fig. 4 showing the flattened or distorted shape of the container 4 by which the container is made to more readily conform to the nasal, rectal or vaginal passages of the body.

In Figs. 6, 7 and 8 I have shown the manner of sealing the upper end of the container 4, the ends being brought together flat as shown at 8 after the filling operation during which the salve-like contents 10 is deposited into the conical shaped container. After the filling operation, the ends 8 which are brought together are clinched by means of the metallic V shaped deformable strip 11. The strip 11 is shown more clearly in Fig. 10 preparatory to application to the end of the tube and prior to the clinching operation. The parallel edges of the tube 4 are united in immediate contact and secured together by the deformable strip 11 as clearly shown in the cross-sectional view in Fig. 8.

Fig. 9 illustrates the manner of using the device of my invention. The end of the tube 4 is cut off at 12 adjacent the pointed end of the container and the tube 4 inserted in the nasal, rectal, vaginal or other passages of the body which is designated generally at 14. The side walls of the tube 4 are flexible and collapsible so that pressure exerted by the fingers at 15 operates to squeeze the contents 10 out through the cut end 12 for discharge as shown at 16. The tube may contain medicated material sufficient for one treatment and then may be discarded, thereby rendering the treatment sanitary at the same time inexpensive.

While I have shown a container which is constructed from paper, it will be understood that the container may be made of rubber, collapsible tin, gelatin or other substances. I have found the particular embodiment of the invention as illustrated highly practical in its manufacture, production and use but I realize that changes in shape and details of arrangement may be made and I desire that it be understood that modifications of the structure of my invention are contemplated and may be made within the scope of the appended claims without departing from the spirit of my invention.

What I claim as new and desire to secure by Letters Patent of the United States is as follows:

1. A container and dispenser for medicinal compositions comprising a paper sheet, a coating of nitro-cellulose compound on said paper sheet, a coating of lacquer extending over said coating of nitro-cellulose compound, said sheet being wound upon itself in the form of a conical shaped container with the lacquer serving to unite the parts of the sheet for forming a multi-walled structure, the end of said conical

shaped container being severable for effecting the discharge of the medicated composition from the container, and means for securing the upper ends of said walls into immediate contact one with the other.

2. A container and dispenser for medicinal compositions comprising a paper sheet, a grease proof coating on both sides of said paper sheet and adhesive coating extending over the grease proof coating on one side of said paper sheet and serving to unite the parts of the sheet in the form of a conical shaped container for medicinal compositions, the end of said container being severable and a flat clinched strip for securing the upper ends of the wall of said container together for enclosing the medicinal composition contents within said container.

3. A container and dispenser for salve-like compositions comprising a sheet of flexible material, a grease proof coating on each side of said sheet of flexible material and adhesive coating extending over one side of the grease proof coating and serving to unite the sheet of material into conical shape for providing a container for salve-like compositions, the end of said container being severable for effecting the discharge of the salve-like contents from said container and the walls of said container being flattened laterally toward the upper end thereof, and means for clinching the upper ends of the walls for enclosing the salve-like contents within the container.

4. A container and dispenser for salve-like compositions comprising a sheet of pliable material, a grease proof coating on each side of said sheet of pliable material, a coating of adhesive extending over the grease proof coating on one side of the grease proof coating for uniting the sheet in layers for forming a conical shaped container, the apex of said container being severable for the discharge of salve-like contents therefrom, and a V-shaped metallic clinching strip engaging the upper end of the wall of said container for substantially flattening said container in a lateral direction, whereby collapsing of the upper portions of the walls of said container operates to eject the salve like contents of said container through the severed apex thereof.

In testimony whereof, I affix my signature.

RUDD BLAUVELT.