

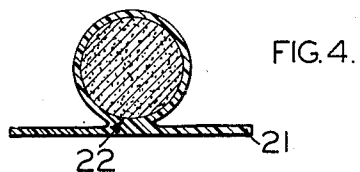
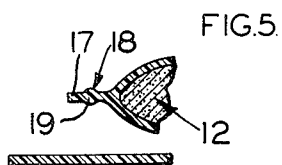
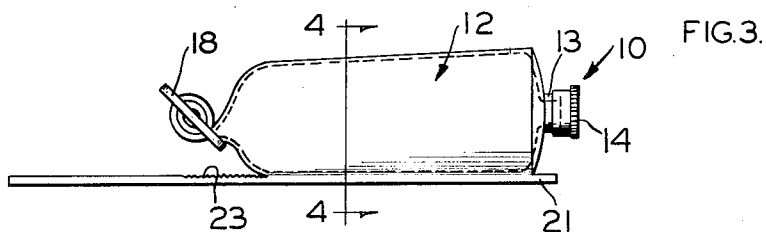
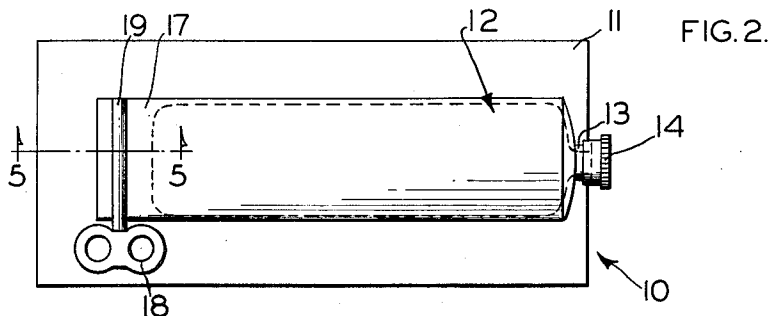
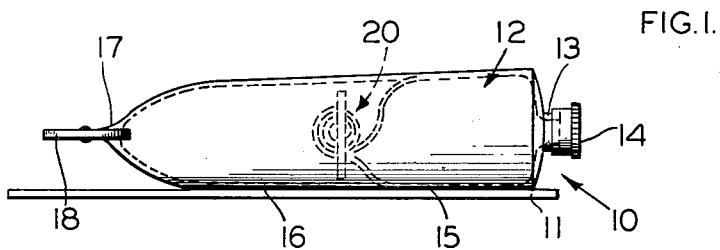
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COLLAPSIBLE TUBE AND HOLDER THEREFOR

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UNITED STATES PATENT OFFICE

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COLLAPSIBLE TUBE AND HOLDER
THEREFOR

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5 Claims. (Cl. 222-100)

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This invention relates to an improvement in a dispensing device. More specifically this invention relates to a collapsible tube having an improved holder by which the tube may be held during the collapsing and dispensing operation.

It is a prime object therefore to provide an improved holder for a collapsible tube, the holder comprising a relatively flat and thin base to which the tube is releasably connected.

Another object is to provide an improved collapsible tube holder which is held in assembly with the tube by means of a pressure sensitive adhesive, the tube including a turnable key whereby the tube may be collapsed and the portion thereof which is rolled upon the turning of the key is released from the holder.

A still more specific object is to provide an improved collapsible tube dispenser having a base member releasably connected thereto, the tube including a key which is integral with the tube for collapsing the tube and for releasing the tube from the holder.

A still further object is to provide an improved collapsible tube holder which is held in assembly integrally with the collapsible tube, the tube including means for collapsing the same and for simultaneously breaking the collapsed portion of the tube free of the holder.

These and further objects will become more readily apparent from a reading of the specification when examined in connection with the accompanying sheet of drawing.

In the drawing:

Figure 1 is a side elevational view of a collapsible tube and holder therefor;

Figure 2 is a plan view of the tube and holder shown in Figure 1;

Figure 3 is a plan view of a modified collapsible tube dispenser and holder therefor;

Figure 4 is a sectional view taken along the line 4-4 of Figure 3; and

Figure 5 is a sectional view taken along the line 5-5 of Figure 2.

Referring now to Figures 1, 2 and 5, a dispenser is generally designated by the reference character 10. This dispenser 10 comprises a flat base or holder 11, this holder being made of any suitable relatively stiff material for supporting a collapsible tube 12. The collapsible tube 12 comprises a reduced section or neck 13 to which a conventional cover or neck 14 is connected.

The lower edge or surface 15 of the tube 12 is fastened to the base 11 by means of an adhesive 16. The adhesive 16 firmly connects the tube 12 and base 11 in assembly, and the adhesive 16 may

be of the pressure releasable type or it may consist of any satisfactory compound that will provide strong but releasable adherence.

One end of the tube 12 is provided with a thin flat section 17 which is integrally formed with a key 18 having a stem 19 extending laterally across the flat section 17. The tube 12 and the key 18 may be of integral cast or plastic material of a type particularly effective in a collapsible tube construction.

During use the key 18 is turned and the tube 12 is collapsed and rolled as indicated at 20 in Figure 1 whereupon the material within the tube is ejected through the neck 13. During this use the operator firmly grips laterally spaced edges of the base 11 which project laterally outwardly with respect to the tube 12. In this manner he can firmly grip the tube 12 and hold the same while the key 18 is turned for collapsing the tube. The collapsed portion of the tube 12 as indicated at 20 is broken or released free of the base 11.

The modified dispenser shown in Figures 3 and 4 is similar to the one above described, including however a base 21 which is integral with the tube 12. This type of construction can adequately be made by a well-known molded plastic operation. When the key 18 is turned here the relatively thin section 22 which holds the tube 12 to the base 21 is broken free as indicated at 23 in Figure 3.

Thus an improved collapsible tube dispenser and a modification thereof has been described. This type of dispenser is particularly well adapted for dispensing semi-fluid materials such as toothpaste, paint pigments, chemicals, medicines, etc. The holder is effective to firmly support the tube while it is being collapsed. An ancillary use of the base may be for descriptive matter, advertising, etc.

Thus the objects of the invention have been fully achieved and it must be understood that changes may be made in the construction without departing from the spirit of the invention as disclosed nor the scope thereof as defined in the appended claims:

What is claimed is:

1. In a dispensing device, a substantially flat holder, a collapsible tube positioned on said holder, said tube comprising a longitudinally extending body having at one end a reduced neck portion and a closure member for said neck portion, a relatively flat portion on the opposite end of said tube, a turnable key connected to said flat end portion, and an adhesive substantially coextensive on one side of said body of said tube,

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said adhesive adhering to the flat portion of said holder for releasably securing said tube and holder in contiguous and parallel assembly, the key being turnable for collapsing and rolling said tube whereby the rolled portion of the tube is released from adherence with the holder.

2. In a dispensing device in accordance with claim 1, wherein the key is an integral part of the flat portion of the collapsible tube.

3. In a dispensing device in accordance with claim 1, wherein the key includes a stem extending laterally of the flat portion and being integral therewith.

4. In a dispensing device, a holder comprising a flat base, a collapsible tube on said base, said collapsible tube including a longitudinal body having a substantially flat portion at one end, a key connected to said flat portion, and an adhesive substantially coextensive with one side of said body and adhering to said body and said flat base for connecting said tube and said base in contiguous and parallel relation, said key being turnable for collapsing and rolling said tube whereby the rolled portion breaks free of the adhesive connection with respect to said base.

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5. In a dispensing device, a holder comprising a flat relatively thin base, a collapsible tube on said base, said tube including a longitudinally extending body having a relatively flat portion at one end, a key on said flat portion, and means releasably connecting said tube to said base in contiguous and parallel relation, said means including a wall on said body integral with said relatively thin base, said key being turnable for collapsing and rolling said tube whereby the integral wall of rolled portion breaks free from said base.

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