Dec. 21, 1948. C. ARP 2,457,024

COLLAPSIBLE TUBE HOLDER

Filed Feb. 13, 1945

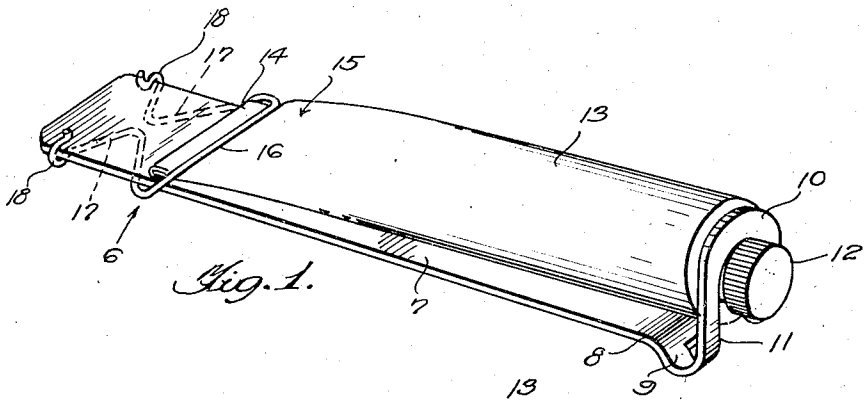


Fig. 1.

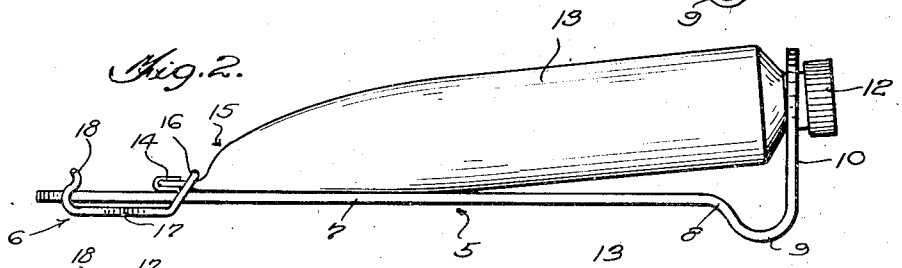


Fig. 2.

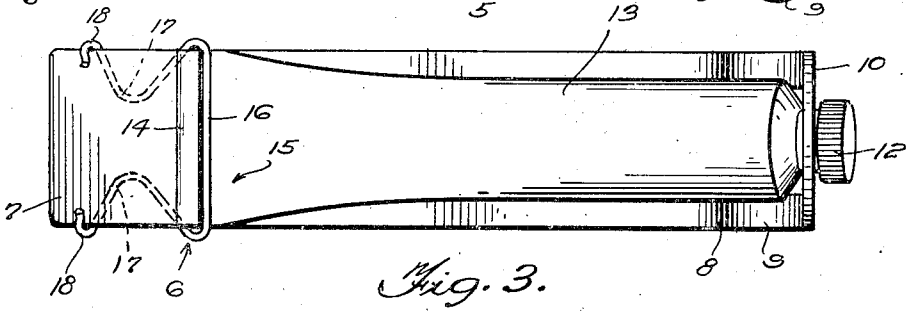


Fig. 3.

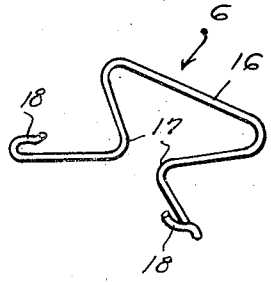


Fig. 4.

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COLLAPSIBLE TUBE HOLDER

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2 Claims. (Cl. 248—108)

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This invention relates to a novel and improved holder for a collapsible tube of the type used for packing and subsequently dispensing creams, pastes, and similar commodities, the same being so designed and constructed as to expedite assured dispensing of the entire usable contents from said tube.

Briefly, the preferred embodiment of the invention is characterized by a base plate having a lateral adapter at one end, the latter to accommodate the usual screw capped discharge neck of the tube, said plate having, at the opposite end, a slidable clip fashioned to securely clamp the cleated end or butt of the tube in a manner to facilitate expressing of the contents from the latter by pressure from the thumb of the user.

Structurally speaking, one phase of novelty has to do with the aforesaid plate, this being of elongated rectangular form and provided at the dispensing end with a laterally bent adapter the latter being so made as to effectively receive and hold in place the capped discharge end of the tube.

Novelty is also predicated upon the anchoring and chock fixture or clip, this being constructed for slidable use on said plate and having a portion saddled over the adjacent end of the tube to serve in a manner to be hereinafter specifically described.

Other features and advantages will become readily apparent from the following description and the accompanying illustrative drawings.

In the drawings, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is a perspective view of a collapsible tube holder constructed in accordance with the principles of the present invention, showing the manner in which it functions.

Figure 2 is a side elevational view of the same.

Figure 3 is a top plan view.

Figure 4 is a perspective view of the slidable anchoring and chock clip.

Referring now to the drawings by distinguishing reference numerals, it will be seen that the base plate, as a unit, is denoted by the numeral 5, while the slidable chock clip is denoted by the numeral 6.

The plate comprises an elongated, flat, rectangular body portion 7 whose outer end is bent, as at 8, to define a limited curvate transversely disposed bend 9. The terminal is bent laterally to assume a position at right angles to the body, this as indicated at 10. The terminal 10 is cut out or notched, as at 11, and therefore functions

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as a keeper and adapter for the capped discharge neck 12 of the conventional collapsible tube 13. The adapter may be said to be substantially horseshoe-shaped in configuration, and it embraces the neck in the manner shown in the drawings.

The retaining and chock clip 6 coacts with the usual closing cleat 14 on the compressible end portion 15 of the tube. This clip is characterized by an intermediate portion 16 which saddles over the cleat 14 and a pair of V-shaped limbs or arms 17 which underlie the plate for assembling and retention purposes. The arms terminate in hook-like holders 18 which engage over the top surface of the plate as illustrated.

It is evident that, in use, the tube is placed flat on the body 7 of the plate. The capped neck is fitted through the opening in the horseshoe-like adapter 10, the latter then serving to retain said neck-equipped end in place as the contents is expunged therefrom. The clip 6 is slipped over the opposite end of the plate and held slidably in position by the coacting hooks 18 and detents 17. The central portion of the clip is laterally offset and engages over the end portion 15 of the tube inwardly of the cleat 14. Thus, in using the device, a thumb of the user is pressed against the area 15 when the cap is removed, whereby the cream, paste, or other contents are squeezed out in the customary manner. As the cleated end is flattened by expunging of the cream from the tube, the clip is slid along to serve as a follower and chock, as is evident. In other words, said clip holds the cleated end down on the plate and also prevents the contents from "backing up" into said cleated end after once expressed therefrom. It is evident that the clip is not a squeezing device, but merely a tube-end retainer follower and chock means.

It is thought that persons skilled in the art to which the invention relates will be able to obtain a clear understanding of the invention after considering the description in connection with the drawings. Therefore, a more lengthy description is regarded as unnecessary.

Minor changes in the shape, size and arrangement of details coming within the field of invention claimed may be resorted to in actual practice, if desired.

I claim:

1. As a new article of manufacture and as a component part of a collapsible tube holder of the class described, an elongated flat plate forming a collapsible tube accommodating and supporting base, said plate being fashioned and

formed at one end into a transverse, curvilineal bend, said bend including a bight portion projecting laterally from and disposed on a plane below the underside of the plate and a limb portion of the bend terminating in a laterally directed portion apertured and forming a horseshoe-shaped tube neck adapter, said adapter being at right angles to the plate to accommodate and permit passage of said neck equipped end and the opposite end portion of said plate being rectilinearly straight, longitudinally viewed, and transversely flat in order to accommodate a slidably mounted manually shiftable tube anchoring clip.

2. A collapsible tube holder of the class described comprising an elongated flat plate forming an accommodating base for the collapsible tube, said plate terminating in an apertured projection disposed at right angles to the plate and serving to accommodate the usual neck and cap equipped end of said tube, and a wire clip bent between its ends to provide a substantially U-

shaped saddle, said saddle being engageable with an adjacent end portion of the tube when the tube is in place on said plate, said clip including a pair of opposed and coacting V-shaped detents, the free ends of the wire being fashioned into hooks and said hooks being engageable with and slidable on the longitudinal edge portions of the plate.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,433,167	Worden	Oct. 24, 1922
1,638,159	Hopewell	Aug. 9, 1927
1,860,662	Dunell	May 31, 1932
1,992,442	Revelle	Feb. 26, 1935
2,340,681	Oursler	Feb. 1, 1944