May 27, 1969 P. SAKWA 3,446,468

HANGER FOR FLEXIBLE TUBE CONTAINERS

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Fig. 1.

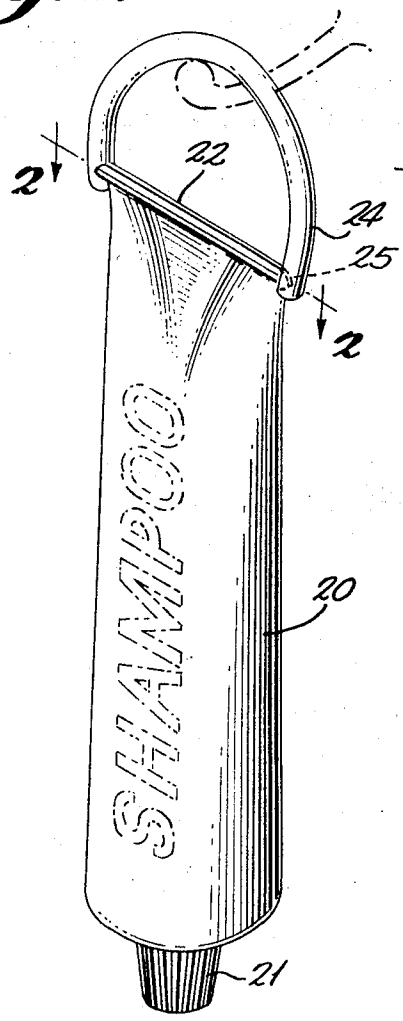


Fig. 2.

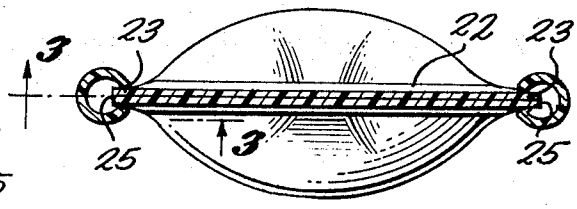


Fig. 3.

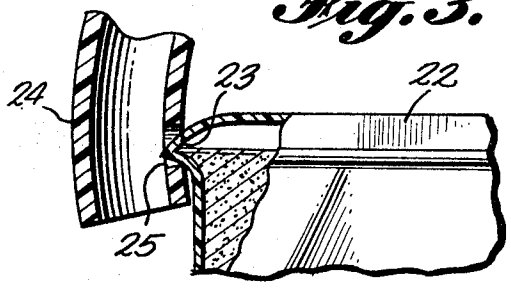


Fig. 4.

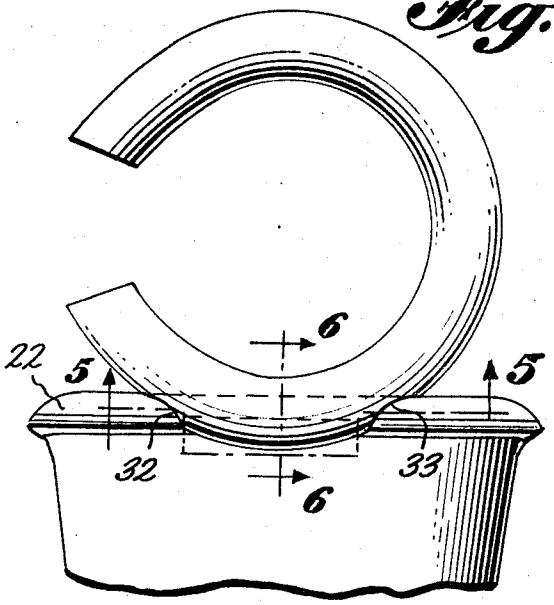


Fig. 5.

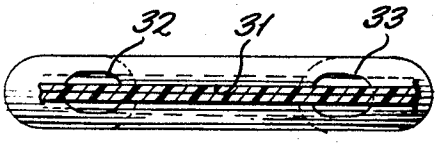
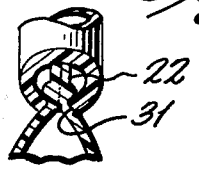


Fig. 6.



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Fig. 7.

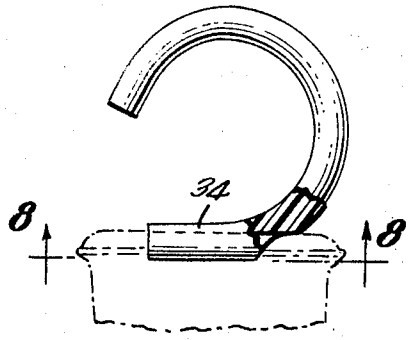


Fig. 8.

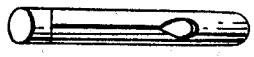


Fig. 9.

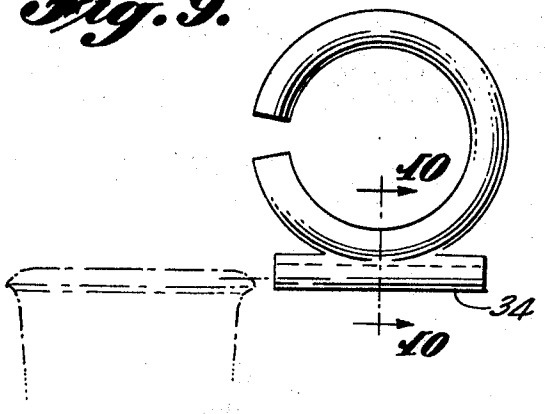


Fig. 10.

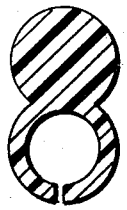


Fig. 11.

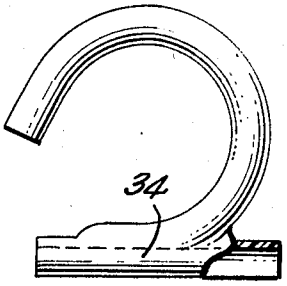


Fig. 12.

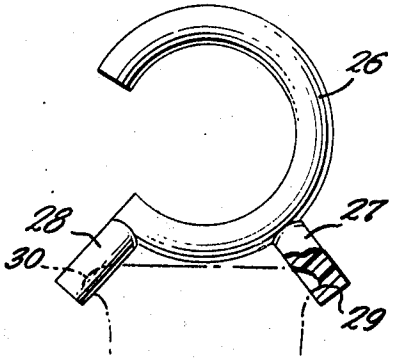


Fig. 13.

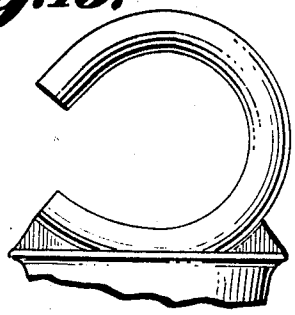
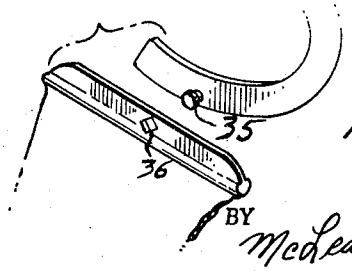


Fig. 14.



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HANGER FOR FLEXIBLE TUBE CONTAINERS

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Filed Feb. 24, 1967, Ser. No. 618,402
Int. Cl. B65d *35/08*
U.S. Cl. 248—108 1 Claim

ABSTRACT OF THE DISCLOSURE

A hanger for attachment to the base of a flexible tube for suspending it from a rod or holder.

Description of the invention

The invention will be described with reference to the two attached sheets of drawings wherein:

FIGURE 1 shows one variation of my hanger attached to a flexible plastic tube and suspended from a single arm bathroom fixture;

FIGURE 2 is a cross-section taken on lines **2**, **2** of FIGURE 1;

FIGURE 3 is a partial section taken on lines **3**, **3** of FIGURE 2;

FIGURE 4 shows a second variation of my tube attached to a plastic tube;

FIGURE 5 is a section taken on lines **5**, **5** of FIGURE 4;

FIGURE 6 is a section taken on lines **6**, **6** of FIGURE 4;

FIGURE 7 shows a third variation of my hanger;

FIGURE 8 is a view taken on line **8**, **8** of FIGURE 7;

FIGURE 9 is a fourth variation of my hanger;

FIGURE 10 is a section taken on lines **10**, **10** of FIGURE 9;

FIGURE 11 is a fifth variation of my hanger;

FIGURE 12 is a sixth variation of my hanger;

FIGURE 13 is a seventh variation of my hanger; and

FIGURE 14 is an eighth variation of my hanger.

This invention relates to a hanger for the common flexible plastic tube which is today used for packaging a wide variety of consumer products. Illustrative of these products are shampoos, liquid soaps, bath oil, skin cleaners, medicaments, creams, lotions, food spreads, condiments, and lubricating products. Such a tube is illustrated at **20** in FIGURE 1. One end of the tube will conventially contain a cap, **21**, cooperating with a spout, not shown, itself attached to the tube by a circular disk. The other end of the tube, **20**, will be closed after the product is inserted in the tube by a crimping and heat-sealing process. This forms a base, **22**, which is both longer than the diameter of the tube and is thicker than both wall sections of the tube.

The two variations of my hanger shown in FIGURES 1 and 12 utilize the protuberances **23** of base **22** for attaching to the tube. The variation shown in FIGURE 1 may be a hollow plastic tube **24**, formed in a semicircle,

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the extreme inward portions of which contain apertures **25** for receiving the protuberances **23**.

The variation shown in FIGURE 12 comprises a semicircular-shaped hook portion **26** of either tubular or solid plastic material and two short legs **27** and **28**. These legs each contain indented portions **29** and **30** for receiving the protuberances **23** of the tube base **22**. The plastic material will contain sufficient resiliency so that legs **27** and **28** may be spread apart for slipping over the base member as desired.

Variations of my hanger shown in FIGURES 4, 7, 9, and 11 utilize the enlarged cross-sectional area of base **22** for attachment to the tube.

The variation shown in FIGURE 4 comprises a semicircular tubular member, open at the side, and containing a slit **31** at the bottom terminating with apertures **32**, **33**. The variations shown in FIGS. 7, 9, and 11 all contain a horizontal bottom portion **34** with a similar slit at the bottom. As shown in FIG. 10, the hanger shown in FIG. 9 may have a solid, and therefore stiffer, semicircular element, attached to the hollow horizontal member. All of these hangers slip over and grasp the base as shown in FIG. 6.

The variation shown in FIG. 13 is designed for integral molding with the plastic tube at the time of sealing the base.

The variation shown in FIG. 14 contains a button **35** which snaps into hole **36** which has been stamped out of the base of the tube.

Having described my invention, I claim:

1. A unitary detachable plastic hanger for suspending a flexible plastic tube, having an enlarged axial base portion, by said base from a rod or holder comprising:

(a) a hollow tubular base portion slit at the bottom for encirclement of the enlarged axial base portion of the flexible plastic tube;

(b) said hollow tubular base portion containing enlarged apertures at each end of the slit for insertion of the enlarged base portion of the flexible plastic tube into the tubular base portion.

(c) a semicircular hook integrally attached to said hollow tubular base portion, said hook containing an opening on one side whereby the hook and attached flexible plastic tube may be slid over and hung from a rod or holder.

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DONALD F. NORTON, *Primary Examiner.*