



1

2

3,512,896

## HOLDERS FOR PROTECTING STICKS OF PASTY MATERIALS

Ralph Gruska, Saint-Maur, Val-de-Marne, France, assignor to Ejectoret S.A., Geneva, Switzerland, a corporation of Switzerland

Filed July 10, 1968, Ser. No. 743,666

Claims priority, application France, July 12, 1967,

114,026

Int. Cl. A53 40/06, 40/12

U.S. Cl. 401—78

5 Claims

### ABSTRACT OF THE DISCLOSURE

A holder for sticks of pasty materials, such as cosmetics, make-up and the like, having a pair of relatively rotatable coaxial sleeves defining slots, a stick support adapted to move axially within the inner sleeve, and lugs on said stick support projecting through said slots and being in resilient pressure engagement with at least one of said slots.

This invention concerns holders for protecting sticks of pasty materials such as make-up, pomades, cosmetics, pharmaceutical or veterinary products and the like, of the type comprising two coaxial sleeves which can turn one relatively to the other and a stick support or godet for a stick which is movable in the inner sleeve and which carries a lug extending through a slot in the inner sleeve and also engaged in a slot in the outer sleeve, one of these two slots being longitudinal and the other helicoidal, the holder being closed by a removable cover.

In holders of the kind in question it is desirable to avoid the outer sleeve turning on the inner sleeve, due to vibrations, so that the stick support or godet would approach the cover, an occurrence which would risk bringing the end of the stick into contact with the bottom of the cover against which it would be undesirably deformed.

To this end according to the invention each lug on the stick support is so dimensioned as to exert a pressure against one at least of the slots of the sleeves and is formed with one or more slits adapted to allow it to deform resiliently under the action of said pressure.

The invention will be better understood by reading the following description and examining the accompanying drawings which show by way of example several embodiments of the invention.

In these drawings:

FIG. 1 shows in longitudinal section a complete assembled holder according to the invention;

FIG. 2 is a transverse section along the line II—II of FIG. 1;

FIG. 3 shows in longitudinal section to a larger scale a modification of a detail of FIG. 1; and

FIG. 4 shows to a still larger scale another modification.

The holder for a stick of pasty material such as make-up, pomade, cosmetic, pharmaceutical or veterinary products or the like shown in FIG. 1 comprises in a conventional manner a stick support or godet 21 which carries the stick of pasty material 22 and which is mounted for longitudinal sliding movement in an inner sleeve 23. To this end the stick support 21 has projecting from its outer cylindrical surface two diametrically opposed lugs, such as 25 which project through and can slide in two longitudinal slots 27, 28 respectively, formed in the cylindrical wall of the inner sleeve 23. An outer sleeve 31 (see also FIG. 2) can turn on inner sleeve 23 and is retained

axially by two shoulders 32, 33 on the inner sleeve. In the inner face of the cylindrical wall of the outer sleeve 31 are formed two diametrically opposed helicoidal slots 35, 36 proportioned to receive lugs 25 and in which the ends of the lugs 25 are engaged.

On the outer sleeve 31 a metallic reinforcing tube 39 is force fit, one end 41 of which defines an opening 42 for the passage of the stick 22, the opening being covered by a conventional cover which, for clarity of illustration, has not been shown.

As shown in FIG. 1, the lower end of sleeve 23 terminates in an enlarged section 45 to which is secured a handle 43 which is adapted to rotate the inner sleeve with respect to the outer sleeve.

In order that, due to the effect of vibrations, the two sleeves should not risk turning one relatively to the other while the holder is covered, so that the end of the stick 22 does not risk coming into contact with the bottom of the cover, each lug 25 of the stick support is given dimensions such that it exerts a pressure against one at least of the slots in the two sleeves. So that lugs 25 do not produce jamming liable to upset the operation of the holder, in each lug is formed one or more slits adapted to allow it to deform resiliently under the affect of the pressure which it exerts against the slots of the sleeves.

In the embodiment shown in FIGS. 1 and 2 each lug 25 bears against the sides of the longitudinal slot 28 in the inner sleeve and has a longitudinal median slit 86 such as to enable it to deform resiliently in and slide in slot 28 while exerting against the wall of the slot a certain force adapted to bring about a friction or braking effect on the sliding movement of the stick support in said inner sleeve.

In FIG. 3 a modification is shown in which the axial slit in the lug 25 is formed in an inclined direction substantially parallel to the inclination of the helicoidal slot 36 in the outer sleeve as indicated at 87 so that it is mainly against the sides of this helicoidal slot that the lug exerts a braking force. It can however at the same time also exert some force against the side of the longitudinal slot 28 in the inner sleeve.

Lastly in FIG. 4 there is shown a modification in which the lug 25 of the stick support bears with its preferably convex end against the bottom of the helicoidal slot or groove 36 in the outer sleeve and has one or more transverse slits such as the two offset opposed slits 88 and 89 so that it can yield resiliently somewhat in an axial direction relatively to itself, that is to say in a radial direction relatively to the complete holder, an arrangement which allows a limited pressure to be exerted by its end against the bottom of the slot or groove and consequently avoids an inconvenient jamming while ensuring an effective braking against spontaneous or any unwanted sliding displacement of the stick support in the sleeve. Thus the lug bears resiliently against said slot.

I claim:

1. In a holder for a stick of pasty material having an opening at one end adapted to be covered when not in use, comprising two coaxial elongate sleeves which can turn one relatively to the other and a support member for supporting the stick and which is movable axially in the inner sleeve and which carries at least one integrally formed lug projecting outwardly from a sidewall of the support member and extending through an associated slot in the inner sleeve and which is also engaged in an associated slot in the outer sleeve, one of said slots being longitudinal and the other helicoidal, the improvement comprising at least one narrow slit in said lug, each said

3

lug being so dimensioned that said lug exerts pressure against a wall of at least one of said slots, said slit being positioned so that it deforms resiliently under the action of said pressure thereby to resiliently urge said lug against said wall of said slot.

2. A holder according to claim 1 in which the lug resiliently bears against the wall of the slot in the outer sleeve.

3. A holder according to claim 2 in which the slot in the outer sleeve is a groove and in which said lug bears resiliently against the bottom wall surface of said groove.

4. A holder according to claim 1 in which the lug on the stick support is resiliently urged against the sidewalls of at least one of said slots in the two sleeves and has an axial slit.

5. A holder according to claim 4 in which said inner sleeve defines said longitudinal slot and in which said lug is resiliently urged against the sidewalls of said longitudinal slot.

4

## References Cited

## UNITED STATES PATENTS

	276,800	5/1883	Gard	401—82
	2,332,147	10/1943	Holihan	401—82
5	2,333,813	11/1943	Nyden	401—82
	2,367,457	1/1945	Book	401—77
	2,444,376	6/1948	Seaver	401—78
	2,770,358	11/1956	Keith	401—83
10	3,124,245	3/1964	Hopgood	401—78
	3,298,509	1/1967	Hultgren	401—78

## FOREIGN PATENTS

	3,172	11/1911	Great Britain.
15	515,393	12/1939	Great Britain.
	1,116,300	6/1968	Great Britain.

LAWRENCE CHARLES, Primary Examiner

U.S. Cl. X.R.

20 401—80