Nov. 7, 1961 J. A. BABIN 3,007,569

LIPSTICK OR ROUGE CONTAINER

Filed June 3, 1960

Fig. 1

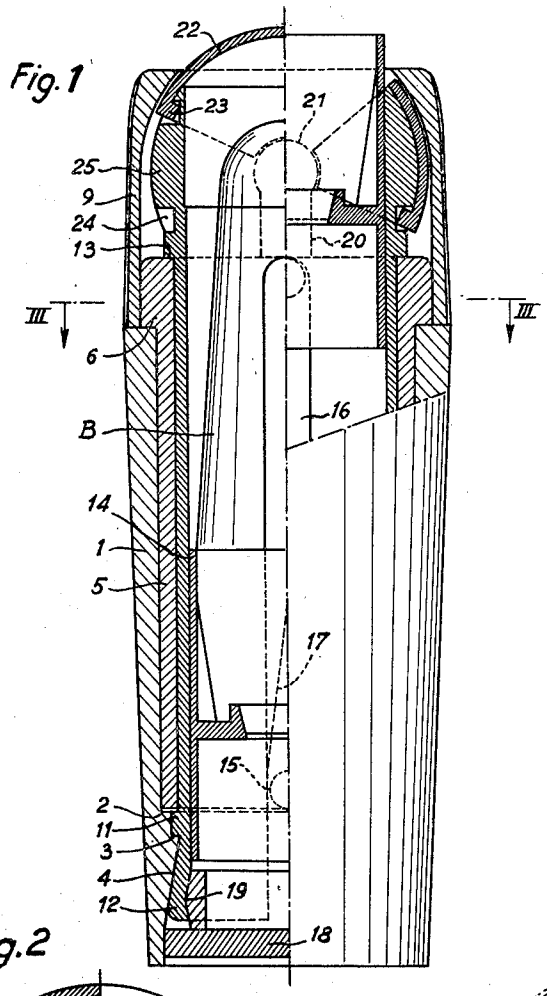


Fig. 2

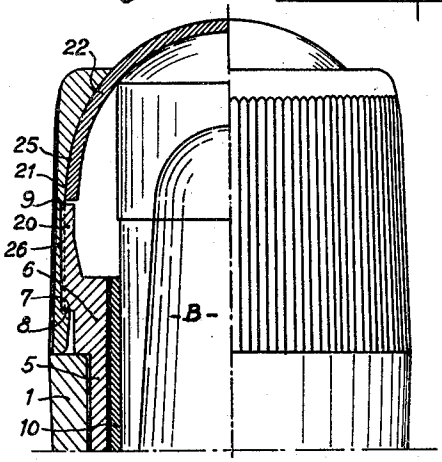
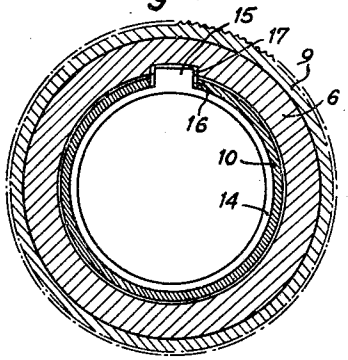


Fig. 3



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LIPSTICK OR ROUGE CONTAINER

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4 Claims. (Cl. 206—56)

The present invention relates to lipstick or rouge containers adapted to contain for example a lipstick capable of being brought to an outwardly projecting position with respect to the body of the container owing to a relative angular motion between appropriate parts of said container.

An object of the invention is to provide an improved lipstick or rouge container of the aforesaid type capable of being made of plastic and lending itself to a particularly simple and easy construction and assembly without requiring screwing, sticking or welding operations as is the case with metal lipstick containers belonging to the prior art.

Another object of the invention is to provide an improved lipstick or rouge container of the aforesaid type made of a resilient plastic such as polystyrene or polyethylene and including a body, a socket member revoluble in said body, a first slot in said socket member, a sleeve connected for joint angular motion with said body, a second slot in said sleeve, said slots having an intersection point, a lipstick or rouge stick-holding cup member slidable in said sleeve and a projection or protuberance on said cup member and engaged through said slots at said intersection point, said container being chiefly characterized by undercut stepped outlines providing shoulders on said body, on said socket member and on said sleeve for permitting their ready assembly by a springing action and their retention in assembled condition.

Yet another object of the invention is to provide an improved lipstick or rouge container of the aforesaid type wherein the outer body has a shoulder on which the lower edge of the socket member may rest, said socket member being connected to the cap by undercut and oppositely directed shoulders adapted for telescopic interengagement, undue withdrawal of the assembly made up of said cap and socket member being prevented by a lower shoulder formed on the sleeve housed in the socket member and cooperating with a suitable shoulder on the body, the cup member in which the lipstick or rouge stick is frictionally held having an aperture normally closed by shells mounted for rocking motion so as to liberate said aperture, all the parts of said container having undercut stepped outlines permitting them to be assembled by a springing action, their retention in assembled condition being ensured by the shoulder defined by said stepped outlines.

A further object of the invention is to provide a lipstick or rouge stick container as aforesaid wherein the outer body of the container has a shoulder on which the lower edge of the socket member may be abutted, said socket member being connected to the cap by undercut shoulders of opposite directions resiliently telescoped into each other, undue withdrawal of the assembly made up the cap and socket member being inhibited by a lower shoulder on the sleeve fitted in the socket member and cooperating with an appropriate shoulder on the body, the stick-holding cup member being advantageously provided with a stud or protuberance engaged through a longitudinal slot in the sleeve and through a helical slot in the socket member, whereby an angular motion of said socket member responsive to actuation of the cup member relative to the body causes a longitudinal shift of the cup member inside the sleeve.

A still further object of the invention is to provide a lipstick or rouge container as aforesaid wherein the upper end of the sleeve is advantageously shaped in form of a substantially spherical head, while the shells which close the upper aperture in the cap are rockable about bearing bosses of approximately cylindrical shape forming the ends of arms rigid with the socket member; said shells partly surrounding said bearing bosses under conditions preventing their pivotal motion about the longitudinal axis of the container and having heel portion or similar protuberances engaged into helical grooves formed in the upper spherical head of the sleeve, whereby a relative angular motion between the socket member and the sleeve causes the shells to become opened.

An advantage of the invention is that all the elements of which the improved lipstick or rouge stick container are made up may be manufactured by injection molding or a like process, use being made of any suitable plastic such as polystyrene or polyethylene and that, moreover, if deemed desirable, the outer body of the container may be fitted with a metal skirt of appropriate shape or alternatively a transparent skirt permitting an intermediate element such as an element bearing printed matter or an adornment or decoration to be interposed between said skirt and the container.

With these and such other objects and advantages in view as will incidentally appear hereafter, the invention comprises the novel construction and combination of parts that will be now described with reference to the accompanying drawing exemplifying the same and forming a part of the present disclosure.

In the drawing:

FIGURE 1 is a sectional elevational view of a constructional form of a lipstick container according to the invention, the left hand side portion of this view showing the lipstick in withdrawn position while its right hand side portion shows the stick-holding cup member in raised position.

FIGURE 2 is a fragmentary vertical sectional view along a plane offset by 90° to the sectional plane in FIG. 1.

FIGURE 3 is a cross sectional view on the line III—III of FIG. 1.

In the illustrated constructional form, the lipstick container is made up of parts advantageously obtained by injection molding of a suitable resilient plastic and comprises a substantially cylindrical outer body 1 (for example made of polystyrene) having an upwardly directed double shoulder 2, 3 adjacent its lower end and a downwardly directed flaring portion 4. A socket member 5 (made for example of polystyrene) is housed in the body 1 with a small clearance permitting their relative rotation. The lower edge of the socket 5 is abutted upon the body shoulder 2. The socket member 5 is also provided with an upper flange 6 carrying a pair of upwardly directed arms 20 whose projecting lower end defines a narrow assembling shoulder 7 upon which can be resiliently telescoped another shoulder 8 directed in the opposite direction and defined by the lower edge of recesses 26 formed in a cap 9 which is abutted against the upper edge of the body 1. Mutual telescopic engagement of the cap 9 upon the flange 6 on the socket member 5 ensures interconnection by the arms 20 and the recesses 26 for joint angular motion. The cap 9 may be made for example of polyethylene and is advantageously knurled on its periphery for facilitating its manipulation.

A sleeve 10 is mounted coaxially inside the socket member 5 and may be rotated with respect thereto. The sleeve 10 which can be made of polystyrene is provided near its lower end with a flange 11 abutted

upon the shoulder 3 on the body 1 and engaged under the lower edge of the socket member 5 and with an end thickened portion 12 which telescopically cooperates with the flaring portion 4 of the body 1 under such conditions as to prevent undue withdrawal of said sleeve upwards. A shoulder 13 on the sleeve 10 rests upon the upper edge of the socket member 5 so that the latter is maintained with the cap 9 in correct assembling position with respect to the body 1.

A cup member 14 in which a lipstick or rouge stick B is frictionally held is slidably housed in the sleeve 10. The cup member 14 which may be made for example of polyethylene carries a stud 15 engaged into a longitudinal slot 16 in the sleeve 10 and into a helical slot 17 in the socket member 5 as is clearly visible in FIG. 2, thereby ensuring a positive control of the position of the cup member 14 in the container.

A plug 18 (made for example of polyethylene) closes the lower end of the container. A flange or collar on said plug 18 has a thickened portion 19 elastically tucked, for performing the assembly, into a corresponding inner depression in the lower part of the sleeve 10.

Both arms 20 of the socket member 5 terminate in cylindrical bosses 21 forming bearings for a pair of shells 22 which close the upper mouth of the container. Said shells 22 have arcuate recesses which bear upon the bearings 21 under conditions permitting them to be rocked about a transverse axis set into the container wall. The shells 22 are provided adjacent their inwardly directed edge with heel portions 23 which are engaged into helical grooves 24 formed in a spherical head 25 forming the upper termination of the sleeve. The shells 22 may be made for example of polyethylene.

It will be understood that the parts of which the container is made up are assembled together by resilient telescoping actions and that the undercut outline which is provided permits such assembling to be readily performed without necessitating screwing, sticking, welding or like operations.

Advantageously the dimensions may be so calculated as to provide a slight clamping action of the cup member as it assumes its upper position. Notches may be formed in the parts as they are being molded for presetting their position of assembly with proper accuracy.

The operation of this lipstick or rouge container will be easily understood from the foregoing: Assuming the stick B to occupy its withdrawn position inside the container (as shown in the left hand side portion of FIG. 1) the user may for make-up purposes, cause ejection of the stick B single-handed by holding the body 1 of the container in her palm while rotating the cap 9 by means of her fingers. The cap then revolves the socket member 5 since it is connected for joint angular motion owing to the arms 20 and recesses 26 while the sleeve 10 and the cup member 14 remain angularly motionless. The slots in the socket member 5 and in the sleeve, into which the stud 15 on the cup member 14 is engaged then move the latter upwardly, thereby pushing out the stick B. Likewise relative angular motion between the head 25 which forms the end of the sleeve 10 and the shells 22 angularly movable with the socket member 5 about the longitudinal axis of the container causes, owing to sliding motion of the heel portions 23 of said shells through the helical slots 24 in the head 25, the shells to be opened, thus enabling the stick B to come out.

Advantageously the outlines of the helical slots 24 in the head 25 and 17 in the socket member 5 are such that the shells are first opened to a suitable degree before upward motion of the stick B is started, thereby staving off any risk of undue contact between the stick and the shells.

Minor constructional details may be varied without departing from the subjoined claims.

What is claimed is:

1. In a lipstick or rouge container made of a resilient plastic including an outer body having a first, and a second shoulders, a socket member revoluble in said body and having an upper edge and a lower edge, said lower edge resting on said first shoulder, a cap surmounting said body, mating undercut shoulders on said socket member and cap and elastically interengaged, a sleeve revoluble in said socket member, a first shoulder on said sleeve and fitting said upper edge of the socket member, a second shoulder on the sleeve resting on said second shoulder of the body, an end thickened portion provided on said sleeve beyond its second shoulder, a flaring portion provided in said body, said thickened portion of the sleeve engaging said flaring portion of the body for holding said body, socket and sleeve in assembled condition, a first slot in said socket member, a second slot in said sleeve, said slots having an intersection point, a rouge-holding cup member slidable through the sleeve, and a protuberance on said cup member and engaged through said slots at said intersection point.

2. A rouge container according to claim 1 comprising a spherical head forming the end of the sleeve and operatively connected thereto, said spherical head providing an aperture, bearings on the socket member, shells rockable on said bearings for closing said aperture, projections on said shells, and helical grooves in said head, said projections being engaged in said grooves for opening or closing said shells responsive to angular motion of said socket member and said sleeve.

3. A lipstick or rouge container made of a resilient plastic comprising an outer body having first and second shoulders and a flaring portion providing a surface oppositely directed with respect to said shoulders, a socket member revoluble in said body and having lower and upper edges, said lower edge of the socket member resting upon the first shoulder of the body, a cap surmounting said body, recesses in said cap, projecting arms operatively connected with said socket member and engaged into said recesses for angular and axial interconnection between said socket member and said cap, a sleeve revoluble in said socket member, a first shoulder on the sleeve and resting on the upper edge of the socket member, a second shoulder on the sleeve, resting on said second shoulder of the body, an end thickened portion on said sleeve, engaging said oppositely extending flaring portion of the body for providing elastic assembly of the body, socket members, cap and sleeve, a first slot in said socket member, a second slot in said sleeve, said slots having an intersection point, a rouge-holding cup member slidable through said sleeve, and a protuberance on said cup member and engaged through said slots at said intersection point.

4. A rouge container according to claim 3 comprising a spherical head forming the end of the sleeve and rigid therewith, said head defining an aperture, bearings on the arms of said socket member, shells rockable on said bearings and adapted to cover said aperture, protuberances on said shells, and helical grooves in said spherical head, said protuberances being engaged in said grooves for opening or closing the shells responsive to a relative angular motion between the socket member and the sleeve.

References Cited in the file of this patent

UNITED STATES PATENTS

1,870,941	Barendse	Aug. 9, 1932
2,360,350	Kirk-Schneider	Oct. 17, 1944

FOREIGN PATENTS

506,428	Great Britain	May 23, 1939
265,348	Switzerland	May 23, 1949
325,307	Switzerland	Dec. 14, 1957

OTHER REFERENCES

Koppers Plastics—Modern Packaging, page 54, October 1958.