Oct. 18, 1955 H. E. DAVIS 2,720,966

STICK OF MATERIAL AND HOLDER THEREFOR

Filed Aug. 2, 1951

Fig. 1.

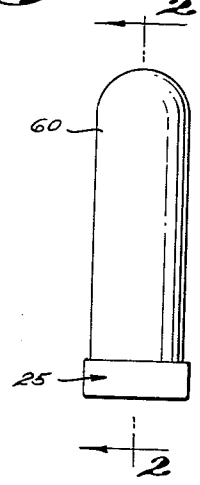


Fig. 2.

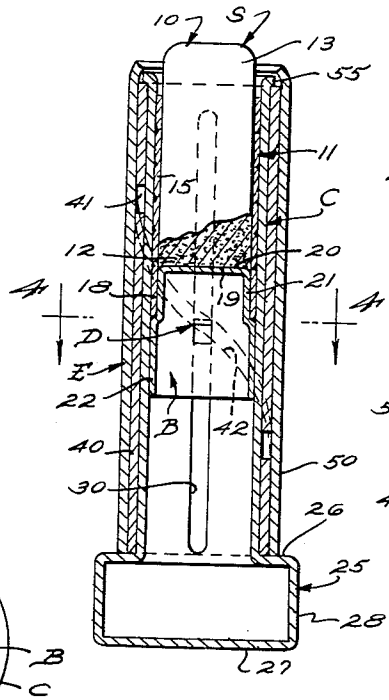


Fig. 3.

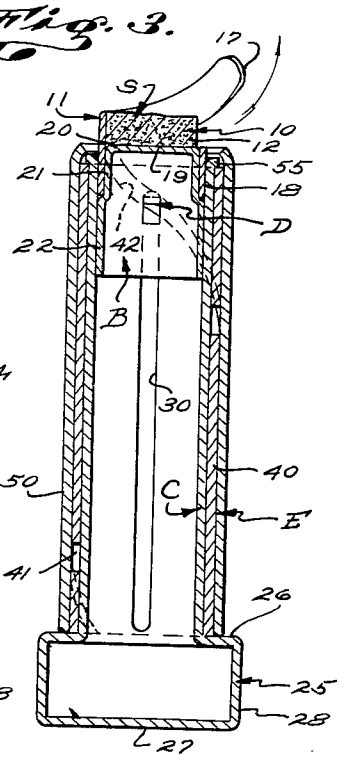


Fig. 4.

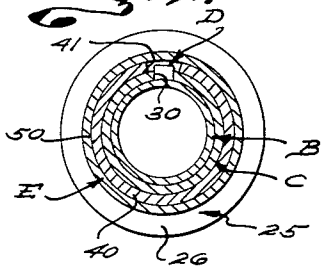


Fig. 5.

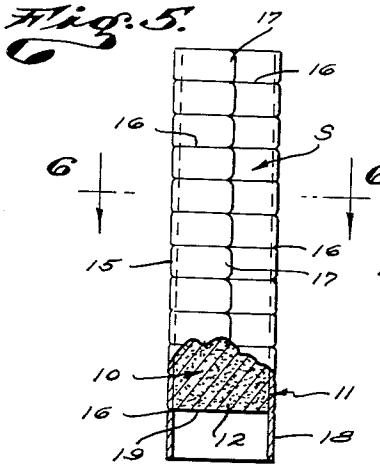


Fig. 6.

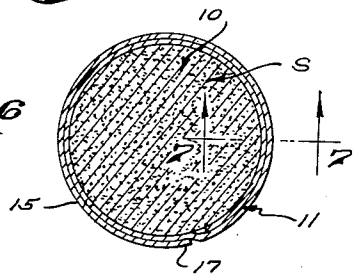
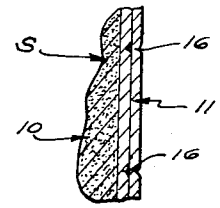


Fig. 7.



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STICK OF MATERIAL AND HOLDER THEREFOR

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3 Claims. (Cl. 206—56)

This invention is concerned with a stick of material and a holder therefor, it being a general object of the invention to provide a practical improved stick of material such as a medicated body or one suitable for use as a lipstick, or the like, and a simple practical improved holder for such stick by which it can be handled or operated, making a portion or end thereof available for use until such time as the entire stick has been consumed.

The stick form or construction provided by the invention, and the holder therefor, can, in practice be employed to handle or carry sticks of material of various kinds or intended for various purposes. The invention is particularly useful and practical for the handling of material in the form of a lipstick, and, therefore, it is here referred to in that connection, or as being that type or form, and the particular form of holder illustrated is suitable for that class of use.

Material in stick form employed as and termed lipstick is commonly handled in a mechanism or applicator including a cup that holds the stick of material by embracing a substantial portion thereof at what may be termed the base end of the stick. Such applicators or devices are operable to shift the lipstick within a tubular body so that an end of the stick projects the body to be accessible for use, and in the ordinary construction the material is accessible or available for convenient use only while there is material beyond the base portion where it is carried in the cup. As a result of this circumstance, a substantial portion of each lipstick is generally discarded with consequent loss, or, if an attempt is made to use it, considerable difficulty and inconvenience is experienced.

It is a general object of this invention to provide a lipstick with a jacket at the base portion thereof serving to connect the stick to a carrier and removable by degrees as it is desired to make parts of the stick available for use.

Another object of the invention is to provide a combined lipstick with a jacket of the character referred to, and a mechanism including a carrier that receives the stick and which is operable in a body so that the stick can be readily moved between a position entirely within the body and a position where an end of the stick is available at the exterior of the body, which operating condition continues until the entire stick of material is consumed or made available for use.

It is another object of this invention to provide a structure of the general character referred to which involves few simple inexpensive parts that establish a mechanism that is commercially practical and which is convenient to use.

The structure incorporating the invention embodies a stick of material, say for example, a lipstick and a jacket on the stick surrounding at least the base portion thereof. In accordance with the invention the jacket has a collar portion that surrounds the stick and it has an extension of the collar portion in the form of a skirt that projects from the base end of the stick. The jacket is preferably formed of sheet material such as paper, or the like,

wrapped around the stick and it is preferably weakened or scored at suitable points lengthwise of the assembled stick and jacket so that a portion of the jacket or of the collar portion thereof can be readily removed or torn away as desired. The mechanism provided for handling the jacketed stick of material preferably involves a carrier for the stick, a body slidably supporting the carrier, an actuator for the carrier and it may include operating means that operates the actuator. In the preferred form the carrier has a base portion slidable in the body and has a neck of reduced diameter that receives and frictionally holds the skirt of the jacket provided on the stick. The body is tubular in form, preferably open at its outer end and preferably closed at its inner end. The base of the carrier is slidably fitted in the body. The actuator may involve a simple projection or lug on the carrier accessible at the exterior of the body as by being engaged through a guide slot in the body. When an operating means is employed, it may involve a cam element surrounding the body to rotate relative thereto, and having a cam way defined by cam surfaces that cooperate with the actuator so that as the cam element is rotated the carrier is shifted lengthwise of the body. In the case illustrated, the operating means includes a sleeve that surrounds and is tight on the cam element and the combined cam element and sleeve are retained on the body against displacement therefrom and for free rotation relative thereto.

The various objects and features of my invention will be fully understood from the following detailed description of a typical preferred form and application of the invention, throughout which description reference is made to the accompanying drawings, in which:

Fig. 1 is a side elevation of a structure embodying the present invention showing it covered by a suitable closure or cap. Fig. 2 is an enlarged longitudinal detailed sectional view of the structure with the cap removed and showing the stick operated to a position where an end portion thereof is available for use. Fig. 3 is a view similar to Fig. 2 showing the carrier operated to a position where it is substantially flush with the end of the body and showing the base portion of the stick that engages the carrier being made available for use by removal of the portion of the jacket collar that adjoins the skirt of the jacket. Fig. 4 is a plan section taken as indicated by line 4—4 on Fig. 2. Fig. 5 is a side elevation of the stick as it may be provided with a jacket, a portion of the structure being shown in section to illustrate the stick within the jacket. Fig. 6 is an enlarged plan section taken as indicated by line 6—6 on Fig. 5, and Fig. 7 is an enlarged section taken as indicated by line 7—7 on Fig. 6.

The structure provided by the present invention involves, generally, the lipstick S which includes the material **10** and a jacket **11**. The stick is handled by a carrier B supported in a body C and the carrier is adapted to be operated longitudinally in the body through an actuator D and the structure may include an operating means E for the actuator.

The material **10**, for instance, the body of material forming the lipstick, is of suitable form and size, for instance, it is preferably round in cross-section and of substantial length and as initially provided it has a base end portion **12** and a usable end portion **13**.

The jacket **11** as provided by the present invention has a collar portion **15** that surrounds the body of material **10**. In accordance with the invention, the collar portion of the jacket **11** surrounds at least the base portion of the body of material **10** and it may as I have shown in Fig. 5 of the drawings be of substantial length, in fact, it may be substantially coextensive with the body **10** of material so as to initially completely surround it from

one end to the other. In such case the jacket forms an initial container or closure for the body of material **10** and serves to protect it and make it convenient to handle until such time as it is desired for use.

In accordance with the invention, one or more lines **16** of weakening as, for instance, scoring, perforations, or the like, are provided on or around the collar portion **15** of the jacket **11**. Ordinarily, a plurality of such lines **16** of weakening occur and they are spaced apart lengthwise of the stick of material **10** as shown in the drawings. Furthermore, in the preferred formation of the jacket, it is formed of a sheet of material such as paper, a suitable plastic, or the like, with overlapped portions bonded, say, for example, by a suitable adhesive so that tab portions or tab ends **17** at the exterior of the collar between lines of weakening **16** can be engaged and then pulled with consequent tearing of a limited portion of the collar from the material **10**.

Through the operation just described the collar portion of the jacket can be removed by degrees, that is, in steps or bands one at a time as circumstances require, making an end portion **13** of the material **10** available for use as desired. It is to be understood, however, that the invention contemplates a collar **15** of limited extent, that is, a collar limited to the base end portion **12** of the material **10** so that the collar removing or tearing operation or operations need only be employed when it is desired to make the base portion of the material available for use.

It is to be noted that in the case of a stick of material **10** with a jacket **11** having a collar portion **15** extending the entire length of the material or practically the entire length thereof, the stick of material is, in effect, reinforced and held in shape making possible use of a material that might otherwise be too soft for use as a lipstick, and maintaining the usual or conventional type of lipstick in the desired tubular form during periods or seasons when temperature conditions are such that ordinary lipsticks are softened and subject to being distorted or to becoming disagreeable to handle or use.

The jacket **11** provided by the invention includes, in addition to the collar portion **15**, a skirt portion **18** which may be a simple extension or continuation of the collar portion **15** surrounding the base portion **12** of the material **10**. The skirt **18** projects from the end **19** of the base portion **12** so that a portion of the jacket occurs beyond the base end of the material **10**. In a typical construction, the skirt **18** is free of lines of weakening, although, if desired, a line of weakening **16** may occur where the collar portion **15** joins the skirt portion **18**.

The carrier B provided in the structure of the present invention may be of simple form, for instance, it may include a head **20** adapted to engage and support the end **19** of the material **10**, and it preferably includes a neck portion **21** adjoining or projecting from the head **20** and such as to receive the skirt **18** of the jacket **11**. In the preferred construction, a base portion **22** of the carrier B adjoins and projects from the neck **21**. The base portion **22** is of such size or diameter as to slidably fit in the body C and it is of such length as to have suitable guided bearing engagement with the body. The neck portion **21** of the carrier B is preferably smaller in diameter than the base portion **22** so that it will fit into the skirt portion **18** of the jacket, the outside diameter of which will fit into the body C.

In practice the parts can be arranged and related so that the jacket **11** is of uniform outside diameter from one end to the other and fits in the body C with suitable clearance so that the stick S can be operated freely lengthwise of the body. In accordance with the invention, it is preferred that the neck portion **21** of the carrier be such as to fit snugly or tightly into the skirt portion **18** of the jacket so that a suitable frictional connection is established and serves to maintain the jacket and carrier connected with the body of material **10** on the head **20** projecting therefrom axially of the structure as shown in the drawings. In the preferred construction, the carrier B is formed of a single body or sheet of material, for instance, it may be a simple sheet metal part.

The body C is preferably a simple elongate tubular element open at its outer end and it may be provided at its inner end with a head **25**. The head **25** is shown as an enlargement on the inner end of the body C including an annular part **26**, a disc portion **27** and a cylindrical handle **28** extending between the portions **26** and **27**.

The actuator D as provided by the invention is in the form of a projection or lug on the carrier, preferably, a lug projecting radially from the carrier at the exterior thereof. The body C is provided with an elongate slot or guideway **30** which passes the actuator D making it accessible or available at the exterior of the body. The guideway **30** extends longitudinally of the body and is of such extent as to allow the actuator to operate therein so that the carrier B is movable between a retracted position at the inner end portion of the body to a fully operated position where the head **20** of the carrier is at or substantially flush with the outer end of the body.

When an operating means is employed making it unnecessary to manually engage and operate the actuator D, such means may include a cam element **40** on the body having a cam-way **41** defined by spaced opposed cam faces **42** between which the actuator is engaged. The cam faces **42** are shaped and proportioned to define a helical cam-way **41**, so that when the cam element is rotated on the body C the actuator is shifted lengthwise of the body to correspondingly move the carrier B within the body. In the construction illustrated, the operating means E further includes a sleeve **50** surrounding the cam element **40**. The cam element is tight in the sleeve and these two parts form a unit rotatable on the body C and held against axial movement relative to the body by the head **25** and a retaining lip **55** provided at the outer end of the body. In the preferred construction, a closure or cap **60** is provided to be engaged over the structure hereinabove described when it is not in use.

From the foregoing description it will be apparent how a lipstick S, as provided by the present invention, involving a material **10** and a jacket **11** can be readily applied to a carrier B by simply applying the stick to the mechanism so that the neck **21** of the carrier enters the skirt of the jacket until the parts are engaged as shown in Figs. 2 and 3 of the drawings. If the lipstick S is one having an extended or extensive collar portion **15**, a part of the collar may have to be removed to make the end portion **13** of the material **10** available for use when the carrier has been operated so that that end is beyond the end of body C as shown in Fig. 2. If the collar of the jacket is one of limited extent, a substantial portion of the material **10** can be used before it is necessary to remove any part of the jacket.

When the material **10** has been used until only the base portion **12** remains, this portion can be made available and can be exposed for use by removing the portion of the collar **15** which adjoins the skirt **18**, as indicated in Fig. 3 of the drawings. When the last of the collar has been removed, the base of the material is exposed and it then is possible to conveniently use up all of the material, employing usual practice or operations and without resorting to digging or picking operations such as are necessary when the material is confined in a conventional cup, or the like.

Structure employed in carrying out the present invention may, if desired, be employed without using the jacket on the stick of material. In such case the stick of material can be stuck directly on the end **19** of carrier B and in operation the carrier can be advanced as desired until the end **19** has been advanced to the outer end of the body, thereby making all of the material accessible and therefore available for use.

Having described only a typical preferred form and application of my invention, I do not wish to be limited

or restricted to the specific details herein set forth, but wish to reserve to myself any variations or modifications that may appear to those skilled in the art and fall within the scope of the following claims.

Having described my invention, I claim:

1. In combination, a body of material in stick form, and round in cross section and uniform in diameter from one end to the other, a paper jacket on the material, the jacket being a straight cylindrical member uniform in diameter from one end to the other and having a detachable collar portion surrounding and adapted to be removed from the material and a straight skirt portion with an uninterrupted cylindrical interior and projecting from the material at one end thereof, a round tubular body slidably receiving the jacket, a carrier in the tubular body releasably engaged with the combined body of material and jacket thereon, and having a round elongate base slidably engaging the tubular body and an uninterrupted neck smaller in diameter than the base and slidably receiving and frictionally holding the skirt and a head on and closing the outer end of the neck, and an actuator whereby the carrier can be operated lengthwise of the tubular body between a retracted position where the carrier and the stick engaged therewith are within the body and a position where the stick is out of the body beyond the outer end thereof and the head of the carrier is substantially flush with said outer end of the body.

2. In combination, a body of material in stick form and round in cross-section and uniform in diameter from one end to the other, a jacket on the material, the jacket being of straight cylindrical form with a collar portion covering a substantial portion of the material and having lines of weakening at longitudinally spaced points dividing it into sections adapted to be removed from the material one at a time, the jacket having a straight uninterrupted cylindrical skirt portion projecting from one end of the material, a tubular body slidably receiving the jacket, a carrier in the tubular body releasably engaged with the combined body of material and jacket thereon, and having a round elongate base slidably engaged in the tubular body and a round uninterrupted neck projecting from one end of the base and smaller in diameter than the base and of the same diameter as the body of material and slidably receiving and holding the skirt, and a rotatable cam actuator whereby the carrier can be operated lengthwise of the tubular body between a retracted position where the carrier and the stick engaged therewith are within the body and a position where the stick is out of the body beyond the outer end thereof and the neck of the carrier is substantially flush with said outer end of the body.

3. In combination, a body of material in the form of a stick of substantial length and round in cross-section, a jacket on the material, the jacket being cylindrical in form and uniform in diameter from one end to the other and having a detachable collar portion terminating adjacent one end of the stick of material leaving a part only of that end portion of the stick exposed and being adapted to be removed from the material as the material is used, the jacket having a straight uninterrupted cylindrical skirt portion projecting from the stick of material at the other end thereof, a tubular body slidably receiving the jacket, a carrier in the tubular body and having a base slidably engaging the tubular body, a neck slidably receiving and frictionally holding the skirt and a head on the neck closing it at its terminal end and supporting the body of material, a cylindrical cam actuator whereby the carrier can be operated lengthwise of the tubular body between a retracted position where the carrier and the stick engaged therewith are within the body and a position where the stick is out of the body beyond the outer end thereof and the head of the carrier is substantially flush with said outer end of the body, and operating means for the actuator including a manually engageable element rotatable relative to the body and engaging the actuator.

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