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C. A. MUREAU ET AL

2,136,979

LIP ROUGE APPLICATOR

Filed June 1, 1936

Fig. 1.

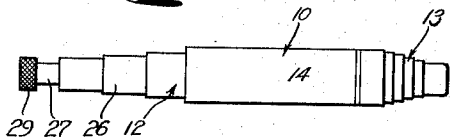


Fig. 3.

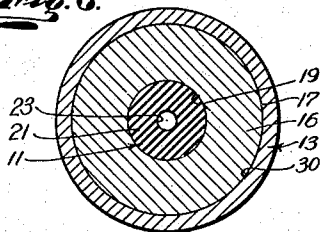


Fig. 2.

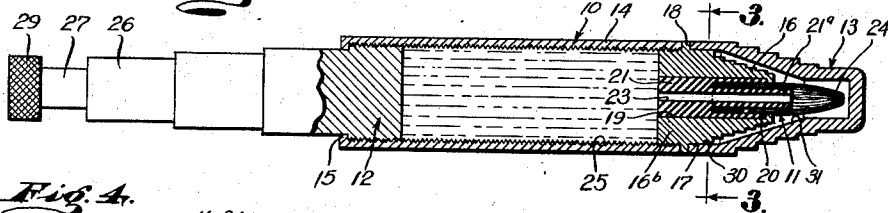


Fig. 4.

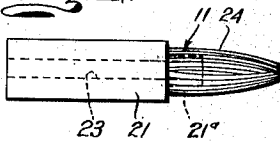


Fig. 5.

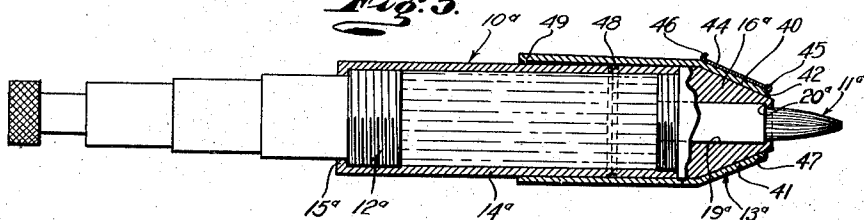


Fig. 6.

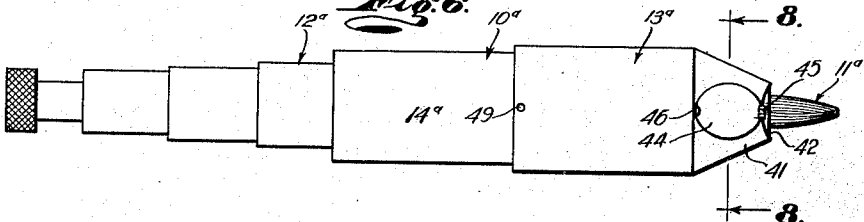


Fig. 7.

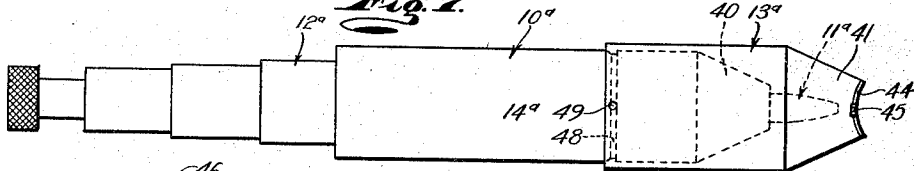
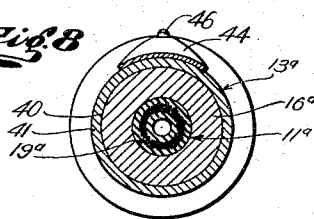


Fig. 8.



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UNITED STATES PATENT OFFICE

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LIP ROUGE APPLICATOR

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6 Claims. (Cl. 15-137)

This invention relates to a device for applying cosmetics and relates more particularly to a lip brush or lip rouge applicator. A general object of this invention is to provide a compact, inexpensive and particularly effective device for applying lip rouge, and the like.

Another object of this invention is to provide a device for applying lip rouge and the like that contains a supply of the rouge and that embodies a brush by means of which the rouge may be very accurately, conveniently and smoothly applied. When applying lip rouge with a typical lipstick it is usually necessary to smooth and spread the rouge with the finger tips. The device of the present invention completely obviates this troublesome procedure and is adapted to apply the rouge smoothly and evenly so that it is not necessary to soil the fingers to smooth and spread the rouge.

Another object of this invention is to provide a device for applying lip rouge that embodies simple effective means for delivering or forcing the rouge to the brush in the proper amounts.

Another object of this invention is to provide a lip rouge applicator of the character mentioned in which the brush is mounted and formed so that it may be employed to apply the rouge in fine lines and with great accuracy.

Another object of this invention is to provide a rouge applicator of the character mentioned in which the rouge cannot become broken, displaced or lost by leakage.

Another object of this invention is to provide a lip rouge applicator that is adapted to contain an oilier and softer rouge than is employed in the typical lip sticks. The relatively oilier rouge used in the device of the present invention keeps the lips moist, is easier to apply and is generally more effective than the harder rouge supplied in stick form in the usual lip sticks.

Another object of this invention is to provide a lip rouge applicator in which the rouge may be easily and inexpensively supplied to the container of the device either by pouring it in the container or by inserting a cartridge or stick of the rouge in the container. In the manufacture of the usual lip sticks it is necessary to cast the rouge in molds and then arrange the cast sticks in the holders. There is considerable loss from breakage during this procedure and it is often necessary to "fire" or soften the sticks to reshape them after being inserted in the holders. In the device of the present invention the rouge may be easily poured in the container and there are no costly

losses or delays in providing the device with the rouge.

Another object of this invention is to provide a device of the character mentioned that is compact and attractive and simple and inexpensive to manufacture.

The various objects and features of our invention will be fully understood from the following detailed description of typical preferred forms and applications of the invention, throughout which description reference is made to the accompanying drawing, in which:

Fig. 1 is a side elevation of one form of the invention. Fig. 2 is an enlarged longitudinal detailed sectional view of the device illustrated in Fig. 1 with the handle in elevation. Fig. 3 is an enlarged transverse detailed sectional view taken as indicated by line 3-3 on Fig. 2. Fig. 4 is an enlarged side elevation of the brush removed from the device. Fig. 5 is a longitudinal detailed sectional view of another form of the invention with the plunger in elevation and illustrating the cap in the position where the device may be used. Fig. 6 is a side elevation of the device illustrated in Fig. 5. Fig. 7 is a view similar to Fig. 6 showing the cap in its out or closed position, and Fig. 8 is an enlarged transverse detailed sectional view taken as indicated by line 8-8 on Fig. 6.

The form of the invention illustrated in Figs. 1 to 4 of the drawing includes, generally, a holder or container 10 for containing the rouge, a brush 11 on the container for applying the rouge, a plunger 12 for forcing the rouge from the container to the brush 11 and a cap 13 normally enclosing the brush.

The holder or container 10 is provided to contain a supply of the rouge and to carry the brush 11 and the plunger 12. In practice the container 10 may include a tubular body 14. The body 14 may be cylindrical in its general configuration as illustrated, it being apparent, however, that the body may be of any suitable shape. The body 14 is elongate to contain a substantial supply of rouge and is proportioned for convenient use. The rear end of the body 14 is closed by the plunger 12 as will be hereinafter described. In the preferred construction an annular internal flange 15 is provided on the body 14 at its rear end. The container 10 includes a head 16 at the forward end of the body 14 for carrying the brush 11. The head 16 may be in the nature of a plug having a portion 16^b threaded in the forward end of the body. The head 16 projects some distance forwardly from the body 14. A regular cylindrical surface 17 is provided on the

head 16 and an annular flange 18 is provided on the head 16 at the inner end of the surface 17. The flange 18 is adapted to abut against the end of the body 14. The head 16 is preferably of forwardly diminishing diameter. In the design illustrated the head 16 is stepped or graduated in diameter, to be of relatively small diameter at its outer or forward end. A central longitudinal opening 19 is provided in the head 16. The opening 19 extends through the head 16 from one end to the other and an annular inwardly facing shoulder 20 is provided on the wall of the opening 19 at its forward end.

The brush 11 projects from the head 16 of the container 10 for the purpose of applying the rouge. The brush 11 includes a tubular shank 21. The shank 21 may be formed of rubber, rubber composition or other suitable material that is resistant to the action of the oils in the rouge to be used. The brush shank 21 is removably arranged longitudinally in the opening 19 of the head 16. In practice the shank 21 may be removably force-fitted in the opening 19 to permit the replacement of the brush 11. The shank 21 is adapted to be inserted in the opening 19 from its inner end prior to the assembling of the head 16 on the body 14. The forward end of the shank 21 is adapted to cooperate with the shoulder 20 which prevents the loss of the brush from the head. In accordance with the invention the shank 21 is tubular having a central longitudinal opening 23 extending through it from one end to the other. The inner end of the opening 23 is in communication with the interior of the container body 14.

The brush 11 further includes a tuft 24 of bristles or hair. It is preferred to form the tuft 24 of camel's hair or the like. The inner ends of the hairs forming the tuft 24 are set or embedded in the shank 21 so that they cannot be lost. Due to the presence of the opening 23 the tuft 24 is annular to surround the opening. The tuft 24 extends from the forward end of the shank 21 and projects through the opening 19. The tuft 24 projects a suitable distance from the forward end of the head 16 and is symmetrical and tapered, as illustrated. The shank 21 has a reduced extension 21^a extending into the tubular tuft to render it more firm and to give it the desired shape. The rouge in the container 10 is adapted to be forced or pressed through the opening 23 and into the tuft 24 which may be employed to apply it.

The plunger 12 is operable to force or press the rouge from the container body 14 through the opening 23 to the brush tuft 24. In accordance with the invention the plunger 12 is threaded in the opening 25 of the body 14. The opening 25 of the body 14 is preferably provided with an internal thread that extends from its forward end rearwardly to the flange 15. In assembling the device the plunger 12 is threaded through the body 14 from its forward end until it contacts the flange 15. The flange 15 is operable to limit the outward or rearward threading of the plunger 12. The active end of the plunger 12 is solid or imperforate whereby the plunger may be threaded inwardly to force the rouge from the container body 14. The plunger 12 is provided with a rearwardly projection extension or handle 26. The plunger handle 26 may be of any ornamental configuration and finish and may be plated, if desired. In the particular case illustrated the handle 26 is rearwardly tapered or graduated in diameter to have a stem 27 of

relatively small diameter at its rear end. A knurled knob 29 is provided on the end of the stem 27 to facilitate easy turning of the plunger 12. The plunger 12 and its handle 26 may be an integral member. The handle 26 and the stem 27 are of such length that the knob 29 may be readily engaged for turning when the plunger 12 is in its most advanced position at the head 16.

The cap 13 is provided to enclose and protect the tuft 24 of the brush 11. In the form of the invention being described the cap 13 is removably carried by the head 16. An internal cylindrical surface 30 is provided on the cap 13 and removably cooperates with the surface 17 to retain the cap on the head 16. The inner end of the cap 13 is adapted to engage the flange 18 which limits its inward movement. A tapered socket 31 is provided in the cap 13 to freely receive the brush tuft 24. The socket 31 is sufficiently large to receive the stepped portion of the head 16 and the tuft 24 with substantial clearance. The cap 13 may be shaped, ornamented or finished in any way desired. In the particular case illustrated the cap 13 is graduated in diameter having forwardly stepped parts of progressively smaller diameter. The reduced forward extremity of the cap 13 may be suitably rounded. The cap 13 is normally arranged on the head 16 so that it may be readily removed to expose the brush tuft 24 for use.

It is believed that the operation of the form of the invention illustrated in Figs. 1 to 4 inclusive of the drawing will be readily understood from the foregoing detailed description. As marketed the container body 10 is filled with rouge and the plunger 12 is in its end position in engagement with the flange 15. The cap 13 encloses the brush tuft 24 so that there is no danger of being soiled in handling the device. When the applicator is to be used the cap 13 is readily removed from the head 16 and the plunger 12 may be advanced slightly to force rouge through the opening 23 to the brush tuft 24. The handle 26 or its knob 29 or both, may be easily engaged for conveniently threading the plunger 12 in the body 14 to supply rouge to the brush. The brush tuft 24 thus provided with an internal supply of cosmetic or rouge may then be used to apply the rouge to the lips. The brush 24 is such that the rouge may be evenly and smoothly applied and may be applied with great accuracy. In practice the rouge may be applied with the brush tuft 24 so that no spreading of the rouge by the finger tips is required. Following the use of the device the cap 13 is replaced to enclose and protect the tuft 24 and to prevent its contact with clothing, etc. The plunger 12 may be threaded into the body 14 from time to time as required to supply the brush tuft 24 with rouge. The plunger 12 may be threaded through the body 14 until it strikes the inner end of the head 16 at which time the rouge is entirely exhausted or removed from the body 10.

The device may be provided with a new or replacement supply of rouge either in liquid, paste or stick form. To provide a new supply of rouge in the body 10 the head 16 is unthreaded from the forward end of the body and the plunger 12 is threaded back to its original position against the flange 15. The rouge is then passed into the body 14 through its open forward end. Sticks or cartridges of rouge of various shades, etc. may be supplied for use in the device and may be easily and quickly inserted in the device to re-

plenish its supply. The head 16 may be again threaded in the body 14 to condition the device for further use. If found necessary or desirable the brush 11 may be easily replaced at any time.

To replace the brush 11 the head 16 is unthreaded from the forward end of the body 14 and the brush shank 21 is pressed out of the opening 19 to allow the replacement brush to be arranged in the head. The device is inexpensive and is very convenient and effective in use.

The form of the invention illustrated in Figs. 5 to 8 inclusive, of the drawing, includes a container 10^a for holding a supply of rouge, a brush 11^a on the container 10^a, a plunger 12^a for forcing the rouge from the container 10^a to the brush 11^a and a cap 13^a for enclosing and protecting the brush 11^a.

The container 10^a may be substantially identical with the container 10 described above. The container 10^a includes an elongate tubular body 14^a provided at its outer end with a threaded in head 16^a. The body 14^a is internally threaded and is provided at its rear end with an internal annular flange 15^a. The peripheral surface of the head 16^a may be flush with the external surface of the body 10^a. The forward portion of the head 16^a has a tapered or frusto-conical surface 40. A central longitudinal opening 19^a extends through the head 16^a and has a rearwardly facing shoulder 20^a adjacent its outer end. The brush 11^a and the plunger 12^a may be identical with the brush 11 and the plunger 12 described above.

The cap 13^a is provided to enclose the tuft 24^a of the brush 11^a. The cap 13^a is tubular and shiftably surrounds the forward portion of the container body 14^a. The forward end portion 41 of the cap 13^a is frusto-conical and is adapted to engage against and conform to the surface 40 of the head 16^a. The engagement of the portion 41 with the surface 40 of course limits the inward movement of the cap 13^a on the body 14^a. A central opening 42 is provided in the forward end of the cap 13^a to receive the brush tuft 24^a with suitable clearance when the cap is shifted inwardly or rearwardly. A pivoted or hinged closure 44 is provided to normally close the opening 42. The closure 44 is substantially disc shaped and is curved or shaped to lie against and conform to the portion 41 when in its open position. A spring hinge 45 connects the closure 44 with the cap 13^a. The spring of the hinge 45 normally urges the closure 44 to its open position where it lies against the tapered portion 41 of the cap as illustrated in Figs. 5, 6 and 8 of the drawing. The opening 42 or the outer end of the cap 41 is shaped to receive the dish or curved closure 44.

Means is provided for releasably holding the closure 44 in the position where it closes the opening 42. In the typical construction illustrated the means for holding the closure 44 in its closed position comprises a catch 46 on the closure adapted to cooperate with a notch 47 in the cap 13^a. The invention provides means for yieldingly or releasably holding the cap 13^a in its out position where it covers the brush tuft 24^a. An annular groove 48 is provided in the body 14^a and detents 49 are provided on the interior of the cap 13^a and are adapted to cooperate with the groove 48. The groove 48 and the detents 49 are positioned so that the cooperation of the detents with the grooves holds the cap in its active or outer position where it encloses the brush tuft 24^a with suitable clearance. The

groove 48 and the detents 49 are shaped and related to allow the cap 13^a to be readily shifted inwardly to the position illustrated in Figs. 5, 6 and 8 of the drawing and to prevent the outward displacement of the cap from the body 14^a.

The operation of the device illustrated in Figs. 5 to 8, inclusive, of the drawing, is substantially the same as that of the previously described form of the invention. The cap 13^a with its closure 44 normally completely encloses the tuft 24^a. When it is desired to use the device the closure 44 is engaged and pivoted to release the catch 46 from the notch 47. The spring of the hinge 45 then holds the closure 44 in position against the conical portion 41. The cap 13^a may be shifted inwardly or rearwardly on the body 14^a so that the forward portion of the head 16^a extends through the opening 42 to expose the brush tuft 24^a for use. The rouge may be supplied to the brush tuft 24^a by threading the plunger 12^a into the body. Following the use of the device the cap 13^a is shifted outwardly or forwardly until the detents 49 cooperate with the groove 48. The cooperation of the detents 49 with the groove 48 limits the forward travel of the cap. The closure 44 may then be pivoted to close the opening 42. The catch 46 is adapted to cooperate with the notch 47 to hold the closure in its closed position against the opening 42. It will be noted that the device illustrated in Figs. 5 to 8 inclusive, of the drawing, does not involve any removable covers, tips, or the like, that may become lost or misplaced.

Having described only typical preferred forms and applications of our invention we do not wish to be limited or restricted to the specific details herein set forth, but wish to reserve to ourselves any variations or modifications that may appear to those skilled in the art or fall within the scope of the following claims.

Having described our invention, we claim:

1. An applicator including, an elongate body forming a container, a head threaded into the forward end of the body and having a discharge opening counter-bored from its inner end, a tubular brush shank carried in the counter-bored portion of said opening, a brush tuft on the shank projecting through the opening axially beyond the outer end of the head, a tubular extension on the shank projecting through the opening and beyond said end of the head and enclosed in the brush tuft to deliver material thereto and to maintain the shape of the tuft, and means for forcing material from the body through the shank and its extension to the brush tuft.

2. An applicator including, an elongated body forming a container, a head threaded with the forward end of the body and having a discharge opening communicating with the body and counter-bored from its inner end, a tubular brush shank seated in the counter-bored portion of the opening, and a brush tuft carried by the shank to project through the opening and beyond the forward end of the head.

3. An applicator including, an elongated body forming a container, a head threaded into the forward end of the body having a convergent forwardly projecting portion and having a discharge opening communicating with the body and counter-bored from its inner end and extending into the projecting portion, a tubular brush shank seated in the counter-bored portion of the opening, and a brush tuft carried by the shank to project through the opening and beyond the forward end of the head.

4. An applicator including an elongated body having a forwardly projecting convergent head terminating in a port substantially smaller in diameter than the body, a brush tuft carried in the opening to project forward beyond the head, a slidable cap on the forward portion of the body to extend over the head and brush tuft when in an extended position and having a convergent forward end part substantially conforming in shape and extent to the head to conform thereto when the cap is retracted and having an opening at its outer end to pass the brush tuft when the cap is retracted, and a closure pivotally carried by the cap to swing between a position where it closes the last-mentioned opening and a position where it lays close against the convergent part of the cap, the closure being shaped to fit the contour of said part of the cap when in the latter position.
5. An applicator including an elongated body, a head at the forward end of the body having a forwardly projecting convergent extension terminating at its outer end in a part substantially smaller in diameter than the body, a brush tuft projecting forwardly from said part of the head, and a slidable cap on the forward end of the body to extend over the head and brush tuft when in

an extended position and having a convergent forward end part substantially conforming in shape and extent to the extension of the head to conform to and closely fit the extension when the cap is retracted and having an opening at its outer end to pass the brush tuft.

6. An applicator including an elongated body, a head at the forward end of the body having a forwardly projecting convergent extension terminating at its outer end in a part substantially smaller in diameter than the body, a brush tuft projecting forwardly from said part of the head, a slidable cap on the forward end of the body to extend over the head and brush tuft when in an extended position and having a convergent forward end part substantially conforming in shape and extent to the extension of the head to conform to and closely fit the extension when the cap is retracted and having an opening at its outer end to pass the brush tuft, and a closure pivotally carried by the cap to swing between a position where it closes the opening in the cap and a position where it lays close against the convergent portion of the cap.

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