June 20, 1950 H. BRODER 2,511,966

LIPSTICK HOLDER

Filed July 27, 1946

Fig. 1.

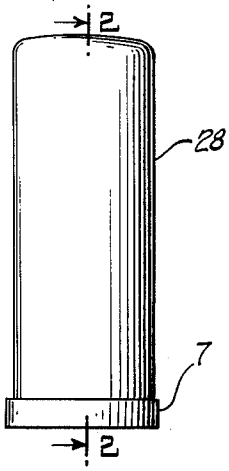


Fig. 2.

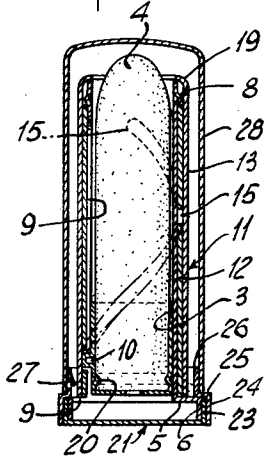


Fig. 3.

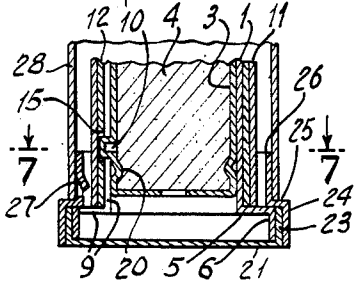


Fig. 4.

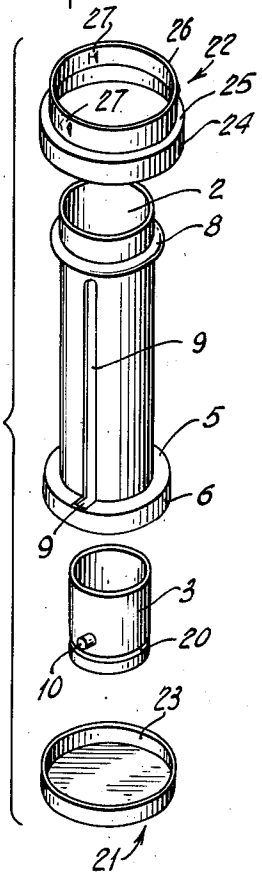


Fig. 5.

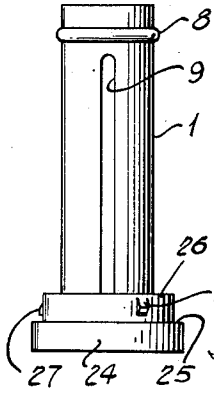


Fig. 6.

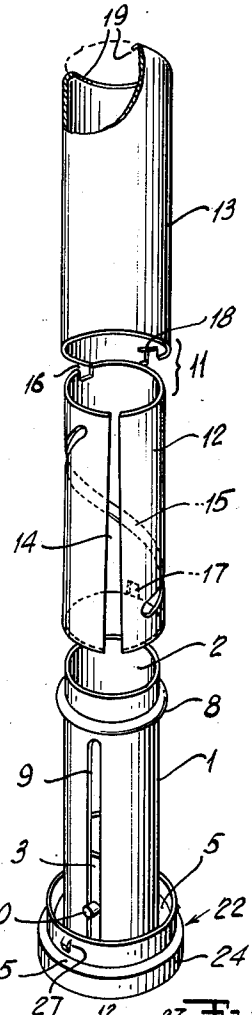
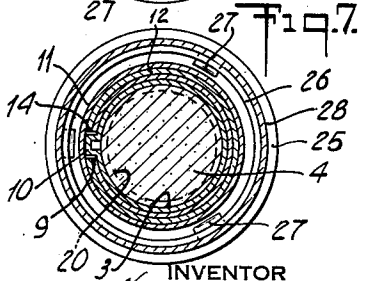


Fig. 7.



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2,511,966

LIPSTICK HOLDER

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10 Claims. (Cl. 206—56)

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This invention relates to a lipstick holder of the type having a lipstick cartridge arranged to be retracted into or projected from the holder by a relative rotation of certain of the parts.

In an ordinary construction of the art, the lipstick holder comprises a cartridge carrier having a laterally projecting pin, an inner shell presenting a bore to accommodate said carrier and formed with a longitudinal guide slot for the carrier pin, an outer shell member formed with a helical groove to receive the carrier pin, and a base made fast to the inner shell and rotatable therewith, relatively to the outer shell, in one direction to project the lipstick carriage outwardly from the bore for use, and in the opposite direction to retract the cartridge into the bore.

It is also customary to provide such a lipstick holder with a cover to prevent access to the lipstick of contaminating foreign matter, as well as to prevent the lipstick itself from coming in contact with and soiling other articles.

In my former Patent No. 2,351,395, issued June 13, 1944, the cover is seated upon the base in spaced relation to the outer shell whereby relative rotation of the inner and outer shells is prevented until the cover is removed. To hold the cover removably in place, the base is formed with an integral cone-shaped collar or with a series of integral bevelled lugs to make frictional contact with the inner face of the cover. This frictional contact between the cover and base is insufficient to prevent the turning of the base with reference to the cover but any such turning has no effect upon the lipstick carrier due to the clearance between the cover and the outer shell, the entire holder turning freely and idly within the cover. This characteristic is known as "free wheeling" in the trade and constitutes an important feature, since any up or down movement of the lipstick cartridge within the holder is prevented, whenever the cover is in place, even though the base may be inadvertently rotated with reference to the cover.

The foregoing description applies to lipstick holders of the prior art whether they be made wholly of metal or wholly of molded plastic material, or whether partly made of each. In all instances, the lipstick holders are subject to the disadvantage that it is difficult to manufacture the cover and the base with the degree of accuracy necessary to provide for the proper frictional engagement between them to hold the cover in place. Thus, if the internal dimension of the cover is too small, the cover either cannot be applied or, if applied, may become fractured (especially if made of molded plastic material) because of the excess pressure exerted by the friction surfaces on the cover. On the other hand, if the internal dimension of the cover is too large, it will fail to make the proper contact with the friction surfaces of the base and hence will fail to stay in place when applied. Standardization of parts, which is so desirable in production manufacture, is practically impossible.

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The defect above noted is particularly true of lipstick holders of the all-plastic type, such as shown in my prior patent above mentioned, due to the inevitable warping or distortion which takes place in curing, but it is also true of lipstick holders of the all-metal type, even if in lesser degree, due again to the inevitable warping or distortion which takes place in the metal drawing or other shaping operations because of the stresses set up in the metal.

Another defect with lipstick holders of the prior art goes to the form and arrangement of the outer shell with reference to the base. Ordinarily, and as shown in my prior patent aforesaid, the outer shell seats at its lower end upon the upper face of the base. Unless these parts are made with the greatest accuracy, which is very difficult for the reasons above stated, the line of juncture between the parts will be very noticeable and thus will give an unsightly appearance to the finished article.

The present invention is intended to obviate the above and other difficulties and contemplates a new form of base construction for lipstick holders which will not only cover up or conceal the line of juncture between the outer shell and the base and produce a neat pleasing finish to the article, but, in addition, will function unerringly to hold the cover in place notwithstanding any warping or distortion of the parts in manufacture. To these ends, specifically, the base is made up of the lower part of the inner shell and two adjuncts in the form of a disk and a shield, respectively, each adjunct, like the shell, being made of sheet metal, and both joined to the shell to form therewith a unitary structure. The shield presents a collar portion sufficiently spaced from the inner shell to accommodate the outer shell and rises above the lower end of the latter to conceal said shell's line of juncture with the base. The shield is also formed in said collar portion with three sheared-out spring fingers arranged at 120° apart around the circumference of the collar and which bear against the inner face of the cover to hold it frictionally in place upon the base. The three spring fingers act to hold the

cover in place by exerting, by reason of their resilience, the proper degree of friction upon the cover regardless of any warping or distortion thereof within the manufacturing tolerance, while permitting a free or idle rotation of the base with reference to the cover. The disk, which aids in binding the shield to the inner shell and also serves as a closure for that end of the lipstick holder, is formed at its perimeter with a surrounding wall.

Referring to the drawings:

Fig. 1 is an elevation of a lipstick holder embodying the present invention;

Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1;

Fig. 3 is a similar view of the lower part of the embodiment illustrated;

Fig. 4 is an exploded view of the inner shell, cartridge cup or base elements;

Fig. 5 is an elevation showing the combined inner shell and base;

Fig. 6 is an exploded view of the inner and outer shells, cartridge cup and base elements; and

Fig. 7 is a horizontal section taken on the line 7—7 of Fig. 3.

The lipstick holder, when assembled for use, includes an inner cylindrical shell 1 having a bore 2 which serves as a guide for a carrier or cup 3 adapted to contain a lipstick cartridge 4. The lower end of the inner shell is open and is expanded to form a flat annular rim 5 with a depending skirt 6, these parts, as later will be described, forming part of the base 7. The inner shell is also open at its upper end, near which it is fashioned with an annular bead 8 for a purpose presently to be described. Said shell is formed with a longitudinal slot 9 which serves as a guide for a pin 10 projecting laterally from the cartridge carrier or cup 3. The slot 9 extends from a point slightly below the bead 8 down through the length of the sleeve and through the annular rim 5.

The outer shell 11 encircles the inner shell 1 and is composed of an inner sleeve 12 and an outer sleeve 13. The inner sleeve is formed with a full length slit 14 for assembly purposes, with a helical slot 15 to cooperate with the carrier pin 10, and with a pair of notches 16 and 17, one at each end. The outer sleeve 13 is open at its lower end, where it is formed with an inturned lug 18, and it is also open at its upper end, where it is formed with a rolled-in flange or lip 19, further reference being made to these features.

In assembling the parts, the cup 3 having first been inserted into the inner shell 1 from below, the inner sleeve 12 of the outer shell is slipped over the inner shell 1 from the top, as permitted by the slit 14, until it comes to rest upon the rim 5 of the base and with its upper edge in engagement with the underside of the bead 8, see Fig. 2. During this operation, the inner sleeve 12 may be rotated with reference to the inner shell 1 until the pin 10 of the cup 3 registers with the helical slot 15. With the inner sleeve in place around the inner shell 1, the outer sleeve 13 is next applied in similar fashion, being pushed all the way down over the assembly until it comes to rest on the annular rim 5 and with the aforesaid rolled-in flange or lip 19 overhanging and covering the upper end of the inner shell 1.

Once the outer sleeve 13 is in place, the lug 18, near its lower end, will snap into the notch 17 formed in the lower end of the inner sleeve 12 and thus lock the parts together as one. In other words, the inner and outer sleeves 12 and 13, in the assembled condition of the parts, will make up a composite outer shell. The notch 16 in the upper end of the sleeve 12 will cooperate with the lug 18 on the outer sleeve 13 in the same way as the notch 17, if the sleeve should be assembled upside down. Thus, by the use of the two notches 16 and 17 in assembling the parts, it is not necessary to be concerned about which end of the sleeve 13 is slipped over the inner shell 1.

In their assembled relation, the inner shell 1 and the outer shell 11 are held together in rotatable fashion by means of the rolled-in flange or lip 19 formed at the upper end of the outer shell 11, which overhangs the top of the inner shell 1.

The lipstick cartridge 4 is held in place in the carrier or cup 3 by means of an inwardly formed bead 20 which embeds itself in the cartridge, as it is pushed down into the cup. It may be noted that this bead 20, as well as the pin 10, are pressed from the sheet metal body which composes the cup 3.

Referring now to the base construction, which constitutes the main feature of the present invention, it includes, in addition to the lower part of the inner shell 1, a closure disk 21 and a shield 22. The disk at its perimeter is turned up to form a wall 23 which corresponds in height with the skirt 6 of the inner shell 1, which it encircles and with which it is closely engaged in a forced fit.

The shield 22, at its lower part, forms a wall or collar 24 which surrounds the wall 23 of the disk and is closely engaged thereto also in forced fit. This part 24 of the shield rises to the top of the disk wall 23 and is then turned inwardly to form an annular rim or ledge 25 which rests upon the top of said wall 23 and upon part of the annular rim 5 of the inner shell, see Figs. 2 and 3. The ledge 25, at its inner perimeter, is turned upwardly to form an upper collar 26, which is spaced sufficiently from the inner shell 1 to accommodate the outer shell 11, which latter rests at its lower end on the rim 5 between the upper collar 26 and the inner shell 1. Thus, the line of juncture between the lower end of the outer shell 11 and the base will be concealed by the collar 26 which partially encloses the outer shell from its lower end up, giving a united and attractive appearance to the finished article notwithstanding any crudeness in the fit between the outer shell and the base.

As shown in the drawings, the upper collar 26 is formed with three sheared-out spring fingers 27 located at 120° apart around the circumference of the collar and protruding beyond the outer face thereof to make frictional contact with the inner face of a cover 28 which, it may be noted, completely encloses the outer shell 11 and rests at its lower end upon the ledge 25. It will be noted that there is full clearance between the cover and the outer shell so that relative rotation between the outer shell and the inner shell is impossible when the cover is in place, thereby eliminating any danger of crushing the lipstick cartridge against the top of the cover by any rotation of the base with reference to the cover. These spring fingers will be made to protrude far enough beyond the outer face of the collar 26 to accommodate covers of the largest as well as the smallest inside diameter, yielding more or less to conform to the actual inside dimension of the cover but always exerting enough friction to hold it in place while still permitting the base to turn freely or idly with reference to the cover. The spring fingers present sloping or rounded portions for

contact with the lower edge of the cover as it is applied to the base. It will be noted that the spring fingers will act as described notwithstanding any variation for any cause in the circumferential dimension of a cover. Further, the number of spring fingers may be varied as desired.

The cover 28 is preferably made of molded nylon which allows a thin cross section having sufficient strength for operation. Further, it is of light weight and possesses sufficient wearing qualities to withstand normal actuation. As another advantage, nylon may be pigmented and thus the cover be made to present a pleasing and attractive appearance. The other parts however, namely, the inner shell, the lipstick cartridge carrier or cup, the outer shell, and the disk and shield are preferably formed of drawn sheet metal (e. g. brass) but possessing the necessary degree of rigidity and flexibility at the proper points. It is advantageous to make the base element of three parts, as shown, since these parts can be fabricated separately and then assembled together as a unitary structure without undue waste of material and labor in the event of rejections due to faulty manufacture. If desired, the flanged disk 21 may be filled with heavy solid metal, as lead, in order to give weight to the base.

The invention is not limited to the precise construction and arrangement of the parts as shown, as many changes may be made in the details thereof without departing from the main principles of the invention or sacrificing its chief advantages. It is to be understood therefore that the invention is not to be limited to any specific form or embodiment except as such limitations are specified in the appended claims.

Having thus described my invention, what I claim is:

1. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated and having a skirt depending from the outer perimeter thereof, a closure disk having an upstanding perimetric wall surrounding and closely engaging said skirt, and a shield having a lower collar surrounding the wall of said disk, a flat annular ledge extending inwardly from the top of said collar and seated on said rim, and an upper collar rising from the inner perimeter of said ledge, the outer shell being seated on the rim between the inner shell and said upper collar and the cover being seated on the ledge outside of said upper collar.

2. A lip stick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated and having a skirt depending from the outer perimeter thereof, and a shield having a lower collar surrounding said skirt and affixed thereto, a flat annular ledge extending inwardly from the top of said collar and seated on said rim, and an upper collar rising from the inner perimeter of said ledge, the outer shell at its lower end being seated on the rim between the inner shell and said upper collar, and the cover at its lower end being seated on the ledge outside of said upper collar.

3. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated and having a skirt depending from the outer perimeter thereof, and a shield having a lower collar surrounding said skirt and affixed thereto, a flat annular ledge extending inwardly from the top of said collar and seated on said rim, and an upper collar rising from the inner perimeter of said ledge, the outer shell at its lower end seated on the rim between the inner shell and said upper collar, and the cover at its lower end being seated on the ledge outside of said upper collar, and said upper collar being formed with spring elements arranged in circumferentially spaced relation for frictional engagement with the inner surface of the cover to hold the cover removably in place while permitting a free and idle rotation of the collar with reference to the cover.

4. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated and having a skirt depending from the outer perimeter thereof, and a shield having a lower collar surrounding said skirt and affixed thereto, a flat annular ledge extending inwardly from the top of said collar and seated on said rim, and an upper collar rising from the inner perimeter of said ledge, the outer shell at its lower end being seated on the rim between the inner shell and said upper collar, and the cover at its lower end being seated on the ledge outside of said upper collar, and said upper collar being formed for frictional contact with the inner surface of the cover to hold the cover removably in place while permitting a free and idle rotation of the collar with reference to the cover.

5. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated, said rim having a skirt depending from the outer perimeter thereof, and a shield having a lower collar surrounding said skirt and affixed thereto to rotate therewith, a flat annular ledge extending inwardly from the top of said collar and seated on said rim, and an upper collar rising from the inner perimeter of said ledge, the outer shell at its lower end being seated on the rim between the inner shell and said upper collar, and the cover at its lower end surrounding and contacting the upper collar.

6. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim on which the outer shell is seated, said rim having a skirt depending from the outer perimeter thereof, and a shield having a lower collar surrounding said skirt and affixed thereto to rotate therewith, a flat annular ledge extending inwardly from the top of said collar, and an upper collar rising from the inner perimeter of said ledge, the outer shell at its lower end being seated on the rim betwen the inner shell and said upper collar, and the cover at its lower end surrounding and contacting the upper collar.

7. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim, said rim having an annular wall depending from a perimeter thereof, and

a shield having a lower collar affixed to said annular wall to rotate therewith, a flat annular ledge extending from the top of said collar and seated on said rim, and an upper collar rising from the perimeter of said ledge, the outer shell at its lower end being seated on the rim between the inner shell and said upper collar, and the cover at its lower end surrounding and contacting the upper collar.

8. A lipstick holder including, in combination, inner and outer shells rotatable with relation to each other and a cover, said inner shell at its lower end being formed with a flat annular outwardly extending rim, said rim having an annular wall depending from a perimeter thereof, and a shield having a lower collar affixed to said annular wall to rotate therewith, a flat annular ledge extending from the top of said collar, and an upper collar rising from the perimeter of said ledge, the outer shell at its lower end being seated on the rim between the inner shell and said upper collar, and the cover at its lower end surrounding and contacting the upper collar.

9. A lipstick holder according to claim 7, wherein the upper collar is formed for frictional contact with the inner surface of the cover to hold the latter removably in place.

10. A lipstick holder according to claim 8, wherein the upper collar is formed for frictional contact with the inner surface of the cover to hold the latter removably in place.

HARRY BRODER.

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