Aug. 9, 1932. S. BARENDSE ET AL 1,870,941

SHEATH CRAYON HOLDER

Filed April 20, 1931

Fig. 1

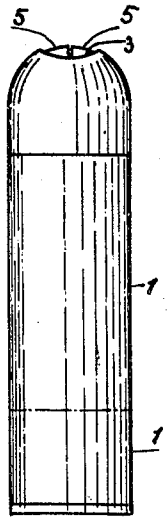


Fig. 2

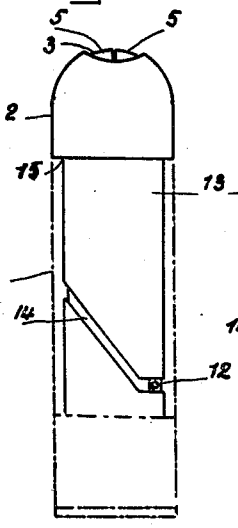


Fig. 3

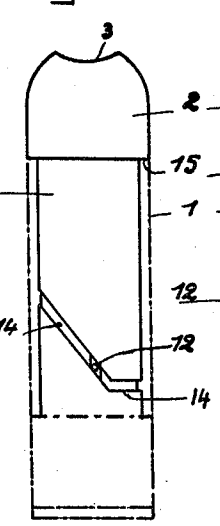


Fig. 4

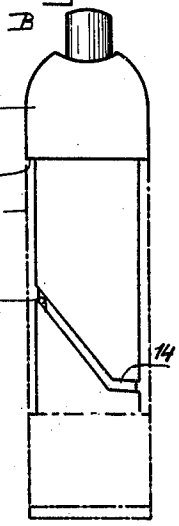


Fig. 5

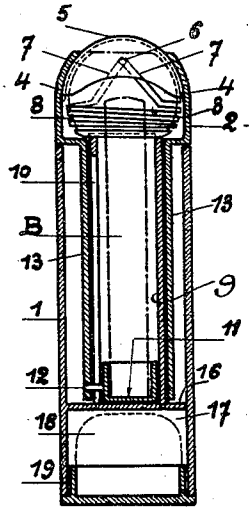


Fig. 6

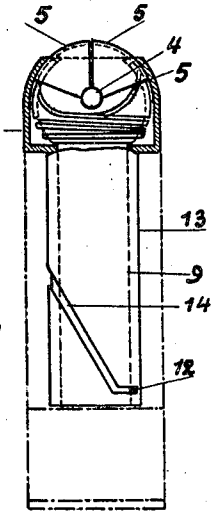


Fig. 7

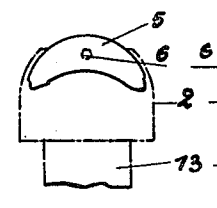
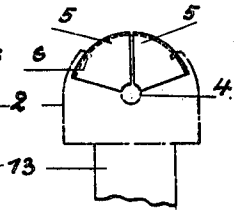


Fig. 8



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UNITED STATES PATENT OFFICE

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SHEATH CRAYON HOLDER

Application filed April 20, 1931, Serial No. 531,578, and in France February 28, 1931.

This invention relates to toilet accessories and has more particular reference to such devices which are carried by women and are commonly used to carry make-up material such as rouge or perfume in the form of sticks or crayons.

The primary object of the invention is to provide a sheath crayon holder of very simple and rugged construction and easy and practical manipulation making it possible for the user to hold it in one hand while causing the stick or crayon to project or retract by means of one finger only of said hand, the woman thus keeping her other hand free, for instance for holding a mirror, a powder puff or a vanity box in view of rapid making-up purposes.

A further object of the invention is to provide a sheath crayon holder comprising a simple closure remaining entirely located inside the head of the holder both in the open and in the shut position i. e. harmonizing itself to the general æsthetical contour of the holder without defacing it as do most swinging closures which project outside, said closure being nevertheless of a very easy manipulation by a single hand finger and of reliable and clean operation at all times.

A still further object of the invention is to provide a sheath crayon holder wherein the closure can never come in contact with the stick or crayon and can not therefore be stained or clogged thereby or spoil said crayon while efficiently protecting same when in closed position.

Still a further object of the invention is to provide a sheath crayon holder wherein the make-up or other operation never implies any contact between the crayon and the user's hand.

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

In the drawing:

Figure 1 is an elevational view showing the sheath crayon holder in its entirety, assuming the closure to be shut, for example in the position which the holder occupies when carried in a woman's hand bag or kit.

Figure 2 is a similar elevational view assuming however the body or sheath of the holder to have been taken away for the sake of clearness of illustration, the closure being also shut.

Figure 3 is another elevational view similar to Figure 2 but assuming the closure being opened for allowing the crayon to come out.

Figure 4 is an elevational view similar to Figures 2 and 3 but showing a further phase of the operation of the holder, to wit, the crayon in projecting position.

Figure 5 is a sectional view showing in detail the internal mechanism of the holder.

Figure 6 is a partly elevational and partly sectional view similar to Figure 5 but taken at right angles thereto.

Figure 7 is a fragmentary detail view of the closure.

Figure 8 is a view similar to Figure 7 but taken at right angles thereto.

Like reference characters designate like parts throughout the several views.

In the specific embodiment of the invention shown in said drawing, the numeral 1 designates the sheath-like or tubular body of the holder, and 2 the head of said body, said head being of rounded or hood form and so sized as to merge with the cylindrical wall of said body. The top of the head 2 is formed with a circular opening of sufficient size for giving free way to the rouge, perfume or other beauty stick or similar crayon designated generally by B. The head 2 is formed with two diametrically opposed inner circular fulcrum bosses 4 (see Fig. 6) which abut against the inner round edges of a pair of closure plates or shells 5 of arcuate outline, each of which has substantially the form of a spherical sector with chamfered ends.

Each shell 5 is fitted internally with a projecting pin 6 which engages in a cam groove 7 formed in the outer wall of an internal hollow core 8 in the form of a truncated sphere. This spherical core 8 is formed in its upper polar region with an aperture registering in size and position with the opening 3 in the

head 2, also for giving free way to the stick or crayon B. Each of the two cam grooves 7 corresponding to the pins 6 formed on the respective shells 5 slants down from the upper edge of the shell first steeply to an approximate angular extent of 60°, then very gently to an approximate extent of 300°, whereby each cam groove 7 covers the full circumference of the shell 5, angularly speaking.

The hollow core 8 is formed opposite to its polar aperture with an elongated extension 9 in the form of a sleeve having a narrow longitudinal slot 10 therein.

Inside the sleeve 9 is housed for free longitudinal motion a socket or cup 11 removably carrying the stick or crayon B. The socket 11 is provided with an outer pin 12 projecting into the slot 10.

The head 2 is formed opposite to its opening 3 with a tubular extension or bushing 13 so sized as to loosely fit over the sleeve 9 and formed with a helical slot 14 through which the pin 12 engages. The bushing 13 may be formed integral with the head 2 and provides a shoulder 15 against which bears the upper edge of the sheath-like body 1 of the holder. The helical slot 14 has a long pitch over the greater portion of its length except adjacent the base of the bushing 13 where it has a short pitch or merges into a slot at right angle to the longitudinal geometrical axis of the holder.

The sheath-like body 1 of the holder extends downwardly beyond a transverse partition 16 to delineate a compartment 17 wherein may be accommodated any toilet or make-up article such for example as a compact powder pad 18 tightly fitted in a removable base cover 19. To make the device a complete make-up kit, the outer face of this cover may be provided with a mirror.

The operation of the device is as follows: Assuming the several elements to occupy the respective positions shown in Figures 1 and 2 and the body 1 of the sheath crayon holder to be firmly held in the user's hand, by imparting to the head 2 by means of one finger only of said hand a rotational stress, the pins 6 on the shells 5 that are fulcrumed against the bosses 4 of the core 8 are forcibly moved along the cam grooves 7, whereby each shell 5 is shifted intermediate the head 2 and core 8 from its shut or visible position (shown in Fig. 2) to its opened or invisible position (shown in Fig. 3) till it is completely concealed or eclipsed inside the head 2. The disappearance of the crescent-like shells 5 takes place fairly quickly because it corresponds to the travel of the pins 6 along the steeper or ramp portion of the cam grooves 7 (approximately 60° in the embodiment shown that is to say one sixth of a revolution) whereafter each pin 6 continues its path along the gentle sloping portion of its associated groove. It is during this second part of the path of the pins 6 and consequently of the shells 5 that the stick or crayon B comes out of the sleeve 9. The displacement of the crayon is performed in the following way: When rotating under the action of the user's finger, the head 2 not only causes the closure shells 5 to be eclipsed but acts by means of its extension 13 formed with the cam-like slot 14 on the pin 12 secured to the socket 11. As said latter pin can not move except along the rectilinear slot 10 formed in the sleeve 9, it is shifted imperatively towards the head 2 and thus drives the crayon B toward the coincident opening and aperture formed in the head 2 and core 8. The beginning of the rotation of the head 2 which has the result of moving the pins 6 along the ramp portion of the cam grooves 7 corresponds to the path of the pin 12 along the non-inclined or very slightly inclined portion of the slot 14 so that there is no risk of the crayon B coming into contact with the shells 5 since the latter are certainly eclipsed off the opening 3 when said crayon has been sufficiently shifted outwardly for passing through said opening. As a matter of course, the length of the crayon B must be suitably reckoned to that effect.

By a reverse operation i. e. by rotating the head 2 with one finger only in the reverse direction relatively to the body 1 fixedly held in the user's hand, the crayon B can first be retracted inside the holder and the crescent-like shells 5 thereafter automatically brought back to closing position, as shown in Fig. 2.

It will be appreciated that the invention is not limited to the specific constructional details that are shown. Thus for example the number and shape of the closure plates or shells 5 might be varied as well as the number of the associated cam grooves 7. Similarly the gear transmitting the motion of the head 2 to the stick or crayon in unison with the opening or shutting motion of said closure plates might also be different from the one specifically shown and described. Finally the lower compartment 17 of the holder might be occupied by any article such for instance as a powder puff.

It will also be appreciated that the word "crayon" must be construed in the broad meaning of any object of elongated shape requiring to be protected or sheathed and to be projected or retracted at required moments, all such alternatives being intended to be included in the scope of the subjoined claims.

What we claim and desire to secure by Letters Patent is:

1. A sheath crayon holder comprising, in combination, a tubular body, a head revolubly fitted on the body and having an opening in its face remote from said body and a tubular extension accommodated in said body, a stationary hollow core freely housed in the head and having an aperture coin-

ciding with the head opening and an extension housed in the head extension, a closure swivelingly fulcrumed intermediate the head and core for moving therebetween toward or away from said coincident opening and aperture responsive to a rotation of the head, a support for the crayon slidably housed in the core extension, and a gear whereby rotation of the head in the one or other direction while moving said closure to open or shut position shifts the crayon outwardly or inwardly of the holder.

2. A sheath crayon holder comprising, in combination, a tubular body, a head revolubly fitted on the body and having an opening in its face remote from said body and a tubular extension accommodated in said body, a stationary hollow core housed in the head and having an aperture coinciding with the head opening and an extension freely housed in the head extension, a closure slidably located intermediate the head and core, said closure being fulcrumed on the head and swivelingly connected to the core for being slid toward or off said coincident opening and aperture through the space between the core and head responsive to a rotation of the latter, a support for the crayon slidably housed in the core extension, and a gear whereby rotation of the head in the one or the other direction while moving said closure into open or shut position shifts the crayon outwardly or inwardly of the holder.

3. A sheath crayon holder comprising, in combination, a tubular body, a head revolubly fitted on the body and having an opening in its face remote from said body and a tubular extension freely accommodated in said body, a stationary hollow core provided on its outer face with cam means and housed in the head, said core having an aperture coinciding with the head opening and an extension freely housed in the head extension, a closure slidably located intermediate the head and core, said closure being fulcrumed on the head and fitted on its inner face with cam means associated with the cam means on the core for being slid toward or off said coincident opening and aperture through the space between the core and head responsive to a rotation of the latter, a support for the crayon slidably housed in the core extension, and a gear whereby rotation of the head in the one or the other direction while moving said closure into open or shut position shifts the crayon outwardly or inwardly of the holder.

4. A sheath crayon holder comprising, in combination, a tubular body, a head revolubly fitted on the body and having an opening in its face remote from said body and a tubular extension freely engaged in said body, a stationary hollow core provided on its outer face with a pair of symmetrically slanting cam grooves and housed in the head, said core having an aperture coinciding with the head opening and an extension freely housed in the head extension, a pair of arcuate closure plates located intermediate the head and core, each of said plates being fulcrumed on the head and fitted on its inner face with a pin engaged in one of the cam grooves in the core for being slid toward or off said coincident opening and aperture responsive to a rotation of the head, a support for the crayon slidably housed in the core extension, and a gear whereby rotation of the head in the one or the other direction while moving said closure plates into open or shut position shifts the crayon outwardly or inwardly of the holder.

5. A sheath crayon holder comprising, in combination, a tubular body, a head of rounded form revolubly fitted on the body and having an opening in its face remote from said body, said head being formed with a pair of inner bosses and with a tubular extension freely accommodated in said body, a stationary hollow core of truncated spherical shape housed in the head and provided on its outer face with a pair of symmetrically slanting cam grooves each comprising a shorter steep slope and a longer gentle slope, said core having an aperture coinciding with the head opening and an extension freely housed in the head extension, a pair of crescent-shaped closure shells located symmetrically intermediate the head and core, each of said shells being fulcrumed on a head boss and fitted on its inner face with a pin engaged in one of the cam grooves in the core for being slid toward or off said coincident opening and aperture responsive to a rotation of the head, a support for the crayon slidably housed in the core extension, and a helical cam slot gear whereby rotation of the head in the one or the other direction while moving said closure shells into open or shut position shifts the crayon outwardly or inwardly of the holder.

6. A sheath crayon holder comprising, in combination, a tubular body, a head of rounded form a revolubly fitted on the body and having an opening in its rounded face remote from said body, said head being formed with a pair of inner bosses and with a helically slotted tubular extension freely accommodated in said body, a stationary hollow core of truncated spherical shape housed in the head and provided on its outer face with a pair of symmetrically slanting cam grooves each comprising a shorter steep slope and a longer gentle slope, said core having a polar aperture coinciding with the head opening and an opposite polar extension freely housed in the head extension and formed with a rectilinear longitudinal slot, a pair of crescent-shaped closure shells located symmetrically intermediate the head and core, each of said shells being fulcrumed on a head boss and fitted on its inner face with a pin engaged

in one of the cam grooves in the core for being slid toward or off said coincident opening and aperture responsive to a rotation of the head, a support for the crayon slidably housed in the core extension, and a pin secured to said support and projecting into the slots in the two extensions whereby rotation of the head in the one or the other direction while moving said closure shells into open or shut position shifts the crayon outwardly or inwardly of the holder.

In testimony whereof we affix our signatures.

SIMON BARENDSE.
LOUIS GARREAU.