This invention relates to new and useful improvements in eyelash curlers and, more particularly, to mascara and Vaseline applicators therefor. The mascara applicator comprises a unit which includes a brush or sponge applied with the mascara or Vaseline and is movable with one of the parts of the curler to effect a wiping action of the liquid mascara, or caked mascara made in a curved mould shaped to the form of the brush, Vaseline or any other preparation used for this purpose on the eyelashes.

One object of the invention is to construct said unit in such manner that the brush or sponge is movable to effect said wiping action independently of the said curler part.

Another object of the invention is to construct the unit in such manner that the brush or sponge associated therewith is readily removable for replacement or the like.

Still another object of the invention is to construct the unit in such manner that the same is readily mounted on existing curlers.

A further object of the invention is to arrange said unit in such manner that the same does not interfere with the normal action of the curler.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a side elevational view of a known curler having one form of the unit of the invention permanently mounted thereon.

Fig. 2 is a partial end view of said curler as seen from the right of Fig. 1.

Fig. 3 is a fragmentary perspective view of the head portion of said curler.

Fig. 4 is a side elevational view of the brush to be attached to the unit of Figs. 1-3.

Fig. 5 is a frontal elevation of said brush.

Fig. 6 is a fragmentary sectional view on about line 6-6 of Fig. 2, but with the brush mounted in operative position.

Fig. 7 is a perspective sectional view on the line 7-7 of Fig. 5.

Fig. 8 is a perspective view of a modified form of the unit.

Fig. 9 is a perspective sectional view similar to Fig. 7 but illustrating a roller sponge instead of the brush.

Fig. 10 is a perspective view of a modified form of the unit.

Fig. 11 is a large scale side elevation of the curler illustrating a modified form of the unit of the invention.

Fig. 12 is an exploded isometric view of the unit of Fig. 11.

Fig. 13 is an elevational view of the top portion of an eyelash curler in accordance with a modification of the present invention.

The mascara and Vaseline applicator, in accordance with the first form of the present invention shown in Figs. 1 to 7, is illustrated applied to an eyelash curler having handle portions 15 and 16 which are pivoted together by a pivot pin 17. These handle portions have loops 18 in which the index finger and the thumb can be inserted.

Extending upwardly from the handle portion 15 and coextensively therewith are side portions 21 which are connected together at their top ends by an arcuately shaped shield 22 conforming in shape to the eyelash and extending high above the ends and bent rearwardly to prevent the eyebrow from being coated with mascara or Vaseline which is being applied to the eyelash. The bottom edge of the shield serves as an edge against which the collected eyelashes are pressed and over which they are bent up or curled.

The other handle 16 has an extension or arm 23 to which the lower ends of a pair of movable or upwardly slidable parts 24 are connected. As the handles 15 and 16 are drawn together the parts 24 are moved upwardly. Connected across the upper ends of parts 24 is a channel member 25 mounting a rubber filler 27 of arcuate shape and conforming to the contour of the lower edge of shield 22. The rubber filler 27 can be cemented or force fit in the channel 25 by any suitable metal to rubber adhesive and thus may be replaced when required. The outer ends of the channel 25 have a ring formation 26 slidable on the side portions 21 of the handle 16. When the rubber filler 27 engages the under edge of the shield 22 with the eyelashes therebetween, the eyelashes are rolled upwardly over the edge of the guide.

The upwardly extending parts 24 to which the channel 25 is secured, extend from the arms 16 at a gently inclined angle to a point 30 beyond their centers where they are bent sharply upward to channel 25. These sharply upturned portions of the parts 24 are inclined away from one another as they extend upward, see Fig. 2.

According to the invention, an applicator unit is mounted on the diverging upper portions of the parts 24. One form of said unit is illus-
treated in Figs. 1-7 and comprises a sheet metal strap 31 bent on itself as at 32 to embrace one of said diverging portions and having one end wrapped around the other of said portions as at 33. The portion of strap 31 extending between bends 32 and 33 is located on the sides of parts 24 adjacent the concave side of channel 25. The portion of the strap extending across the other side of the part 24 is bent upward at right angles at a point centrally disposed between said parts to provide a mounting ear 34. The projecting end of ear 34 is, of course, suitably rounded. If desired, the bent end 33 of strap 31 may be welded to the associated part 24, although such is not required.

Projecting laterally from the ear 34 is a T-shaped stud 35 having a head 36 extending at an angle of approximately 45° relative to the vertical. Mounted on stud 35 is a washer 37 with a flat convex-concave surface to provide a light spring tension as will become apparent hereinafter. Adapted to be mounted on the stud 35 is an applicator which may be in the form of a brush 38 as shown in Figs. 4 and 5, in the form of a roll sponge 40 as shown in Fig. 9, or in the form of a foam or a comb or the like. The brush 38 consists of a backing member 41 having the same arcuate shape as channel member 25 and suitable bristles projecting from the edge thereof. Projecting angularly downward from the center of the concave side of backing member 41 is a handle portion 42 which at its end is formed into a loop 43 for engagement by a user's finger. Located in handle portion 42 is a slot 44 adapted to embrace the stud 35.

The construction is such that by aligning the head 36 of stud 35 with the slot 44, the latter may be engaged over said stud against the light tension of the spring washer 37. Turning handle 42 of course locks the applicator on said stud, the said handle being pressed against the head 36 by spring washer 37. The handle 42 of the brush 38 is thus located with respect to the stud 35, and when an eyelash is gripped between channel 25 and shield 22 and curled up along the latter, the brush may be moved vertically upward to the full line position of Fig. 6 to apply mascara to the eyelash, then outward to the dot-dash position of said figure to disengage the brush from the eyelash, and finally downward to the starting point of another upward stroke. These movements are, of course, controlled by a finger inserted into loop 43. It is appreciated, of course, that the applicator can be used without the spring washer 37.

The unit of the invention may be made of plastic or metal or a combination of both as desired. Further, the stud 36 and the slot 44 may have their locations changed if desired, that is, the slot may be located in ear 34 and the stud in handle 42.

It is evident that brush 38 can readily be removed for replacement by another applicator such as the roll sponge 40 illustrated in Fig. 9, which preferably is utilized in a moistened condition to remove old caked mascara or the like. The construction of the roll sponge applicator is substantially the same as that of the brush and like parts are given the same reference numerals with a prime added. The basic difference in the two applicators is that in the roll sponge, backing member 41' serves as a support for the wire rod 46 which extends along the concave face thereof and has its end embedded in the ends of said member, rather than for a set of bristles. Mounted on the rod 46 is a spongy roller 41 by which liquid can be applied to the eyelashes as described above to loosen or remove old caked mascara.

Referring to Fig. 8 there is disclosed a modified mounting means for the applicators. This means consists of a trapezoidal block or plate 48 having grooves 50 in the tapering edges thereof. The width of one end of each groove extends further than that on the other side so that a sort of shelf 51 is provided at the one side of each groove. Projecting centrally from the face of plate 48 opposite the shelves 51 is an ear 52 having a laterally extending T-shaped stud 53 with a head 54. Ear 52 and its appurtenance function in the same manner as described above with reference to ear 34.

The construction is such that the grooves 50 may be engaged on the diverging portions of curler parts 24 at their upper ends, and plate 48 pressed downward to tightly engage the closer lower ends of said portions in the grooves. The shelves 51, it will be seen, acts as a safeguard against pressures applied to ear 52. This form of applicator mounting means is readily applicable to the eyelash applicators of persons without the utilization of tools.

Another simply attached mounting means is shown in Fig. 10 and comprises a trapezoidal plate 55 having either tapering edge curled to form a spring clip 56. An ear 57 with a T-shaped stud 53 is secured to the face of plate 55 away from the clips 56.

The construction is such that the spring clips 56 may be snapped over the diverging portions of curler parts 24 to secure the device in place for use on the eye lid with the slot 44 being engaged by the upturning bend 30 therein. The sides edges of the horizontal portion of plate 50 are provided each with a curled ear 52 which tightly embraces one arm of a roll sponge 40 which extends beyond the curler parts 24 above the inclined portion 30. There is included a cross piece of yoke 63 engages the faces of the parts 24 opposite to those engaged by the inclined portion 61 of plate 50. Beyond the curled ears 52 the arms of yoke 63 are bent upward and pass through ring-like extensions 64 projecting from the sides of a vertical channel piece 65. Above the rings 64 the yoke arms are bent off to prevent disengagement of the parts. Channel piece 65 is provided with partial rear walls 66 separated by a vertical opening 67. Adapted to be removable engaged in the channel piece 65 is a rectangular block 68 projecting downward from a backing member 70 curved to complement shield 22 and channel 25, said backing member in the illustrated instance forming the rigid portion of a brush also including bristles 71. Any type of applicator having a block 68 may be utilized however. Projecting rearward from block 68 is a finger piece 72 adapted to extend through the opening 67 in the rear of channel 65 to facilitate insertion and removal of the applicator.

In order to provide for moving the applicator up and down to treat eyelashes clamped between shield 22 and channel 25, a vertical bar 73 is spot welded to the lower interior of channel 65 and has its lower end curled into a finger loop 74.
The construction is such that by moving bar 73 up and down, channel 65 is shifted vertically on the yoke side arms and carries the applicator with it.

In some instances it is desired that the eyelashes be coated with mascara but not curled.

To provide for this, a limit block 75, see Fig. 11, may be journaled mounted on handle 16 in position to be swung into the path of handle 16 to prevent clamping together of shield 22 and channel 25.

The modified form of eyelash curler illustrated in Fig. 13 is formed with spaced vertical extended slots 25a which extend through the top edge of that outer or rear wall of the channel 25. The slots 25a make it possible to insert pins or the like into the rubber filler 27 for obtaining a grip thereon for lifting the rubber filler out of the channel and may be either at the front, back or they may extend through the channel.

Furthermore, the shield 22' of the eyelash curler has its top edge 22a smoothly curved upward in the center where greater height is desired to shield the edge from mascara, Vaseline or any other preparation use for this purpose when applied to long lashes and also to protect the mascara from touching the base of the eye.

The shield 22', as usual, can be made of metal or a synthetic plastic material.

The modified curler of Fig. 13 is adapted to be used with the mascara and Vaseline applicators constructed in accordance with any one of the several modifications of the present invention all as previously herein described.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. In an eyelash curler having a shielding member, a mascara and Vaseline applicator mounted for movement with said movable member and including a T-head pivot stud and an applicator element having a handle and a slot by which the same is slidably pivoted on said stud.

2. In an eyelash curler having a shielding member movable against said shielding member, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods and provided with a stud to which said applicator is slidably pivotally attached, said applicator including a brush having an arcuate backing member curved to conform with the shape of the eyelid from projecting from said backing member, a finger loop at the end of the handle and a slot in said handle by which the applicator is attached to the stud on the mounting unit.

3. In an eyelash curler having a shielding member movable against said shielding member, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator provided with a handle having a slot therein and a mounting unit provided with a projecting stud secured on the converging portions of said rods and to which said applicator is slidably pivotally attached, said unit including a plate member mounted on the converging portions of said rods, an ear projecting centrally from said plate member, a T-head stud projecting laterally from said ear and engaged with said slot and a convexo-concavely sprung spring washer on said stud.

4. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods, an ear projecting centrally from said plate member, a T-head stud projecting laterally from said ear and a convexo-concavely sprung spring washer on said stud.

5. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, an applicator for removing caked mascara from the eyelashes, said applicator being provided with a handle having a slot therein, and a mounting unit provided with a projecting stud secured on the converging portions of said rods and to which said applicator is slidably pivotally attached.

6. In an eyelash curler having a shielding member movable against said shielding member, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, an applicator for removing caked mascara from the eyelashes, and a mounting unit secured on the converging portions of said rods, an ear projecting centrally from said plate member, a T-head stud projecting laterally from said ear and engageable with said slot and a convexo-concavely sprung spring washer on said stud.

7. In an eyelash curler having a shielding member movable against said shielding member, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, an applicator for removing caked mascara from the eyelashes, and a mounting unit secured on the converging portions of said rods and to which said applicator is slidably pivotally attached, said unit including a plate member mounted on the converging portions of said rods, an ear projecting centrally from said plate member, a T-head stud projecting laterally from said ear and a convexo-concavely sprung spring washer on said stud, and said applicator including a roller sponge, an
arculate backing member on which the sponge is mounted, a handle projecting from said backing member, a finger loop at the end of said handle, and a slot in said handle slidably engaged on said T-head stud.

8. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods and to which said applicator is slidably pivoted attached, said unit including a strap extending between the diverging portions of said rods and curled about both, an extension of said strap having an ear extending outwardly centrally of the rods, said stud projecting laterally from said ear, and a convexo-concavely sprung spring washer on said stud.

9. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods and to which said applicator is slidably pivoted attached, said unit including a strap extending between the diverging portions of said rods and curled about both, an extension of said strap having an ear extending outwardly centrally of the rods, a T-head stud projecting laterally from said ear, and a convexo-concavely sprung spring washer on said stud, and said applicator including a brush having an arcuate backing member curved to conform to the shape of the eyelid, a handle projecting from said backing member, a finger loop at the end of the handle, and a slot in said handle slidably engaged on said T-head stud.

10. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods and to which said applicator is slidably pivoted attached, said unit including a strap extending between the diverging portions of said rods, a T-head stud projecting laterally from said ear, and a convexo-concavely sprung spring washer on said stud, and said applicator including a brush having an arcuate backing member curved to conform to the shape of the eyelid, a handle projecting from said backing member, a finger loop at the end of the handle, and a slot in said handle slidably engaged on said T-head stud.

11. In an eyelash curler having a shield, a member movable against said shield, and a pair of rods for moving said members, said rods extending downward from said member at a sharp angle in a converging manner to bends from which the rods extend downward at a gentler angle, a mascara and Vaseline applicator and a mounting unit secured on the converging portions of said rods and to which said applicator is slidably pivoted attached, said unit including a strap extending between the diverging portions of said rods, a T-head stud projecting laterally from said ear, and a convexo-concavely sprung spring washer on said stud, and said applicator including a brush having an arcuate backing member curved to conform to the shape of the eyelid, a handle projecting from said backing member, a finger loop at the end of the handle, and a slot in said handle slidably engaged on said T-head stud.

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