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2,602,458

EYELASH CURLER

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Fig. 1.

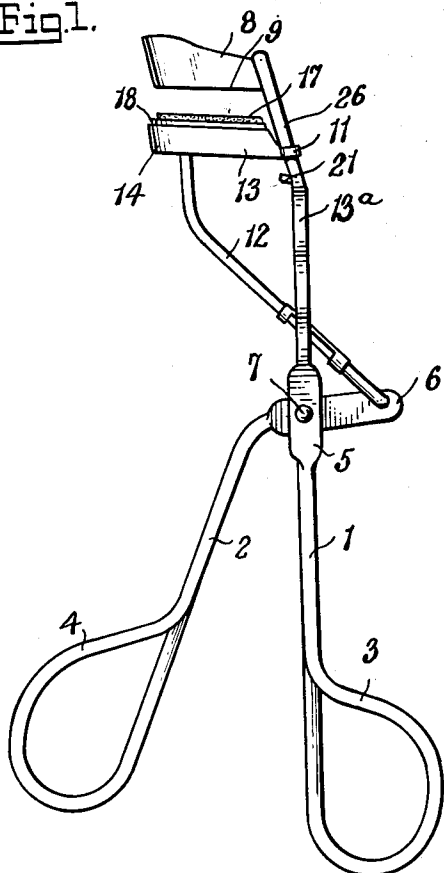


Fig. 2.

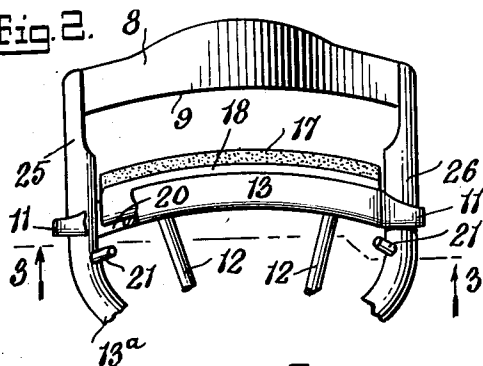


Fig. 3.

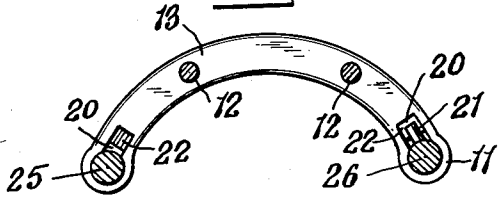


Fig. 4.

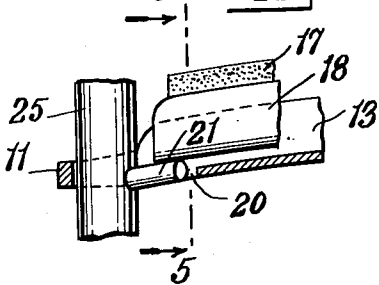
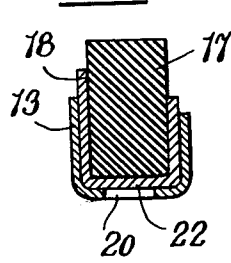


Fig. 5.



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UNITED STATES PATENT OFFICE

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EYELASH CURLER

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6 Claims. (Cl. 132—32)

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This invention relates to eyelash curlers, an example of the type to which the present invention relates being shown in Patent No. 2,052,588, dated September 1, 1936.

In said patent is disclosed an eyelash curler provided with a curved or arcuate fixed or upper jaw, toward which a second, or lower jaw, is moved by operation of a manipulating handle. The lower jaw is provided with a soft, yielding cushion or pad composed of rubber or material of similar characteristics and which is brought into contact with the lower edge of the upper jaw. After considerable use, the soft cushion or pad often becomes flattened or compressed and requires replacement. It has been proposed that the cushion or pad be mounted in a curved or arcuate metallic channel strip shaped to fit the interior of the lower or movable jaw and to be frictionally held by said jaw so that the cushion or pad, mounted in a curved metallic strip as above described, will constitute a "cartridge" insertable in the lower jaw in a unitary manner.

With a construction as above described, it has been found that the cartridge often becomes rather firmly anchored in the jaw in which it is inserted, with the result that the user of the device sometimes finds it difficult to dislodge and remove the cartridge. At times, extraordinary effort is required to pry the cartridge out of the jaw and this sometimes results in distortion or damage to the jaw.

The primary object therefore, of the present invention, is to provide a renewable cushion or pad in the preferred cartridge form, and including an arrangement by which such a cartridge may be readily forced out of its position in the movable or lower jaw of the curler by means forming a part of the curler, and readily replaced by a new cartridge, without the possibility of the jaw of the curler becoming defaced or damaged.

More particularly, the invention contemplates the provision of an eyelash curler having a movable jaw of substantially channel-shaped cross sectional shape and in which a cartridge, consisting of a metallic cushion-carrying strip or frame holding a soft and yielding cushion, is fitted and is frictionally held, the movable jaw being provided with apertures in its lower end, exposing parts of the cushion-carrying strip; the yoke on which the movable jaw is slidably mounted being provided with suitably positioned lugs or radially projecting lifter pins so located that when the movable jaw has been moved to its limit in a direction away from the fixed jaw,

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these pins will enter the apertures in the movable jaw and engage the cushion-carrying strip and raise it and its cushion out of the movable jaw, thus permitting the cushion to be readily replaced by a new one.

In the accompanying drawing, wherein an illustrative embodiment of the invention is shown, Fig. 1 is a side elevation of an eyelash curler in open position, provided with the improved construction; Fig. 2 is an enlarged rear view of the upper portion of the curler, showing the jaws in open position, with a portion of one of the jaws being broken away to disclose construction; Fig. 3 is a sectional view, taken on the line 3—3 of Fig. 2, looking in the direction of the arrows; Fig. 4 is a detail view, showing how the cartridge is raised out of the movable jaw by the lifter pins; and Fig. 5 is a sectional view taken on the line 5—5 of Fig. 4, looking in the direction of the arrows.

In the embodiment of the invention shown in the drawing, the curler is provided with a supporting lever 1 which is rigidly connected to the curved or arcuate upper or fixed jaw 8, and it also forms a support and guide for the lower or movable jaw 13. The supporting lever 1 is constructed preferably of a single piece of wire doubled upon itself to form a finger loop 3 at one end and a yoke or fork at the other end on which the lower or movable jaw 13 is slidably guided. The second handle of the device is shown at 2 and the same is provided at one end with the finger loop 4 and at its other end with a flattened offset portion 6 pivoted between flattened portions 5 of the supporting lever 1, by means of the pivot pin or rivet 7.

The lower or movable jaw 13 consists of an arcuately curved channel member 14 provided at its opposite ends with the guide loops 11 slidably mounted on the upper yoke portion or fork 13a of the supporting lever 1. Said yoke portion includes the two spaced rods 25 and 26. A link 12 of yoke or wishbone formation is pivoted at one end in the offset end 6 of the movable handle 2, and its other or forked end, is attached to the bottom of the lower or movable jaw 13. This arrangement is such that when the handle member 2 is moved toward the member 1, the lower or movable jaw 13 will be elevated and a yielding or compressible cushion or pad 17 supported by the movable jaw 13 will be brought into contact with the curved lower edge 9 of the fixed or upper jaw 8, whereby an eyelash inserted between the cushion or pad and the lower edge 9 of the upper fixed jaw 8 will be suitably curled.

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The cushion or pad 17 consists of a strip of soft rubber or some similar material of yielding and resilient characteristics, and said strip is secured in and supported by a channel-strip 18 of metal, suitably curved and of a size to snugly fit within the lower or movable jaw 13 in a manner to permit the upper portion of the rubber strip 17 to project above the top of said jaw and contact with the lower edge 9 of the upper jaw when the lower jaw is raised. The rubber strip 17, constituting the cushion or pad, may be fixedly held in its channelled support or carrier 18 by being adhesively secured therein, or by tongues stamped out of the channel strip 18 and embedded in the rubber, or otherwise maintained in place. The result is that the strip or pad 17 and the channelled support 18 fitted thereon become a unitary cartridge for fitment, use and replacement in the movable or lower jaw 13.

The lower jaw 13 is provided with the channel 14 and in its bottom, at its opposite ends adjacent to the loops 11, are apertures 20 which expose parts 22 of the cushion-carrier 18. Located on each of the rods 25 and 26 of the yoke 13a, is an inwardly and radially-extending lifter pin or lug 21. These two pins 21 are so positioned that when the lower or movable jaw is moved downwardly or in a direction away from the fixed jaw to a predetermined extent, the pins 21 will pass through the apertures 20 and contact with the parts 22 of the cushion-carrier 18 and raise the carrier 18 out of the jaw 13, at least to a sufficient extent to enable the cartridge, consisting of the cushion carrier 18 and its contained cushion 17, to be picked out of the jaw 13 and a new one readily dropped in place in the jaw.

In the operation of the curler, the eyelash to be curled is placed between the rubber pad or cushion 17 and the lower edge 9 of the upper jaw 8, and when the handle 2 is moved in a direction toward the lever 1, the lower or movable jaw 13 is elevated to cause the eyelash to be curled between the cushion 17 and the edge 9 of the upper jaw. After considerable use, the cushion or pad 17 may become hardened, compressed or misshapen and in such case it is desirable to replace it. This involves the removal of the cartridge, consisting of the channelled cushion-carrier 18 and its contained pad 17. By merely moving the handles 1 and 2 apart to a sufficient extent and preferably to an extent slightly beyond the normal opening movement of the device, the movable jaw 13 will be moved down to cause the lifter pins 21 to enter the apertures 20 and engage the cushion-carrier 18 and raise it out of the jaw 13 at least to an amount sufficient to enable the user to pick it up and remove it from the jaw. A new cartridge is then dropped in the jaw 13 and the jaws brought together and this action will seat the cartridge firmly in the lower or movable jaw 13.

What we claim is:

1. In an eyelash curler, a fixed jaw and a movable jaw, a yoke on which the fixed jaw is supported and on which the movable jaw is slidably mounted and is movable to and from the fixed

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jaw, the movable jaw being channelled and receiving a cushion, said movable jaw being apertured, and means on the yoke for entering the aperture and engaging the cushion to raise it out of the movable jaw when the movable jaw is moved for a predetermined distance away from the fixed jaw.

2. In an eyelash curler, a handle portion terminating in a yoke, a fixed jaw mounted on said yoke, a movable jaw slidable on the yoke toward and away from the fixed jaw, a channel-strip removably fitted in the movable jaw, a cushion fitted in said channel strip, the movable jaw having apertures, and projections extending from the yoke for entry into said apertures to engage the channel strip and raise it and the cushion carried by it when the movable jaw is moved for a predetermined distance away from the fixed jaw.

3. In an eyelash curler, a pair of jaws, one being movable toward the other, a frame on which the movable jaw is slidably mounted, the movable jaw being apertured, a cushion carried by the movable jaw, and means for ejecting the cushion from the movable jaw comprising elements on the frame entering the apertures in the movable jaw and raising the cushion out of the jaw when the movable jaw is moved for a predetermined distance away from the fixed jaw.

4. In an eyelash curler, a frame including a yoke having substantially parallel arms, a fixed jaw secured at the ends of said yoke-arms, a channel-shaped movable jaw slidable on the arms toward or away from the fixed jaw, a cushion-carrier removably fitted in the movable jaw, the movable jaw having apertures exposing parts of the cushion-carrier, and projections extending radially from the yoke arms and adapted to enter said apertures and engage the exposed portions of the cushion carrier and elevate said cushion-carrier out of the movable jaw when the movable jaw had been moved to an extent sufficient to cause said projections to enter the apertures.

5. In an eyelash curler as provided for in claim 4, wherein the apertures in the movable jaw are located in the under part of the same adjacent to the ends of said jaw, and the projections are in the form of pins located on the arms of the yoke below the movable jaw and near the limit of movement of the movable jaw in a direction away from the fixed jaw.

6. In an eyelash curler, a pair of co-operating jaws, a U-shaped strip removably fitted in one of the jaws, a cushion mounted in and held by the strip, the said jaw having apertures exposing a part of the U-shaped strip, a frame member on which the said jaw is movably mounted, and means on said frame in the path of movement of the said jaw to enter said apertures and push the U-shaped strip and its contents out of said jaw.

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No references cited.