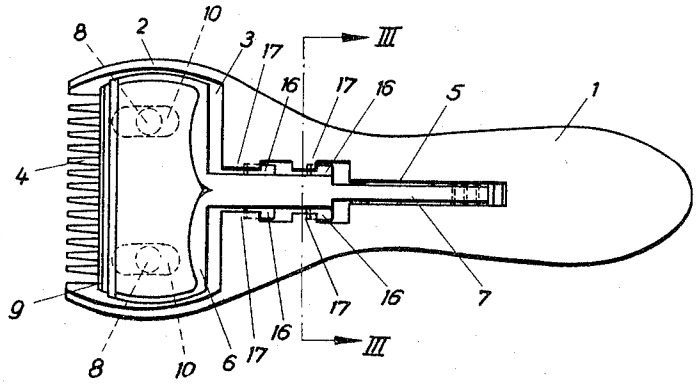
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ADJUSTABLE HAIR-TRIMMING DEVICE

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Fig. 1



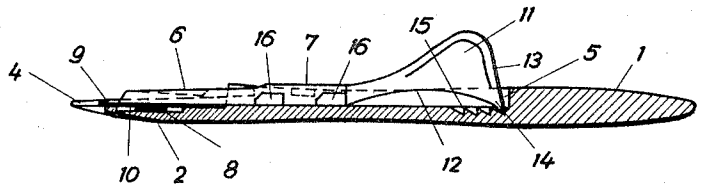




Fig. 2

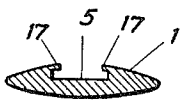



Fig. 3

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Fig. 4

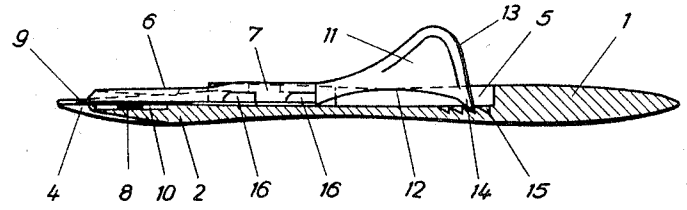



Fig. 5

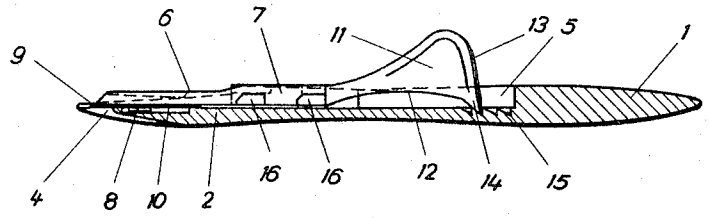



Fig. 6

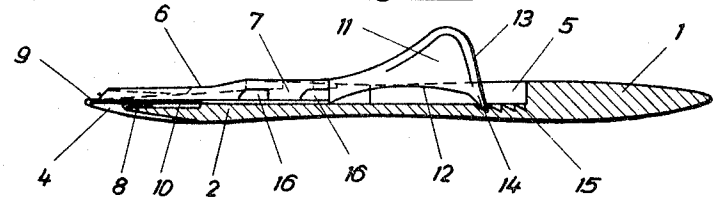
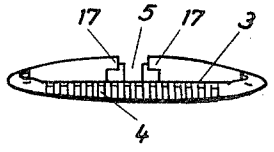



Fig. 7




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Fig. 8

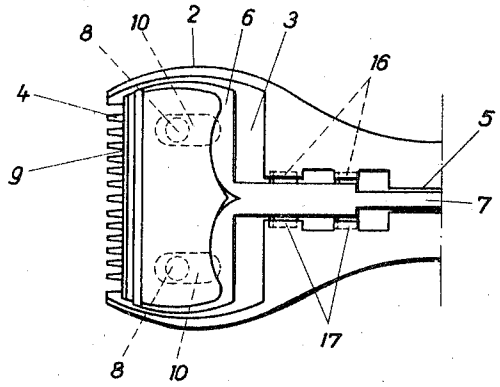
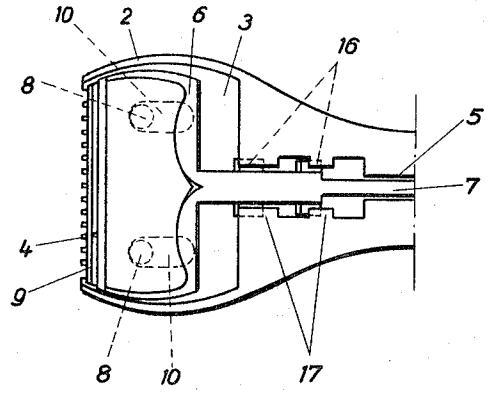



Fig. 9




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# ADJUSTABLE HAIR-TRIMMING DEVICE

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1 Claim. (Cl. 30—30)

The present invention is concerned with a hair-trimming device, by means of which an individual is enabled, in a convenient manner, to trim away minor irregularities in one's coiffure, for instance at the temples, at the back of one's head and at the hair-edge of the neck. This devce is equally applicable and useful for removing hair from one's arms and legs.

The present invention comprises a handle-like base-plate, one end of which is provided with teeth which are parallel with the longitudinal axis of the handle, and on the top side of which there is mounted a detachable cover plate, which is slidable along the base plate and adapted to be adjusted in various operating positions. The cover plate is provided with bosses for the attachment of a razor blade, so that the cutting edge of the razor blade can be adjusted at various distances from the points of the teeth, always however being at right angles thereto.

The present invention in addition to providing results superior to those of the prior art also provides a simplified construction which has a reduced number of parts. This produces economy in manufacture as well as simplicity of maintenance and operation. In the prior art constructions, a separate tightening member is required to hold the cover plate and the razor blade firmly pressed against the base plate. Such a tightening member has been eliminated by the present device and its function is more efficently accomplished by the cover plate itself.

More particularly the invention is characterised in that the cover plate together with the razor blade form an initial position, in which the cover plate is detachable from the base plate, is adapted to be adjusted in one or more operating positions with the cutting edge of the razor blade at various distances from the points of the teeth, and the cover plate is adapted to be connected with the base plate by movements to the operating position or positions.

The part of the base plate which carries the teeth, is preferably provided with a recess containing the cover plate and the razor blade. A channel, which is parallel with the longitudinal axis of the base plate, extends into the rear part of the recess. The cover plate is made of one piece of resilient material, for instance a plastic, it is slidable in the channel and can be connected with the base plate in one or more operating positions. This arrangement simplifies the adjustment of the cover plate in the various operating positions.

According to a preferred embodiment of the present invention, the bar is provided with pairs of lips on the sides in order to retain the bar in the channel. These are arranged in such a manner, that at the sliding movement of the bar to the operating positions they engage into corresponding lips on the side walls of the channel.

The rear end of the bar preferably is formed in such a manner, that it partly projects beyond the top surface of the base plate, and its lower edge is correspondingly arcuate and forms together with the rear inclined end edge of the bar an inclined, downward directed projection, which co-operates with catch teeth at the bottom of the channel in order to stop the bar together with the cover plate and the razor blade in the various operating positions. By this means the rear part of the bar can be resiliently bent upwards at the sliding movement over the catch teeth, and when it is desired to disengage the



bar from the catch teeth, the rear part of the bar can be seized easily between two fingers and lifted upwards, so that the bar and the cover plate are free to be moved back to the initial position.

The invention will now by way of example be described with reference to the accompanying drawings:

FIGURE 1 is a plane view of the hair trimmer in its first operating position;

FIGURE 2 is a longitudinal section through the initial position;

FIGURE 3 is a cross section taken along line III—III in FIGURE 1 with the slidable member removed;

FIGURE 4 is a longitudinal section through the first operating position;

FIGURE 5 is a sectional view in a second operating position;

FIGURE 6 is a sectional view in a third operating position;

FIGURE 7 is a front view with the slidable member removed;

FIGURE 8 is a plane view of the trimmer in the second operating position; and

FIGURE 9 is a plane view of the trimmer in the third operating position.

The hair-trimming device is provided with an oblong base-plate, which is formed like a handle **1**, by means of which the device is held during the operating. One end **2** of the base plate is enlarged and on the top side provided with a recess **3**. The bottom of the recess at the front edge of the device is provided with teeth **4**, which are parallel with the longitudinal axis of the device. A channel **5** in the handle **1** extends into the rear part of the recess **3**. In the recess **3** is mounted a one piece cover plate **6** with a bar **7** of resilient material, for instance plastic, which is axially slidable in the channel **5**. On the underside the cover plate **6** is provided with two downward directed, cylindrical bosses **8**, which engage short tracks **10** in the bottom of the recess **3**. In the drawings, **9** designates one cutting edge or a razor blade, which is arranged between the cover plate **6** and the bottom of the recess **3**, so that the bosses **8** engage the tracks **10** through the side holes of the razor blade. Thus, the razor blade participates in the axial movement of the bar **7** and the cover plate **6** in the recess **3**.

At its rear part, the top edge **11** of the bar **7** is formed in such a manner that it projects beyond the top side of the handle **1**, and the lower edge **12** of the bar is correspondingly arcuate. The bar **7** is provided with an inclined rear end edge **13**, which together with the lower edge **12** forms an inclined downward directed projection **14**, which engages catch teeth **15** at the bottom of the channel **5** in order to adjust the cover plate **6** and the razor blade in the operating positions. On each side the bar **7** is provided with two lips **16**, which at the sliding movement of the bar **7** in the channel **5** can be passed under corresponding lips **17** on the side walls of the channel. The bar **7** can be inserted into the channel **5** only in the initial position according to FIGURE 2, in which the projection **14** engages into the hindmost catch tooth **15**. When the bar **7** is pushed forward by finger pressure upon the edge **13** from the initial position, the lips **16** are passed under the lips **17**, the projection **14** is slightly lifted upwards in passing the hindmost tooth **15** and engages into the next catch tooth, which corresponds to the first operating position (FIGURES 1 and 4). In this position, as well as in the other operating positions, the cover plate **6** cannot be detached from the base plate or get loose from the base plate. The cover plate together with the razor blade is firmly pressed against the bottom of the recess **3** with the cutting edge **9** of the

razor blade adjusted at its greatest distance from the points of the teeth 4. In this operational position of the cover plate 6 the device can be used for course-trimming of the hair. When the cover plate 6 and the bar 7 is moved to a position in which the projection 14 engages into the next catch tooth 15 by pressure upon inclined edge 13, the cover plate and the razor blade are adjusted in the second operating position (FIGURES 5 and 8). In that position the cutting edge 9 of the razor blade is adjusted at a somewhat shorter distance from the points of the tooth 4, so that the device can be used for medium fine trimming of the hair. Thereafter the cover plate can be moved to the third operating position (FIGURES 6 and 9) for fine-trimming of the hair.

When it is desired to remove the cover plate 6 and the razor blade from the base plate for cleaning purposes or for changing the razor blade, the rear part of the bar 7 is slightly bent upwards, so that the projection 14 is disengaged from the catch teeth 15 and the bar can be pushed back to the initial position, in which the bar together with the cover plate 6 can be removed from the implement.

What I claim is:

A hair-trimming device which comprises a base plate one end of which is handle-shaped and the other end of which is enlarged, the enlarged end having a recess in its upper surface with tracks along the interior and teeth along its front edge contiguous with the recess, a channel formed in the handle portion which extends into the rear portion of the recess, said channel having lips and catch teeth along its bottom, a cover plate detachable from and adjustable along the base plate into a plurality of operating positions and having a bar extending therefrom which



is slidable in the channel, said bar having lips at its forward portion adapted to engage the corresponding lips in the channel during sliding movement of the bar and cover plate into working positions and the rear portion of the bar being formed to project beyond the top side of the handle portion of the base plate and the lower edge of the bar being correspondingly arcuate and together with the rear inclined edge of the bar forms an inclined, downward directed projection which cooperates with catch teeth at the bottom of the channel to stop the bar together with the cover plate in a plurality of operating positions, a cutting edge having holes therethrough sized to fit between the cover plate and the bottom of the recess said edge being adjustable with the cover plate at a plurality of distances with respect to the base plate teeth, and at least two bosses affixed to the underside of the cover plate for engagement in the tracks in the recess through the holes in the cutting edge.

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