

SPECIFICATION

Electric Dry Shaver with a Hard Casing

The invention relates to an electric dry shaver with a hard casing.

- 5 The casing for an electric dry shaver must be made from a hard material so that component parts to be disposed inside it can be precisely located and are protected from physical interference from outside. The casing is therefore usually made from a thermosetting plastics. To improve the appearance and partly also for technical reasons at least some parts of the casing should be made of metal. The shaving head which forms part of the casing usually consists of steel.

- Experience has shown that when the shaver is put down on a flat surface this can lead to the shaver casing being scratched and also the surface itself can become scratched. An additional problem when putting down the shaver is that the component parts are jolted, which places great strain on them.

- The invention is based on the problem of producing a shaver the casing of which is protected from becoming scratched and by which a flat surface cannot be scratched. Furthermore the shaver should be protected against impact.

- According to the invention there is provided an electric dry shaver with a hard casing, having a resilient edging which projects beyond the exposed parts on the exterior of the casing and which is made of a soft resilient material, e.g. rubber or a soft synthetic material.

- By this means the shaver casing is simply protected from being scratched. At the same time it is guaranteed that the casing cannot scratch a flat surface when laid down on it. Since the projecting edging is resilient it can also reduce impact which, when quickly dropping the shaver on to a hard surface, would otherwise affect the casing and its component parts. Furthermore the projecting edging causes the shaver to lie more securely in the user's hand and it cannot be dropped so easily. If the shaver is dropped on the floor then often the resilient edging is enough to completely prevent the shaver from being damaged.

- In a particularly advantageous embodiment of the invention the resilient edging is formed by inserts which are provided at the joints between adjacent parts of the casing. This arrangement is functionally especially favourable since by this means no special precautions for embodying the inserts in the projecting edging need to be taken. Moreover the inserts also enable the problem of sealing the casing to be dealt with, since they can prevent the penetration of moisture and dirt.

- It is also particularly advantageous if, according to another embodiment of the invention, the resilient edging is formed by a flange-like edge of a resilient sleeve inside the casing, projecting through the joints between adjacent parts of the casing. By means of this resilient sleeve the casing can be hermetically

- 65 sealed, so that the component parts are completely protected from any moisture penetration. In addition, the resilient sleeve within the casing makes it possible to achieve cushioning of the component parts. The provision of the flange-like edge on the resilient sleeve does not incur any significant additional cost. It is also of significance that disturbance to the shaver is reduced by the resilient sleeve.

- For electric dry shavers which are mains-operated, according to another embodiment of the invention, the resilient edging can include a continuation of a cable sleeve of the dry shaver projecting through the joints between adjacent parts of the casing.

- It is also economical if the resilient edging serves to seal the joints between adjacent parts of the casing.

- In another favourable embodiment of the invention the shaving head may be edged with an insert of resilient material producing the resilient edging.

- By this means any disturbance is reduced. Moreover, when the shaving head is knocked against a wash-basin to empty it of the accumulated bits of hair, it will not scratch the basin.

- The possibility of the shaver being switched on unknowingly, by putting it down on the side where the switch is, is prevented by another preferred feature whereby the switch button of the shaver is bordered by the resilient edging and does not project beyond.

- Several alternative embodiments of the invention are shown in the accompanying diagrammatic drawings in which:

- Figure 1 is a side view of a shaver according to the invention,

- Figure 2 is a section through a part of the casing of a shaver formed according to the invention,

- Figure 3 is a side view of another form of shaver according to the invention, and

- Figure 4 is a view of the underside of the shaver of Figure 3.

- The shaver shown in Figure 1 has a casing 1 which consists of two casing halves 1a and 1b made of a relatively hard material. An insert 2 is provided between the casing halves and consists of a resilient material, e.g. rubber or soft synthetic material, which projects with a resilient edging 3 to the exterior of the casing.

- An insert 2', which is functionally the same as the insert 2, is provided on the shaving head 4 of the shaver, so as to lie between the shaving head 4 and the casing 1 when the shaving head 4 is placed in position on the shaver.

- The shaving head 4 has a gripping bar 5 so that it can be easily removed from the shaver. The gripping bar 5 is edged with the projecting resilient edging 3' of the insert 2'. The gripping bar 5 extends to the casing 1 and is in register with a similarly shaped switch button 6 which is edged by the projecting edging 3 in the same way as the gripping bar 5 is edged by the edging 3'.

The switch button 6 is arranged so that, in operation, it rebounds against the resilient edging.

Figure 2 shows a section through the casing 1 of a shaver according to the invention. The casing 1 consists of two casing halves 1a and 1b. In the interior of the casing 1 there is provided a resilient sleeve 7, which projects with a flange-like edge into the expansion joint between the two halves of the casing 1a and 1b. This flange-like edge 8 is somewhat longer than the thickness of the casing 1, so that it projects to the exterior of the casing 1 and there forms the resilient edging 3. By means of this sleeve 7, the component parts of the shaver are completely sealed from the outside.

The embodiment of the invention shown in Figure 3 differs from those described above in that a cable sleeve 9 is provided which is formed in one piece with the insert 2. Therefore the insert 2 and the cable sleeve 9 can be made cheaply as one component part and may be quickly assembled with the casing.

Claims

1. An electric dry shaver with a hard casing, having a resilient edging which projects beyond the exposed parts on the exterior of the casing and which is made of a soft resilient material.

2. A dry shaver according to claim 1, wherein the soft resilient material is rubber or synthetic material.

3. A dry shaver according to claim 1 or claim 2, wherein the resilient edging is formed by inserts which are provided at the joints between adjacent parts of the casing.

4. A dry shaver according to any of claims 1 to 3, wherein the resilient edging is formed by a flange-like edge of a resilient sleeve inside the casing, projecting through the joints between adjacent parts of the casing.

5. A dry shaver according to any of claims 1 to 4, wherein the resilient edging includes a continuation of a cable sleeve of the dry shaver projecting through the joints between adjacent parts of the casing.

6. A dry shaver according to any of claims 1 to 5, wherein the resilient edging serves to seal the joints between adjacent parts of the casing.

7. A dry shaver according to any of claims 1 to 6, and including a shaving head which is bordered on the sides thereof adjacent the casing by an insert of resilient material producing the resilient edging.

8. A dry shaver according to any of claims 1 to 7, wherein there is provided a switch button which is bordered by the resilient edging and does not project beyond the resilient edging.

9. An electric dry shaver substantially as hereinbefore described with reference to the accompanying drawings.



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