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A hair brush.

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Description

This invention relates to a hair brush particularly, but not exclusively, for use by professional hairdressers in blow-drying hair with a hand-held blower or dryer such as described in US—A—4076032. Blowing and drying simultaneously is necessary to bring out the body of the hair to create or restore the style which has been designed to suit an individual's own hair type and head shape. Hereinafter, the term 'bristle' is used to include not only natural bristle but, also bristle or bristle pins of plastics material, and includes pins moulded integrally with a head and handle of plastics material. A problem which occurs is that the hair brush in use blocks the dissipation of used hot air from the blower or dryer from the scalp and hair when being brushed, the normal brushing method being to catch hair in the bristles and rotate the brush thereby presenting the hair direct to the hot air from the blower or dryer. The blocking of the dissipation of hot air causes the scalp to become uncomfortably hot.

An object of the present invention is to obviate or mitigate this problem.

In accordance with the present invention, a hair brush has a handle, and an elongate bristle-carrying head which is of tubular shape and open-ended at its handle-remote end, the head having two opposed major walls of non-circular shape one of which is bristle-carrying with the bristles extending outwardly in a direction remote from the opposed wall, and each major wall being provided with vents.

The vents in use of the brush are to permit used air to pass into the tubular passage of said head and dissipate therefrom through the vents in the other major wall and through the open-end of the head. This use is distinct from a solid-backed vent brush which is used to allow air to reach the scalp and hair to facilitate drying and/or styling, the tubular passage being provided to induce flow from the wet or bristled side of the brush through the one major wall into said passage and to atmosphere.

Preferably, the vents in the bristle-carrying wall are of chevron shape and extend widthwise across the wall.

Preferably also, the handle-remote end of the head is of chevron shape.

Preferably further, a series of seven vents are provided on the bristle-carrying wall.

The vents on the other wall are preferably of an equal number as in the bristle-carrying wall with only the first and seventh being of full chevron shape, the others being similar to each other and comprising only the outer portions of the chevron limbs.

An embodiment of the present invention will now be described, by way of example, with reference to the accompanying drawings, in which:-

Fig. 1 is a perspective view of a hair brush according to the present invention, the view being from above and one side;

Fig. 2 is a side elevation of the brush;

Fig. 3 is an underneath plan view;

Fig. 4 is a front view; and

Fig. 5 is a rear view;

Referring to the drawings, a hair brush comprises a handle 10 and an elongate bristle-carrying head 12. The head 12 is of a tubular shape and of a symmetrical oval cross-section presenting two opposed major elongate walls of arcuate cross-section as shown. The head 12 is open-ended at its handle-remote end. One of said major walls 14 is bristle-carrying with the bristles 16 extending outwardly therefrom in a direction remote from the opposed major wall 18. The bristles 16 extend radially from said major wall 14. Each major wall is provided with vents 20 to permit, in use of the brush, used air to pass through said head 12 for dissipation of the used air away from the scalp and hair. The vents 20 in the wall 14 are seven in number, are of chevron shape extending width-wise across the wall 14, and are in a parallel sequence. The bristles 16 are arranged in eight chevron rows of seven bristles, one row on each side of each vent 20, and the bristles, in the rows, are arranged in columns longitudinally of the head. Two additional bristles are provided one at each outer end of each of the four rows thereby forming two additional columns of four bristles as shown. The vents on the wall 18 are also seven in number. However the first and seventh vents 22 are of full chevron shape: the other intervening five vents 24 are similar to each other and each comprises only the outer portions of the chevron limbs, said portions being symmetrical above the longitudinal axis of the brush. The vents 22 and 24 are parallelly aligned with corresponding vents 20 in wall 14. The purpose of this reduced vent area in the wall 18 is to improve pressure differential. The handle-remote end 26 of the head 12 is of chevron shape as shown. Air from a hand-held blower or dryer passes through vents 20 into the tubular passage and exhaust therefrom through vents 22 and 24 and also out through the open-end 26 of the passage. Finger grips 28 are provided as shown on the opposite lateral minor walls for the purpose of giving improved, control and hand stability when the brush is being held at the finger grips rather than at the handle. Also a thumb plate 30 is provided as shown particularly in Fig. 3 for use when gripping the brush normally by the handle.

The oval shape of the head is intended to give improved styling characteristics to the brush in use, however cross-sectional shapes other than oval can be used. Also, the vents 24 may be of full chevron shape similar to vents 22.

The outer tips of the bristles may be made bulbous by dipping in a hot solution which sets hard on cooling.

Claims

1. A hair brush having a handle (10) and an elongate bristle-carrying head (12) of tubular

shape and open-ended at its handle-remote end (26) characterised in that the head (12) has two opposed major walls (14, 18) of non-circular shape one of which is bristle-carrying with the bristles extending outwardly in a direction remote from the opposed wall, and each major wall being provided with vents (20, 22, 24).

2. A hair brush as claimed in Claim 1, characterised in that the vents (20) in the bristle-carrying wall (14) are of chevron shape and extend widthwise across the wall (14).

3. A hair brush as claimed in Claim 1 or 2, characterised in that the handle-remote end (26) of the head (12) is of chevron shape.

4. A hair brush as claimed in Claim 2, characterised in that a series of seven vents (20) are provided in the bristle-carrying wall (14).

5. A hair brush as claimed in Claim 3, characterised in that the vents (22, 24) on the other wall (18) are of an equal number as in the bristle-carrying wall (14).

6. A hair brush as claimed in Claim 5, characterised in that the first and seventh vents (22) are of full chevron shape and the other vents (24) are similar to each other and comprise only the outer portions of the chevron limbs.

7. A hair brush as claimed in any one of the preceding claims characterised in that the handle (10) and head (12) with bristles (16) are of one-piece construction.

8. A hair brush as claimed in any one of the preceding claims characterised in that finger grips (28) are provided on opposite lateral minor walls of the head (12) adjacent to the handle (10).

9. A hair brush as claimed in any one of the preceding claims characterised in that a thumb plate (30) is provided on the handle (10) adjacent to the head (12).

10. A hair brush as claimed in any one of the preceding claims characterised in that the outer tips of the bristle (16) are made bulbous.

Patentansprüche

1. Haarbürste mit einem Stiel (10) und einem länglichen rohrförmigen Borstentragkopf (12), dessen dem Stiel abgewandtes Ende (26) offen ist, dadurch gekennzeichnet, dass der Kopf (12) zwei gegenüberliegende, nicht kreisförmige Hauptwände (14, 18) aufweist, dass die eine davon die Borsten trägt, die sich in Richtung von der gegenüberliegenden Wand nach aussen weg erstrecken und dass in jeder Hauptwand Öffnungen (20, 22, 24) vorhanden sind.

2. Haarbürste nach Anspruch 1, dadurch gekennzeichnet, dass die Öffnungen (20) in der die Borsten tragenden Wand (14) winkelförmig sind und sich quer zur Wand (14) erstrecken.

3. Haarbürste nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass das vom Stiel abgewandte Ende (26) des Kopfes (12) winkelförmig ist.

4. Haarbürste nach Anspruch 2, dadurch gekennzeichnet, dass eine Reihe von sieben Öffnungen (20) in der die Borsten tragenden Wand (14) vorhanden ist.

5. Haarbürste nach Anspruch 3, dadurch gekennzeichnet, dass die Anzahl der Öffnungen (22, 24) in der anderen Wand (18) gleich ist wie die Anzahl der Öffnungen in der die Borsten tragenden Wand (14).

6. Haarbürste nach Anspruch 5, dadurch gekennzeichnet, dass die erste und letzte der Öffnungen (22) vollständig winkelförmig sind und dass die anderen Öffnungen (24) untereinander gleich sind und nur die Aussenteile der winkelförmigen Schenkel aufweisen.

7. Haarbürste nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, dass der Stiel (10) und der Kopf (12) mit den Borsten (16) einstückig ausgebildet sind.

8. Haarbürste nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, dass Fingergriffe (28) in den gegenüberliegenden Seitenwänden des Kopfes (12) und benachbart zum Stiel (10) vorhanden sind.

9. Haarbürste nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, dass benachbart zum Kopf (12) eine Daumenplatte (30) auf dem Stiel (10) vorhanden ist.

10. Haarbürste nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, dass die äusseren Enden der Borsten (16) abgerundet sind.

Revendications

1. Brosse à cheveux, ayant une poignée (10) et une tête porte-brins (12) allongée, de forme tubulaire, et ouverte à son extrémité (26) éloignée du manche, caractérisée en ce que la tête (12) comprend deux parois principales opposées (14, 18) de forme non circulaire, dont l'une est la paroi porte-brins avec les brins s'étendant vers l'extérieur en une direction opposée de celle de l'autre paroi, chacune des parois principales étant munies d'ouvertures (20, 22, 24).

2. Brosse à cheveux selon la revendication 1, caractérisée en ce que les ouvertures (20) dans la paroi porte-brins (14) sont en forme de chevrons et s'étendent en largeur sur la paroi (14).

3. Brosse à cheveux selon la revendication 1 ou 2, caractérisée en ce que l'extrémité (26) de la tête (12) éloignée de la poignée est en forme de chevrons.

4. Brosse à cheveux selon la revendication 2, caractérisée en ce qu'une série de sept ouvertures (20) sont ménagées dans la paroi porte-brins (14).

5. Brosse à cheveux selon la revendication 3, caractérisée en ce que les ouvertures (22, 24) dans l'autre paroi (18) sont en un nombre égal à celles de la paroi porte-brins (14).

6. Brosse à cheveux selon la revendication 5, caractérisée en ce que la première et la septième ouvertures (22) forment un chevron complet, tandis que les autres ouvertures (24) sont similaires entre elles et ne comprennent que les portions extrêmes des branches de chevrons.

7. Brosse à cheveux selon l'une quelconque des revendications précédentes, caractérisée en ce que la poignée (10) et la tête (12) avec les brins (16) sont d'une construction en une pièce.

8. Brosse à cheveux selon l'une quelconque des revendications précédentes, caractérisée en ce que des agrippements (28) pour les doigts sont établis sur les deux parois latérales mineures opposées de la tête (12), de façon adjacente à la poignée (10).

9. Brosse à cheveux selon l'une quelconque des

revendications précédentes, caractérisée en ce qu'une plaque plate pour le pouce (30) est établie sur la poignée (10) à proximité de la tête (12).

10. Brosse à cheveux selon l'une quelconque des revendications précédentes, caractérisée en ce que les pointes extérieures des brins (16) sont bulbeuses.

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