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(54) Benævnelse: **HJÆLPEMIDDEL TIL TRÆNING AF FRISØRARBEJDE**

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WO-A1-03/063112
US-A- 3 225 489
US-A- 4 136 483
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US-B1- 6 527 618

DESCRIPTION

Background of the Invention

[0001] The present invention relates to a training aid for hairdressers. The invention more particularly, although not exclusively, relates to hairdressing training headform having a means of securely retaining and conveniently releasing an artificial scalp with hair for interchangeability.

[0002] It is known to secure a PVC scalp with hair to a hairdressing headform in which the vertex (being that portion of the headform immediately covered by the scalp) is a permanent fixture of the overall headform. The scalp must be attached securely to the vertex so that hairdressing trainees can pull on the hair and manipulate it without the scalp becoming detached from the vertex in use. The requirement for secure attachment of the PVC skin to the vertex is in conflict with a desire that the PVC scalp be easily removed when desired for exchange with another scalp perhaps having hair of a different type.

Objects of the Invention

[0003] It is an object of the present invention to overcome or substantially ameliorate at least one of the above disadvantage and/ or more generally to provide an improved hairdressing training headform.

[0004] US 2007/0238388A1 discloses a mannequin with replaceable hair piece and discloses the features of the pre-characterizing portion of claim 1.

[0005] US6527618B1 discloses a doll head with an attachable doll wig.

Disclosure of the Invention

[0006] The present invention comprises a hairdressing training aid as defined in claim 1.

[0007] Preferably, the releasable locking means comprises a threaded shaft and a threaded rod engaging therewith, one of which extends from the headform and the other of which extends from the vertex, relative rotation between the threaded shaft and threaded rod causing relative movement of the vertex with respect to the headform.

[0008] Preferably, the hairdressing training aid further comprises a recess into which a key can be inserted for attachment of the headform to a stand.

[0009] Preferably, the threaded rod extends from the recess.

[0010] Preferably, the recess is rotatable with respect to the headform.

[0011] Alternatively, the releasable locking means can comprise a catch extending from the vertex and a latch located within the headform with which the catch engages.

[0012] Preferably, the latch is flexible to enable it to deform upon engagement with the catch as the vertex is attached to the headform and is mounted within the headform to slide away from the catch for release of the vertex.

[0013] A release pin can extend from the latch for access at the headform exterior to enable the above mentioned sliding movement.

[0014] As a further alternative, the releasable locking means can comprise a gear rack extending from the vertex and a ratchet bearing against the headform and with which the gear rack engages.

[0015] The hairdressing training aid can further comprise a guide tube within the headform and through which the gear rack extends en route to the ratchet.

[0016] Preferably, the ratchet is external of the headform.

Brief Description of the Drawings

[0017] Preferred forms of the present invention will now be described by way of example with reference to the accompanying drawings, wherein:

Fig. 1 is a schematic parts-exploded perspective illustration of a hairdressing training headform;

Fig. 2 is a schematic partial cross-sectional elevation of a portion of the headform of Fig. 1;

Fig. 3 is a schematic cross-sectional elevation of the headform;

Fig. 4 is a schematic parts-exploded perspective illustration of another hairdressing training headform;

Fig. 5 is a schematic partial cross-sectional elevation of a portion of the headform of Fig. 4;

Fig. 6 is a schematic cross-sectional elevation of the headform of Fig. 4;

Fig. 7 is a schematic parts-exploded perspective illustration of another hairdressing training headform;

Fig. 8 is a schematic cross-sectional elevation of a portion of the headform of Fig. 7; and

Fig. 9 is a schematic cross-sectional elevation of the headform of Fig. 7.

Description of the Preferred Embodiments

[0018] In Figs. 1 to 3 of the accompanying drawings there is depicted schematically a hairdressing training headform 10 comprising a front face portion 11 and a rear neck portion 15. These are secured to one another and a vertex 12 taking the general form of the crown of a human skull completes the overall shape of a human head. These parts would typically be made of ABS plastics material.

[0019] A flexible PVC scalp 13 with hair 14 can be fitted over the vertex 12. To this end, the scalp 13 has a peripheral bead 24 which fits under the periphery of the vertex 12 to maintain the scalp stretched taut thereupon.

[0020] Extending downwardly from the top of the vertex 12 through a tube 21 formed integrally with the face portion 11 is a hollow shaft 20 having internal thread.

[0021] At the base of the headform 10, there is provided a recess 18 into which a key 16 can be inserted. The recess 18 rotates with respect to the headform 10 and is held in a rotatable manner by means of a circular lip 23. The key 16 has splines 17 engaging with the internal surface of the recess 18 which might also have corresponding internal splines.

[0022] Extending upwardly from the recess 18 is a threaded rod 19. The threaded rod 19 is received within the threaded shaft 20 with conventional clockwise threads such that upon clockwise rotation of the key 16 and recess 18, the threaded shaft 20 is drawn down so that its periphery presses down upon the bead 24 to sandwich the bead between the vertex 12 and the respective face and neck portions 11 and 15 to secure the scalp in place. Counterclockwise rotation of the key 16 will release the vertex 12 from being headform to enable replacement of the scalp and hair. Secure location of the bead 24 under the periphery of the vertex 12 ensures that trainee hairdressers can pull at the hair 14 without fear of the PVC scalp 13 becoming detached from the headform.

[0023] In the embodiment of Figs. 4 to 6 the means of securing the vertex 12 to a headform 100 is different. In this embodiment, a catch 20 extends downward from the top portion of the vertex 12 and has a pawl 29 at its bottom extremity. Formed integrally with the face portion 11 of the headform is a channel 28 into which a sliding portion 27 of a latch 26 is received. At the upper extremity of the latch 26, there is another pawl 30 which snap-engages over the pawl 29. To this end, the material from which the latch 26 is made is elastically flexible so as to enable deflection of the pawl 30 over the pawl 29 as the vertex 12 is pressed down upon the

headform. The pawls 29 and 30 are engaged quite tightly so that the periphery of the vertex 12 bears tightly down upon the lip 24 so that the trainee hairdressers can tug at the hair 14 without fear of the scalp 13 becoming detached during training.

[0024] A release pin 35 extends from the sliding portion 27 of the latch 26 and might be presented to the headform exterior via the ear. Manipulation of the release pin will effect lateral transfer of the latch 26 such that the pawl 30 will slide away from pawl 29 to enable release of the vertex 12.

[0025] A recess 18 is provided at the base of the headform 100. This can receive a key by which the headform can be attached to a stand.

[0026] A further embodiment is depicted in Figs. 7 to 9. In this embodiment, the means of securing the vertex 12 to the headform 1000 is different again. A gear rack 20 - somewhat in the form of a cable tie strip - extends downwardly from a central portion of the vertex 12. The gear rack 20 has ratchet teeth 31 as depicted.

[0027] Internally at the base of the headform 11, there is provided a guide tube 32 through which the ratchet teeth 31 pass.

[0028] An anchor catch 33 is provided underneath the base of the headform 11 and has an internal pawl 34 which engages with the ratchet teeth 31. The anchor catch 33 is slipped over the tail end of the gear rack 20 as the gear rack is pulled down to draw down on the vertex 12. The pawl 34 locks in position over one of the ratchet teeth 31. This downward force on the gear rack 20 forces the periphery of the vertex 12 down upon the lip 24 of the scalp 13 to sandwich the lip between the vertex and facing portions of the headform. In order to release the vertex 12 to remove the scalp 13 and hair 14, the anchor catch 33 can be squeezed to thereby lift the pawl 34 away from the ratchet teeth.

[0029] Again, a recess 18 is provided at the base of the headform 1000. This can receive a key by which the headform can be attached to a stand.

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US20070238388A1 **[0004]**
- US6527618B1 **[0005]**

Patentkrav

1. Hjælpemiddel til træning af frisørarbejde, hvilket hjælpemiddel omfatter følgende:
en hovedform (10, 100, 1000), der har træk, som simulerer et ansigt og en hals af et menneske; og
en fleksibel hovedbund (13) med hår (14), hvilken hovedbund (13) har en perifer læbe (24);
kendetegnet ved, at hjælpemidlet til træning af frisørarbejde yderligere omfatter:
en isse (12), der er bevægelig i forhold til den nævnte hovedform (10, 100, 1000) og som er konfigureret til at simulere en øvre del af et menneskeligt kranium, hvilken isse (12) har en periferi, med hvilken den perifere læbe (24) i hovedbunden (13) går i indgreb med, når den fleksible hovedbund placeres over issen; og en udløselig låsemekanisme, som er tilpasselig til at forspænde issen (12) mod hovedformen (10, 100, 1000), således at når låsemekanismen er i indgreb, fastgøres den perifere læbe (24) af hovedbunden (13) mellem issen (12) og hovedformen (10, 100, 1000).

2. Hjælpemidlet til træning af frisørarbejde ifølge krav 1, der yderligere omfatter en reces (18), der er fastgjort til hovedformen (10, 100, 1000), ind i hvilken en nøgle (16) kan indsættes for at fastgøre hovedformen til et stativ.

3. Hjælpemidlet til træning af frisørarbejde ifølge krav 1, hvor låsemekanismen omfatter et skaft (20) med gevind og en stang (19) med gevind, der går i indgreb dermed, hvoraf den ene strækker sig fra hovedformen (10), og den anden strækker sig fra issen (12).

4. Hjælpemidlet til træning af frisørarbejde ifølge krav 3, hvor en relativ drejning mellem skaftet (20) med gevind og stangen (19) med gevind forårsager en relativ bevægelse af issen (12) i forhold til hovedformen (10).

5. Hjælpemidlet til træning af frisørarbejde ifølge krav 4,

hvilket hjælpemiddel yderligere omfatter en reces (18), der er fastgjort til hovedformen (10), ind i hvilken en nøgle (16) kan indsættes for at fastgøre hovedformen til et stativ.

6. Hjælpemidlet til træning af frisørarbejde ifølge krav 5, hvor stangen (19) med gevind strækker sig fra recessen (18).

7. Hjælpemidlet til træning af frisørarbejde ifølge krav 6, hvor recessen (18) er drejelig i forhold til hovedformen (10).

8. Hjælpemidlet til træning af frisørarbejde ifølge krav 1, hvor låsemekanismen omfatter et stop (20), der strækker sig fra issen (12) og en rigel (26), der er anbragt inden i hovedformen (100), og med hvilken stoppet går i indgreb.

9. Hjælpemidlet til træning af frisørarbejde ifølge krav 8, hvor riglen (26) er tilstrækkelig fleksibel til at muliggøre indgreb med stoppet (20), når issen (12) er fastgjort til hovedformen (100).

10. Hjælpemidlet til træning af frisørarbejde ifølge krav 8, hvor riglen (26) er monteret inden i hovedformen (100) for at glide væk fra stoppet (20) til at frigive issen (12).

11. Hjælpemidlet til træning af frisørarbejde ifølge krav 10, der yderligere omfatter en udløsningsstift (35), som strækker sig fra riglen (26), til give adgang fra ydersiden af hovedformen for at muliggøre den nævnte glidebevægelse.

12. Hjælpemidlet til træning af frisørarbejde ifølge krav 1, hvor låsemekanismen omfatter en tandstang (20), der strækker sig fra issen (12), og en skralde (34), der er i indgreb med hovedformen (1000), med hvilken tandstangen (20) kommer i indgreb.

13. Hjælpemidlet til træning af frisørarbejde ifølge krav 12, hvor hovedformen (1000) yderligere omfatter et styrerør (32), i hvilket tandstangen (20) strækker sig.

14. Hjælpemidlet til træning af frisørarbejde ifølge krav 13, hvor skralden (34) er placeret uden for hovedformen (1000).

DRAWINGS

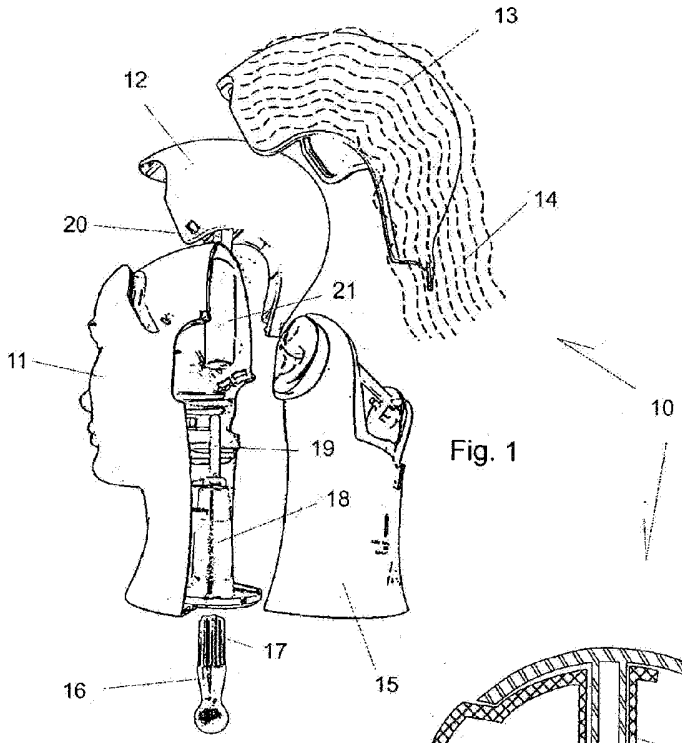


Fig. 1

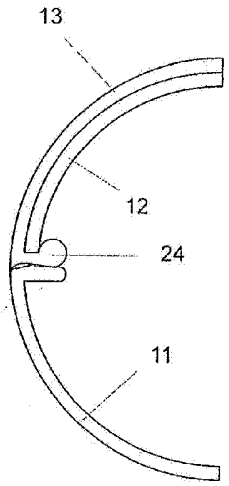


Fig. 2

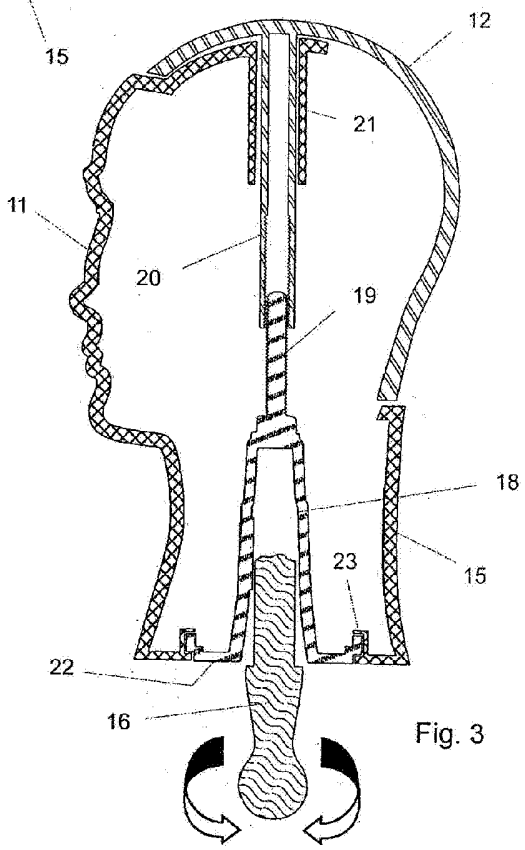


Fig. 3

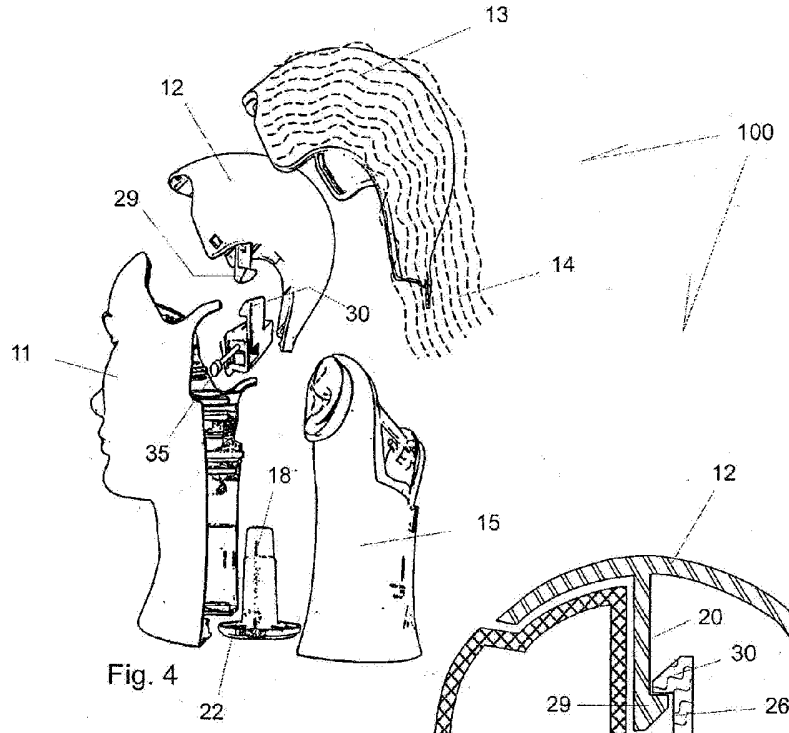


Fig. 4

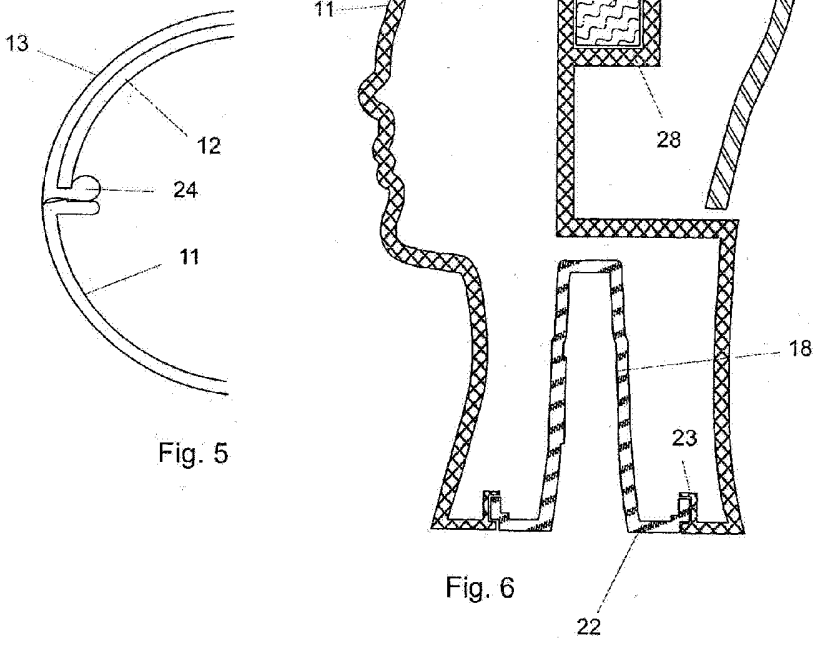


Fig. 6

Fig. 5

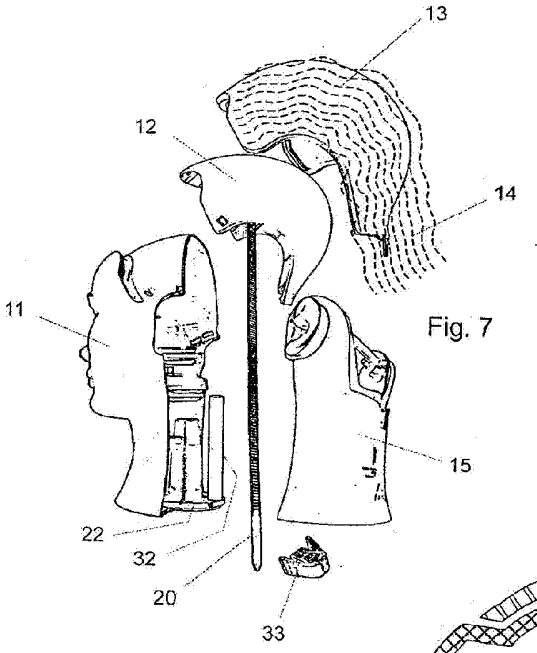


Fig. 7

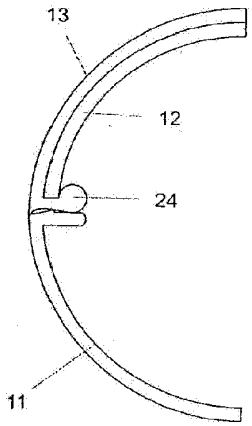


Fig. 8

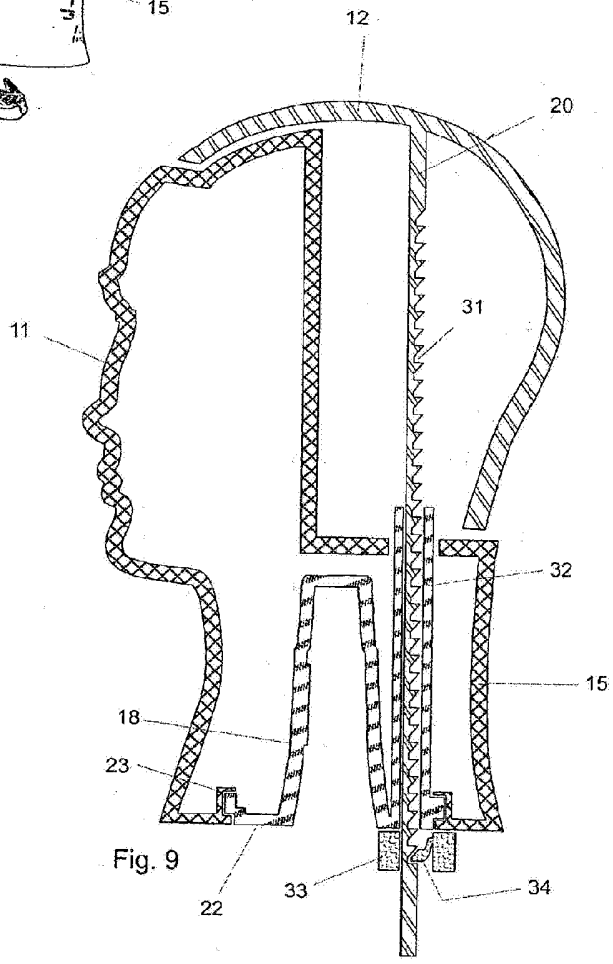


Fig. 9