

**FORM 2**  
**THE PATENT ACT 1970**  
**(39 OF 1970)**  
**AND**  
**The patent rules, 2003**  
**COMPLETE SPECIFICATION**  
**(See section 10: rule 13)**

1. **TITLE OF INVENTION**

**HAIR COMB WITH ANTIFRICTION AND ANTISTATIC COAT**

2 **APPLICANTS**

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3. **PREAMBLE TO THE DESCRIPTION**

**COMPLETE**

Following specification particularly describes the invention and the manner in which it is to be performed.

#### 4. DESCRIPTION.

##### **Technical field of invention:**

Present invention in general relates to hair comb for human and animals and particularly to a comb treated means coated with antifriction and antistatic materials in order to significantly reduce comb to hair friction and static electricity generated during combing operation and reduce hair fall.

##### **Prior art:**

The term comb means an apparatus used to clean, arrange and style hair particularly on head and alike for its control and appearance means control operation. During the said combing operation it has been said that the hair loss occurs due to friction offered by the comb to the hair strands means more friction means more hairs are pulled from its roots resulting in breaking and also uprooting of hairs means hair fall. Further the parent comb apparatus being generally plastic based material develops static electricity when rubbed against hair which can lead to electric sparking, discomforts and inconvenience.

Attempts have been made previously in order to overcome the above mentioned problem.

US patent 3084700 discloses static removing hair grooming device. The comb is formed of metal or some composition which has good electrical conduction properties and has wide teeth at one end and narrow teeth at the other. A tubular backing member is provided on the ridge of the comb in electrical connection therewith and has sockets and mounted in the ends thereof; the socket being mounted in the end adjacent the wide teeth and the socket being mounted in the end adjacent the narrow teeth.

US patent 4290438 discloses static electricity grounding comb for hair comprising a comb body, said comb body being electrically conductive, said comb body including a handle section; and an electrical conductor having an inner end and an outer end, said inner end being embedded within said handle section and adapted to conduct static electricity from said comb body, said outer end comprising a plug, said plug having a grounding connector and a pair of securing connectors, said electrical conductor being electrically connected with said electrical grounding connector, said securing connectors being non-electrically conductive, whereby said securing connectors are to connect with mating openings within a conventional wall socket and simultaneously said grounding connector connects with a mating electrical grounding opening and static electricity is conducted from hair being combed through the comb and through said electrical conductor and is discharged through said electrical grounding connector.

US patent 5150491 discloses A hair brush comprising an electrically conductive brush base, a handle, a multiplicity of electrically conductive bristles provided upright on the surface of the brush base, and an antistatic member made of electrically conductive fiber and provided at each of width wise opposite end portions of the brush base surface running longitudinally of the brush base; wherein the handle has a mount toward one end in the longitudinal direction thereof, and the conductive brush base is fitted to the mount; a multiplicity of small holes are formed in the brush base at each widthwise end portion thereof and arranged at a spacing in a row longitudinally of the base, the antistatic member being so provided as to project from the multiplicity of small holes slightly- beyond the surface; and wherein the small holes communicate at the rear side thereof with an elongated groove formed in the rear surface of the brush base, and the antistatic member is fitted at its base portion in the groove, barlike fixing member being inserted between the inner wall defining the groove and the base portion of the antistatic member to fix the antistatic member.

Although attempts have been made previously to overcome the abovementioned problem, none of them have been proved to be successful due to its complexity in manufacturing and/ or operation.

## **OBJECT**

1. Accordingly it is a principal object of the present invention to minimize the friction between the comb teeth and the hairs placed in between so that the comb moves smoothly without offering undue force to the hairs thereby preventing their fall and damage and being antistatic does not develop static electricity.
2. Further object of the present invention to minimize the efforts and reduce time taken for hair combing operation.
3. Further object of the present invention is to dispense with development of static electricity by antistatic coat means treatment.
4. Further object of the present invention is to dispense with applying oil or grease or similar material to the hair prior to hair combing operation thereby avoiding messy oily hands.
5. Further objective of the present invention to enable dry hair styling.
6. Still further object of the present invention to prolong the life of the hair comb resulting in breakage of teeth due to excessive frictional force between hair and comb teeth and prevent frequent cleaning of comb which would otherwise clog the spaces between teeth due to accumulation of muck.

Other objects, features and advantages will become apparent from detail description and appended claims to those skilled in art.

**STATEMENT:**

Accordingly following invention provides a novel hair comb made from any kind of suitable materials and all teeth, bristles coated over their surface with antifriction material such as Teflon (Trade mark of Du Pond) or PTFE, or similar material having extremely low coefficient of friction and electrically conductive.

**BRIEF DESCRIPTION OF DRAWING:**

This invention is described by way of example with reference to the following drawing where,

Figures 1A, 1B of sheet 1/1 show the front elevation and top view of hair comb 100 where number of tooth 101 having certain height and gap in between are fixed over backbone 102 and having a handle 103 (optional) and Figure-1C shows an enlarge view of any one of the teeth 110 where 111 shows the mother material of the said comb and 112 shows the coating of the said antifriction material over it.

Figures 2A, 2B of sheet 1/1 show the front elevation and top view of conventional hair comb brush 200 where number of bristles 201 having certain height and gap in between are arranged and fixed over backbone 202 and having a handle 203 and Figure-2C shows an enlarge view of any one of the bristle 210 where 211 shows the mother material of the said comb brush and 212 shows the coating of the said antifriction material over it.

In order that the manner in which the above-cited and other advantages and objects of the invention are obtained, a more particular description of the invention briefly described above will be referred, which are illustrated in the appended drawing. Understanding that these drawing

depict only typical embodiment of the invention and therefore not to be considered limiting on its scope, the invention will be described with additional specificity and details through the use of the accompanying drawing.

**Detailed description:**

The present invention provides a novel hair comb means an apparatus used to clean, arrange and style hair particularly on head, other hairy parts and alike for its control and appearance means controlled operation means hair doing operation. When the said hair doing is carried out, the comb is pulled means moved along the direction of the hair stands but away from their roots and in doing so single or multiple hair strand arrange themselves in the row of the tooth means teeth and such motion thereby removes the entanglement in such hair stands and arrange them in a manner as desired and in doing so there is a relative motion between said hair(s) and teeth surface in contact thus subjecting them to frictional force and with conventional comb the friction of coefficient is substantially high resulting in pulling the hair from their roots or breaking them in two causing pain and mess and further such force may also result in breaking of the comb teeth requiring its replacement. The said relative motion between comb teeth and hair strand may develop static electricity. When such hair comb are coated with said antifriction antistatic material such as Teflon (Trade mark of Du Pond) or PTFE, or similar material having extremely low coefficient of friction, resulting in substantial reduction of friction thereby the frictional forces exerted between the hair and comb teeth in contact thus avoiding the undue loss,

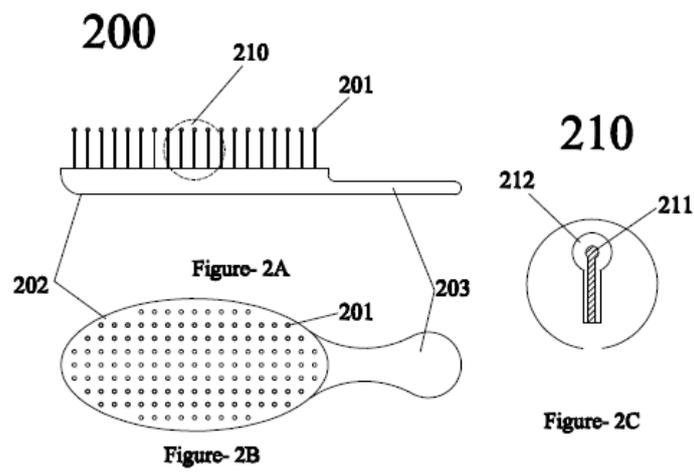
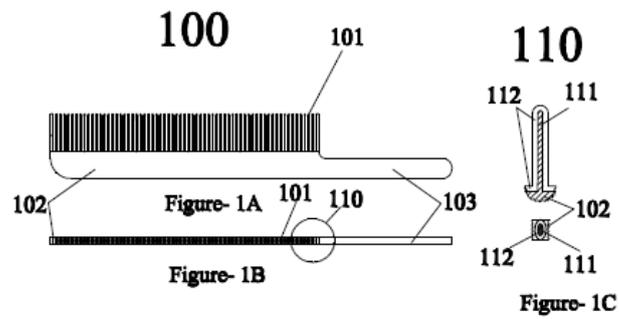
breakage of hair, static electricity and breakage of comb teeth and avoiding mess and inconvenience.

Other objects, features and advantages will become apparent from detail description and appended claims to those skilled in art. Additional advantages and modification will readily occur to those skilled in art. Therefore, the invention in its broader aspect is not limited to specific details and representative embodiments shown and described herein. While various modifications, changes may be made in detail construction, it is understood that such changes will be within the spirit or scope of the general invention concept as defined by the appended claims and their equivalents.

## CLAIMS

### **We claim:-**

1. A hair comb means brush means similar hair doing apparatus comprising a treatment to the tooth, teeth or any part coming in contact with hair treated means coated with antifriction and antistatic material coat such as Teflon (Trade mark of Du Pond) or PTFE, or similar material having extremely low coefficient of friction resulting in substantial reduction of friction thereby the frictional forces between the hair and comb teeth in contact thus avoiding the undue loss, breakage of hair, static electricity and breakage of comb teeth.
2. The hair comb as claimed in 1 comprising a treatment to the tooth, teeth or any part coming in contact with hair treated means coated with antistatic material coat.
3. The hair comb as claimed in 1 having material comprising hard, soft plastic material, metal.
4. The hair comb as claimed in 1 having treated or coated with antifriction and antistatic material comprising Teflon (register trade mark of Du Pond), Poly Tetra Fluro Ethylene (PTFE), or any other material(s) having low coefficient of friction with hair and having better electrical conductivity.



ABSTRACT

The present invention provides a novel hair comb means an apparatus used to clean, arrange and style hair particularly on head, other hairy parts and alike for its control and appearance means control operation means hair doing operation. When such hair comb are coated with antifriction material such as Teflon (Trade mark of Du Pond) or PTFE, or similar material having extremely low coefficient of friction resulting in substantial reduction of friction thereby the frictional forces between the hair and comb teeth in contact thus avoiding the undue loss, breakage of hair and the comb teeth and avoiding mess and inconvenience and antistatic property shall dispense with the development of static electricity. Following invention is described in detail with the help of figures 1A, 1B of sheet 1/1 showing the front elevation and top view of conventional hair comb.