

OXYGEN BEAUTY AND HAIR CARE CAP

Technical Field

5 This invention relates to an oxygen beauty and hair care cap, particularly to an oxygen beauty and hair care cap, which uses ozone (O_3), furthers the hair's health and the head skin's blood circulation.

Background Art

10 Ozone (O_3) is suitable for killing microbes and eliminating bad odor, therefore it is widely used indoor to clean the air. Furthermore, the effect of ozone on the human health and beauty has already been discovered. Normally, ozone (O_3) at room temperature decomposes in a
15 short time, forming oxygen molecules. Therefore, when ozone comes into contact with the human body surface at a suitable concentration, it will, by way of the oxidizing effect of its oxygen constituents remove dirt particles from the skin pores. At the same time the skin
20 is provided with additional oxygen to breathe. So metabolism and blood circulation are furthered and the cells are vitalized with the effect of increased health and beauty. If ozone is used for hair care, the head skin will breathe oxygen, the cells are vitalized, the hair
25 roots take in oxygen, and the hair tips are strengthened. Then the hair will not break easily and retain its color and elasticity.

Nowadays many ozone generators or ozone generating air cleaners for household use are on the market. Those
30 ozone generators, however, are applied to the cleaning of

air in a room, not to the beauty of individual persons.

Summary of the Invention

5 The main objective of this invention consists in providing an oxygen beauty and hair care cap, which uses ozone to remove dirt particles from hair pores, allowing the head skin to breathe oxygen, vitalizing the cells and furthering blood circulation for better health and a feeling of pressure relief and refreshment.

10 A further objective of this invention consists in providing an oxygen beauty and hair care cap, which allows the hair roots to breathe oxygen and improves the hair quality for beauty and hair care.

15 These objectives as well as further advantages will become apparent by the following description and claims, taken in conjunction with the accompanying drawings.

Brief Description of the Drawings

20 Fig. 1 is a three-dimensional view of this invention.

 Fig. 2 is a three-dimensional view of the gas flow system of this invention.

 Fig. 3 is a schematic illustration of an embodiment of this invention.

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Best Mode to Carry out the Invention

 As shown in fig. 1, the oxygen beauty and hair care cap of this invention mainly comprises: a cap 10 to be put on the head of the user and covering the hair of the user's head; a gas flow system 20, which is installed

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inside the cap 10; a gas supply duct 30, whose one end is connected to the gas flow system 20 and whose other end is connected to, e.g., an ozone generator or the ozone generating device of an air cleaner.

5 By way of the gas supply duct 30 and the gas flow system 20 the ozone generated by the ozone generator is led into the cap 10, and by the decomposition of the ozone the head skin and the hair will breathe oxygen, furthering health and beauty of the user's head.

10 As shown in fig. 1, this invention's cap is made of airtight textile or plastics. Its size is designed to accommodate the head of most users. The cap 10 is provided with an opening 11 to surround the user's head. On the edge of the opening a stretchable ribbon 12 is
15 provided to give the opening 11 elasticity and to allow the cap 10, when it is put on the user's head, to sit tightly, preventing gas to flow out through the opening 11.

20 In the middle of the cap's 10 inner side a fastening device 40 is provided to fasten the gas flow system 20 to the cap 10. The fastening device 40 can be implemented in many ways. Fig. 1 shows a relatively simple embodiment, wherein the fastening device 40 consists of two adhesive
25 tapes 41 sticking to the inner side of the cap 10. The two adhesive tapes 41 lie across each other. They are repeatedly removable and applicable. When the two adhesive tapes 41 are applied, they attach the gas flow system 20 to the inner side of the cap 10. When the two adhesive
30 tapes 41 are removed, the gas flow system 20 can be separated from the inner side of the cap 10.

The gas flow system 20 is mainly used to evenly spread ozone gas inside the space below the cap 10. The gas flow system 20 of the embodiment shown in fig. 2 has a gas flow tube 21 of circular shape, which is provided with a plurality of holes 22 for the outflow of gas. The gas flow tube's 21 two open ends are connected by a link 23.

The link 23 consists of three tubelets coming together. It connects the gas flow tube's 21 two open ends to the gas supply duct 30, thus allowing the ozone gas coming from the gas supply duct 30 to enter the gas flow tube 21 and by way of the holes 22 in the gas flow tube 21 to be evenly spread inside the space below the cap 10. It is to be noted that various modifications of the gas flow system's 20 form and structure can be implemented for the objective of evenly spreading ozone gas inside the space below the cap 10, all to the same effect. If the gas flow system 20 is not used, ozone may be let into the cap's 10 interior simply by the gas supply duct 30. Although this method is less effective, it will similarly achieve the objective of beauty and hair care.

The cap 10 is further provided with a hole 13 to lead the gas supply duct 30 through. As shown in fig. 3, the gas supply duct 30, after passing through the cap 10, will on its free end be connected to an ozone outlet 51 of an ozone generating system 50. As ozone generating system 50 any ozone generator or ozone generating air cleaner available on the market may be used. The ozone generating system, however, best suits the oxygen beauty

and hair care cap of this invention when having a capacity of generating 120 - 150 mg/hour and being provided with an extra ozone outlet.

5 An application proposal for the oxygen beauty and hair care cap of this invention is, to put on the beauty and hair care cap after washing and roughly drying the hair, then turn on the ozone generating system 50, such that ozone is led into the interior of the cap 10, and let it operate 3 - 5 minutes. Since inhaling an overdose
10 of ozone causes a dizzy feeling and a too small concentration of ozone does not result in an hair caring effect, the ozone generating capacity of the ozone generating system 50 should be adjusted to 120 - 150 mg/hour.

15 The ozone (O_3) molecule is unstable. At a temperature of $18^{\circ}C$ - $30^{\circ}C$ it decomposes within 10 - 15 seconds into oxygen molecules (O_2) and oxygen atoms (O). Then the oxygen atoms (O) reduce to oxygen molecules (O_2). During this process the oxygen atoms (O) have
20 unstable chemical properties with high reactivity, so they are able to kill microbes and to remove dirt particles within a short time.

So when the oxygen beauty and hair care cap of this invention operates, ozone is used to remove dirt
25 particles from hair pores, the hair roots take in oxygen, and the hair tips are strengthened. Then the hair will not break easily and retain its color and elasticity for beauty and hair care. At the same time the head skin breathes oxygen, vitalizing the cells and furthering
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blood circulation for better health and a feeling of pressure relief and refreshment.



CLAIMS

What is claimed is:

- 5 1. An oxygen beauty and hair care cap, comprising:
 a cap to be put on the user's head; and
 a gas supply duct, whose one end leads into the
interior of said cap, to allow ozone to flow into the
interior of said cap;
 wherein the combination of said parts allows
10 the user's hair roots to take in oxygen and the hair tips
to strengthen, removing dirt particles in the hair pores
for beauty and hair care.
- 15 2. An oxygen beauty and hair care cap as claimed
in claim 1, wherein a gas flow system is further
provided, which is installed inside said cap and is
connected to said gas supply duct to evenly spread ozone
gas inside the space enclosed by said cap.
- 20 3. An oxygen beauty and hair care cap as claimed
in claim 2, wherein said gas flow system consists of a
circular shaped gas flow tube, which is connected to said
gas supply duct, and a plurality of holes for the outflow
of gas.