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The present invention relates to a suction device for hair clippings, which substantially comprises an electrically operated, compact air suction device with an electric motor and suction fan wheel, a slip-on suction nozzle with an attached comb part, a filter bag or the like, and an all-encompassing housing with a handle.

Electric suction devices for domestic and industrial purposes are known, but their technical details are designed in such a way that they are used solely for dust suction purposes. In each case, a suction nozzle is provided which is connected to the suction device via a hose. Smaller, compact vacuum cleaners for hair removal purposes in which the nozzle is located directly on the device and is surrounded by bristles, i.e., a brush component, are known as well.

The device according to the invention, on the other hand, is designed in such a way that the cut hair, which is either dry or wet, is combed out of the main hair during the operation of the device by means of a comb arranged upstream of a suction nozzle and is immediately suctioned. The device is also designed in such a way that the comb can be removed, and the suction nozzle can be placed directly, for example on the skin of the neck, in order to also remove hair that was cut off in these areas or to massage a particular area with the suction nozzle. The suction nozzle is specifically adapted to the intended use of the device and therefore has a beak-like shape. The suction openings in this nozzle can be perforated or slotted, arranged in one or more rows and are preferably located 1 to 3 cm away from the upstream comb. However, the suction openings can also be located directly at the tip of the beak-like nozzle part.

A mounting bracket or similar detachable attachment for the comb is provided on the nozzle. The comb advantageously has comb teeth that are angled away from the plane of the back of the comb so that they are located in the air suction. The suction nozzle has a slightly hollowed-out shape, which causes it to adapt to the shape of the head and neck in a more preferable manner. The nozzle is

Suction device for cut hair

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connected to the housing of the device by means of a plug connection or the like. A filter bag, which can be made of filter paper or textile material, is attached to its connection point and conveniently comprises a retaining ring. The filter bag is located in a special housing part, which connects to the housing part with the motor and suction fan wheel. These housing parts can be designed to be detachable from each other. At the other end, the device is closed by means of a cover which is provided with a venting opening. This opening consists of a screen made of silver threads. A handle is formed underneath the housing, which is provided with a switch and the mains connection cable, and which makes it possible to use the device properly and comfortably.

The device as described above is very easy to use. While combing through hair, the device can also be repeatedly switched off and on again, depending on the work process. Compared to the known cleaning method used in hair salons after haircuts, the new device offers considerable advantages, because it removes most of the loose cut hair directly from the main hair, leaving very little hair to fall onto the neck and into the neckline, which is then also removed with the device, so that the customer can leave the hair salon without any annoying hair remaining on the skin of the head or the body. Without the attachment comb as a massage suction cup, the device is also useful for massages and beauty salons as well as for home use.

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The drawing provides one embodiment of the invention.

Fig. 1 shows an overall view of the device, a partial longitudinal section and

Fig. 2 shows a partial view of the suction nozzle in the direction of the arrow »A«.

A suction unit, comprised of an electric motor **11** and a suction fan wheel **12**, is arranged in a housing **1** made of plastic or metal. Underneath the housing is a handle **14**, which conveniently has the shape of a pistol grip, and which has a switch **15** for switching the electric current on and off as well as an opening for the mains connection cable, which is not specifically shown in Fig. 1. The housing **1** is continued towards the nozzle by the housing part **2**, which can be detachably connected to the housing **1** via a connection point **10** and which serves to hold the filter bag **7**, which is clamped to the connection point **9** by means of a ring **8**. The suction nozzle **3** is attached to the connection point **9**, advantageously a bayonet catch. This in turn has a mounting bracket **6** for the detachable attachment of an angled comb **5**. Nozzle openings **4** are provided on the suction nozzle in the vicinity of the suction nozzle tip, which may have a slot-like shape as shown in Fig. 2 or a hole-like shape. One or more nozzle openings may be provided. At the rear part of the housing **1**, there is an air outlet opening and a silver thread screen **13** covering this opening.

Claims:

1. Suction device for cut hair with an electric motor and a suction fan wheel built into a

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housing, characterized in that the housing is equipped on its suction side with a fixed but detachably arranged suction nozzle (**3**) and in that a comb (**5**) is detachably fastened to it in front of the nozzle openings (**4**) on a mounting bracket (**6**), and in that a removable filter bag (**7**) or the like is placed behind the suction nozzle in the interior of the housing.

2. Suction device according to claim 1, characterized in that the suction nozzle (**3**) has a beak-like shape and in that the nozzle openings (**4**) are located on the underside of the beak in the vicinity of the tip of the beak or also directly at the tip of the beak.

3. Suction device according to claim 1 or 2, characterized in that the nozzle openings (**4**) have a slot- or hole-like shape.

4. Suction device according to claim 1 or 2, characterized in that the comb (**5**) has comb teeth angled away from the plane of the back of the comb, the comb teeth being located in the air suction of the nozzle openings (**4**).

5. Suction device according to claim 4, characterized in that the nozzle openings are located 1 to 3 cm behind the comb teeth.

6. Suction device according to claim 1, characterized in that the air outlet opening on the housing (**1**) is designed as a silver thread screen (**13**).

7. Suction device according to claim 1, characterized in that the housing (**1**) has a pistol-like handle (**14**).

Publications considered:

USA patent specifications No. 953 267, 1 651 585.

Refer to 1 sheet of drawings

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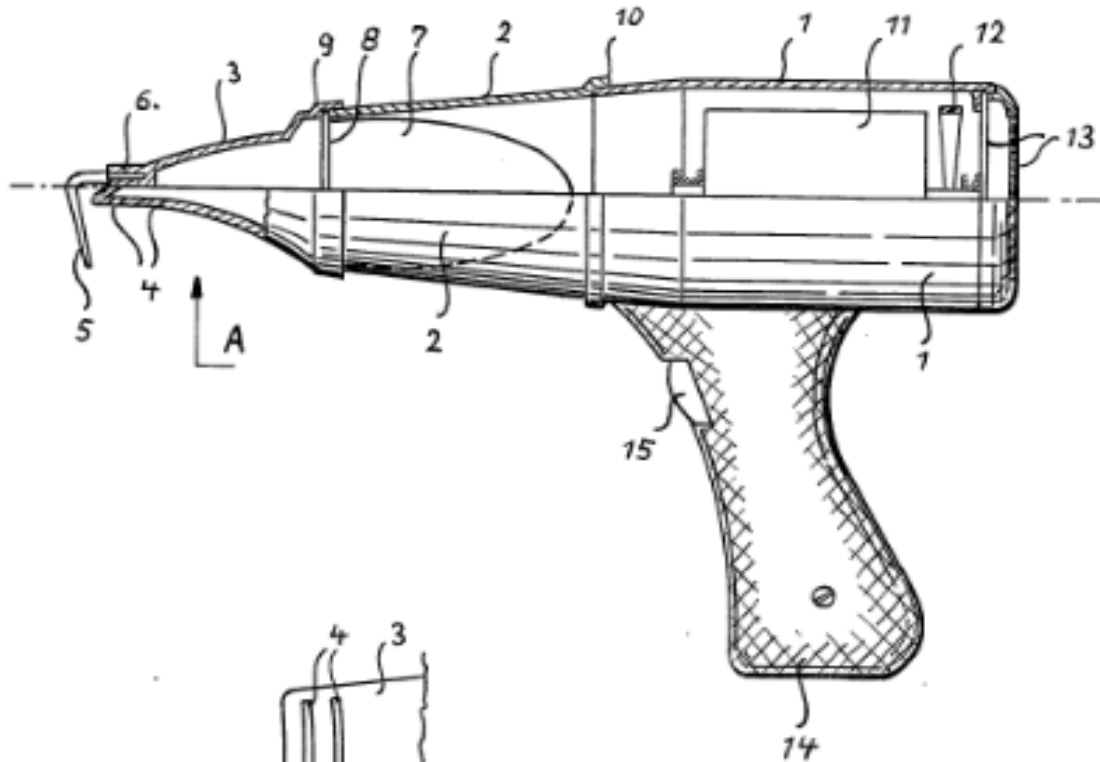


Fig. 1

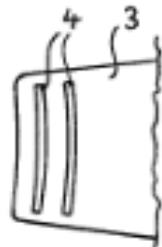


Fig. 2

TRANSLATION CERTIFICATION

Date: June 12, 2024

To whom it may concern:

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“To the best of my knowledge, the aforementioned documents are a true, full and accurate translation of the specified documents.”

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