April 22, 1930. A. B. S. STANLEY 1,755,936

MASSAGING DEVICE

Filed April 25, 1928

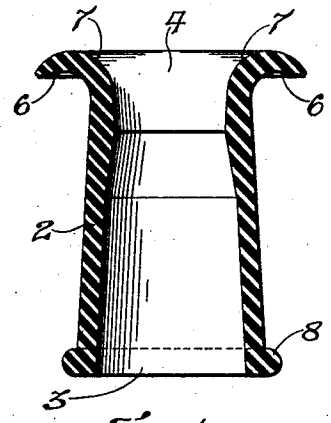


Fig. 1.

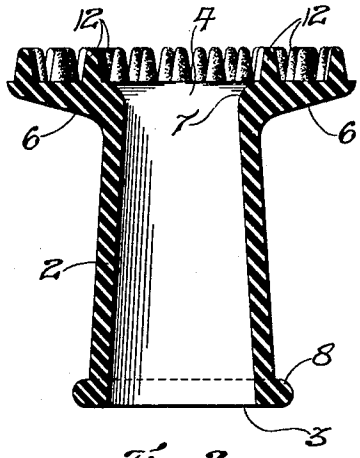


Fig. 2.

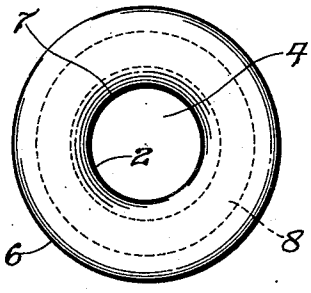


Fig. 3.

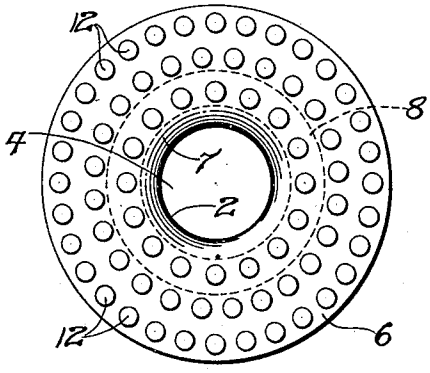


Fig. 4.

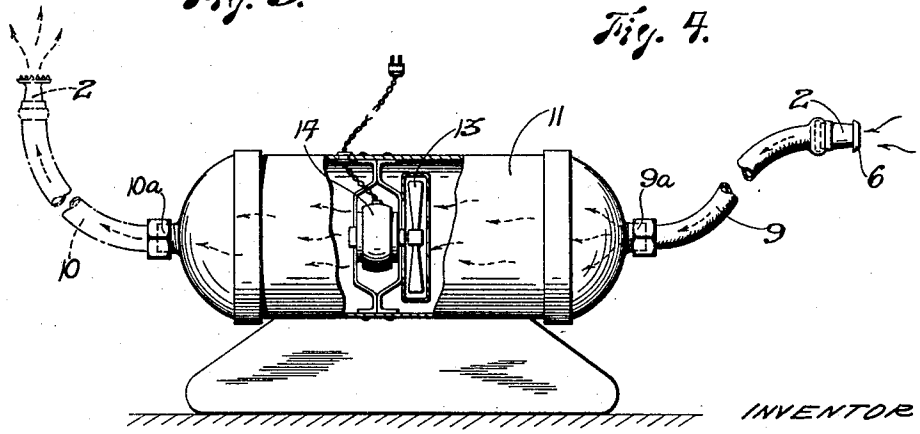


Fig. 5.

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UNITED STATES PATENT OFFICE

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MASSAGING DEVICE

Application filed April 25, 1928, Serial No. 272,777, and in Australia July 21, 1927.

This invention relates to devices for the massage of the face, scalp and other parts of the human body.

Such massaging devices usually consist of a cup like or other rubber massaging element to which a rotary or vibratory motion is imparted by an electric motor.

The primary object of the present invention is to provide an improved massaging device in the form of a nozzle which may be readily attached to the suction hose of an electrically driven suction producing machine embodying a rotary fan whereby the face, scalp and other parts of the human body may be subjected to a suction or vacuum effect which stimulates blood circulation, opens the pores of the skin, effectively removes scurf, dandruff and the like from the scalp, and otherwise affords a highly efficient and inexpensive substitute for the massaging devices at present in use.

A nozzle, in accordance with the invention, may also be attached to a compressed air discharge hose of said machine whereby it may be effectively employed for hair drying and like purposes.

A further object of the invention is to provide a massaging apparatus comprising in combination a suction producing machine embodying a fan as abovementioned, a flexible hose connected thereto, and a nozzle adapted for massage purposes attached to the outer end of said hose.

Referring to the drawings which form part of this specification:—

Figure 1 is a longitudinal section of a nozzle in accordance with one embodiment of this invention which is particularly adapted for massage of the face or body.

Figure 2 is a similar section of another form of the invention, especially adapted for scalp massage purposes.

Figures 3 and 4 are plan views of Figures 1 and 2 respectively.

Figure 5 is a part sectional side view of a complete massage apparatus in accordance with the invention, parts being broken away for convenience of illustration.

The improved nozzle includes a tubular body portion 2 which may converge slightly from its rear end 3 to its front end where the nozzle is provided with an orifice 4 surrounded by an outturned annular flange 6 which is adapted to be pressed against or close to the skin of the part under treatment.

For massage of the face, body and limbs, the nozzle is provided with a rounded shoulder 7 surrounding the induction orifice 4 and connecting the internal surface of the tubular body 2 with the front face of the aforesaid flange 6 whereby the latter may be pressed close against the skin without discomfort and in such a manner as to provide an effective suction against that portion of the skin which is surrounded by the flange.

The rear end 3 of the tubular nozzle body is preferably provided with an external lip or bead 8 over which the outer end of the suction hose 9 or a discharge hose 10 of a suction producing machine 11, may be closely fitted or alternatively said hose or hoses may be fitted tightly with the nozzle.

The machine 11 embodies a rotary fan 13 driven by an electric motor 14 and adapted to induce a relatively strong current of air through the suction hose 9 and nozzle attached thereto. Preferably suitable connections 9^a, 10^a, are provided on the machine 11 at either side of the fan 13 to receive the suction hose 9 or the compressed air discharge hose 10 according to requirements.

In Figures 2 and 4 is a modified nozzle which is especially adapted for scalp massage purposes and for the removal of scurf, dandruff and the like. In this case the outstanding flange 6 is relatively flat and of extended width, the rounded shoulder 7 being preferably less pronounced than in the embodiment above described. Projecting forwardly from this relatively flat flange is a series of short resilient pins or projections 12 which are preferably formed of rubber and may be integral with the said flange.

Rubber is also preferably employed in the construction of the body and flange of the nozzle but other suitable material, may, if desired, be employed for this purpose and in the construction of the said pins or projections.

It will be evident that the invention enables

a suitable suction producing machine, such, for instance, as a vacuum cleaner, particularly of the electrically operated type, to be conveniently and effectively utilized for massage purposes in hairdressing establishments, households and other places, thus dispensing with the necessity for the relatively expensive appliances which are at present specially constructed for the purpose.

In using the invention for suction massage purposes the nozzle 2 is applied to the outer end of the flexible suction hose 9 whereupon the apparatus may be effectively used by pressing the flange 6 of the nozzle seen in Figures 1 and 3 against the part to be treated and thus moving the nozzle over the surface of the skin.

With the modification seen in Figures 2 and 4 which is particularly intended for scalp massage purposes, the projections 12 are pressed against the surface under treatment and thus assist the massaging effect and the dislodgment of dandruff and the like from the scalp so that it may be readily withdrawn by the suction through the hose 9. In this case the degree of suction through the nozzle may be regulated according to the pressure applied to the flexible projections which pressure determines the area of the opening between the nozzle flange and the surface under treatment.

For hair drying the hose 10 with either of the above mentioned nozzles attached to its outer end may be connected as at 10^a to the air discharge side or end of the machine so that by placing the nozzle against or adjacent the head of the user the hair may be quickly and conveniently dried and in this case also the projections 12 may assist to dislodge dandruff and the like and massaging the scalp.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

A massaging apparatus including a tubular body provided at one end with an outturned annular flange and at the opposite end with an external bead, the juncture of the flange and inner wall of the body being rounded, said flange beyond the inner wall of the body being provided with a series of upstanding resilient projections extending throughout the full circumferential length and surface of the flange.

In testimony whereof I affix my signature.

ANDREW BURNS SHAW STANLEY.