

Feb. 17, 1931.

G. ROSCHER

VACUUM BRUSH

Filed Feb. 14, 1929

1,792,712

Fig. 1.

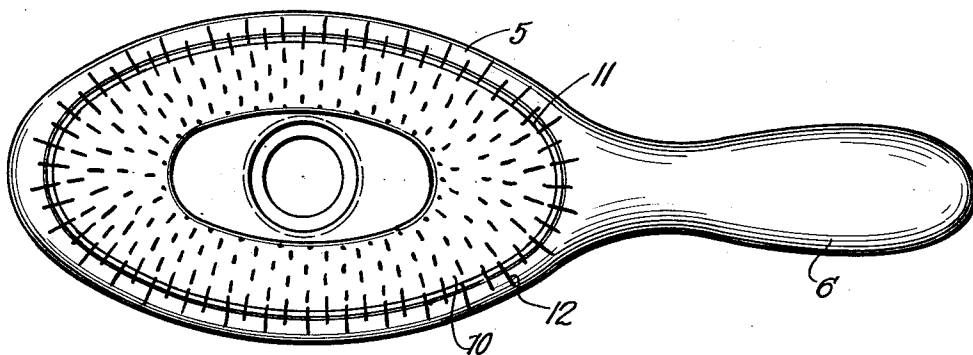
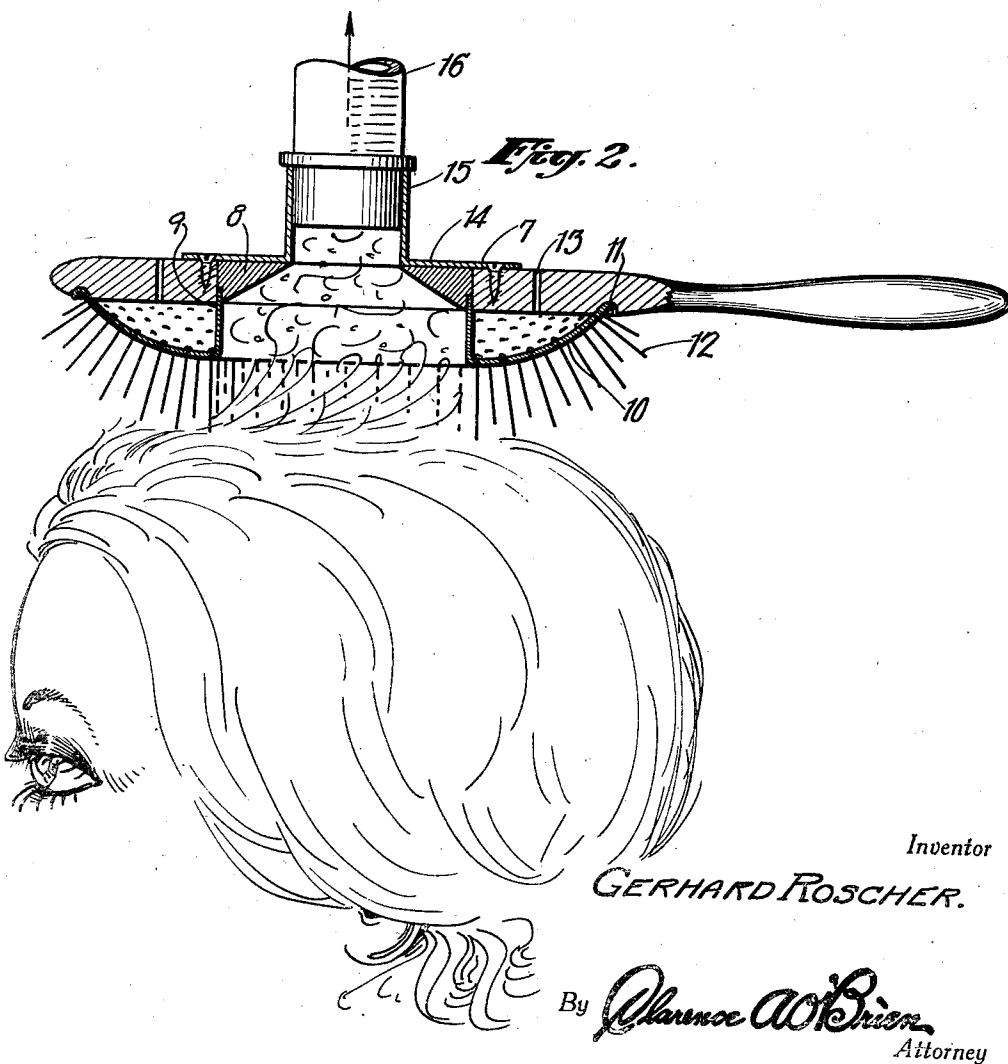


Fig. 2.



Inventor

GERHARD ROSCHER.

By

Clarence W. Brien

Attorney

UNITED STATES PATENT OFFICE

GERHARD ROSCHER, OF WASHINGTON, NEW JERSEY.

VACUUM BRUSH

Application filed February 14, 1929. Serial No. 339,793.

This invention relates to new and useful improvements in vacuum brushes that is primarily adapted for the cleaning of the human hair to remove therefrom dandruff particles, and loose strands or pieces of hair after it has been cut by the barber. However, the brush may be adapted for other uses, such as the cleaning of furs and the like. Also, the brush may be employed on animals to remove therefrom loose particles of hair and other foreign matter, after the animal has been clipped, or as a matter of fact at any time. An important object of this invention is to provide a vacuum brush of this character that is extremely simple of construction and inexpensive of manufacture, and one that is well adapted for the cleaning of human and animal hair, as well as for the cleaning of furs, draperies, or other articles.

With the foregoing and other objects in view as the nature of the invention will be better understood from the following specification when considered in conjunction with the accompanying drawings, and wherein:

Figure 1 is a bottom plan view of my brush, and

Figure 2 is a detailed longitudinal section of the brush.

Now having particular reference to the drawings, my novel brush consists of a suitable backing 5 constructed or equipped with a handle 6. This backing 5 is formed centrally with an opening 7, within which is arranged a rubber collar 8 that affords a means for securing the inner end of a narrow rubber tube 9 within said opening. This tube is formed at the center of a strip of heavy rubber or canvas 10, of a shape generally similar to the shape of the backing, the outer edge of this strip being secured to the backing in any desired manner such as at 11.

The tube 9 projects considerably beyond the inner face of the backing, so as to maintain the strip spaced therefrom, said strip providing a cushion brush head, with which are associated suitable bristles 12 of fine wire or other material, the ends of which are blunt so as not to scrape the scalp or skin of the human being or animal, over which the brush is moved. In order that the said cushion may

flex properly, the backing 5 is formed within the confines of the cushion with small air openings 13. Arranged upon the top surface of the backing 5 over the opening is a metal plate 14, formed centrally with a sleeve 15 that communicates with the opening in the backing, and that is adapted for receiving one end of a vacuum tube 16, the opposite end of which is equipped for association with a vacuum motor that may be supported by a stand or arranged rigidly upon a shelf or within a wall.

It will be obvious that in use, the rubbing of the brush over the scalp or other surface being cleaned will stir up the loose particles of hair or other foreign matter, causing the same to be sucked through the brush, and conveyed by the tube 16 to a suitable receptacle.

In view of the foregoing description when considered in conjunction with the accompanying drawings, it will thus be seen that I have provided a novel, simple, useful and highly efficient vacuum brush that is well adapted for all of the purposes heretofore designated, and even though I have herein shown and described the invention as consisting of certain detailed structural elements, it is nevertheless to be understood that some changes may be made therein, without affecting the spirit and scope of the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by Letters-Patent, is:

1. In a brush of the character described, a backing having a centrally disposed opening, a coupling sleeve mounted on one side of the backing and disposed over the opening for connecting a suction pipe to the backing in communication with the opening, a flexible tube positioned in the opening and projecting beyond the opposite side of the backing, a flexible collar disposed in the opening for anchoring the tube therein, a flexible strip having a centrally disposed opening and connected at its outer marginal edge portion, to the marginal portions of the backing and at its inner marginal portion to the free end of the tube and bristles mounted on the strip and projecting outwardly therefrom.

2. In a brush of the character described, a backing having a centrally disposed opening, a flexible backing strip having its outer marginal edge secured to the under side of said backing and provided with an inwardly extending tube which extends into and fits against the walls of said opening, means for securing said tube within said opening so that said strip is caused to bulge outwardly from the underside of said backing, bristles extending from said strip, and a suction pipe connection extending from the upper side of said backing in communication with said opening to which a suction pipe is adapted to be connected for creating a suction through said tube.

3. In a brush of the character described, a backing having a centrally disposed opening, a flexible backing strip having its outer marginal edge secured to the under side of said backing and provided with an inwardly extending tube which extends into and fits against the walls of said opening, means for securing said tube within said opening so that said strip is caused to bulge outwardly from the underside of said backing, said backing having air openings therein opening into the space between said backing and said flexible strip, bristles extending from said strip, and a suction pipe connection extending from the upper side of said backing in communication with said opening to which a suction pipe is adapted to be connected for creating a suction through said tube.

4. In a brush of the character described, a backing having a centrally disposed opening, a flexible backing strip having its outer marginal edge secured to the under side of said backing and provided with an inwardly extending tube which extends into and fits against the walls of said opening, a resilient collar seated in the walls of said opening and holding said tube thereagainst, bristles extending from said strip, and a sleeve member secured to said backing in communication with said opening and extending therefrom to which a suction pipe is adapted to be connected for creating a suction through said tube.

In testimony whereof I affix my signature.
GERHARD ROSCHER.

55

60

65