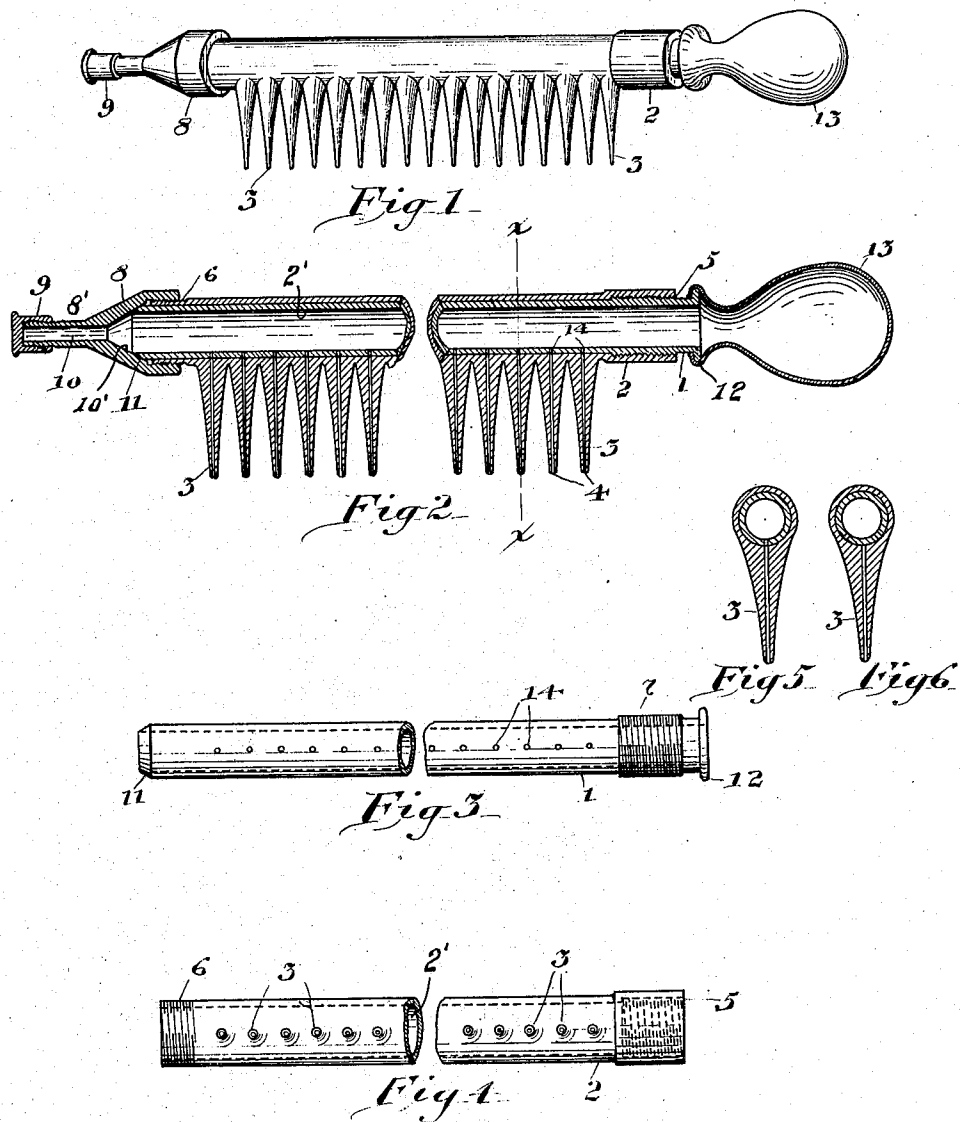


J. SWANBERG.
HAIR COMB.
APPLICATION FILED OCT. 20, 1908.

933,274.

Patented Sept. 7, 1909.



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UNITED STATES PATENT OFFICE.

JULIUS SWANBERG, OF DIXON, ILLINOIS.

HAIR-COMB.

933,274.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed October 20, 1908. Serial No. 458,605.

To all whom it may concern:

Be it known that I, JULIUS SWANBERG, a citizen of the United States, residing at Dixon, county of Lee, and State of Illinois, have invented certain new and useful Improvements in Hair-Combs, of which the following is a specification.

My invention relates to improvements in hair combs, the object being to provide a reservoir in a comb adapted to contain hair oil, hair tonic and the like.

A further object of my invention is to provide means for filling the reservoir with hair oil and also means for ejecting the same as desired by the user of the comb. And a further object of my invention is to provide means for closing the openings through which the hair oil is adapted to flow from the reservoir.

Other objects will appear hereinafter.

With these objects in view, my invention consists in a comb provided with an inner tube or oil reservoir, concentric with and inclosed by a tubular casing, in a means for filling the inner tube with hair oil, and in a rubber bulb attached to said inner tube adapted to fill the same with hair oil by suction and to force the same through the teeth of the comb when the bulb is pressed between the fingers of the user.

My invention further consists in certain details of construction and arrangements of parts all as will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of my improved hair comb in its preferred form, Fig. 2 is a central, longitudinal section showing a portion broken away, Figs. 3 and 4 are detail bottom elevations of the inner tube and casing, respectively, and Figs. 5 and 6 are transverse sections taken on the line $x-x$ of Fig. 2 showing the method of closing the openings in the inner tube.

Referring now to the drawings, 2 indicates the body of the comb which is preferably cylindrical and which is provided with a longitudinal bore 2' and a plurality of teeth, 3, formed integrally therewith. Each tooth, 3, is provided with a minute longitu-

dinal perforation, 4, which communicates with the bore, 2', and extends through the end of the tooth as shown clearly in Figs. 2, 5, and 6. One end of the body, 2, is slightly enlarged and internally threaded as at 5, and the opposite end is externally threaded as at 6, for purposes which will be described hereinafter.

Rotatably mounted in the bore, 2', is a tubular reservoir, 1, adapted to contain hair oil. The reservoir, 1, is provided with a row of minute perforations, 14, which are adapted to register with the inner ends of the perforations 4, in the teeth when the reservoir is in one position. By slightly turning the reservoir as illustrated in Fig. 6, the passage ways from the reservoir to the teeth are closed. The reservoir, 1, is longer than the body, 2, and projects or extends beyond the same at each end, and adjacent to one end said reservoir is threaded as at 7, to engage the threads, 5, of the body, 2.

The projecting end of the reservoir adjacent to the threaded portion 7, is provided with an annular rib or flange 12 to receive a flexible rubber bulb, 13. The opposite projecting end is beveled or tapered as at 11. Threaded upon the threaded end 6, of the body, 2, is a nozzle, 8, which is tapered beyond the body portion terminating in a reduced extension, 8', upon the end of which is threaded a cap or closure, 9. The bore, 10, of the nozzle is tapered as at 10' to correspond with the taper, 11, on the end of the reservoir and fits snugly against the same to form an oil tight joint.

To use the device the cap 9 is removed and the end of the nozzle inserted in the oil and the bulb compressed and released, which will draw the oil into the reservoir. The reservoir is then slightly turned until the perforations, 14, register with the perforations, 4, after which as the comb is being used, the bulb 13, may be lightly compressed, which will eject the oil through the teeth. By lightly turning the reservoir the perforations may be closed and the comb used as an ordinary comb; however, this latter may be done without closing the perforations as the perforations are preferably so minute that the oil will not flow therefrom unless the bulb, 13, is compressed.

Although the comb may be made of any suitable material, I prefer to manufacture

the same entirely of vulcanite with the exception of the soft rubber bulb, 13.

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

1. In a comb, a body portion having a longitudinal bore and a plurality of teeth thereon each having a perforation communicating with said bore, in combination with a reservoir rotatably mounted in said bore and provided with a plurality of perforations adapted to register with the perforations in said teeth when the reservoir is in one position, substantially as described.

2. In a comb, a body portion having a longitudinal bore in combination with a reservoir rotatably mounted in said bore, a plurality of teeth extending from said body portion and each provided with a longitudinal perforation communicating with said bore, said reservoir being provided with a corresponding number of perforations adapted to register with the perforations in said teeth when the reservoir is in one position, and a flexible bulb on the end of said reservoir, substantially as described.

3. In a comb, a body portion having a longitudinal bore and a plurality of teeth formed integrally with said body portion and each provided with a longitudinal perforation communicating with said bore, in combination with a tubular reservoir rotatably mounted in said bore, a flexible bulb upon one end of said reservoir and a nozzle upon the opposite end of said reservoir, said reservoir being provided with a plurality of perforations adapted to register with the perforations in said teeth when said reser-

voir is in one position substantially as described.

4. In a comb, a body portion having a longitudinal bore and a plurality of teeth extending therefrom and each provided with a longitudinal perforation communicating with said bore, one end of said body portion being internally threaded and the opposite end externally threaded, in combination with a tubular reservoir threaded adjacent to one end to engage the internal threaded portion of the body and provided with a plurality of perforations adapted to register with the perforations in said teeth when the reservoir is in one position, and a nozzle threaded upon the opposite end of said body portion, substantially as described.

5. In a comb, a body portion having a longitudinal bore and a plurality of teeth extending therefrom and each provided with a longitudinal perforation communicating with said bore, in combination with a tubular reservoir rotatably mounted in said bore and provided with a plurality of perforations adapted to register with the perforations in said teeth when said reservoir is in one position, a nozzle secured to one end of said body portion and abutting the adjacent end of said reservoir forming a tight joint and a flexible bulb on the opposite end of said reservoir, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JULIUS SWANBERG.

Witnesses:

HELEN F. LILLIS,
ANNA L. ERVALL.