

No. 665,608.

Patented Jan. 8, 1901.

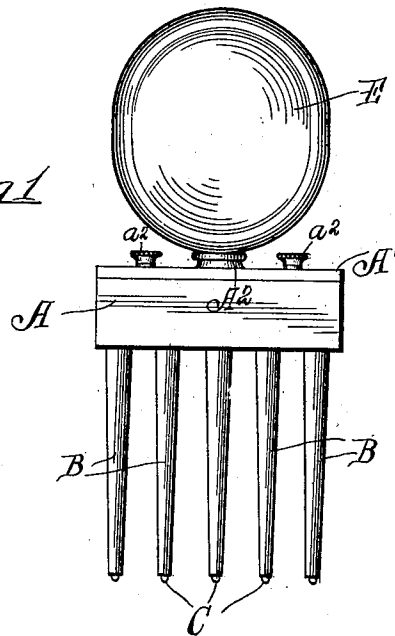
D. KOTZ.

COMB.

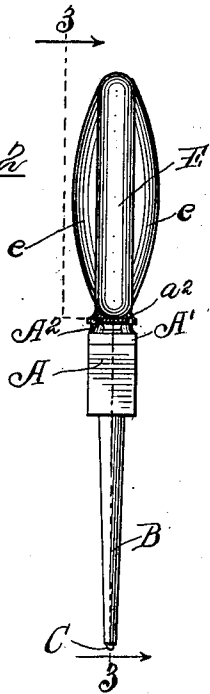
(Application filed Dec., 19, 1898.)

(No Model.)

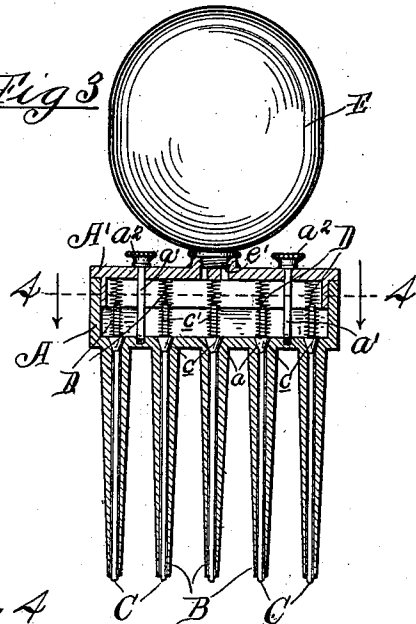
*Fig 1*



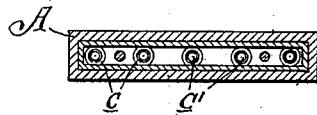
*Fig 2*



*Fig 3*



*Fig 4*



Witnesses:-

Carl H Crawford

Chas Fines

Inventor:-

Daniel Kotz

By Poole + Brown His Attys

# UNITED STATES PATENT OFFICE.

DANIEL KOTZ, OF PARK RIDGE, NEW JERSEY.

## COMB.

SPECIFICATION forming part of Letters Patent No. 665,608, dated January 8, 1901.

Application filed December 19, 1898. Serial No. 699,672. (No model.)

*To all whom it may concern:*

5 Be it known that I, DANIEL KOTZ, of Park Ridge, in the county of Bergen and State of New Jersey, have invented certain new and  
10 useful Improvements in Fountain-Combs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked  
15 thereon, which form a part of this specification.

This invention relates to a novel device in the nature of a comb for applying to the scalp or hair a medicinal liquid—such, for instance, as a tonic or the like.

15 The invention consists in the matters hereinafter described, and pointed out in the appended claims.

20 In the accompanying drawings, Figure 1 is a view in side elevation of a comb embodying my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a central longitudinal section thereof on line 3 3 of Fig. 2. Fig. 4 is a horizontal section taken on line 4 4 of Fig. 3.

25 As shown in the drawings, A is a hollow body forming what may be called the "back" of the comb and provided with a plurality of tubes or tubular teeth B B, arranged like the teeth of a comb. Within said tubular teeth  
30 are located endwise-sliding stems or rods C, provided within the hollow body A with conical valve closures or plugs *c*, which are adapted to engage conical valve-seats *a*, formed at the inner ends of the teeth and adapted to control the passage of liquid from the hollow  
35 body to the tubular teeth. The interior passages of the teeth are made slightly larger than the rods C, so as to permit the flow of liquid passing the valves outwardly or downwardly past said rods to the ends of the teeth. Said valve-plugs are held against their seats  
40 by means of suitably-applied springs, herein shown as having the form of coiled springs D, surrounding extensions *c'* of the rods C and bearing against the valve-plugs at their ends adjacent thereto and against the opposing or outer wall of the hollow body at their opposite ends. At the outer ends of the  
45 teeth the rods C project slightly beyond the ends of the same, so that when the rods are  
50 pushed inwardly by contact of the ends there-

of with the scalp when the comb-teeth are pressed against the head liquid within the body A will pass through the hollow teeth and will be discharged at the ends thereof. The  
55 outer end of each tooth terminates in a plane substantially perpendicular to the longitudinal axis of the tooth, whereby the rod which projects from the tooth may have contact with the scalp to unseat the valve-closure at what-  
60 ever angle the comb may approach the scalp. The springs D are made of sufficient strength to prevent accidental unseating of said closures in the usual handling of the comb.

The hollow body A is shown as having a  
65 separate top or cover A', which is provided with marginal flanges fitting within the top of the hollow body, but which may be otherwise fitted at its margins to the top of said hollow body. Said top or cover will be se-  
70 cured to the hollow body in any suitable manner, the securing means shown consisting of two screws *a'*, which are inserted through holes in the top or cover and engage screw-threaded apertures in the opposite wall of the  
75 hollow body. Said screws are shown as provided with milled heads *a<sup>2</sup>*, by which they may be readily removed and inserted when the cover is taken from the body for cleaning the parts or other purposes.

80 For supplying liquid to the hollow body A I provide a detachable supply vessel E, having an orifice for the exit of the liquid, the same being collapsible or constructed with compressible side walls, so that liquid therein may be forced through the orifice of the vessel into the hollow body. Said vessel is herein shown as made of sheet metal of flattened form having rounded side walls *e e*, which may be compressed or partially collapsed to force the  
85 liquid from the receptacle. The exit-orifice of the receptacle is formed by means of a nozzle *e'*, provided with screw-threads and adapted for insertion in a tubular extension A<sup>2</sup>, formed in the cover A' of the hollow body  
90 A. The vessel is made separable from the hollow body in order that it may be refilled when desired, and, preferably, such vessel will have a separate screw-cap, by which it may be closed when separated from the comb  
95 proper. A person using the comb may, therefore, have several different supply vessels  
100

containing different medicinal substances, so that either may be used with the same comb, as desired.

I claim as my invention—

- 5 1. A toilet-comb comprising a hollow body, a supply vessel or fount communicating there-  
with, tubular teeth on one side of the body,  
said body being open at its side opposite to  
10 the teeth, a removable cover fitting the edges  
of the open side of the body, rods in said teeth  
provided with valve-closures fitting seats  
within the teeth, said rods projecting at their  
15 outer ends entirely beyond the teeth in position  
for contact with the scalp, and terminating  
at their inner ends within said body a distance  
inside said removable cover, and spirally-  
coiled springs applied around the inner  
20 ends of said rods between said valve-closures  
and said removable cover.
2. A toilet-comb comprising a hollow body,  
a supply vessel or fount communicating there-  
with, tubular teeth on one side of the body,  
said body being open at its side opposite to

the teeth, a removable cover fitting the edges  
of the open side of the body, rods in said  
25 teeth provided with valve-closures fitting  
seats within the teeth, said rods projecting  
at their outer ends entirely beyond the teeth  
in position for contact with the scalp, and ter-  
minating at their ends within said body a dis-  
30 tance inside of said removable cover, and spirally-  
coiled springs applied around the inner  
ends of said rods, between said valve-closures  
and said removable cover, and engaging at  
their opposite ends the closures and inner face  
35 of the cover, whereby when the cover is re-  
moved, the spring, valve-rods and valves may  
be removed from the other parts of the comb.

In testimony that I claim the foregoing as  
my invention I affix my signature, in pres-  
40 ence of two witnesses, this 13th day of Decem-  
ber, A. D. 1898.

DANIEL KOTZ.

Witnesses:

C. W. HILLS,

R. CUTHBERT VIVIAN.