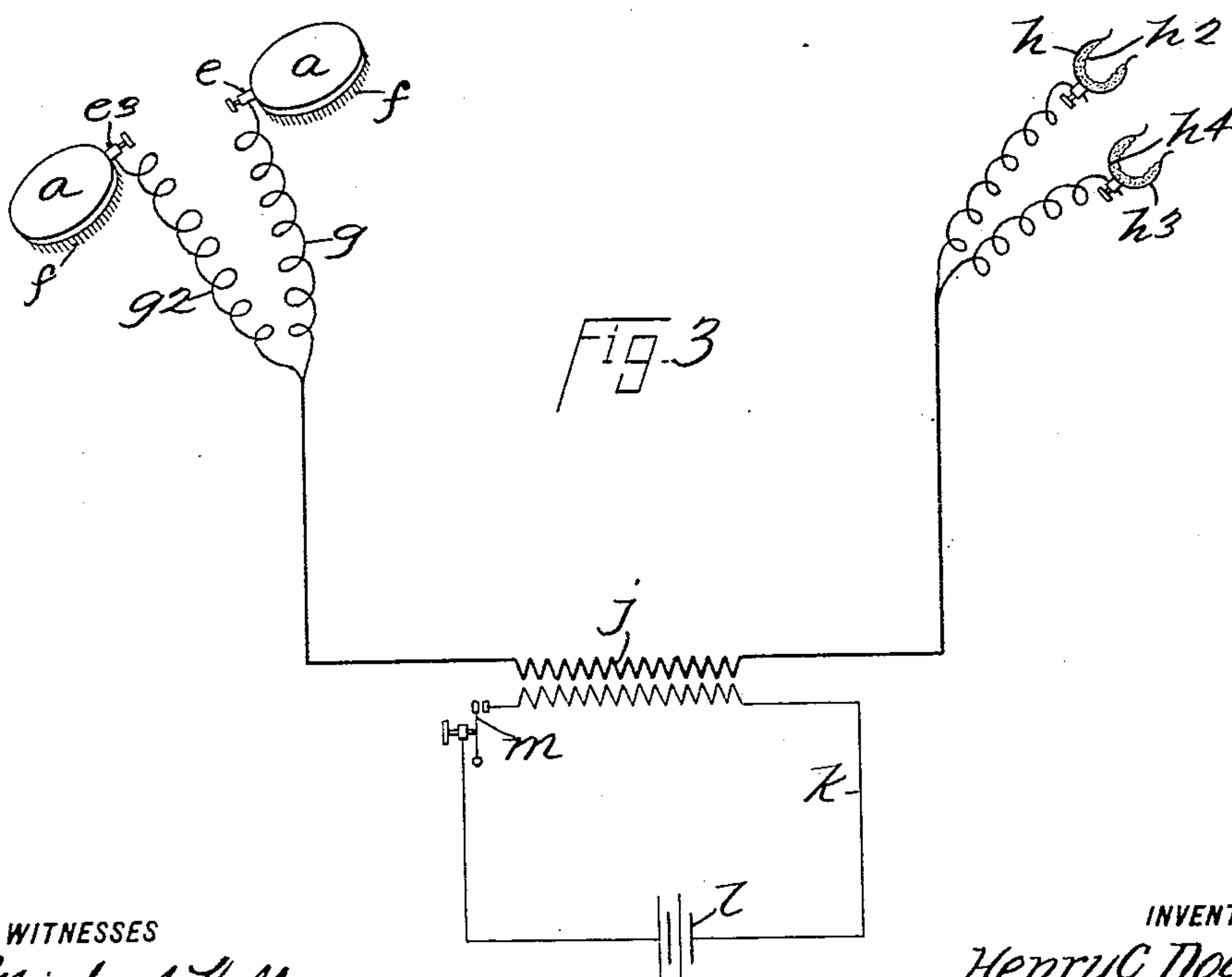
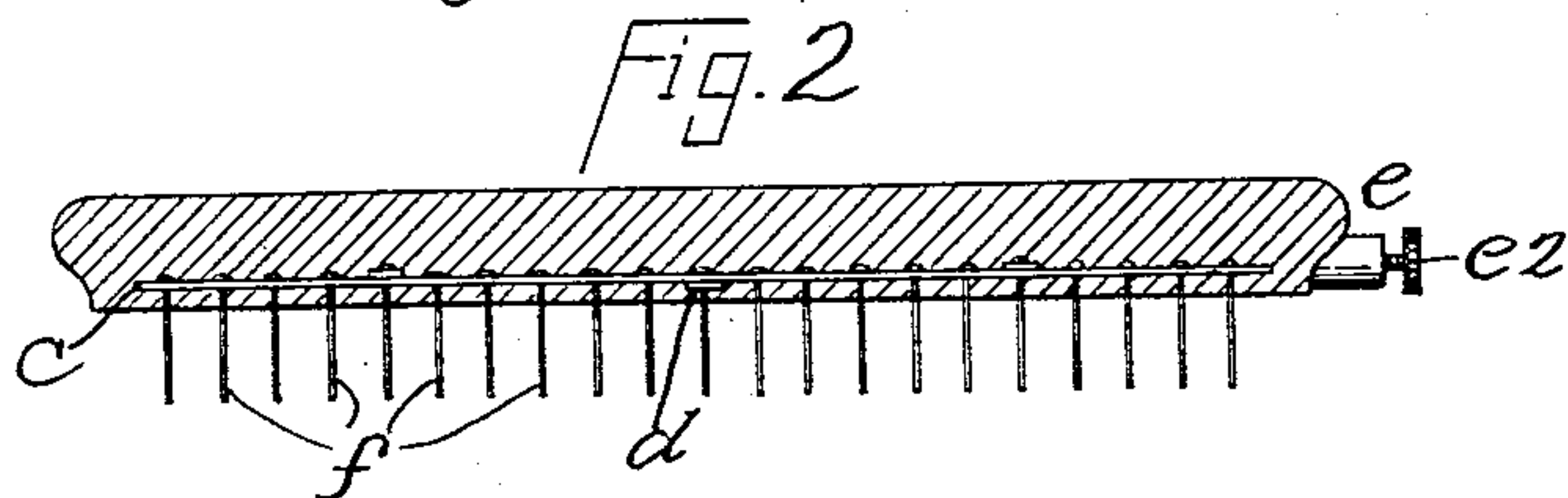
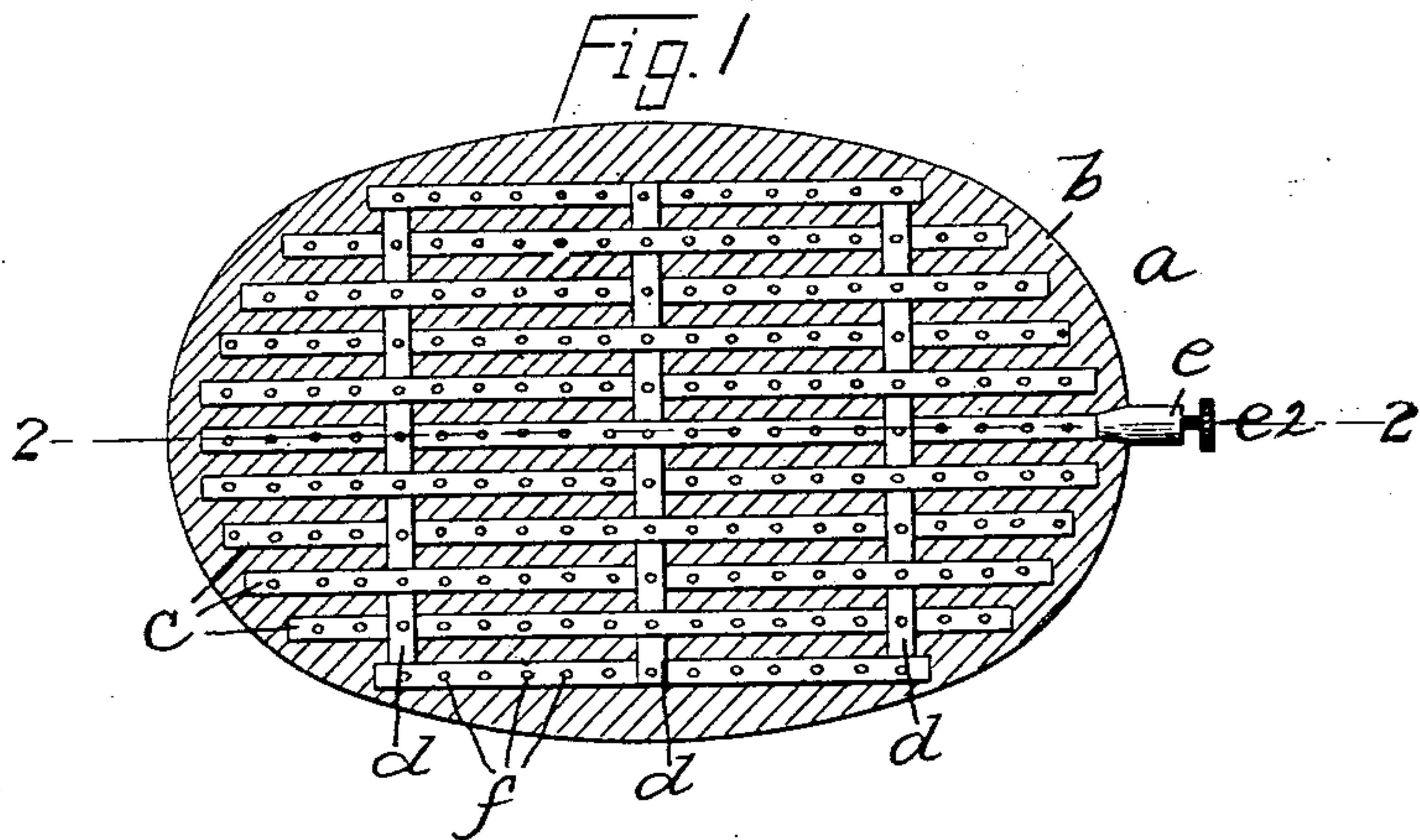


No. 751,839.

PATENTED FEB. 9, 1904.

H. C. DOERSCH.
ELECTRIC HAIR BRUSH.
APPLICATION FILED JUNE 1, 1903.

NO MODEL.



WITNESSES

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HENRY CONRAD DOERSCH, OF NYACK, NEW YORK, ASSIGNOR OF ONE-HALF TO WILLIAM S. PICKARD, OF BROOKLYN, NEW YORK.

ELECTRIC HAIR-BRUSH.

SPECIFICATION forming part of Letters Patent No. 751,839, dated February 9, 1904.

Application filed June 1, 1903. Serial No. 159,417. (No model.)

To all whom it may concern:

Be it known that I, HENRY CONRAD DOERSCH, a citizen of the United States of America, residing at 36 Cedar Hill avenue, Nyack, in the county of Rockland and State of New York, have invented certain new and useful Improvements in Electric Hair-Brushes, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improvement in hair-brushes which induce an electric current through the head and body, thereby stimulating the circulation of the blood and assisting the growth of the hair, a further object being to provide a hair-brush of this class which is simple in construction and operation and comparatively inexpensive.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which similar reference characters are used to indicate similar parts in each of the views, and in which—

Figure 1 is a bottom sectional plan view of a hair-brush constructed according to my invention; Fig. 2, a section on the line 2 2 of Fig. 1, and Fig. 3 a diagrammatic view of the apparatus which I employ and showing the electric wiring therefor.

In Fig. 1 of the drawings I have shown a hair-brush *a*, consisting of a body portion *b*, of rubber or other insulating material, within which are secured a plurality of strips *c*, arranged longitudinally, of metal or other conductive material, and arranged transversely of the strips *c* and preferably entwined therewith are a plurality of similar strips *d*, and secured to the central one of the strips *c* and projecting beyond the body portion *b* is a binding-post *e*, provided with a set-screw *e*². Passing through the strips *c* and *d* are a plurality of downwardly-directed fingers or teeth *f*, which are also composed of conductive material and which are preferably slightly flexible and are prevented from too free movement by the rubber body portion *b*, and the body portion *b* if composed of soft rubber assists the teeth *f* in their operation.

In the practice of my invention I prefer to

employ two of the brushes *a*, and in electrical connection with each of the binding-posts *e* and *e*³ is a wire *g* and *g*², respectively, and in electrical connection with the wire *g* is a curved plate *h*, of conductive material, and within which is secured a sponge *h*², and the wire *g*² is similarly provided with a curved spring-plate *h*³ and sponge *h*⁴ therefor. The sponges *h*² and *h*⁴ may be made of any suitable absorbent material, and the spring-plates *h* and *h*³ may be connected with the wires *g* and *g*² in any suitable manner. The wires *g* and *g*² comprise one of the windings of an induction-coil *j*, the other winding of which consists of a wire *k*, in operative connection with a battery *l* or other source of electric current, and the wire *k* is also provided with a rheotome *m*.

The curved plates *h* and *h*³ are adapted to be placed each upon one wrist of a person using my invention, the sponges *h*² and *h*⁴ having first been wet to make a positive contact, and the brush in connection with the curved plate on the right wrist is grasped in the left hand, while the brush in connection with the curved plate on the left wrist is grasped in the right hand, and when said brushes are applied alternately to the scalp an electrical circuit is completed through the corresponding arms, trunk, and head of the operator, thereby exciting the circulation of the blood through the scalp, causing the hair to grow, and removing all dead tissue from the scalp.

My invention is well adapted for the purpose for which it is intended, and it will be evident that various changes in and modifications of the construction herein shown and described may be made, and with this reservation

What I claim as new, and desire to secure by Letters Patent, is—

1. An apparatus for electrically treating the hair, comprising a plurality of brushes, conductive fingers or teeth mounted in said brush, an electrical conductor in operative connection with the teeth of each of said brushes, a battery, an open circuit in connection therewith, a rheotome in said circuit and an induction-coil one of the windings of which is composed of said first-named electrical conduc-

tors, and the other winding of which consists of the electrical conductor of said open circuit substantially as shown and described.

2. An apparatus of the class described comprising a plurality of brushes, conductive fingers or teeth mounted in said brushes, a plurality of curved spring-plates and sponges secured therein, a wire connecting one of said brushes with one of said spring-plates, a supplemental wire connecting the other of said brushes with the other of said spring-plates, said wires comprising one of the windings of

an induction-coil the other of said windings consisting of an open circuit through a battery and a rheotome in said circuit substantially as shown and described. 15

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 9th day of May, 1903.

HENRY CONRAD DOERSCH.

Witnesses:

MICHAEL KELLER,
GEORGE L. BLUMERS.