

P. E. HERRMANN.
HAIR WAVING APPARATUS.
APPLICATION FILED JUNE 23, 1909.

959,527.

Patented May 31, 1910.

Fig. 1,

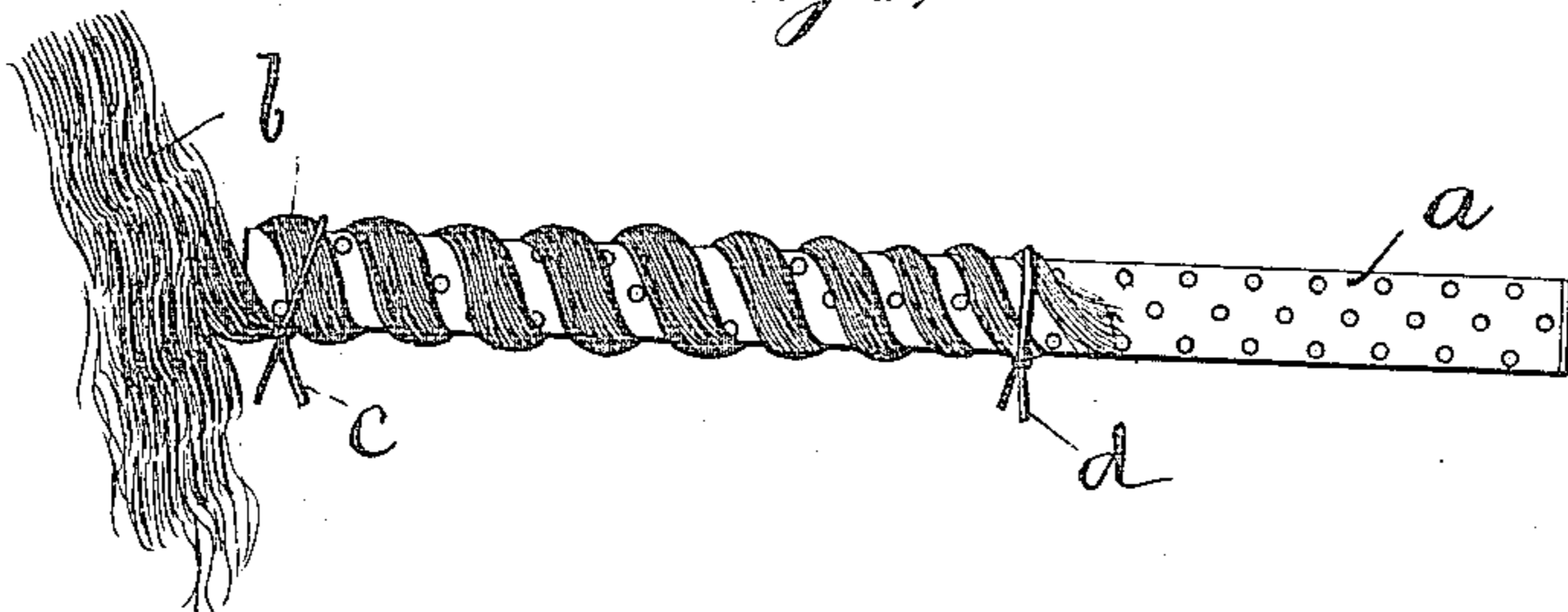


Fig. 2,

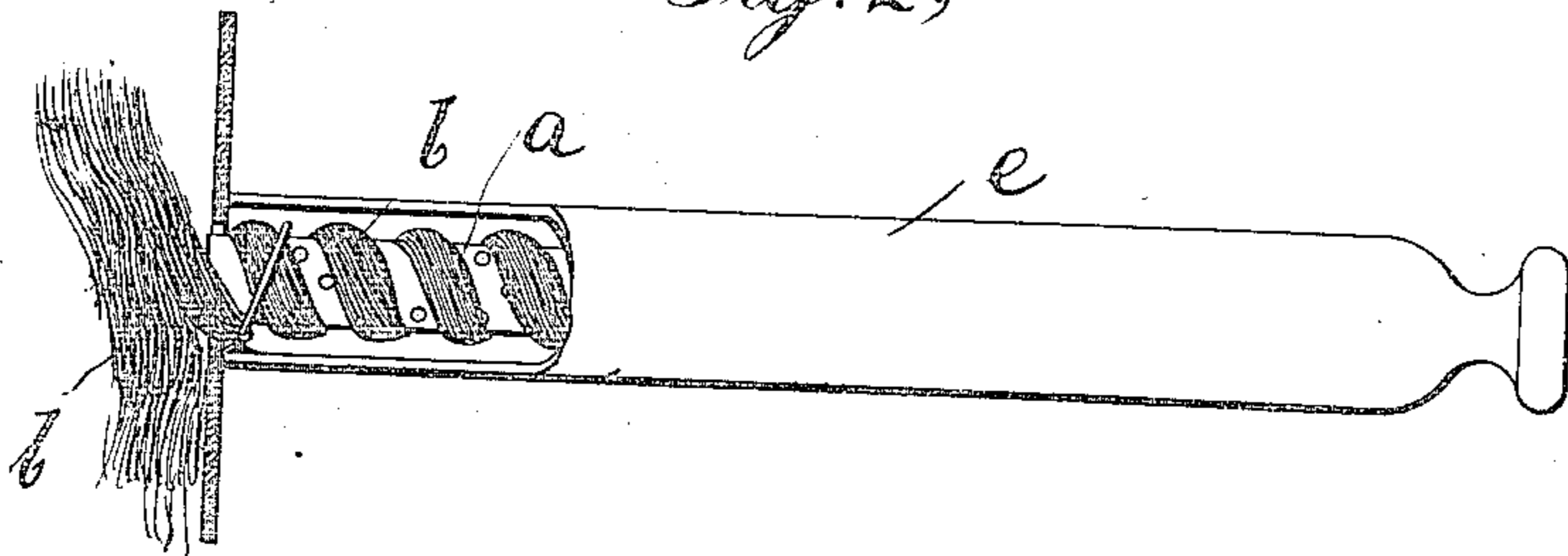
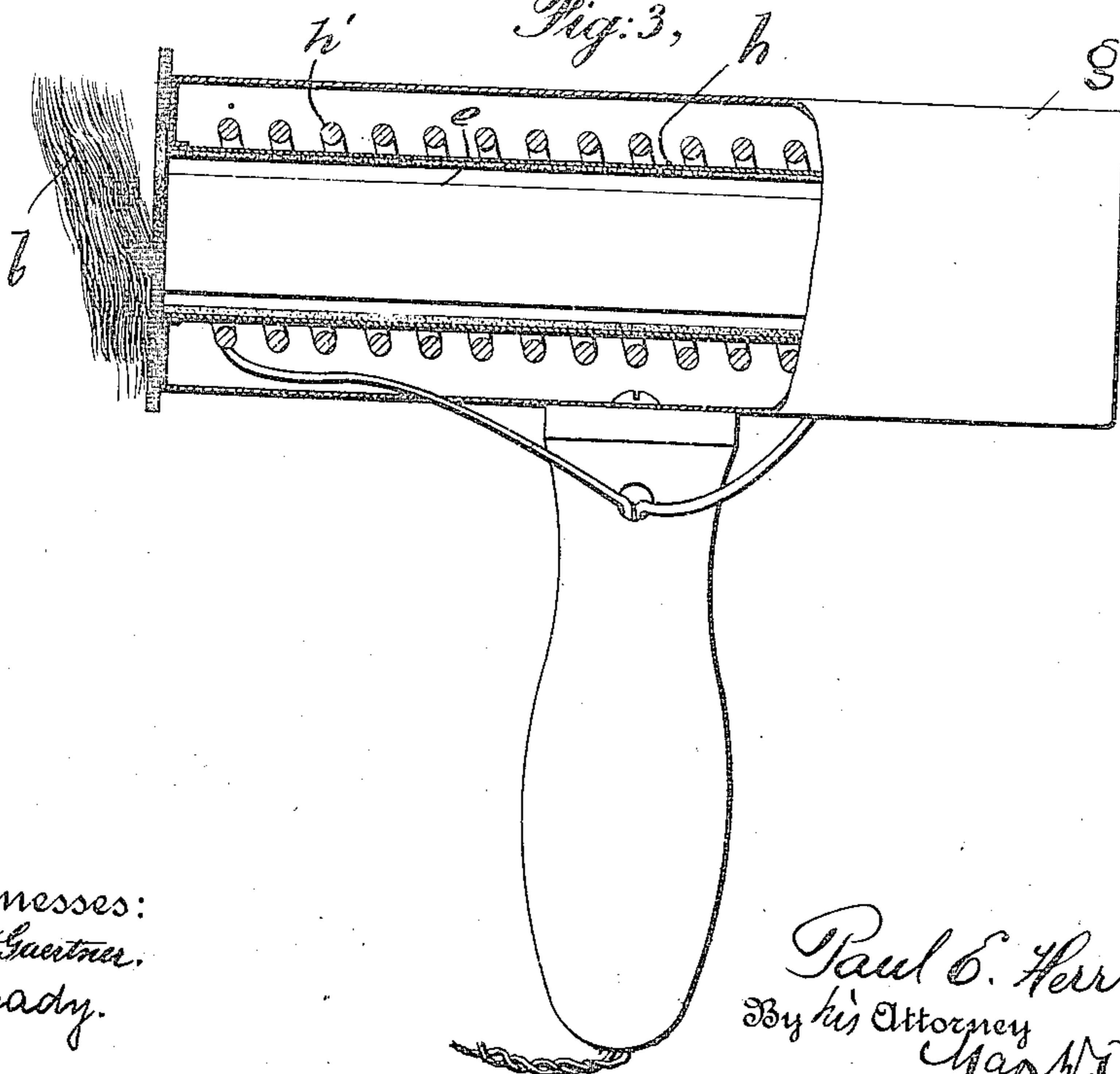


Fig. 3,



Witnesses:
M. Gaertner.
F. Brady.

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By his Attorney
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UNITED STATES PATENT OFFICE.

PAUL E. HERRMANN, OF NEW YORK, N. Y.

HAIR-WAVING APPARATUS.

959,527.

Specification of Letters Patent. Patented May 31, 1910.

Application filed June 23, 1909. Serial No. 503,905.

To all whom it may concern:

Be it known that I, PAUL E. HERRMANN, a subject of the German Emperor, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Hair-Waving Apparatus, of which the following is a specification.

The present invention pertains to a hair waving apparatus and has for its object to provide an apparatus whereby the waves produced will be more durable and practically keep in shape until the hair has grown enough so as to require a new waving. The apparatus consists of the following four parts: A curler, an asbestos tube to cover up the curl, an electric heater or drier and a protector for the head to protect the scalp from the heat and prevent the rest of the hair from being burned.

To make my invention more clear the same is illustrated in the accompanying drawing in which similar reference letters denote corresponding parts and in which— Figure 1 shows the curler in operation, Fig. 2 shows the asbestos tube covering the curl and the protector in position and Fig. 3 shows the electric drier or heater applied over the asbestos tube.

The curler consists of a perforated metal tube *a*. I prefer to use an aluminum tube because of its being a good conductor of heat and its light weight.

b denotes the hair. A tuft of hair is first curled around the tube *a* and is at its ends tied thereto as at *c*, *d*. Thereupon the curl is sprinkled with a solution of sodium bi-borate, borax powder and water. In addi-

tion to this solution it may be advantageous in some cases to use a few drops of acetic acid. When the curl is thus wetted it is put while still wet on the curler into a tube *e* of asbestos or the like material. The whole is then put into the electric drier or heater. This heater consists of a tubular receptacle *g* of porcelain or like insulating material within which is a metal tube *h* preferably of aluminum, the inner surface of which is lined with mica or other insulating material. A wire coil *h'* for the passage of an electric current coming from a suitable electric source is provided around the metal tube *h*. The heat created by the electric current is transmitted through the asbestos tube to the curl, drying the same.

What I claim and desire to secure by Letters Patent is:

1. The herein described device for waving hair, comprising a perforated metal tube constituting a curler, an asbestos tube adapted to fit over the curler with the curl thereon and an electric drier to be applied over the asbestos tube.

2. The herein described device for waving hair, comprising a perforated metal tube constituting a curler, an asbestos tube adapted to fit over the curler with the curl thereon, an electric drier to be applied over the asbestos tube and a heat protector for the head.

In testimony whereof I affix my signature in presence of two witnesses.

PAUL E. HERRMANN.

Witnesses:

ELLIS V. LEVY,
MAX D. ORDMANN.