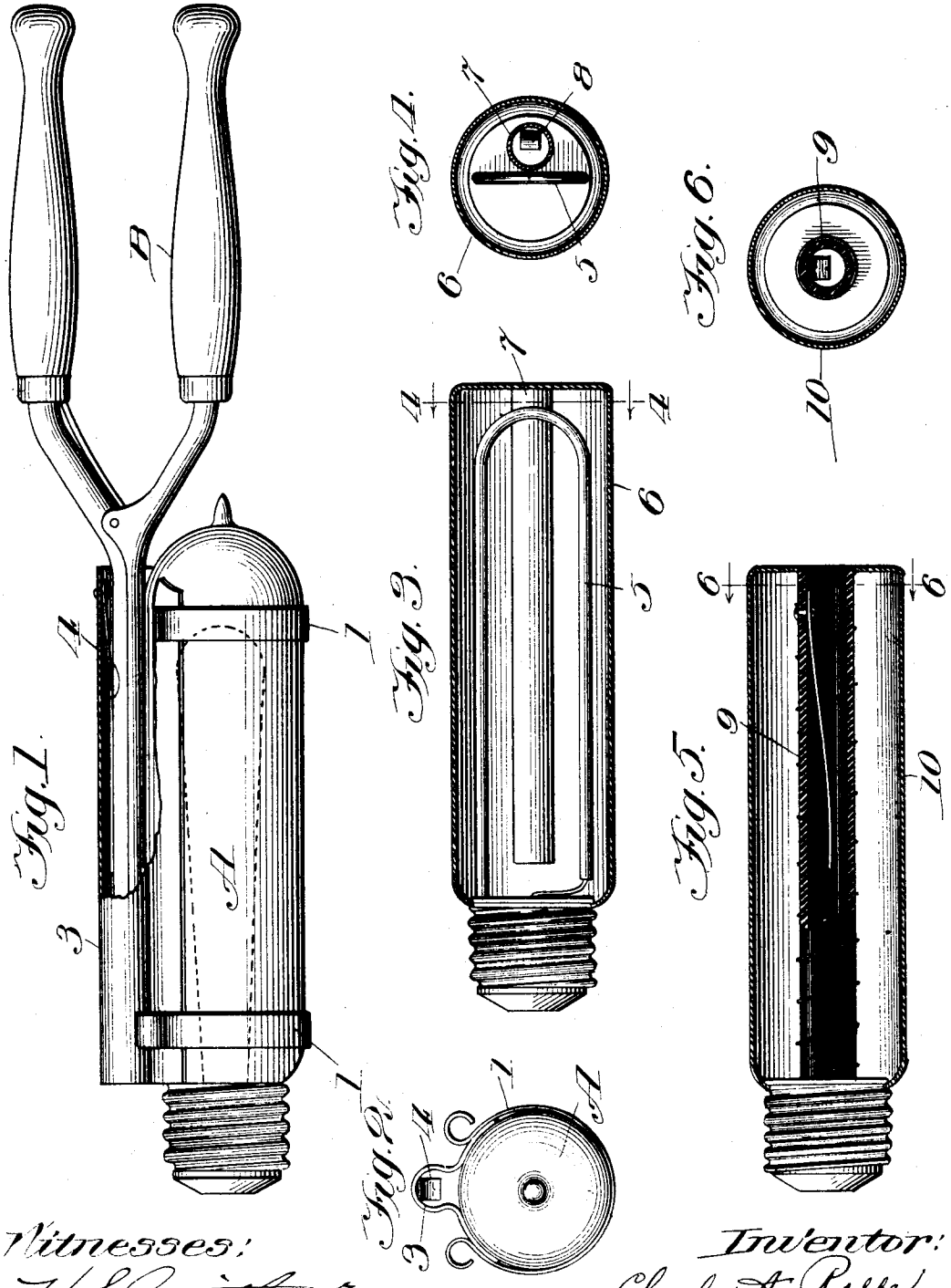
No. 793,158 PATENTED JUNE 27, 1905.

C. A. ROLFE.

ELECTRIC HEATER.

APPLICATION FILED NOV. 14, 1903.

2 SHEETS—SHEET 1.



Witnesses:
H. S. Gaither
J. C. Lee.

Inventor:
Charles A. Rolfe
by A. Miller Reifield
Attorney

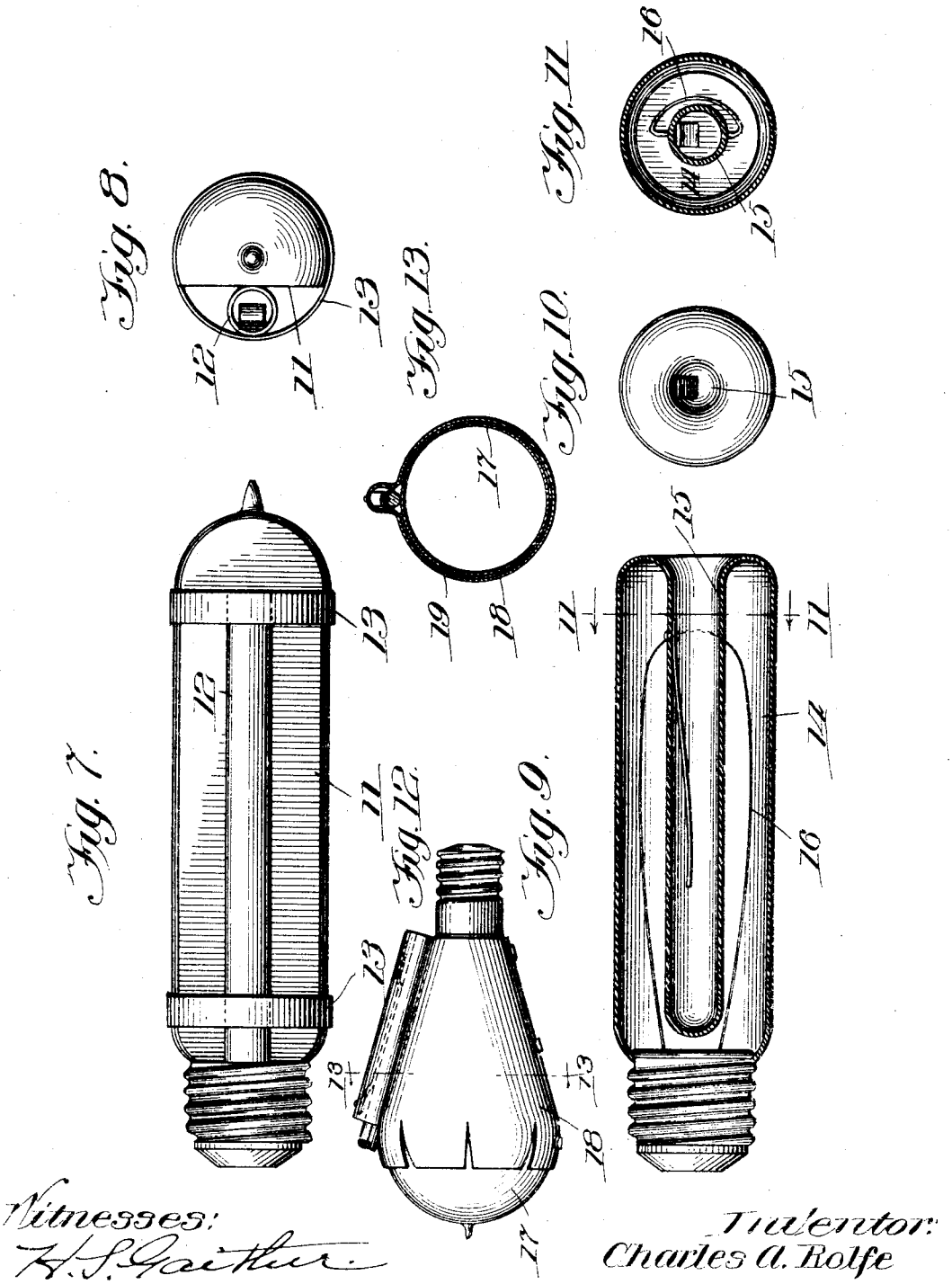
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UNITED STATES PATENT OFFICE.

CHARLES A. ROLFE, OF ADRIAN, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO ROLFE ELECTRIC CO., OF ROCHESTER, NEW YORK, A CORPORATION OF NEW YORK.

ELECTRIC HEATER.

SPECIFICATION forming part of Letters Patent No. 793,158, dated June 27, 1905.

Application filed November 14, 1903. Serial No. 181,172.

To all whom it may concern:

Be it known that I, CHARLES A. ROLFE, a citizen of the United States, residing at Adrian, in the county of Lenawee and State of Michigan, have invented a certain new and useful Improvement in Electric Heaters, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to electrical heating devices for heating articles by electrical energy.

The principal object of the invention is to provide a simple and inexpensive device of this kind and one especially adapted for heating curling-irons.

In the accompanying drawings, Figure 1 is a view of an electrical heater embodying my present invention, together with a curling-iron used in connection therewith. Fig. 2 is a transverse section taken on line 2 2 of Fig. 1 with the curling-iron removed. Figs. 3 and 4 are respectively a longitudinal section and an end view of a modified form of the device. Figs. 5, 6, 7, and 8 are similar views of still different modified forms. Fig. 9 is a longitudinal section, Fig. 10 an end view, and Fig. 11 a transverse section, of still another modified form. Figs. 12 and 13 are respectively a side elevation and a cross-section of another modification.

Referring first to Figs. 1 and 2, A represents an incandescent lamp of usual or ordinary construction, having a substantially cylindrical tubular bulb. Attached to this, as by means of a pair of bands 1 1, is a socket or sheath 3, which is adapted to receive the tongs of a curling-iron. In Fig. 1 such curling-iron B is shown with its tongs inserted in the sheath 3. The sheath 3 is conveniently composed of sheet metal bent into the desired form, as shown in Figs. 1 and 2. It is desirably provided with a leaf-spring 4 for holding the tongs of the curling-iron firmly in position and near the electric-light bulb. It will be seen that by this arrangement the curling-iron can have its tongs inserted in the sheath 3 and the current turned on in the lamp, with the result that the curling-iron will soon be heated to a sufficient heat for use. The sheaths for such an arrangement can be easily applied to the electric-light bulbs either temporarily or permanently. In the former case the lamp could be used as ordinarily until it was desired to heat the curling-iron, when the sheath or socket could be applied. In the latter case the lamp would be used, as a general thing, only for the purpose of heating the curling-iron, and so would be applied to a lamp-socket only when it was desired to heat the curling-iron. In such latter case the socket or sheath 3, with the clips 1 1, would be secured firmly to the lamp, as by cement or white lead or similar adhesive material, and, if desired, the lamp-bulb can be painted or darkened, so as to prevent the giving of light and concentrate heat.

In the modification shown in Figs. 3 and 4 a graphite pencil 5 larger than a lamp filament is inclosed within an insulating tubular sheath 6, the whole being arranged similar to an incandescent lamp. The sheath 6 is provided with a socket or sheath 7, desirably having a spring 8. In this arrangement a greater heating effect is secured because of the greater size of the carbon pencil 5 and also because of the proximity of the sheath 7 to said graphite.

In the arrangement shown in Figs. 5 and 6 an insulating-tube 9 is arranged within an insulating-sheath 10. A fine wire is wound about the tube 9, which latter is arranged to serve as a sheath for the curling-iron tongs.

In the arrangement shown in Figs. 7 and 8 an electric-light bulb is specially constructed with a flat longitudinal face 11, and a sheath or socket 12 is arranged against this flat face, being held in position by clips or bands 13 13. The bulb is understood to contain a carbon filament, as usual.

In the device of Figs. 9, 10, and 11 is shown a specially-constructed electric-light bulb 14, having a centrally-formed socket 15, made of the wall or casing of the bulb, the filament 16 being confined in the annular space of the bulb.

In the arrangement shown in Figs. 12 and 13 the lamp has a pear-shaped bulb 17, and this is inclosed in a substantially continuous metallic sheath 18, which is lined with asbestos 19. The socket 20 for the curling-iron is desirably made out of the metal forming the sheath 18, the lining of asbestos being terminated at the sides of the sheath, so as to allow the curling-iron to come into contact with the glass, and thereby receive the greatest amount of heat possible.

From the foregoing it will be seen that the device in any one of its forms provides a simple and practical means for heating a curling-iron and one which can be readily made available for service. Any one of the devices can be easily inserted into an electric-light socket and then the current turned on, so that the curler is quickly heated. The foregoing are illustrative of various types of my invention, although it will be understood that other forms may be devised without departing from the spirit of the invention.

What I claim is—

1. An electric heater comprising an electric incandescent lamp, and a device for holding the article to be heated, said device secured to and supported by the lamp so as to cause the article to be heated by the lamp filament, substantially as described.

2. An electric heater, comprising an incandescent lamp, and a holder for an article to be heated, said holder being secured to and supported by the lamp, whereby an article contained thereby will be heated by the lamp filament, substantially as described.

3. An electric heater comprising a holder for an article to be heated, and securing means therefor consisting of means for encircling an incandescent-lamp bulb and securing the holder thereto.

4. An electric heater comprising a holder for an article to be heated and a sheath adapted to inclose an incandescent electric-lamp bulb and secure the holder thereto.

5. The combination with an electric incandescent lamp, of a heating device comprising a holder for the article to be heated, and means for encircling the lamp-bulb and tying the holder thereto.

6. A device of the class specified, comprising a casing or envelop, adapted for application to an electric-light globe, and provided with means for holding an article to be heated, substantially as described.

7. A device of the class specified, comprising a casing or envelop adapted for application to an incandescent-lamp bulb, and provided with a socket for an article to be heated, substantially as described.

8. The combination with an electric-light globe, of a casing or envelop adapted to fit about the same and provided with means for holding an article to be heated, substantially as described.

In witness whereof I hereunto subscribe my name this 31st day of October, A. D. 1903.

CHARLES A. ROLFE.

Witnesses:
A. MILLER BELFIELD,
I. C. LEE.