

No. 847,794.

PATENTED MAR. 19, 1907.

C. N. LORD.
ELECTRICAL APPARATUS.
APPLICATION FILED MAR. 7, 1906.

Fig. 1.

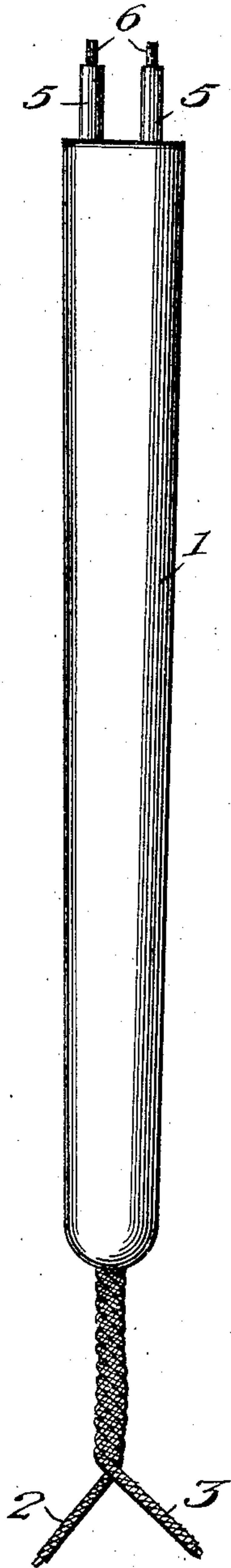
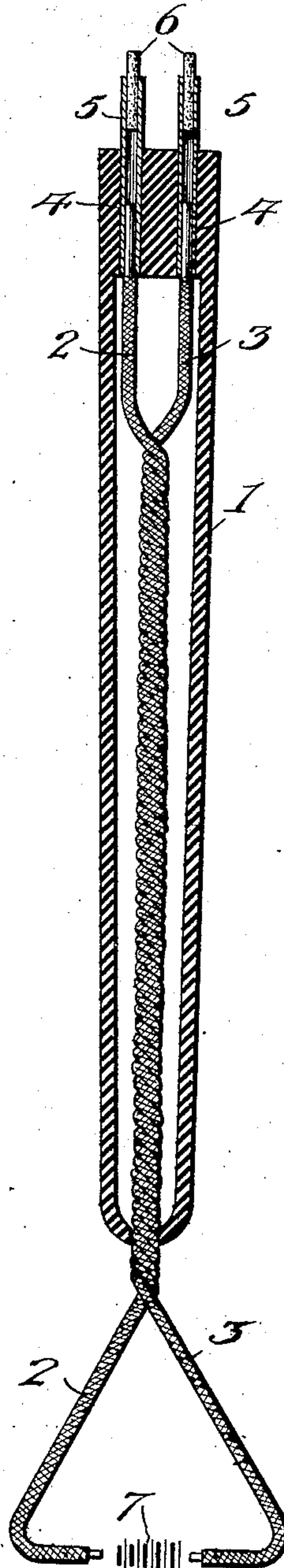


Fig. 2.



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ELECTRICAL APPARATUS.

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Application filed March 7, 1906. Serial No. 304,764.

To all whom it may concern:

Be it known that I, CHARLES N. LORD, a citizen of the United States, residing at Santa Fe, in the county of Santa Fe and Territory of New Mexico, have invented new and useful Improvements in Electrical Apparatus, of which the following is a specification.

This invention relates to electrical heaters, the object of the invention being to provide a small hand implement adapted for heating dental instruments and the like, the device being especially designed for use in office and laboratory work for enabling a dentist to quickly heat the dental instruments used in his work.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a plan view of an electrical heating device embodying the present invention. Fig. 2 is a longitudinal section through the same.

Referring to the drawings, 1 designates a handle or handpiece which is preferably composed of insulating material, such as hard rubber, and made hollow throughout the major portion of its length to receive a plurality of conductors, two of such conductors being shown at 2 and 3, respectively, passing through and beyond one end of the handle and terminating and being secured in the other end of the handle.

At one end the handle is closed, with the exception of parallel passages 4, in each of which is arranged a terminal-holding socket 5, consisting of a metal tube. These tubes are held fast and permanently in the solid end of the handle, and the extremities of the conductors 2 and 3 are stripped of their insulation and inserted into the inner ends of the sockets and electrically connected therewith, as shown in Fig. 2.

In the outer ends of the sockets 5 are inserted conductor-terminals 6, composed of carbon or graphite or similar material. The conductors 2 and 3 are shown as twisted together within the handle 1, and the outer

ends thereof may be connected to any suitable source of electrical supply (indicated at 7) either in the form of dry cell-batteries or any electric-light circuit or any source of supply involving an electrical current.

To heat a dental implement or the like, the carbon terminals are placed in contact with such implement, thereby closing and completing the electrical circuit, which thus passes through and heats the implement to the desired temperature, depending upon the length of time the circuit is allowed to pass through the implement.

The terminal-holding sockets 5 consist of metal tubes of any suitable length, the same being insulated from each other by reason of the fact that they pass through and are embedded in the insulating material of which the handle 1 is composed.

I claim—

1. The combination with a source of electrical supply, of an insulating-handle provided with sockets insulated from each other, conductors leading from the source of supply to said sockets, and terminals of graphite or like material inserted in said sockets.

2. The combination with a source of electrical supply, of one or more dry-battery cells, lead-wires extending therefrom through the handle, metallic sockets in which said lead-wires terminate, and carbon or like elements inserted in said metallic sockets and projecting beyond the handle.

3. The combination with a source of electrical supply, of conductors leading therefrom, an insulating-handle in which said conductors are received, metal tubes projecting from the end of the handle and having the conductors electrically associated therewith, and carbon or like elements inserted in said metal tubes and having their extremities projecting therefrom, substantially as described.

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

CHARLES N. LORD.

Witnesses:

MYRON A. FISKE,
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