

(No Model.)

A. ROCKOFF.
HANDPIECE FOR PORTABLE ELECTRIC LAMPS.

No. 525,564.

Patented Sept. 4, 1894.

Fig. 1.

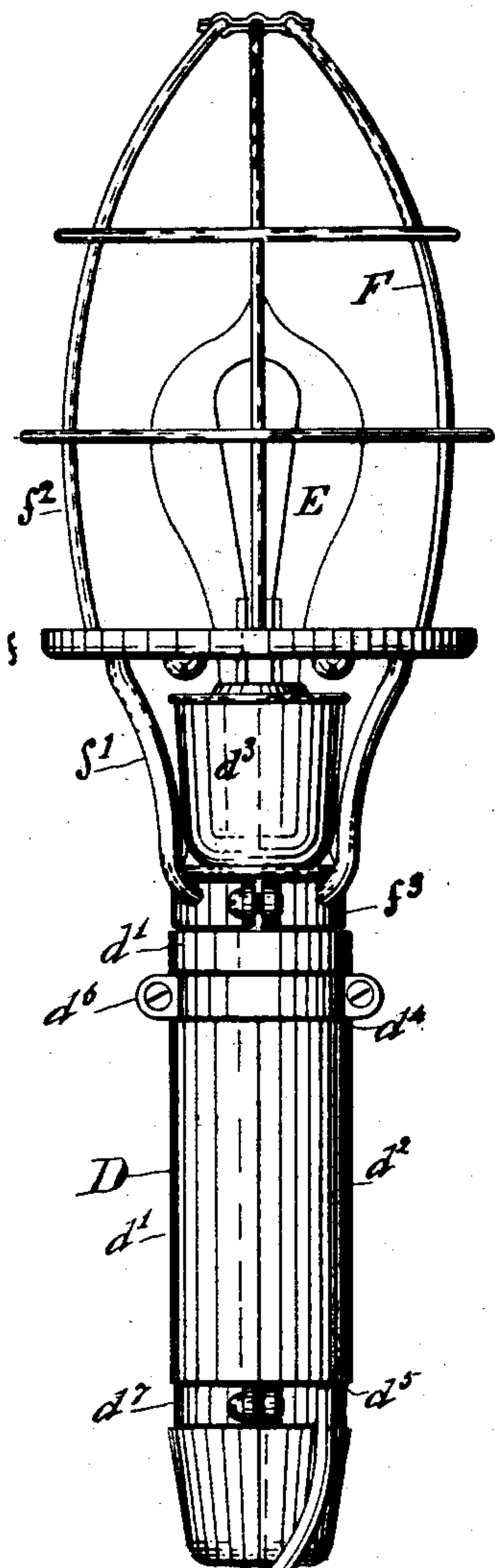


Fig. 2.

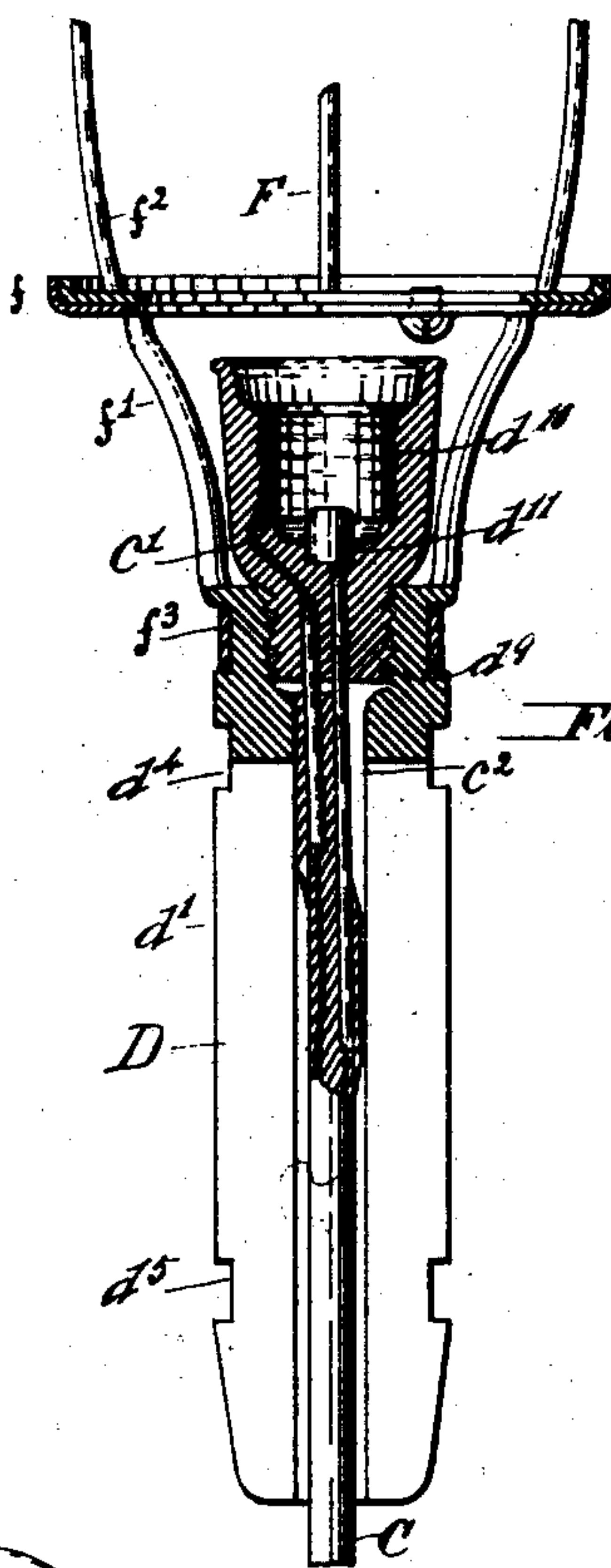


Fig. 4.

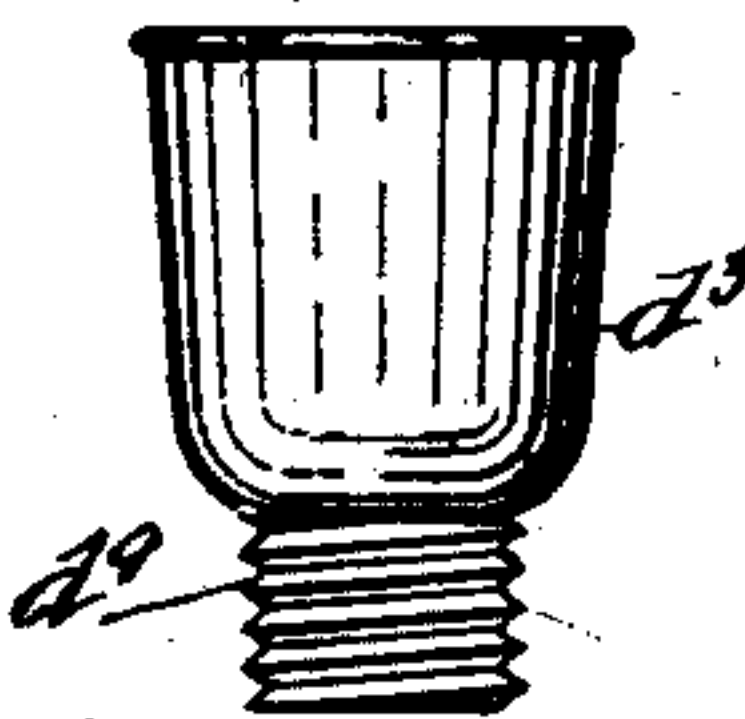
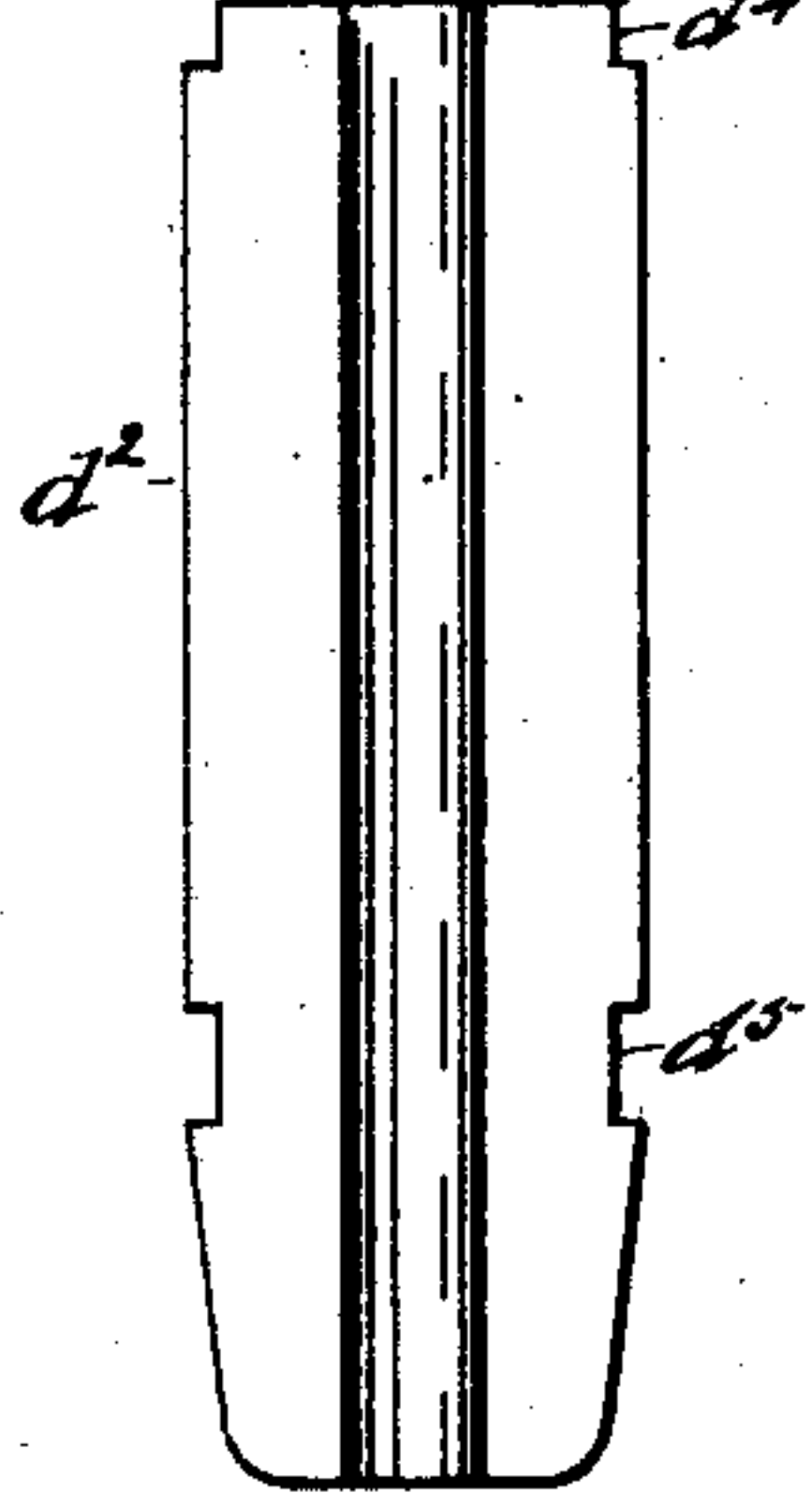


Fig. 3.



WITNESSES:

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HANDPIECE FOR PORTABLE ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 525,564, dated September 4, 1894.

Application filed May 10, 1894. Serial No. 510,824. (No model.)

To all whom it may concern:

Be it known that I, AUGUST ROCKOFF, of New York, in the county and State of New York, have invented a certain new and useful Improvement in Handpieces for Portable Electric Lamps, of which the following is a specification.

My improvement is particularly useful for a portable electric lamp.

I will describe a hand piece embodying my invention and then point out the novel features in the claims.

In the accompanying drawings, Figure 1 is a side view of an electric lamp embodying my improvement. Fig. 2 is a partial section and partial face view of parts of a hand-piece and appurtenances. Fig. 3 is a face view of another part or section of the hand-piece. Fig. 4 is a side view of another part or section of the hand-piece.

Similar letters of reference designate corresponding parts.

A designates a cut-out used in connection with my improvement.

B designates a connecting piece to fit the cut-out A.

C designates a cable, of any suitable construction which is intended to be sufficiently flexible to be capable of being moved in various directions, having its end connected with the hand-piece D. The hand-piece D comprises three sections d' , d^2 , d^3 , which are all intended to be made of some suitable insulating material. The section d' has a circular portion at one end, but throughout the greater part of its length is semi-circular. The section d^2 is the counterpart of the semi-circular portion of the section d' . These sections, d' d^2 , have external grooves d^4 , d^5 . In these grooves fit collars d^6 , d^7 , which may advantageously be made in two parts united at their extremities by means of screws serving to clamp them together; the function of the collars being to secure the two sections d' , d^2 , of the hand-piece together. The collar d^7 is shown as being provided with a hook d^8 , constituting a means for suspending the hand-piece. The section d^3 is made in the form of a socket for an incandescent electric lamp and is provided with an externally screw-threaded boss or hub d^9 , which is capable of engaging with the circular end portion of the

section d' of the hand-piece, a screw-thread being provided within the same to render this engagement possible.

The section d^3 of the hand-piece may be constructed to serve as a socket for any desired incandescent electric lamp E. In the present instance it is provided internally with a screw-threaded metal ring d^{10} and with a central metal button d^{11} located at the bottom. c' c^2 are wires which are respectively extended from the ring d^{10} and the button d^{11} and are insulated from each other. They pass through the bottom of the section d^3 and into the space between the sections d' , d^2 of the hand-piece. Within this space they are united to the wires comprised in the cable C. The ends of the cable wires and the ends of the wires c' , c^2 , are bared and then are spliced or twisted together and soldered. Afterward they are covered with insulating material, preferably in the form of a tape winding. This work may best be done before the section d^2 is fitted to the section d' of the hand-piece. Waterproof and insulating cement is then introduced into the hand-piece. A convenient way of introducing it is to hold or support the hand-piece D with its section d^3 downward and its section d^2 held slightly separate from the section d' by an interposed piece of metal or otherwise, and then to pour the cement into the upper end. Afterward, the interposed piece of metal will be removed and the section d^2 will be forced toward the section d' and the clamping rings or collars d^6 , d^7 are applied. After the lamp E is inserted in the socket of the section d^3 the mouth of the socket is sealed with cement.

F designates a cage surrounding the electric lamp E. It will preferably be made in two sections f' , f^2 , united by a ring connection f . Each section may be made of longitudinal wires and either may have cross wires. I have only shown the outer section f^2 as provided with cross wires. The inner section f' has a collar f^3 which is made of sections united by screws and fitted to a groove formed externally in the circular end portion of the section d' of the hand-piece.

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

1. A hand-piece for a portable electric lamp comprising three sections, two of which are

semi-cylindrical, and are united together and provided with a socket at one end and the third of which constitutes a socket for an electric lamp and engages with the socket of the first mentioned two sections, substantially as specified.

2. A hand-piece for a portable electric lamp comprising three sections, two of which are semi-cylindrical and are united together and provided with a socket at one end and the third of which constitutes a socket for an electric lamp and engages with the socket of the first mentioned two sections, and cement for protecting the wires within the hand-piece and protecting the joints of the hand-piece, substantially as specified.

3. A hand-piece for a portable electric lamp comprising a section d' having a semi-cylindrical portion and a cylindrical end portion constituting a socket, a semi-cylindrical sec-

tion d^2 and a section d^3 constituting a socket for an electric lamp and engaging with the cylindrical portion of the section d' , substantially as specified.

4. A hand-piece for a portable electric lamp, comprising three sections, two of which are semi-cylindrical and provided with a socket at one end, collars embracing these sections and securing them together, and a third section made in the form of an electric lamp socket and engaging with the socket aforesaid, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AUGUST ROCKOFF.

Witnesses:

ANTHONY GREF,
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