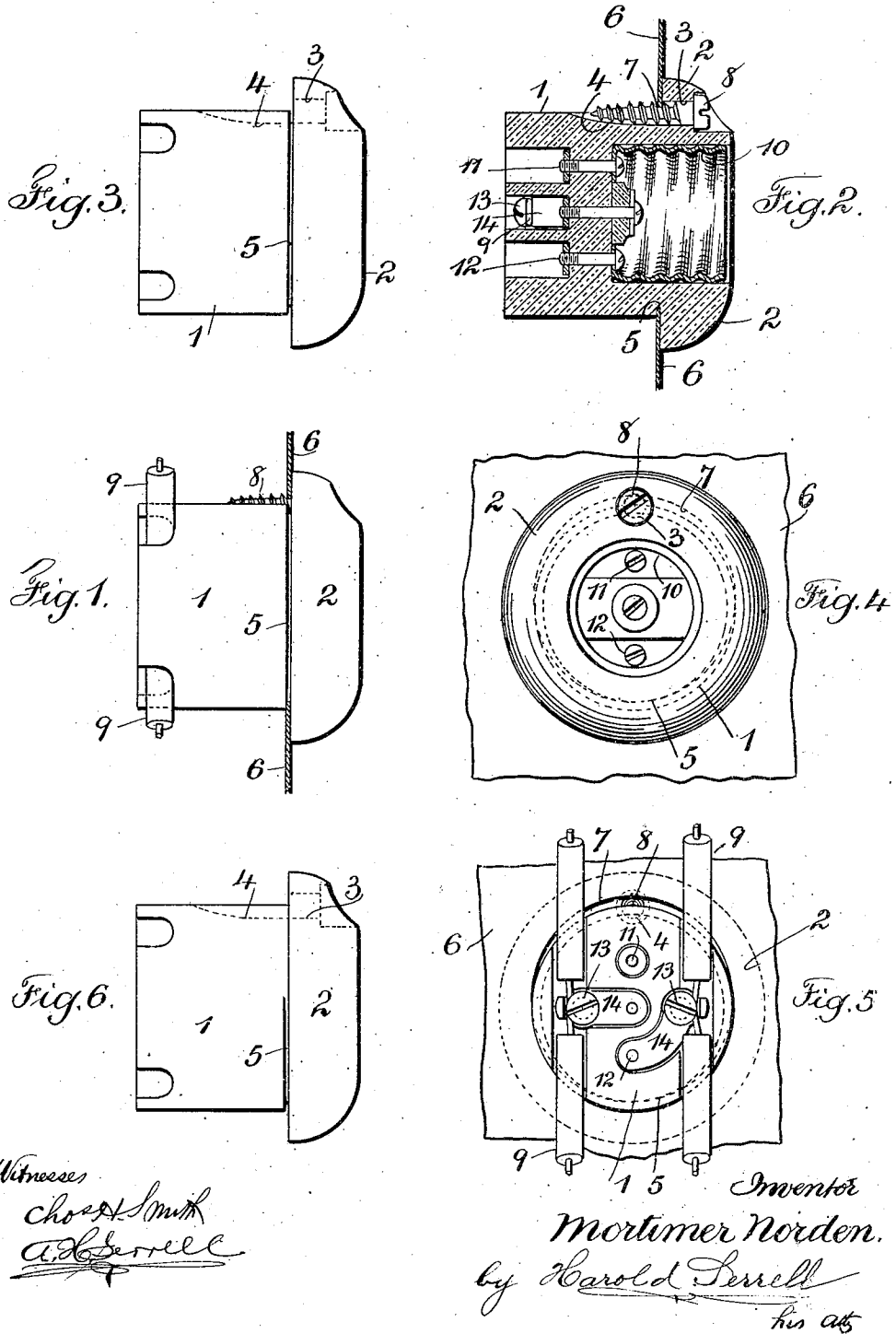


M. NORDEN.
ELECTRIC LAMP SOCKET.
APPLICATION FILED MAY 17, 1911.

1,014,169.

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UNITED STATES PATENT OFFICE.

MORTIMER NORDEN, OF NEW YORK, N. Y.

ELECTRIC-LAMP SOCKET.

1,014,169.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed May 17, 1911. Serial No. 627,846.

To all whom it may concern:

Be it known that I, MORTIMER NORDEN, a citizen of the United States, residing at the borough of Manhattan, in the city, county, and State of New York, have invented an Improvement in Electric-Lamp Sockets, of which the following is a specification.

My invention relates to sockets or receptacles for lamps so constructed as to facilitate their attachment to and support upon illuminated signs which are electrically lighted and employed for display for advertising or other similar purpose, and particularly to that class of signs wherein a sheet metal plate with series of openings therein agreeing with the number and positions of the incandescent lamps has been employed. In such signs it has been customary to employ a shallow box or boxes upon the base or bases of which the lamp sockets or receptacles are secured and wired to conductors passing out through the bases.

The object of my present invention is to provide the sockets or receptacles with means for connecting them to the front plate or plates of such box or boxes within the openings therein, or to a single sheet metal supporting base common to all the lamps.

In the accompanying drawing: Figure 1 shows in elevation a lamp receptacle attached to a plate according to my invention. Fig. 2 is a longitudinal section of the same, and centrally thereof. Fig. 3 is an elevation of the lamp receptacle removed from the plate. Fig. 4 is a front view and Fig. 5 is a rear view of the receptacle shown in Fig. 1, and Fig. 6 is an elevation of the lamp receptacle removed from the plate, showing a modification in the annular groove.

Similar reference numerals refer to like parts throughout the several views.

1 indicates a lamp receptacle of suitable insulating material, which may be of any desired shape. I have shown a one piece socket or receptacle. This receptacle is provided at one end with a head or flange 2 through which extends a hole 3 longitudinally made. This hole is bored so as to intersect the outer surface of the body portion of the receptacle which is provided with a U-shaped groove 4 in alignment with said hole 3. The body of the receptacle 1 at its intersection with the head is provided with an annular or circumferential groove 5 immediately below the under surface of the head or flange 2.

6 indicates part of a front plate of an electrically illuminated sign, having an opening 7 through it of a size and shape to receive snugly the body portion of the receptacle 1. When the body portion of the receptacle 1 is passed through the opening 7 in the plate 6, its head or flange 2 comes in contact with and rests upon the outer surface of the plate 6 surrounding the opening 7 therein. That side of the receptacle 1 opposite the hole 3 and the groove 4 is then to be pressed slightly against the edge of the opening in the plate 6 when said plate will enter the annular groove 5 in the body of the receptacle 1 at that side and the body portion will occupy an eccentric relation to the opening in the plate. The said groove 5 is to be of a width to snugly receive the inner edge of said plate 6, and of a depth to allow said plate to enter only a predetermined distance, or so that the opposite side of the edge of the opening 7 in said plate uncovers the hole 3 at the under surface of the head or flange 2, leaving the interior edge of the plate 6 at this point registering with the outer edge of the hole 3 or nearly so. A screw 8 is then inserted through the hole 3 in the head or flange 2 and as it is rotated to the right it passes within the edge of the opening and exerts the ordinary screw action against the edge of the plate 6 at the opening and comes within the U-shaped groove 4 in the receptacle and when screwed fully down, binds the under surface of the head or flange 2 tightly and evenly upon the plate 6 and secures the opposite interior edge of the plate against movement within the groove 5 in the receptacle 1, thus positively locking the receptacle to the plate.

While it is preferable to form the groove 5 all the way around the body of the receptacle 1 immediately beneath the under surface of the head or flange 2 and registering therewith for convenience in manufacture, as in that case the hole 3 may be bored at any point around the head or flange, it will be readily understood that if desired, the said groove 5 may be made only at one side of the receptacle 1 immediately at the intersection with the head or flange 2, and the hole 3 bored through the head or flange at the opposite side of the receptacle, as shown in Fig. 6. By unscrewing and removing the screw 8, it will be seen that the receptacle may be readily drawn out of the opening 7 in the plate 6 for inspection or

repairs when desired or necessary, there being sufficient slack in the conductor wires 9 to permit of the receptacle being drawn out far enough for such purpose without disturbing the plate, the other receptacles in the plate, or the wiring.

It will be readily seen that by my invention the receptacles may be locked in the sign plate or removed therefrom by the simple manipulation of a single screw.

10 10 represents the ordinary threaded shell connected to the receptacle mechanically by the screw 11 and both mechanically and electrically by the screw 12.

15 13 13 indicate terminal screws upon the clips 14 14 to which the conductor wires 9 are connected in the ordinary manner.

I claim as my invention:

1. A receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, the body portion being formed with a single longitudinal groove and a single transverse groove, a single screw hole in said head alining with the single longitudinal groove in the body portion and the same thus adapted for connection by a screw with a support.

2. A receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, the body portion having a single longitudinal groove and a single circumferential groove at its intersection with the head, a single hole in said head alining with the single longitudinal groove in the body portion and the same thus adapted for connection by a screw with a support.

3. In an electrically illuminated sign, and in combination, a receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, the body portion being formed with a single longitudinal groove and a single transverse groove, a single screw hole in said head alining with the single longitudinal groove in the body portion, a plate having an opening therein adapted to receive the body portion of said receptacle and enter said transverse groove, and a screw to enter said hole in the head of the receptacle and lock said receptacle to said plate.

4. In an electrically illuminated sign and in combination, a receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, the body portion having a single longitudinal groove and a single circumferential groove at its intersection with the head, a single hole in said head alining with the single longitudinal groove in the body portion, a plate having an opening therein adapted to receive the body portion of said receptacle and enter said circumferential groove, and a screw to enter said hole in the head of the receptacle and lock said receptacle to said plate.

5. In an electrically illuminated sign and in combination, a receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, the body portion being formed with a single longitudinal groove, and the head with a hole in alinement therewith, there being a transverse groove in the body portion on its side opposite to said longitudinal groove, a plate having an opening therein adapted to receive the body portion of said receptacle and enter said transverse groove whereby said body portion will occupy an eccentric relation to the opening in the plate, and a screw to enter said hole in the head of the receptacle and act against the edge of the opening in said plate and within said longitudinal groove to lock said receptacle to said plate.

6. A receptacle for an incandescent electric lamp comprising a body portion and head of increased diameter, a support plate having an opening therein appreciably larger than the body portion and with which the body portion is to occupy an eccentric relation and means connected to the head and body portion and adapted to pass through the opening in the plate in said eccentric relation and bear against the edge of said plate with holding force.

Signed by me this 16th day of March 1911.

MORTIMER NORDEN.

Witnesses:

GEO. T. PINCKNEY,
E. ZACHARIASEN.