

H. CHRISTENSEN.
ELECTRIC LAMP SOCKET FASTENING.
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938,212.

Patented Oct. 26, 1909.

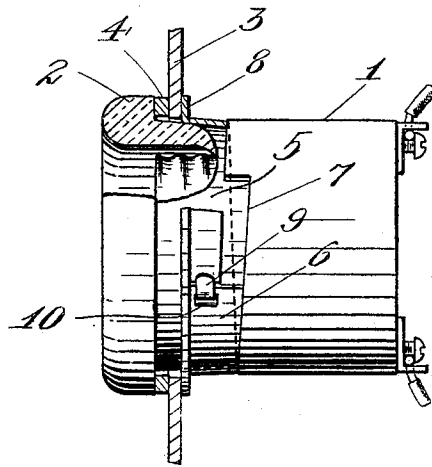


Fig. 1

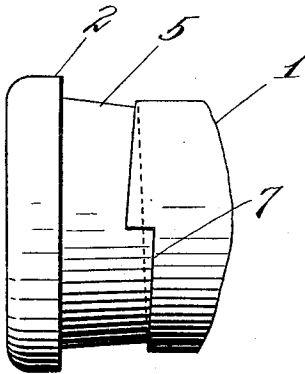


Fig. 2

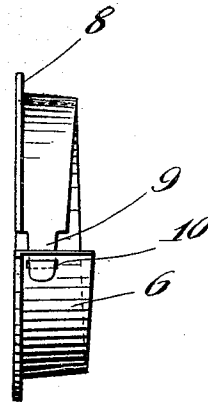


Fig. 3

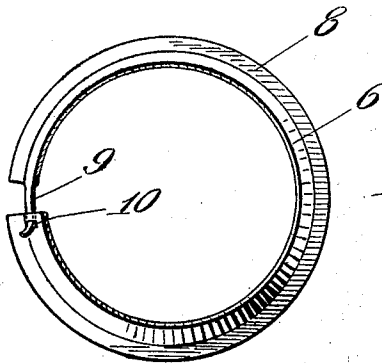


Fig. 4

Witnesses

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ELECTRIC-LAMP-SOCKET FASTENING.

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To all whom it may concern:

Be it known that I, HJALMAR CHRISTENSEN, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Electric-Lamp-Socket Fastenings, of which the following is a specification.

My invention relates to devices of the above type and has for one of its objects the provision of an improved construction, through the medium of which lamp sockets can be firmly and securely held in position.

A further object resides in the provision of a fastener which, as rotated to secure the lamp socket in position, takes a firm hold on the lamp socket, so as to be held against accidental backward turning upon jarring of the sign board or other support for the lamp socket.

With the above and other objects in view, to be referred to, as my description progresses, my invention resides in the structural features, arrangements and combinations of parts hereinafter described and succinctly defined in my annexed claims.

Referring now to the accompanying drawing wherein I have illustrated a preferred embodiment of my invention: Figure 1 is a side view partly in section, of a lamp socket secured in position. Fig. 2 is a fragmentary view in side elevation of the lamp socket removed. Fig. 3 is a view in side elevation of the securing ring, and Fig. 4 is a rear end view thereof.

In carrying out my invention I provide a lamp socket, 1, with an external shoulder 2 which, in the present application of my invention is adapted to be disposed at the forward side of the sign board 3, through a suitable opening in which the socket projects, as clearly shown in Fig. 1. Shoulder 2 can obviously be formed in any desired manner to prevent the socket slipping rearwardly through the opening in the sign board and as found desirable an elastic ring, as 4, or other filler member having elastic properties, can be arranged between it and the adjacent face of the sign board 3. Rearwardly of shoulder 2, socket member 1 has an external rearwardly tapering portion 5, which is substantially frusto-conical in form, on which a clamping member 6 of ring form is adapted to be rotatably supported. This tapered portion 5 extends rear-

wardly to a shoulder 7 which by its angular disposition provides a cam surface adapted to be engaged by the clamping member 6, and upon rotation of the latter compel the same to advance and bear against the rear face of the sign board.

The internal face of clamping member 6 is tapered in conformity with the tapered portion 5 of the socket member 1, and consequently member 6 in traveling forwardly thereon in moving to a clamping position, as just described, will bind thereon for its entire length and be thereby frictionally held against accidental backward turning.

In order to obtain a comparatively great adjustment of clamping member 6, shoulder 7 is extended in a spiral path for one complete turn. The length of shoulder 7 can, however, be decreased or increased without departing from the spirit of my invention. Clamping member 6, as now considered, has its rear edge shaped to conform to the curvature of shoulder 7 and is preferably split so that it can be expanded and slipped onto and off of the socket over the rear end portion thereof. At its forward edge member 6 is provided with an outwardly projecting flange 8, which provides a broad engaging or clamping portion arranged to coact with shoulder 2, to obtain a firm grip on the sign board.

To prevent expansion of member 6, a tongue 9 is provided on one free edge portion thereof and this in operation is passed through a slot 10, formed in the other end portion of said member, then bent back as illustrated in Fig. 1.

Various changes may be made in the details of construction, without departing from the spirit of my invention as defined in my annexed claims.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

1. An annular clamping member for electric lamp sockets, the interior of which is substantially frusto-conical in form, one side edge of said clamping member being formed into a cam surface.

2. An electric lamp socket formed with external shoulders spaced for their entire lengths, and a clamping ring engaged with one of said shoulders and being free to be rotated on the socket, and means for effecting a lengthwise shifting of said ring during rotation thereof, the shoulder engaged

by said ring being arranged entirely to the rear thereof.

3. An electric lamp socket formed with spaced external shoulders, and a clamping member seated on said lamp socket between the shoulders thereof and being free from the surface of said socket for endwise sliding thereon between said shoulders thereof, said clamping member having a cam portion engaged with one of the shoulders of said socket for effecting lengthwise sliding of the clamping member during rotary movement thereof.

4. In combination with a sign board formed with an opening, an electric lamp socket projecting through the opening of

said sign board and provided with spaced shoulders, one of which bears against one face of said sign board and the other being spaced from the other face of said sign board and provided with a cam face extending in a spiral path, and a clamping ring seated directly on said socket entirely between said last named shoulder and the adjacent face of said sign board.

Signed at Seattle, Washington this 27th day of November 1908.

HJALMAR CHRISTENSEN.

Witnesses:

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