

S. B. SMITH.
WATER TIGHT LAMP SOCKET.
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1,224,030.

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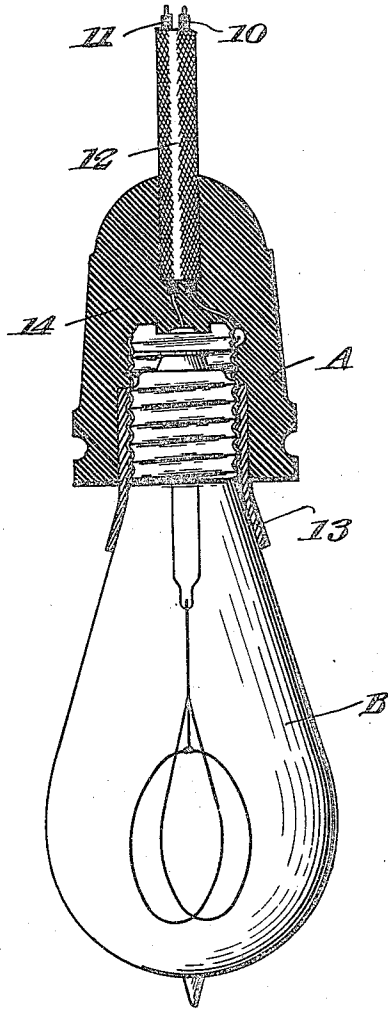


Fig. 2.

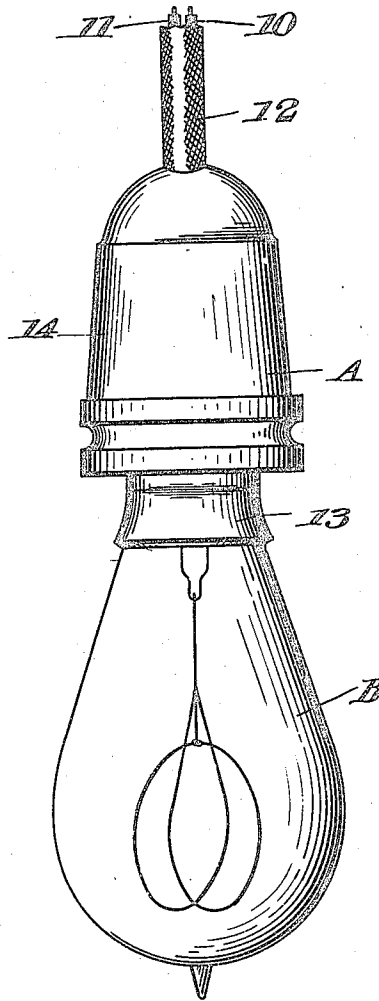


Fig. 1.

WITNESSES

Wm. A. [Signature]

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UNITED STATES PATENT OFFICE.

STANLEY BAXTER SMITH, OF ST. JOHN, NEW BRUNSWICK, CANADA, ASSIGNOR OF
ONE-HALF TO LOUIS S. BENJAMIN, OF ST. JOHN, CANADA.

WATER-TIGHT LAMP-SOCKET.

1,224,030.

Specification of Letters Patent. Patented Apr. 24, 1917.

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To all whom it may concern:

Be it known that I, STANLEY BAXTER SMITH, a subject of the King of Great Britain, and resident of St. John, in the Province of New Brunswick, Dominion of Canada, have invented certain new and useful Improvements in Water-Tight Lamp-Sockets, of which the following is the specification.

This invention relates to improvements in sockets, particularly adapted for use with electric lamps. When lamps mounted in ordinary sockets are used in wet places frequent blowing-out of the fuses is liable to take place and shocking is extremely common, and the principal object of this invention is to obviate these objections and render the lamps capable of being successfully used when exposed to a damp influence or even totally submerged in water. Further objects are to simplify the construction and generally to adapt the socket to better perform the functions required of it. The invention consists essentially of the improved construction particularly described and set forth in the following specification and accompanying drawing forming part of the same.

In the drawing,

Figure 1 is a side elevation of the improved socket with a lamp mounted thereon.

Fig. 2 is a sectional elevation of the same.

Like characters of reference refer to like parts in the several drawings.

Referring to the drawing, A represents a threaded socket, to the terminals of which the insulated wires 10 and 11 are soldered or otherwise attached, the said wires being covered by rubber 12 suitably strengthened and incased in canvas or the like.

To prevent any leakage of moisture between the socket A and the lamp B, a rubber sleeve 13 is snugly fitted to the outer periphery of the former and projects below the lower end thereof to closely fit the lamp, the said socket, the ends of the rubber covered wires 10 and 11 adjacent to the socket and the sleeve 13 being then capped or incased in ebonite 14 which is preferably molded therearound.

It will be clear that a lamp mounted in a socket of this type can be used with impunity in wet places without the liability of short circuiting, etc., due to moisture.

It may further be pointed out that this ebonite capping possesses many advantages over the ordinary brass casing in that when the lamp is used in a gaseous atmosphere such as in mines, etc., the ebonite capping does not suffer in consequence, while the ordinary brass casing is liable to corrode, rendering the lamp and socket short lived.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention, within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and drawings shall be interpreted as illustrative and not in a limiting sense.

What I claim as my invention is:

1. A lamp socket having a resilient water tight sleeve attached to and forming a part of the socket adapted to closely fit the base end of a lamp.

2. A device of the class described comprising a socket including a threaded terminal, a lamp including a base making threaded engagement with the terminal, a pair of insulated wires one of which is connected to the threaded terminal and the other to the center terminal of the socket, a resilient sleeve attached to and forming a part of the socket surrounding the joint of the terminal and the lamp base and engaging the exterior of the terminal and the body of the lamp, sealing the joint and rendering the same water-tight, a rubber casing surrounding the wires and an ebonite capping surrounding the sleeve, the socket and the lower ends of the said wires, as and for the purpose specified.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

STANLEY BAXTER SMITH.

Witnesses:

A. E. PRINCE,
STEPHEN W. PALMER.