J. E. TRIMBLE.

ELECTRICALLY ILLUMINATED SHOE.

APPLICATION FILED MAY 20, 1914.

1,184,396. Patented May 23, 1916.

Fig. 1.

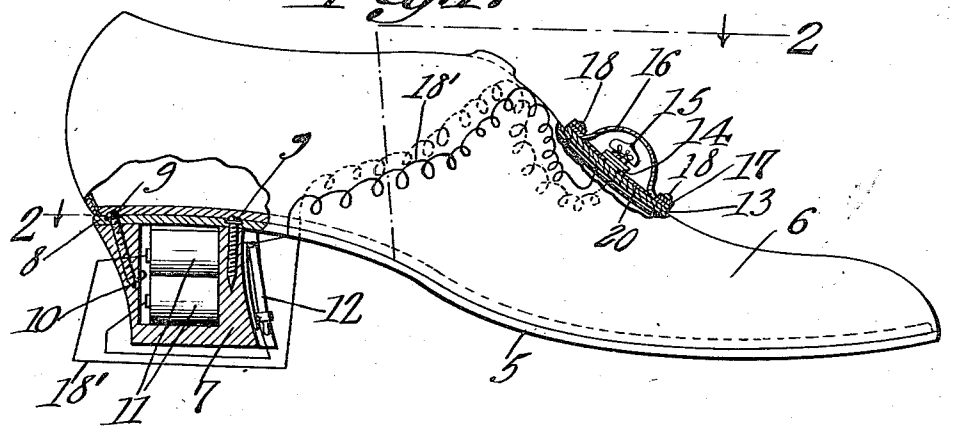


Fig. 2.

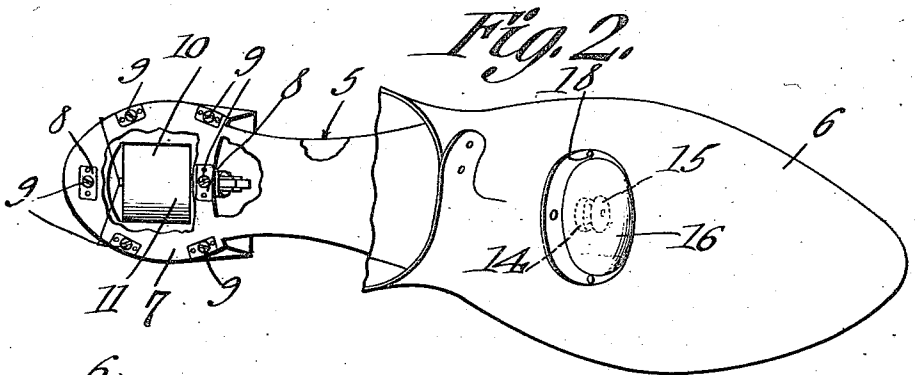


Fig. 4.

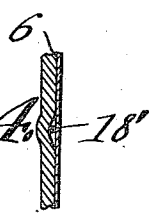
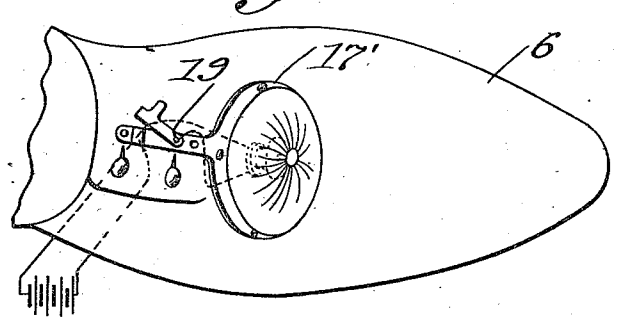


Fig. 3.



Witnesses

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JOHN E. TRIMBLE, OF CHICAGO, ILLINOIS.

ELECTRICALLY-ILLUMINATED SHOE.

1,184,396. Specification of Letters Patent. Patented May 23, 1916.

Application filed May 20, 1914. Serial No. 839,819.

To all whom it may concern:

Be it known that I, JOHN E. TRIMBLE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Electrically-Illuminated Shoe, of which the following is a specification.

This invention relates to an electrically illuminated shoe.

An object of the present invention is to provide a shoe with a jewel taking the place of the usual buckle and which jewel includes an electric miniature lamp and a glass cover thereover and with the heel of the shoe provided with an electric battery therein connected to the electric lamp or bulb and capable of maintaining the same in a lighted condition.

A further object is to provide a shoe having an electric battery in the heel with wires leading therefrom interposed between the layers of leather of which the shoe is formed to thus be concealed. The wires are connected to an electric miniature bulb or lamp which may be of any suitable color so as to harmonize with the general color scheme of a dress or costume.

A further object is to provide a shoe heel so arranged that an electric battery may be easily inserted therein and readily removed therefrom, thus allowing the battery to be replaced after its useful period of service is over. The electric bulb in the jewel is also arranged so that it may be quickly replaced by a similar bulb of some other color.

With the foregoing and other objects in view which will appear as the description proceeds the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof, the preferred embodiment of my invention is depicted, in which:—

Figure 1 is a view in elevation of a shoe formed along the lines of my invention, the heel being broken away to disclose the battery therein and the jewel being in section, disclosing its structural details. Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is a view of a jewel and self contained electric switch. Fig. 4 is a fragmental view, illustrating the manner in which the wires extend between the layers of the shoe and are thus invisible.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, the shoe illustrated in Fig. 1 is in the nature of a pump such as worn by a woman, although it will be readily appreciated that any desired type of shoe may be used. The shoe includes the sole 5, upper 6 and heel 7.

The sole 5 is formed of two or more layers, the lower one of which has secured thereto the metallic plates 8 through which the heel holding screws 9 extend. The screws 9 extend down into the heel 7 to draw the same into rigid contact with the shoe sole. The metallic plates 8 are thus carried by the lower of the sole layers and are hidden by the upper layer. The heel is provided with the upwardly opening chamber or recess 10 in which the two cell electric battery 11 is housed. An electric knife switch 12 is secured to the inner edge of the heel and is electrically connected to the battery 11.

Rigidly secured to the upper 6 and at the locality where the buckle or other ornament is usually applied to a shoe, is the plate 13 to which is rigidly secured the lamp socket 14. A miniature lamp or bulb 15 is detachably secured in the usual way within the socket 14 and is of any desired color. An ornamental cover, preferably formed of glass 16 extends above and protects the bulb and is removably held to the plate 13 by the annular rim 17, suitable holding screws 18 projecting through the rim 17 and engaging the plate 13. The plate 13 is sewed or secured in any desired manner to the shoe and through it extend the electric wires 18′. A plate 20 is positioned upon the plate 13, forms a background for the lamp, being preferably of the same color as the lamp, and presents a glossy appearance, materially increasing the luminous effect of the bulb. The electric wires 18′ extend between the layers which form the upper 6 and are electrically connected to the battery 11 and with the switch 12 in the said circuit.

A somewhat modified form of jewel is illustrated in Fig. 3 in which an electric switch 19 is secured to and carried by a

radial extension of the rim 17′ and electrically connected to the lamp and battery to control the same. The modified form is otherwise like the above described structure. The electric circuit is diagrammatically illustrated in this figure but it is to be understood that it is to be electrically connected to the battery in the heel in the manner previously described. The wires extending from the lamp to the battery may extend along the exterior of the upper 6, provided they be suitably coated to represent an ornamental part of the shoe, and thus hide their true identity.

From the foregoing it will be apparent that the heel may be easily and quickly removed by releasing and removing the screws 9, thus exposing the chamber 10 for the removal and replacement of the battery 11. By releasing the rim 17, the lamp 15 may be removed and replaced as desired.

Having thus fully described the invention, what I claim is:—

1. An ornamental electric device embodying a plate having a lamp socket, a dome-shaped transparent member having an outturned margin seating upon said plate, an electric lamp carried by said socket and projecting into said member and inclosed thereby, and a rim seating upon the margin of said member and secured to said plate to hold said member in place.

2. An ornamental electric device embodying a plate having a lamp socket, a dome-shaped transparent member having an outturned margin seating upon said plate, an electric lamp carried by said socket and projecting into said member and inclosed thereby, a rim seating upon the margin of said member and secured to said plate to hold said member in place, said rim having a radial extension, and a switch carried by said extension for controlling said lamp.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN E. TRIMBLE.

Witnesses:
LILLIAN WELLER,
E. T. OSBORN.