G. B. THOMAS.

ATTACHMENT PLUG.

APPLICATION FILED DEC. 6, 1915.

1,285,840. Patented Nov. 26, 1918.

Fig. 1.

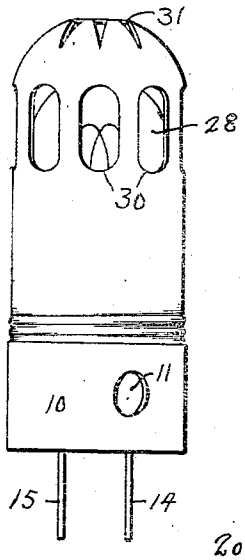


Fig. 2.

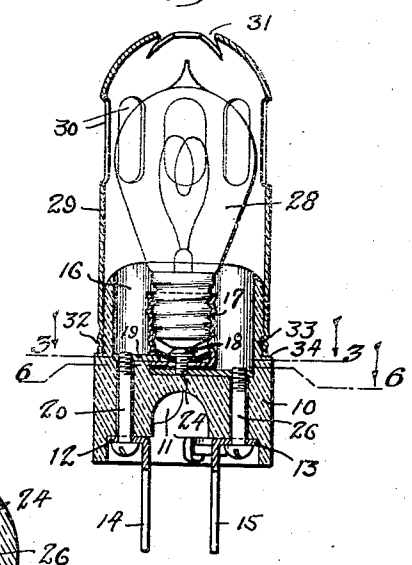


Fig. 3.

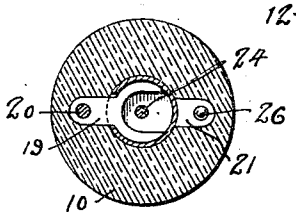


Fig. 4.

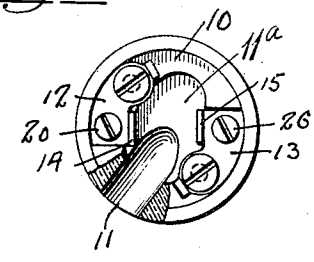


Fig. 5.

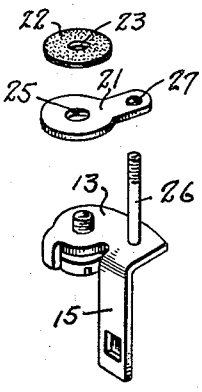
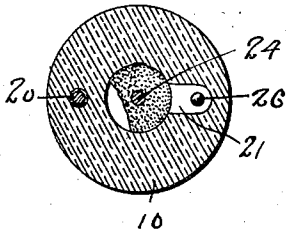


Fig. 6.



Witness:

Titus H. Sims.

Inventor

GEORGE B. THOMAS

By his Attorneys

Howson and Howson

UNITED STATES PATENT OFFICE.

GEORGE B. THOMAS, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE BRYANT ELECTRIC COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ATTACHMENT-PLUG.

1,285,840. Specification of Letters Patent. Patented Nov. 26, 1918.

Application filed December 6, 1915. Serial No. 65,365.

To all whom it may concern:

Be it known that I, GEORGE B. THOMAS, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Attachment-Plugs, of which the following is a specification.

My invention relates to an attachment plug and particularly to an attachment plug provided with an associated pilot light, the object of my invention being to provide a simple, rugged and economical attachment plug having an associated pilot light for indicating the condition of the plug circuit.

In the accompanying drawings,

Figure 1 is a side elevation of an attachment plug in which my invention is embodied in one form;

Fig. 2 is a vertical section therethrough;

Fig. 3 is a transverse section on the line 3—3, Fig. 2;

Fig. 4 is an inverted plan;

Fig. 5 is a detached perspective of one of the plug terminals and one of its associated parts; and

Fig. 6 is a section on the line 6—6, Fig. 2.

In the form here shown my invention comprises a rugged plug body 10 of insulating material, laterally apertured at 11 to permit the entry of the plug cable to the wire terminals 12 and 13 which are mounted on depressed ledges on opposite sides of the wiring and strain relief chamber 11^a recessed into the jack end of the plug body. The wire terminals are formed from sheet metal plates having tongues 14 and 15 offset therefrom and projecting beyond the entering end of the plug to form plug jacks of common type. The opposite end of the plug body is recessed to form a well 16 in which the screw shell 17 and center contact 18 of a minature lamp socket are centrally arranged. A connection to the shell contact is established by a plate 19 overlying the base flange of the shell contact and having a tongue projecting over the bottom of a lateral bay in the well 16. It is connected to the jack 14 by a screw bolt 20 which serves also to hold the jack in position. A second plate 21 underlies the base flange of the shell contact 17 and is spaced therefrom by an insulating washer 22 which is perforated at 23 to permit the center contact screw 24 to pass therethrough and take into the tap 25 in the plate 21. The latter is connected to the jack 15 by the screw 26 which passes through the body of the plug and takes into the tap hole 27 in the plate 21. The jacks and lamp terminals are thus electrically connected and mechanically secured in position by the two screw bolts 20 and 26.

In order to protect the lamp 28 from injury and at the same time to afford a convenient grip for handling the plug, I provide a hub or casing 29 for the lamp which is closed at its outer end, except for lateral perforations 30 and an end perforation 31, while its opposite end is threaded at 32 to engage the threaded section 33 of the plug body adjacent the shoulder 34 against which the casing is screwed down. This affords a readily removable casing which renders the lamp 28 readily accessible for replacement.

The construction as a whole is simple and economical to manufacture, while its various parts are rugged and of the fewest possible number.

Various modifications and details of construction will readily occur to those skilled in the art without departing from what I claim as my invention.

I claim as my invention:

1. A combined attachment plug and pilot light having a one-piece insulating body internally recessed from one end to form a well with lateral bays extending the depth of the well and opening thereto throughout their depth, lamp terminals arranged in said well and connecting plates therefor having tongues extending into the bottoms of said bays, wire terminal plates mounted on the opposite end of said body and underlying said bays, screws mechanically and electrically connecting said wire and lamp terminal plates, and plug jacks projecting from said wire terminal plates, said body having a lateral passage for the leading-in wires opening to said terminal plates.

2. A combined attachment plug and pilot light having a one-piece insulating body internally recessed from one end to form a well with lateral bays extending the depth of the well and opening thereto, lamp terminals arranged in said well and connecting plates therefor having tongues extending into the bottoms of said bays, wire terminal plates mounted on the opposite end of said body and underlying said bays, screws

mechanically and electrically connecting said wire and lamp terminal plates, and plug jacks projecting from said wire terminal plates, said body having a lateral passage for the leading-in wires opening to said terminal plates and having an external shoulder to form an abutment for a housing adapted to enclose a lamp inserted in the socket together with a sheet metal housing resting in adjusted position against said shoulder and affording a hand grip for the insertion and withdrawal of said plug.

3. A combined attachment plug and pilot light having a one-piece insulating body recessed from one end to form a well to receive lamp terminals, and from the opposite end to afford a wiring chamber adapted to accommodate a strain relief knot, ledges on opposite sides of said chamber, terminal plates on said ledges, jacks extending from said plates beyond the end of said body, binding screws on said plates, said body being pierced at a point spaced from the jack end thereof but opening to said wiring chamber to admit a wire cable thereto, together with lamp terminals in the well and mechanical and electrical connections between said plates and terminals.

4. In combination with a construction such as specified in claim 1, an exterior shoulder on said body, threads adjacent said shoulder, and a sheet metal lamp housing threaded at one end to engage the threaded portion of the body and being seated against said shoulder, in adjusted position, said guard affording a hand grip for the insertion and withdrawal of the plug.

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

GEORGE B. THOMAS.

Witnesses:
G. W. GOODRIDGE,
H. M. WICHERT.