

D. E. BOWN.
ATTACHMENT PLUG.
APPLICATION FILED APR. 6, 1911.

1,001,808.

Patented Aug. 29, 1911.

FIG. 1.

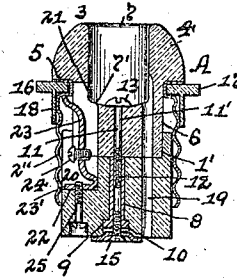


FIG. 2.

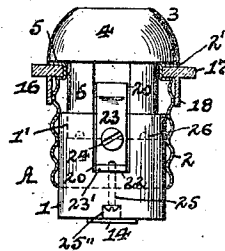


FIG. 3.

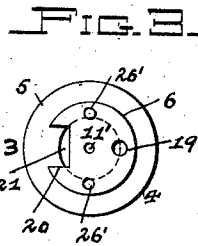


FIG. 4.

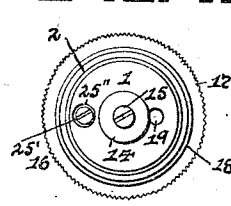
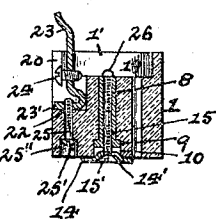


FIG. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

DAVID E. BOWN, OF PITTSBURG, PENNSYLVANIA.

ATTACHMENT-PLUG.

1,001,808.

Specification of Letters Patent. Patented Aug. 29, 1911.

Application filed April 6, 1911. Serial No. 619,279.

To all whom it may concern:

Be it known that I, DAVID E. BOWN, a resident of Pittsburgh, North Side, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Attachment-Plugs; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to attachment plugs and has special reference to such plugs for use in electric lighting such as is shown in United States Letters Patent No. 837,184, granted to me on November 27, 1906.

The object of my invention is to provide a cheap, simple and efficient attachment plug for the sockets of incandescent lamps in electric lighting, in which the parts forming the same can be swiveled, will be capable of being manufactured easily and quickly, will contain few parts, which may be easily and rapidly assembled, and can conveniently be attached or detached from each other when desired.

To these ends my invention consists, generally stated, in the novel arrangement, construction and combination of parts, as hereinafter more specifically set forth and described, and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved attachment plug, I will describe the same more fully, referring to the accompanying drawing, in which—

Figure 1 is a longitudinal central section of my improved attachment plug. Fig. 2 is a side elevation of the same with some of the parts in section. Fig. 3 is an inner end view of the cap. Fig. 4 is a like view with the cap or cover removed. Fig. 5 is a side elevation of the screw casing. Fig. 6 is a longitudinal section of the body member removed.

Like symbols of reference herein indicate like parts in each of the figures of the drawing.

As illustrated in the drawing, A represents my improved attachment plug having the terminal carrying or body portion 1, which is formed of non-conducting material, preferably porcelain, and around which is the metal screw-cap or casing 2 for fitting within and engaging with the lamp socket.

Connected to the body portion 1 is the closing cap or cover 3, which is part of said body and is formed of any suitable non-

conducting material, preferably porcelain. This cap 3 is provided with the outer or head portion 4 having a shoulder 5 thereon and a contracted portion 6 extending inwardly from said shoulder for fitting within a seat 1' in the outer end of said body portion. Extending centrally of the cap 3 and through the head 4 thereon is the hollow portion or chamber 7 and centrally of and carried by the body 1 is the interiorly threaded metal sleeve 8, which is provided with a flange 9 at its inner end and extending outwardly around the same for fitting within a seat 10 in the inner end of said body. A screw 11 passes through a hole 11' centrally of the contracted portion 6 on the cap 3 for engaging with the interior of the sleeve 8 by its threaded end portion 12 and the head 13 of said screw is positioned in the hollow portion 7 of said cap and against the inner wall 7' of the same. A metal plate 14 fits against the inner end of the body 1 and a binding screw 15 for acting as a terminal for one of the wires passes through said plate and seat 10 in said body, so as to engage with the threaded interior of the sleeve 8 and hold said sleeve within said body, while the head 15' on said screw is seated within a dished portion 14'.

Fitting against the shoulder 5 on the cap 3 is the collar 16, which is formed of any suitable non-conducting material, preferably porcelain, and is provided with the flange portion 17 having the tubular portion 18 extending inwardly from the same for fitting around the screw casing 2, which casing is carried by said cap by having a recessed flange portion 2' at its outer end bent over and around the inner edge of the flange portion on such cap.

At one side of and extending through the body 1 and cap 3 is the passageway 19, which opens through the inner end of said body and into the hollow portion 7 of said cap at its outer end, and the opposite side of said body and cap is recessed, as at 20, which opens into said hollow portion through a hole 21 in said cap and provides for a wall 22 at its inner end. A spring contact piece 23 positioned in the recess 20, formed of metal, has a binding screw 24 for the terminal of the other wire engaging through the same and opposite a hole or opening 2' in the casing 2. The outer end of the contact 23 bears against the inner face of the flange portion 2' of the casing 2 and its in-

ner end is flanged, as at 23', for fitting against the wall 22, so as to be engaged by a screw 25 passing through the body 1 and having its head 25' seated within a recess 25" in the inner end face of said body where-
 5 by said contact is carried by said body.

In the assembling and use of my improved attachment plug A, the body 1 carrying the sleeve 8 and contact 23 is placed within the casing 2 carried by the collar 16, and the cap 3 is inserted within such collar, so that its shoulder 5 rests against the flange 17 on said collar and its contracted portion 6 within the seat 1' in said body, and such body and
 10 cap are preferably guided to place by means of lugs 26 in said seat fitting within seats 26' in the inner face of said contracted portion. The screw 11 is then inserted through the hollow portion 7 in the cap 3, so as to en-
 20 gage with the sleeve 8 in the body 1 and screwed up to allow its head 13 to come against the wall 7' in said portion which will hold the body, cap and collar together and ready for the connecting of the usual
 25 wires to the plug A, one of which is passed through the hollow portion 7 and passage-way 19, and its end is connected around the screw 15 back of the plate 14, while the other wire is passed through said hollow portion
 30 and hole 21 in said cap into the recess 20, and it is connected by its end to the screw 24 on the contact piece 23.

When the parts of my improved attachment plug A are thus assembled together
 35 and it is being screwed to place within a lamp socket by its casing 2, the body 1 and cap 3 can be swiveled on the collar 16 carrying said casing, or at any time thereafter, either when positioned in the socket or separated therefrom, which will overcome any
 40 twisting of the wires when being placed within such socket or in its withdrawal therefrom, while at the same time the wires for such plug can be easily and quickly con-

nected to their terminals and disconnected 45 therefrom while the parts of the plug are intact, and thereby obviate the necessity of removing parts for the attaching and detaching of such wires.

Various modifications and changes in the design and construction of my improved attachment plug may be resorted to, without departing from the spirit of the invention or sacrificing any of its advantages.

What I claim as my invention and desire 55 to secure by Letters Patent is—

1. An attachment plug comprising a body portion for carrying the terminals, one of which is connected at the side of said body portion, a screw-casing swiveled around 60 said body portion, and means for permitting the attaching and detaching of said side terminal wire through the side of said casing.

2. An attachment plug comprising a body 65 portion for carrying the terminals for the wires, one of which is connected at the side of said body, and a screw-casing swiveled around said body portion and having an opening therein adapted to be positioned in 70 front of said side terminal for the attaching and detaching of its wire.

3. An attachment plug comprising a body portion for carrying the terminals for the wires, a spring contact on the side of said 75 body carrying one of said terminals, and a screw-casing swiveled around said body portion and adapted to engage with said contact, said casing having an opening therein for being positioned in front of said contact 80 terminal to attach and detach its wire.

In testimony whereof, I the said DAVID E. BOWN, have hereunto set my hand.

DAVID E. BOWN.

Witnesses:

T. B. HUMPHRIES,
 J. N. COOKE.