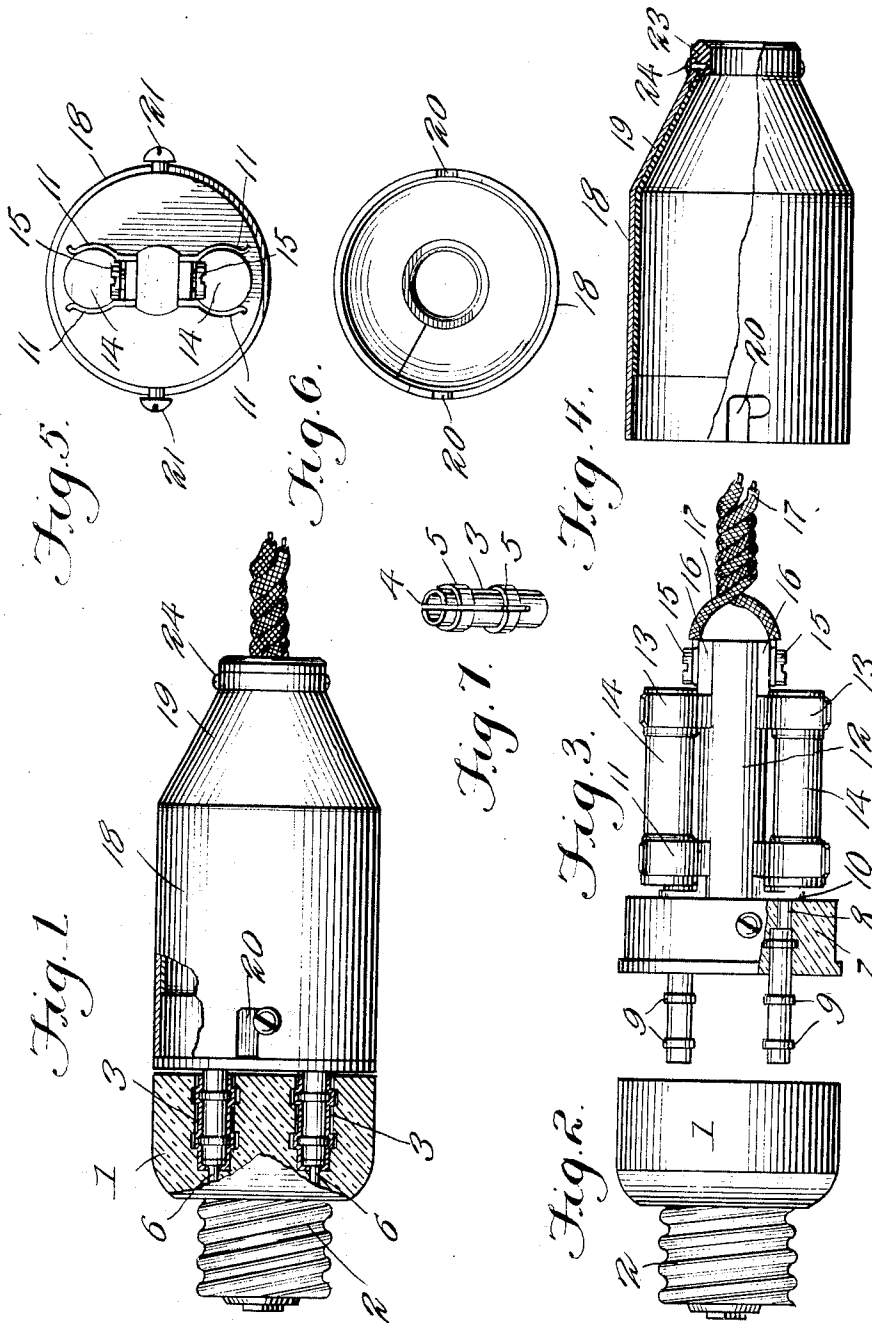


L. A. G. WIDENER.
ATTACHMENT PLUG.
APPLICATION FILED SEPT. 10, 1909.

946,412.

Patented Jan. 11, 1910.



Witnesses

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ATTACHMENT-PLUG.

946,412.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEO A. G. WIDENER, a citizen of the United States of America, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Attachment-Plugs, of which the following is a specification.

This invention relates to attachment plugs for electric lights, and one of the principal objects of the same is to provide a plug which will permit the attachment to the socket without twisting the wire connections.

Another object of the invention is to provide a plug having means for detachable connection of fuses.

Still another object of the invention is to provide a plug in which the threaded member is detachable from the connectors and in which the latter are inclosed within a cap detachable from the threaded member and connected thereto by means of spring sockets, the cap being removable and connected by means of bayonet joints and studs.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,—

Figure 1 is a side elevation and partial section of an attachment plug made in accordance with my invention. Fig. 2 is a side elevation of the threaded plug member. Fig. 3 is a similar view of the connector and fuse carrier. Fig. 4 is a side elevation and partial section of the cap for covering the connectors. Fig. 5 is a plan view of the connector. Fig. 6 is a bottom plan view of the cap. Fig. 7 is a detail perspective view of one of the spring sockets for the contacts or connecting members.

Referring to the drawing, the numeral 1 designates a glass plug or insulator having a threaded projection 2 adapted to be fitted within a socket in the wall or ceiling. The member 1 is provided with recesses in which are fitted metal sockets 3, said sockets each comprising two spring members partially separated by a slot 4 and having annular projecting portions 5 providing interior recesses, as shown in Figs. 1 and 3. Extending through the ends of the metal sockets 3 are the contact members 6.

The connector member of the plug com-

prises a glass or other insulator 7 having contact members 8 which extend through the same and provided with rings or enlargements 9, which when fitted in the spring sockets 3 are held in place by the recesses inside the annular enlargements 5 of said sockets. Connected to the side of the members 7 are metal brackets 10 having outwardly extended spring members 11. The brackets 10 are connected to the members 7 and to an extended pin or standard 12. Spring arms 13 are connected to the standard 12, and the fuses 14 can be readily inserted between the spring members 11 and 13 and removed therefrom when they are burned out. Binding posts 15 serve to secure the brackets 16 which carry the spring arms 13 to the pin 12, and the connecting wires 17 are secured to these binding posts. A metal cap 18 having a contracted end 19 is provided at its opposite ends with oppositely disposed bayonet slots 20 adapted to be connected to the studs or screws 21 secured to the members 7. The cap 18 is provided with an insulator lining 22 provided with a boss or ring 23 which extends beyond the contracted end of the cap 18, said lining being held in place by means of a screw 24.

From the foregoing it will be obvious that the plug member 1 can be secured in the socket in the wall or ceiling, and the connector 7 can then be attached to the member 1 by pushing the connectors 8 into the socket members 3, the resiliency of the members 3 holding the parts together, owing to the enlargements 9 fitting into the interior recesses in the sockets 3. The cap 18 can be readily removed for the purpose of renewing the fuses 13 when they are burned out. The parts will hold together and cannot be accidentally disconnected.

I claim:—

1. An attachment plug comprising an insulator member having a threaded projection, contact members extending through said insulator, resilient sockets in said insulator, a plug member having connectors extending through the same and adapted to be secured in the resilient sockets, fuse holders provided with spring arms for permitting the fuses to be detachably connected thereto, connector wires connected to the fuse holders, and a cap fitted over the fuse

holders and detachably connected to the plug member.

2. In a device of the character described, the combination of a plug having resilient
5 sockets therein, a member carrying connectors adapted to fit within said sockets and to be held therein by the resiliency of said sockets, spring arms for detachably holding

fuses, and a cap fitted over the fuses and held in place by bayonet slots and studs. 10

In testimony whereof I affix my signature in presence of two witnesses.

LEO A. G. WIDENER.

Witnesses:

BRUNO P. JAPP,
JOHN GEHRIG.