

J. C. DALLAM.
ATTACHING PLUG.
APPLICATION FILED AUG. 19, 1905.

947,987.

Patented Feb. 1, 1910.

Fig. 1.

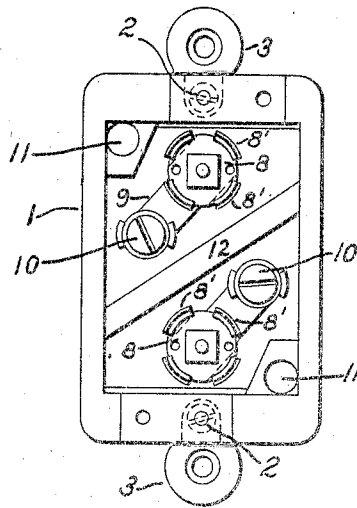
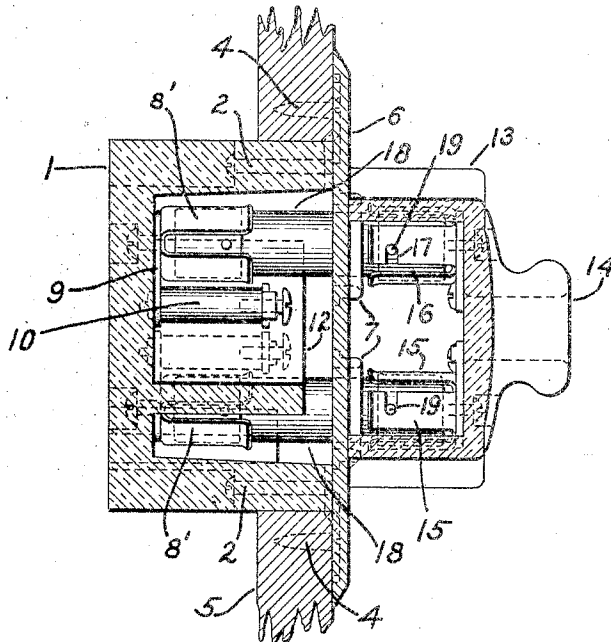


Fig. 2.



Witnesses:

Benjamin B. Allen
Allen A. Ford

Inventor:

John C. Dallam
By *Albert S. Davis*
Atty.

UNITED STATES PATENT OFFICE.

JOHN C. DALLAM, OF SCHENECTADY, NEW YORK, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

ATTACHING-PLUG.

947,987.

Specification of Letters Patent.

Patented Feb. 1, 1910.

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To all whom it may concern:

Be it known that I, JOHN C. DALLAM, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Attaching-Plugs, of which the following is a specification.

This invention relates to connectors for electric circuits, and its object is to provide a removable attaching plug for electric conductors in which one or both of the customary knife-blade contacts may be supplanted by inclosed fuses of cartridge form. This produces an attaching plug which is capable of carrying heavier currents than the plugs in which a small exposed fuse-wire is used. Yet this is accomplished without undue enlargement of the plug and by means of a simple and inexpensive construction.

In the accompanying drawing Figure 1 is a front elevation of a flush receptacle for my improved attaching plug, the face-plate of said receptacle being removed; and Fig. 2 is a sectional elevation of the receptacle and plug.

The body or casing 1 of the receptacle is made of insulating material, such as molded porcelain, and has secured to it by screws 2, the metallic ears 3 which are perforated to receive the screws 4 by which the receptacle is fastened to the wall 5. The metallic face-plate 6 covers the mouth of the receptacle and has two openings provided with insulating bushings 7. Each opening is in line with a clip secured to the bottom of the receptacle and comprising a base 8 carrying two or more resilient fingers 8', preferably curved in cross-section and concentric with the axis of the opening in the face-plate. An arm 9 extends laterally from the base 8 and is provided with a binding-post 10. In an adjacent corner of the receptacle is an integral rib having a passage 11 through it for a line terminal. A septum or barrier 12 separates the receptacle into two compartments, each containing one of the clips.

The plug comprises a cup-shaped holder 13 made of porcelain or the like, having a handle 14, and containing two metallic sockets composed of spring-fingers 15. One of said fingers has a longitudinal slot 16 provided with a lateral notch 17. The sockets are so arranged that their center lines will

coincide with the axes of the bushings 7 and clips 8. The branch-line conductors are connected with said sockets, being led in through a central hole in the handle 14. In each socket is inserted one end of a cartridge fuse 18 of any desired make, the metallic cap of said fuse having a pin 19 adapted to slip into the slot 16 and engage with the notch 17 when the fuse is slipped into the socket and turned, the action being that of a bayonet joint. If desired, some other equivalent mode of removably securing the fuse in the socket may be substituted for the bayonet joint shown. When this plug with its two fuses is applied to the receptacle, the projecting ends of said fuses pass through the bushings and enter the clips where the metallic caps on said fuses make good contact with the fingers 8', and thus establish a circuit through the branch conductors. In case a fuse is disrupted, the cartridge can be easily removed and a fresh one put in. The cup-shaped plug fits against the face-plate, so that if a fuse-body bursts the arc cannot escape from the receptacle.

What I claim as new, and desire to secure by Letters Patent of the United States, is,—

1. The combination with a receptacle, of an attaching plug having a pair of inclosed fuses serving as contacts.

2. The combination with a receptacle, of a contact clip therein adapted to frictionally engage one end of an inclosed fuse, an attaching plug provided with resilient fingers to receive the other end of said fuse, and means for removably locking said fuse in said plug.

3. The combination with a receptacle, of a contact clip therein adapted to frictionally engage one end of an inclosed fuse, an attaching plug having a socket to receive the other end of said fuse, and a bayonet joint connection for removably securing said fuse in said socket.

4. The combination with a receptacle, of a contact clip therein adapted to frictionally engage one end of an inclosed fuse, an attaching plug having resilient fingers to receive the other end of said fuse, one of said fingers having a longitudinal slot provided with a lateral notch, and an inclosed fuse having a pin to engage with said slot and notch.

5. The combination with a receptacle, of

two clips therein, a face-plate having openings registering with said clips, and a plug carrying two inclosed fuses adapted to pass through said openings into said clips.

6. The combination with a receptacle, of two clips therein, a face-plate having openings registering with said clips, insulating bushings for said openings and an attaching plug having means for removably holding

two inclosed fuses adapted to pass through 10 said bushings into said clips.

In witness whereof I have hereunto set my hand this 18th day of August, 1905.

JOHN C. DALLAM.

Witnesses:

BENJAMIN B. HULL,
HELEN ORFORD.