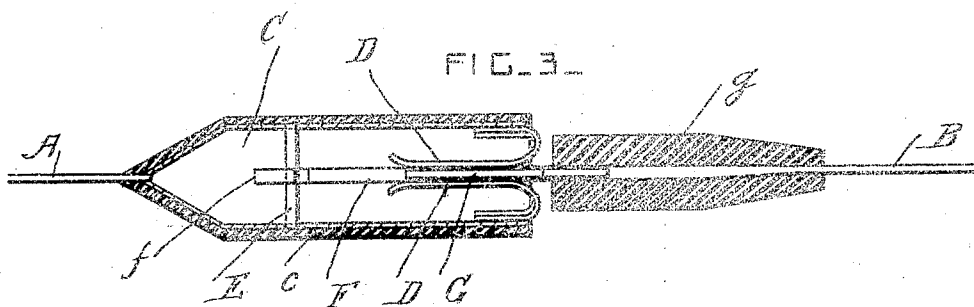
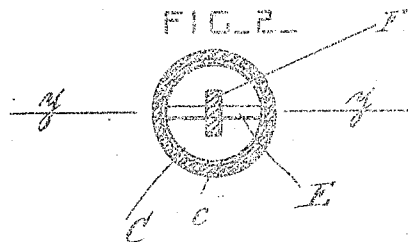
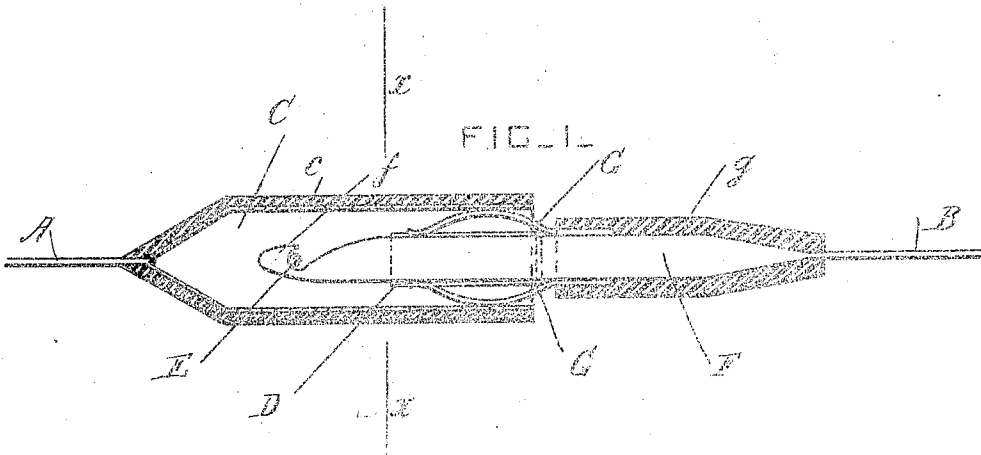


J. E. DU VAL.
ELECTRIC SWITCH.
APPLICATION FILED MAY 12, 1911.

1,013,990.

Patented Jan. 9, 1912.



Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

JAMES ERL DU VAL, OF BOWIE, TEXAS, ASSIGNOR OF ONE-HALF TO EZRA A. LEE, OF BOWIE, TEXAS.

ELECTRIC SWITCH.

1,013,999.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed May 12, 1911. Serial No. 626,804.

To all whom it may concern:

Be it known that I, JAMES E. DU VAL, a citizen of the United States, residing at Bowie, in the county of Montague and State of Texas, have invented certain new and useful Improvements in Electric Switches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to switches or connections for coupling the sections of a line wire used in connection with telephones or telegraphs; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a longitudinal section through a switch or coupling constructed according to this invention. Fig. 2 is a cross-section through the switch, taken on the line $x-x$ in Fig. 1. Fig. 3 is a longitudinal section through the switch taken on the line $y-y$ in Fig. 2.

A and B are two sections of an electric line wire, such as a telephone wire, and the switch is provided so that these sections can be disconnected at will, for instance when a thunderstorm is impending.

C is a metallic case which is preferably cylindrical, and c is insulating material inclosing the said case. One wire section A is connected to one end of this case which is closed, and D D are two flat contact springs secured upon opposite sides of the other and open end of the case and extending within it.

E is a pin secured crosswise in the case and arranged in the space between the free ends of the springs and the closed end of the case.

F is a flat metallic bar having a hook f at one end, and having the other wire section B secured to its other end.

G G are two narrow curved springs secured to the opposite edges of the bar F, at the middle part of its length, with their free ends projecting toward the hook. The end portion of the bar F adjacent to the wire is inclosed in insulating material g . The end portion of the bar beyond the hook

is tapered and rounded over, so that when the bar is thrust between the contact springs D into the case, the hook slips into engagement with the pin E. The insulating material prevents the current from flowing from the wire sections through the hands in operating the switch. The hook is disengaged by pushing it farther within the case and then tilting the bar F against the pressure of one of the springs G sufficiently to enable the hook to be withdrawn past the pin. The springs G normally bear against the case and prevent the bar F from tilting accidentally, and the contact springs D bear against the flat sides of the bar and guide it into engagement with the pin and also insure a satisfactory contact for the passage of the electric current from one wire section to the other. The springs G work in the spaces in the case between the contact springs D.

What I claim is:

1. The combination, with two line wire sections, of a case secured to one section and provided with a pair of contact springs and a pin arranged crosswise of the case, a bar secured to the other wire section and provided with a hook for engaging with the said pin when thrust into the case between the contact springs, and springs secured to the edges of the said bar and bearing against the case.

2. The combination, with two line wire sections, of a case having one end secured to one section and having a pair of flat contact springs projecting within it from its other end, said casing having also a pin arranged crosswise of it, a flat bar secured to the other wire section and provided with a hook for engaging with the said pin when thrust into the case between the contact springs, and springs secured to the edges of the said bar and bearing against the case and working in the spaces between the said contact springs.

In testimony whereof I have affixed my signature in the presence of two witnesses.

JAMES ERL DU VAL.

Witnesses:

O. C. ROSE,
JOHN PEER.