

S. TROOD.
ATTACHMENT PLUG.
APPLICATION FILED OCT. 26, 1912.

1,049,945.

Patented Jan. 7, 1913.

Fig. 1.

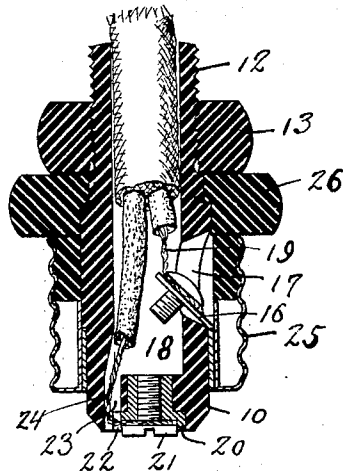


Fig. 3.

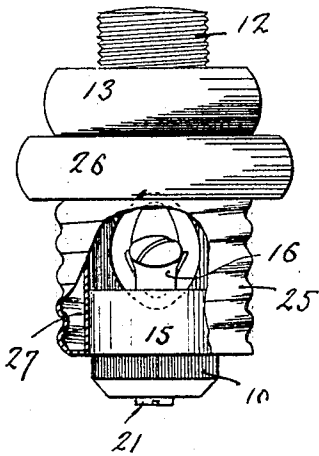


Fig. 2.

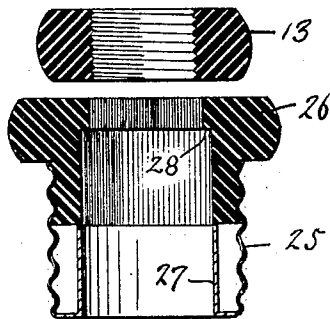
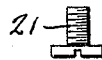
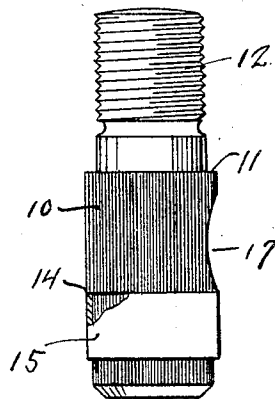
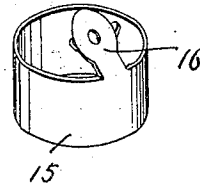


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

SAMUEL TROOD, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO THE BRYANT ELECTRIC COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ATTACHMENT-PLUG.

1,049,945.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed October 26, 1912. Serial No. 727,962.

To all whom it may concern:

Be it known that I, SAMUEL TROOD, a citizen of the United States of America, and residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a certain new and Improved Attachment-Plug, of which the following is a specification.

My invention relates to attachment plugs and particularly to the type of plug commonly referred to as a swiveling plug, the object of my invention being to provide a plug of this type which is economical to manufacture and efficient in operation.

In the accompanying drawings, Figure 1 is a vertical section through a plug in which my invention is illustrated in one form; Fig. 2 is a dropped section partly in elevation; Fig. 3 is a side elevation partially broken away; and Fig. 4 is a perspective of the side contact ring on the body of the plug.

The present attachment plug in the form illustrated comprises a tubular body portion 10 of insulating material, the upper end 12 of which above the shoulder 11 is of slightly reduced diameter and threaded to receive a retaining nut 13. Adjacent its lower end the plug is slightly recessed to form a shoulder 14 which constitutes an abutment for the upper edge of the side contact ring 15, the latter being sleeved on the lower end of the plug body 10. An upstanding lug 16, on the ring 15, is angled into the recess 17 which opens through the side wall of the body into its interior chamber 18. This lug 16 carries a binding screw by means of which the bared end of the leading-in wire 19 may be secured, thus bringing the ring 15 into one branch of the plug circuit. The lower end of the plug is closed by an internally threaded eyelet 20 which receives the binding screw 21. The countersunk head of the eyelet is notched at 22 in register with the longitudinal perforation 23 in the lower end of the plug, to permit the adjustment of the bared end of the other leading-in wire 24, beneath the head of the binding screw 21, which, with the head of the eyelet 20, forms the center contact of the plug. A screw shell 25, carried by a button 26 of insulating material, and provided with an internal sleeve 27, is slipped over the upper end of the body of the plug, the internal diameter of the sleeve 27 being such that a snug swiveling engagement is established between the

latter and the side contact ring 15. The screw shell is thus brought into the branch of the circuit established by the connection of the wire 19 to the lug 16. An internal shoulder 28 formed in the upper portion of the button 26 engages the shoulder 11 on the body portion of the plug and thus not only positions the swiveling screw shell 25 in proper relation to the side contact ring 15, but also establishes the engagement of the parts whereby the plug as a whole is drawn into the socket when the shell 25 is screwed home in the latter. The retaining nut 13 prevents the escape of the screw shell from the body of the plug when the latter is not in use. As will be observed, the threads on the stem 12 at the head of the plug are stopped at such point as will prevent the ring 13 being screwed down far enough to bind the button 26 and prevent it from swiveling freely, while at the same time undue longitudinal play between the parts is not permitted.

A plug construction substantially as described is of few parts, all readily made and assembled, while the finished plug affords all the elements of strength and serviceability which fit it for efficient use.

I claim as my invention:—

1. An attachment plug comprising a hollow insulating body with lateral and end perforations communicating with the interior of said body, an external side contact ring having a wire terminal lug angled into said lateral perforation, and a wire terminal adjacent the end perforation, whereby wires led through said hollow body may be respectively connected to said side and end terminals, in combination with a screw shell in swiveling engagement with said side contact ring, substantially as described.

2. In an attachment plug, an insulating body having a side contact and a screw shell having an internal sleeve in swiveling engagement with said side contact, substantially as described.

3. In an attachment plug, a hollow insulating body, with lateral aperture, a side contact ring having a wire terminal angled into said aperture to connect with a wire led through the hollow body of the plug, and a screw shell in swiveling contact with said ring.

4. In an attachment plug, a hollow insulating body, with lateral aperture, a side

contact ring having a wire terminal angled into said aperture to connect with a wire led through the hollow body of the plug, and a screw shell with internal sleeve in swiveling contact with said ring.

5 5. An attachment plug comprising a hollow insulating body with lateral and end perforations communicating with the interior of said body, an external side contact
10 ring having a wire terminal lug angled into said lateral perforation, and a wire terminal adjacent the end perforation, whereby wires led through said hollow body may be respec-

tively connected to said side and end terminals, in combination with a screw shell in swiveling engagement with said side contact ring, and a retaining nut threaded on the upper end of the plug body, substantially as described.

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

SAMUEL TROOD.

Witnesses:

B. B. HINES,
A. M. LUNDY.