Feb. 15, 1927. 1,617,810

H. HUBBELL

DOUBLE T CAP

Filed July 27, 1921

FIG. 1

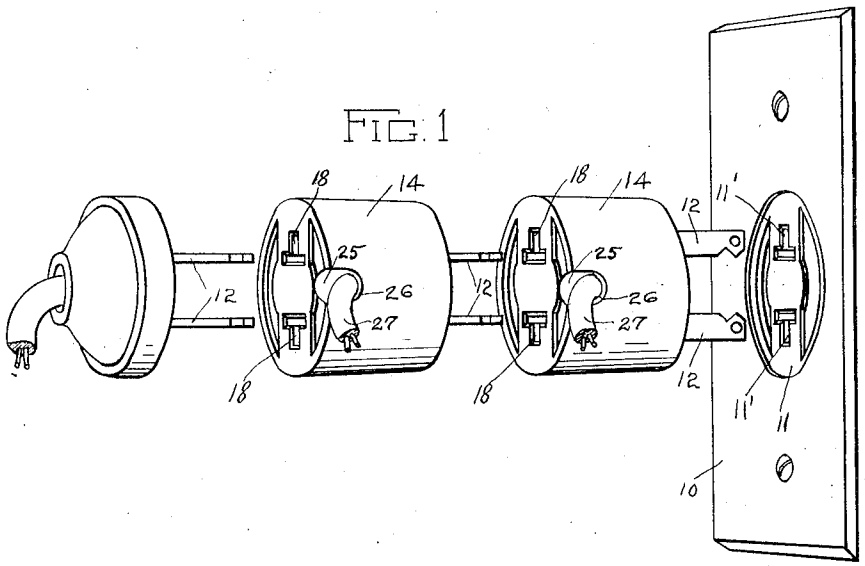


FIG. 2.

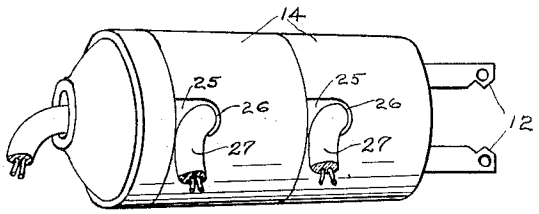


FIG. 3.

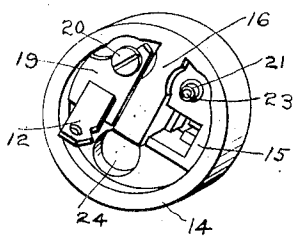


FIG. 4

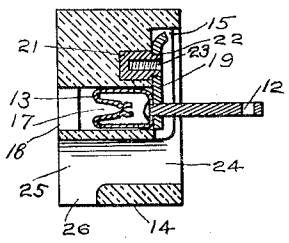
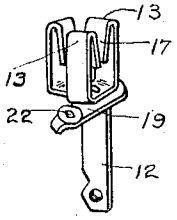


FIG. 5



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Patented Feb. 15, 1927. 1,617,810

UNITED STATES PATENT OFFICE.

HARVEY HUBBELL, OF BRIDGEPORT, CONNECTICUT.

DOUBLE T CAP.

Application filed July 27, 1921. Serial No. 487,940.

My invention relates to caps or plugs for the distribution of electric current to various apparatus. An object of the invention is to provide a simple cap construction which will allow the supplying of a plurality of different apparatus with current from a single receptacle or outlet. Another object of the invention is to provide a cap of such a construction that the leads may extend therefrom either through the end or side wall thereof without disconnecting them from the binding posts. A further object of the invention is to provide a body for a cap of this type which may be formed entirely in dies having straight up and down movements, and, therefore, to decrease the cost of manufacture.

With these and other objects in view I have devised the improved cap illustrated in the accompanying drawings in which;

Fig. 1 is a perspective view of a wall receptacle and a plurality of my improved caps slightly separated showing the method of plugging in;

Fig. 2, a perspective of a plurality of caps connected together but removed from the receptacle;

Fig. 3, a perspective view of the inner end of the cap but showing one binding post in position;

Fig. 4, a section through a cap and contact therein; and

Fig. 5 is a perspective of a contact element.

The face plate 10 covers the receptacle 11 in the wall and is provided with an opening through which the double T slots 11′ are accessible for the insertion of the projecting contact plates, or jack blades 12, on the end of the cap, these T slots leading to triple spring contact members embedded in recesses therein, these triple spring contact members being of the type disclosed at 13 in Fig. 5.

The cap comprises an insulating body member 14 having recesses 15 in one end thereof separated by the tongue 16. Communicating with these recesses 15 are sockets 17 adapted to contain triple spring contacts, as 13, and the other end of the cap is provided with T slots 18 leading to the sockets 17 to allow for the insertion of the projecting contact plates 12 of another cap. The triple spring contacts 13 are riveted to binding post plate 19 carrying binding screws 20, and also secured to this plate is an extending contact plate 12. The binding posts and contacts are preferably secured in the recesses and sockets in the cap by means of internally threaded bushings 21 moulded into the body of the cap so that one end thereof projects above the bottom surface of recess 15. Plate 19 is provided with an opening 22 adapted to fit over the end of this bushing. The end of the bushing is then spun over the plate to retain it in position, the binding screw 20 being inserted in the tapped opening 23 in the bushing. This makes a very secure connection for the binding posts and contact which is separate and distinct from the action of the binding screw.

Extending longitudinally through the cap is a lead passage 24 which communicates with the recesses 15 in the end of the cap. The other end of the passage is provided with a single opening leading through the end of cap at 25 and also through the side of the cap at 26. This arrangement of the lead passage and the opening thereto for the lead wires 27 allows the formation of the body of the cap by dies having a straight up and down movement and also allows for the lead of the lead wires from either the end or the side of the cap without the necessity for a separate operation of drilling an opening through the side wall of the cap. This makes the cap body much cheaper to manufacture, as one distinct operation is eliminated. It also allows the lead wires 27 to be taken from the cap either from the end thereof as when the plug is inserted in a countersunk receptacle, where the receptacle carrying the contacts and adapted to receive the blades 12 is spaced to the rear of the face plate to allow the outer end of plug 14 to lie flush with the face plate, or allows the lead to be taken from the side of the cap, as shown in Figs. 1 and 5, when a plurality of these caps are plugged one into the other in series, as shown in Fig. 2. It will be apparent that any number of caps may be connected together and to the outlet or wall receptacle, leading current to different attachments within the capacity of the electrical equipment or receptacles and the fuses in the supply circuit thereof.

Having thus set forth the nature of my invention, what I claim is:

1. An attachment plug body provided with sockets for electrical contacts and contact blade openings leading thereto, said body being provided with a lead passage ex-

tending longitudinally thereof from one end, and said passage having a single inlet opening leading both longitudinally from the end of the body and laterally from the side wall of the body.

2. An attachment plug body provided with sockets for electrical contacts, a slot leading from one end to each socket, and a lead passage extending longitudinally of the body, said passage having a single inlet opening leading both longitudinally from one end of the body and laterally from the side wall of the body.

3. An attachment plug comprising an insulating body, a pair of contact blades projecting from one end thereof, binding posts to which said blades are connected, the body being provided with recesses for said binding posts, sockets communicating with said recesses, and a slot communicating with each socket, spring contacts in said sockets and connected with said binding posts, said body also being provided with a lead passage extending longitudinally thereof and communicating with said recesses, said passage having a single opening leading longitudinally from the end of the body and laterally from a side wall of the body.

4. In a device of the character described, an attachment plug for one or more extension circuits comprising an insulating body, a pair of contact blades projecting from one end of said body and provided with binding posts for the connection of an extension circuit thereto, the other end of said body being provided with recesses and slots adapted for the insertion of contact blades leading thereto, contacts in said recesses and having electrical connections with said binding posts, said body being provided with a passage extending longitudinally thereof for the leads, and shaped at the edge of the top of the body to allow the leads to extend either longitudinally from the top of the body or laterally from the side of the body without disconnecting the same.

5. In a device of the character described, an attachment plug for one or more extension circuits comprising an insulating body, a pair of contact blades projecting from one end of said body and provided with binding posts for the connection of an extension circuit thereto, the other end of said body being provided with recesses and slots adapted for the insertion of contact blades leading thereto, contacts in said recesses and having electrical connections with said binding posts, said body being provided with a passage extending longitudinally thereof for the leads, said passage having a single inlet opening leading both longitudinally from an end of the body and laterally from the side wall of the body.

6. An attachment plug comprising an insulating body, contacts mounted in said body, contact blades connected with said contacts and projecting from one end of the body, the other end of the body being provided with means to allow engagement of similar projecting contact blades of another plug with said contacts, said body being also provided with a passage for lead wires extending longitudinally thereof having a single inlet opening leading both laterally from a side wall of the plug and longitudinally from the end opposite to the projecting blades.

In testimony whereof I affix my signature.

HARVEY HUBBELL.