May 4, 1926. 1,582,957

C. E. AVERY

ELECTRICAL RECEPTACLE

Filed Dec. 2, 1922

Fig. 1.

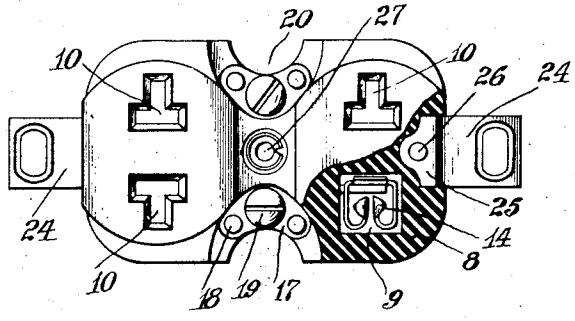


Fig. 4.

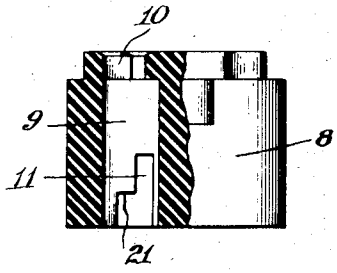


Fig. 2.

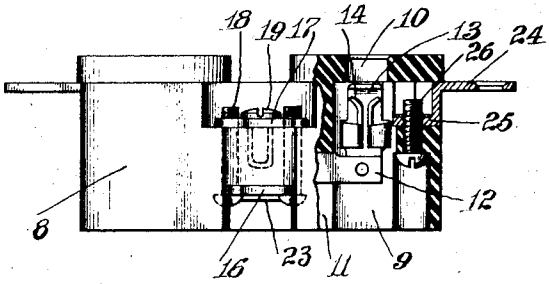


Fig. 5.

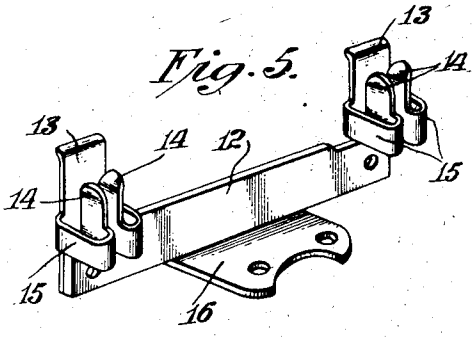


Fig. 3.

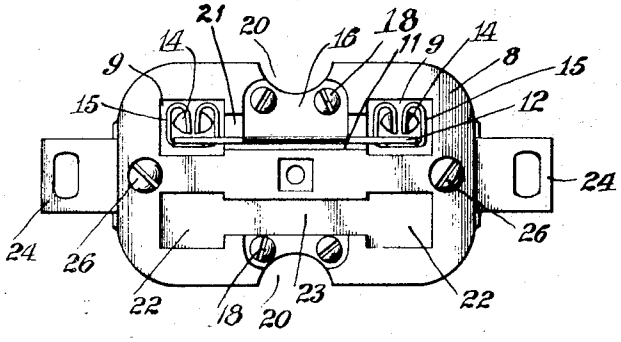


Fig. 6.

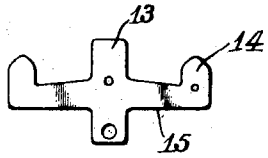
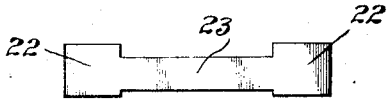


Fig. 7.



INVENTOR

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UNITED STATES PATENT OFFICE.

CHARLES E. AVERY, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO MANHATTAN ELECTRICAL SUPPLY COMPANY, INCORPORATED, OF JERSEY CITY, NEW JERSEY, A CORPORATION OF MASSACHUSETTS.

ELECTRICAL RECEPTACLE.

Application filed December 2, 1922. Serial No. 604,466.

To all whom it may concern:

Be it known that I, CHARLES E. AVERY, a citizen of the United States of America, and residing at East Orange, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Electrical Receptacles, of which the following is a specification.

My invention relates particularly to a device adapted to accommodate two separate plugs either of the tandem or parallel blade type.

The main object is to provide a simple, compact and reliable device which can be made economically and readily wired.

In its preferred form the device has a one piece body with the usual T shaped entrance slots and recesses containing specially formed contact members and binding screws readily accessible in grooves in the sides of the body.

Fig. 1 is a front view and partial section of a device embodying the improvements of my invention.

Fig. 2 is a side view and partial section of the same.

Fig. 3 is a bottom plan view but with one of the filling pieces removed.

Fig. 4 is a transverse sectional view.

Fig. 5 is a perspective view of one of the contact members on an enlarged scale.

Fig. 6 is a detail view of a blank from which one of the contact is formed.

Fig. 7 is a detail view of the filling piece omitted from Fig. 3.

The body 8 of the receptacle is preferably formed of one piece of insulating material such as porcelain or molded composition and has four recesses opening at the back with T shaped entrance slots 10 in the front. These recesses are arranged in pairs on opposite sides of the receptacle, the recesses of a pair being connected by a longitudinal channel 11 in order to accommodate a contact member.

Each contact member has a longitudinal bar 12 which carries the contacts at opposite ends. Each contact has a main central blade 13 and two tips 14 carried by reversely bent arms 15 so as to form a socket between the blades 14, 14 and another socket at right angles thereto between the blade 13 and the adjacent edges of the blades 14, 14. The bar 12 is adapted to be accommodated in the channel 11 and the contacts are arranged in the recesses 9 in line with the entrance slots 10. The bar 12 has an integral flange 16 which fits in a recess in the back of the receptacle alongside the channel 11 and is secured to the receptacle by means of a terminal plate 17 in a recess in the front of the receptacle and the screws 18 which pass through the receptacle. A binding screw 19 has a threaded engagement in the plate 17 for securing the end of a conductor in place. The wall of the receptacle adjacent the head of the screw 19 serves to hold the end of the wire in place. The opposite sides of the receptacle are provided with grooves 20 for the conductor wires, and the flange 16 and terminal plate 17 are preferably shaped to correspond with the curved wall of these grooves.

On the plane of the rear edge of the connecting bar 12 I may provide a shoulder 21 to serve as additional support for a filler piece such as shown in Fig. 7 which is preferably formed of fibre or paper with heads 22, 22 adapted to fit the recesses 9, 9, and a connecting strip 23 adapted to fill in the space between and cover the channel 11. This filler piece is made just enough larger than the recess in the receptacle so that it can be readily inserted and yet will be held frictionally in place and serve to prevent the filling wax from running into the recesses 9 and interfering with the contact.

The body is provided with suitable means for fastening it to the usual metal box. This securing means may be in the form of ears 24 each of which has an angularly bent foot 25 fitting in a recess in the end of the body and held in place by a screw 26.

The body may also be provided with a central seat 27 to receive a screw for holding a face plate in position.

This invention has the advantages of a one piece body together with the advantages of combination contacts adapted to receive either kind of standard plug blades. The contact members themselves are so constructed that they can be readily manufactured according to standard patterns and require no particular skill in assembly. The parts are so constructed as to require a minimum number of screws for holding them together. When once assembled, the parts are protected against accidental displace-

ment or mischievous tampering. It will also be noted that the parts are so constructed as to produce a compact device free of fragile projecting parts and having a neat, attractive and workmanlike appearance.

I claim:

1. A receptacle comprising a one piece body having two recesses on each side of the center line connected by longitudinal channels and with T shaped entrance slots, a longitudinal bar arranged on edge in each channel and having a flange in the rear, a contact secured on each end of each bar in said recesses, terminal plates mounted in the face of said body and attaching screws connecting said flanges and said plates and securing said bars and said contacts in position.

2. A receptacle comprising a one piece body having two recesses on each side of the center line connected by longitudinal channels and with T shaped entrance slots, a longitudinal bar arranged in each channel and having a flange in the rear, a contact secured on each end of each bar in said recesses, terminal plates mounted in the face of said body and attaching screws connecting said flanges and said plates and securing said bars and said contacts in position, and filling strips fitting in said recess and covering said channels.

3. A receptacle comprising a body having two recesses on each side of the center line connected by longitudinal channels and with T shaped entrance slots, a longitudinal bar arranged in each channel and having a flange in the rear, a one piece contact secured on each end of each bar in said recesses, a main blade and two auxiliary blades at right angles thereto, terminal plates mounted in the face of said body and attaching screws connecting said flanges and said plates and securing said bars and said contacts in position.

4. A receptacle comprising a one-piece body having two recesses open in the rear on each side of the center line and connected by longitudinal channels and having entrance slots in the front and side recesses open at the front, a longitudinal bar arranged on edge in each channel in the rear and having a supporting base flange, a contact secured on each end of each bar in one of said recesses and accessible through its entrance slot, terminal plates with binding screws mounted in said side recesses and accessible at the front of said body and attaching screws connecting the base flanges of said bars and said plates and securing said bars and said contacts in position.

5. A plug receptacle contact comprising a main body portion having a resilient blade with a broad contact surface extending in the same plane therewith, means for supporting one end of said body portion, narrow spring arms integrally connected with the opposite side edges of said body portion and extending at approximately right angles thereto and terminating in reversely bent blades arranged between said arms and having independently resilient tips extending beyond the said arms in the same general direction as the resilient blade of said main body portion, said tips having contact surfaces at right angles to the contact surface of said main body blade with a space between the bent blades for a plug blade, edges of said bent blades being close to and substantially parallel with the body portion and the contact surface of said main body blade but spaced apart therefrom to permit the insertion of a plug blade.

CHARLES E. AVERY.