

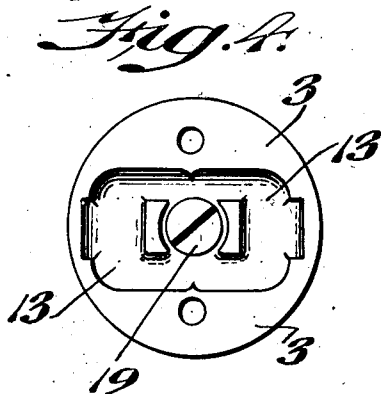
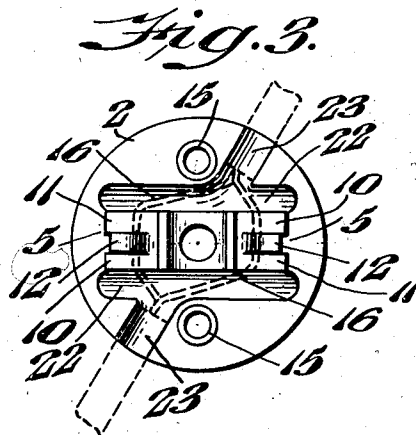
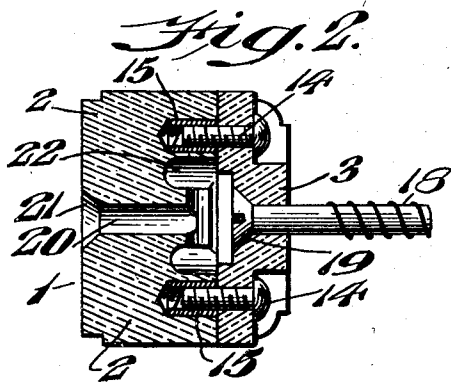
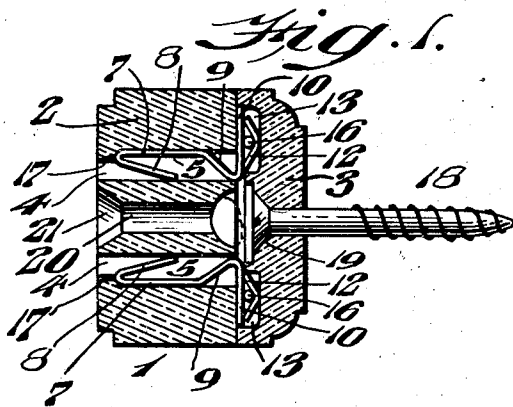
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H. E. SLADE

1,759,595

ELECTRIC OUTLET DEVICE

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ELECTRIC OUTLET DEVICE

Application filed May 18, 1929. Serial No. 364,070.

My present invention is a modification of the device shown in my Patent 1,731,989 of October 15, 1929 and relates to a new and useful electrical outlet device of the type adapted to receive a conventional electrical connector plug, and more particularly to an electrical outlet which is equally adapted to receive, and be wired by, a duplex cord extending through the outlet or terminating therein, the entire outlet device and its adjuncts being adapted to be rigidly, quickly, and easily secured to a wall or other support by a single centrally disposed screw or the like.

My invention further relates to a novel electrical outlet device adapted for use at any desired point or location, and one which may be wired, assembled, and secured in position with minimum skill and effort.

My invention still further relates to an outlet of this general character which is durable and inexpensive to produce.

To the above ends, my invention consists of a sectional or two part insulating housing, pairs of parallel blade receiving recesses in one part, as the body, of said housing, pairs of spring contacts in said recesses adapted to receive the blades of a conventional plug or electrical connector, said spring contacts being anchored between the housing sections and having wire engaging means adapted to receive the wires of a duplex electrical cord, means for securing the housing sections together, and means for securing the entire housing to a support by a single centrally disposed supporting screw or the like.

For the purpose of illustrating my invention I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

In the accompanying drawings:

Fig. 1, represents a longitudinal section of

an electrical outlet device embodying my invention.

Fig. 2, represents a similar sectional view on a different plane from that on which the section shown in Fig. 1 is taken.

Fig. 3, represents a plan view of the body seen in Fig. 1, with the cap removed.

Fig. 4, represents a plan view of the cap portion of my novel outlet removed from the body.

Fig. 5, represents a perspective view of one of the spring contact members shown in Fig. 1 in detached position.

Referring to the drawings, in which like reference characters indicate like parts, 1 designates an electrical outlet, embodying my invention, comprising a sectional housing having a body member 2, and a cap or closure member 3, composed of suitable insulating material, said body being provided with the parallel blade receiving apertures 4 extending therethrough and symmetrically disposed with respect to the axis thereof, said apertures being adapted to receive and engage the contact blades of an electrical plug or connector (not shown) of any conventional type. Within the apertures 4 are disposed the spring contact members 5, which are composed of the body portion 7 which terminates at its front end in the deflected, inclined spring blade 8, and which has the deflected rear end portion 9 which terminates in the angularly disposed contact members (or limbs) 10 and 11 and the offset tongue or contact member 12, which are adapted to seat within the recesses 13 in the cap portion 3. The body 2 is secured to the cap 3 by means of the screws or their equivalents 14, which are adapted to engage the threaded bushings 15, embedded in the cap member 2. When the screws 14 are tightened to clamp the cap 3 against the body 2, the spring contacts or tongues 12 are pressed or clamped towards the spring contacts or limbs 10 and 11, thereby tightly clamping the divided portions 16 of a duplex electric conductor inserted therebetween, as will be best understood from Figs. 1 and 3, thereby eliminating the necessity of providing binding posts or their equivalent, to which the electrical conductors

16 have heretofore been secured by winding or otherwise. The spring contacts 5 with their contact members 10, 11, and 12 thus confined or clamped between the body 2 and the cap or closure 3, are further retained in position by the shoulders 17 formed near the outer ends of the apertures 4 and engaging the front ends of the contacts 5 at the junction of the spring blades 8 with the body 7, as will be best understood from Fig. 1.

18 designates a centrally disposed screw or nail the head 19 of which is embedded or otherwise secured in the cap 3, whereby the device may be secured to a wall or other support, by driving said screw 18, nail or the like, into such support. To facilitate the driving of the screw 18, nail or the like, into the support and to relieve the body 2 and cap 3 of all strain due to pressure in driving a screw or to hammering in driving a nail, I provide the through opening 20 extending through the cap 3, through which a screw driver or a nail set (not shown) may be inserted to engage and actuate the screw 18, nail or the like. It is to be understood, however, that the nail or screw 18 need not necessarily be embedded in the body portion 2, and that the same may be inserted from without the aperture 20, and driven into the support, with the head 19 thereof engaging the countersunk seat 21 formed in the outer portion of the cap 3 at the outer end of the aperture 20. The body 2 is provided with shallow recesses or seats 22 on the face thereof juxtaposed to the cap 3, said recesses corresponding to and registering with the seats or recesses 13 in the cap 3 to accommodate the spring contacts 10, 11, and 12 when the device is assembled, as will be understood from Fig. 4.

In assembling my novel device the divided wires 16 of a duplex cord or electrical conductor are first inserted between the tongues or offset contacts 12 and the juxtaposed contacts 10 and 11 of the spring contacts 5. The body 2 and cap 3 are then clamped together by the screws 14, and the entire outlet is then readily secured to the desired point or support by means of the centrally disposed nail or screw 18 which, as stated, may have its head 19 embedded in the cap 3, as seen in Figs. 1 and 2, or it may be inserted through the aperture 20, with the head 19 thereof engaging the countersunk seat 21 formed at the outer end of the aperture 20. When the body 2 and cap 3 are assembled by tightening the screws 14, it will be apparent that the contacts 5 are immovably held in position and prevented from shifting by the shoulders 17 seen in Fig. 1, and the pressure of the cap 3 upon the bent tongues 12, which tightly engage the divided conductor limbs 16.

The recesses 23 in the body 2 for the conductor wires are preferably angularly disposed to the fastening screws 14 so as to clear

the latter, as will be understood from Fig. 3.

It will thus be seen that I have devised a novel outlet which is durable and inexpensive to produce and one which may be assembled and secured to a support with a minimum of skill, time, and effort.

I am aware that the invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof, and I therefore desire the present embodiment to be considered in all respects as illustrative and not restrictive, reference being had to the appended claim rather than to the foregoing description to indicate the scope of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is:

An electrical outlet device of the character stated, comprising a body and cap, longitudinally extending means for securing said cap and body together, there being spaced blade receiving apertures extending through said body, a centrally disposed mounting screw carried by and projecting from said cap and adapted to engage an external support, there being an aperture in said body having a countersunk seat registering with the head of said screw for the insertion of a tool for actuating said screw, and there being aligning recesses in the juxtaposed faces of said body and cap, arranged at an angle to said fastening means, said body having recesses arranged angularly to said longitudinal securing means for the reception of a conductor, spring contacts disposed within said blade receiving apertures, and shoulders formed in the outer portions of said blade receiving apertures for engaging the outer ends of said contacts, the inner portions of the latter being deflected outwardly and formed into juxtaposed, offset outer and central tongues positioned in the recesses in said cap and adapted to receive the divided members of an electrical conductor therebetween, said central tongues being clamped upon said divided conductor members when said body and cap members are assembled, whereby said contacts are prevented from longitudinal displacement.

HAROLD E. SLADE.