Nov. 10, 1936. L. R. LANDERS 2,060,761

ELECTRICAL CONNECTER

Filed April 19, 1935

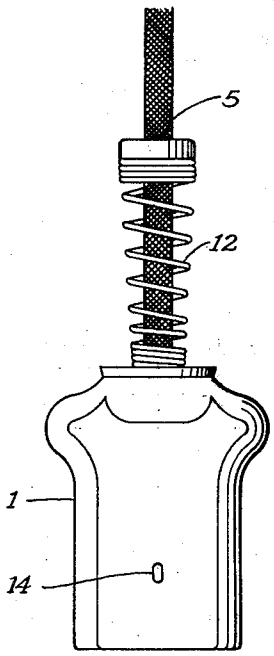


Fig. 1.

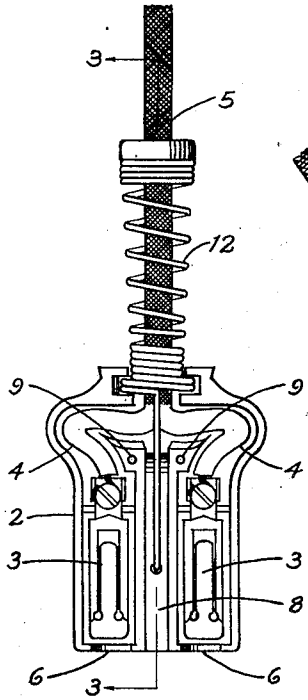


Fig. 2.

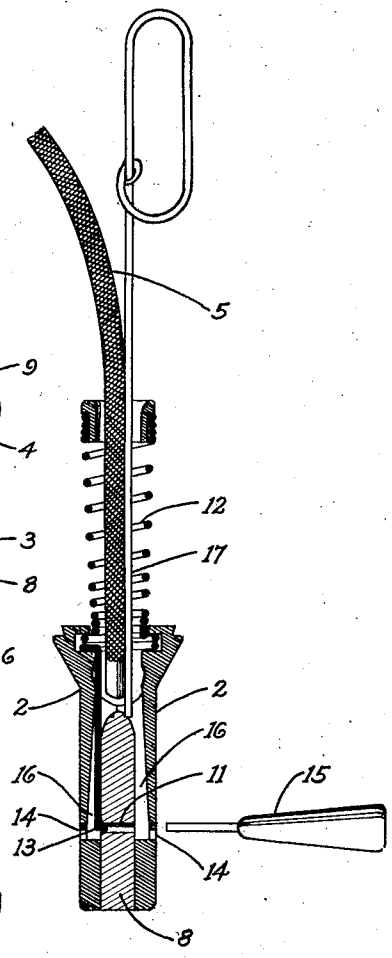


Fig. 3.

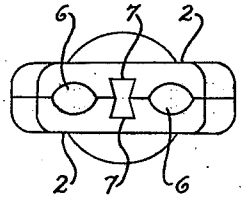


Fig. 4.

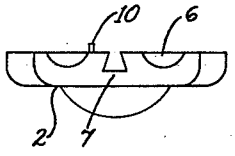


Fig. 5.

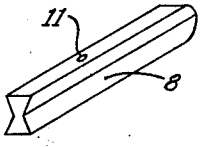


Fig. 6.

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ELECTRICAL CONNECTER

Lawson R. Landers, Houston, Tex.

Application April 19, 1935, Serial No. 17,223

1 Claim. (Cl. 173—332)

This invention relates to an electrical connecter whereby an electrical connection may be readily made or broken.

The prime object of the invention is to provide novel means whereby the sections of the shell, or housing, enclosing the contacts may be securely held together when in use, or separated for access to the interior of the housing, or shell.

With the above and other objects in view, the invention has particular relation to certain novel features of construction, arrangement of parts, and use, an example of which is given in this specification and illustrated in the accompanying drawing, wherein:

Figure 1 shows a side view of the connecter.

Figure 2 shows an interior view of the connecter, one section of the shell, or housing, being removed.

Figure 3 shows a sectional view of the assembled connecter taken on the line 3—3 of Figure 2.

Figure 4 shows an end view of the assembled connecter.

Figure 5 shows an end view of one section of the shell, or housing, and

Figure 6 shows a perspective view of the key employed.

In the drawing, the numeral 1 designates the shell, or housing, as a whole, which is composed of similar sections 2, 2, which are complementary and adapted to be fitted together to enclose the electrical connections therein. In the housing are the contacts 3, 3, with which the wiring 4, 4, of the appliance cord 5 is connected. The free end of the housing has the openings 6, 6, to receive the connecting posts which are to be brought into electrical contact with the contacts 3.

The facing sides of the sections 2 have the dove-tailed groves 7, 7, to receive the key 8 which is shaped to dove-tail into said grooves, whereby the sections are fastened securely together. At the present time, the sections of a connecter of this character are usually maintained together by bolts and nuts, or by spring clips, which are liable to become loose and drop out and become lost, or, more dangerously, are liable to fall upon the connecting posts of appliances while they are in use, thereby causing a "short" circuit.

The facing sides of the sections 2, 2, also have the aligned recesses 9, 9, into either two of which a removable pin, such as 10, may be inserted at the time the facing sides of the sections 2, 2, are brought together, thus preventing any sliding of the sections 2, 2, when the key 8 is in place in the dove-tailed grooves 7. The key 8 has an opening 11 therethrough and the applance cord has a coil spring 12 therearound, adjacent the connecter, whose end is extended inwardly into the shell, or housing, and is overturned forming the catch 13 which engages in the opening 11 of the key to secure the key in place. The sections 2, 2, will thus be firmly and securely locked together.

The sections 2, 2, have the aligned, elongated openings 14, 14, which also align with the opening 11, and when it is desired to remove the key to separate the sections, an implement, such as 15, may be inserted through one of the openings 14, and through the opening 11, and the catch 13 depressed outwardly clear of the key into the channels 16, 16, of the dove-tailed grooves 7, and another implement, as 17, may then be inserted into the shell, or housing, against the inner end of the key, and the key forced outwardly one-half the length of the elongated openings 14 so as to carry the opening 11 out of alignment with the catch 13, and the implement 15 may then be removed and the key 8 forced on out so that the sections may be separated for repairs, or other desired purposes.

The drawing and description disclose what is now considered to be a preferred form of the invention by way of illustration only, while the broad principle of the invention will be defined by the appended claim.

What I claim is:

A connecter formed of complemental sections adapted to fit together to form a housing, a key between said sections, said sections and the key being provided with dove-tailed mortise and tenon connections whereby said sections are held together, said key having an opening therethrough, a yieldable catch within the housing and engageable in said openings to maintain the key against displacement said connecter having a catch receiving space within the housing and aligned with the catch to permit retraction of the catch.

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