March 1, 1938. G. GORT 2,109,616

PARKWAY CABLE OUTLET

Filed Dec. 1, 1936

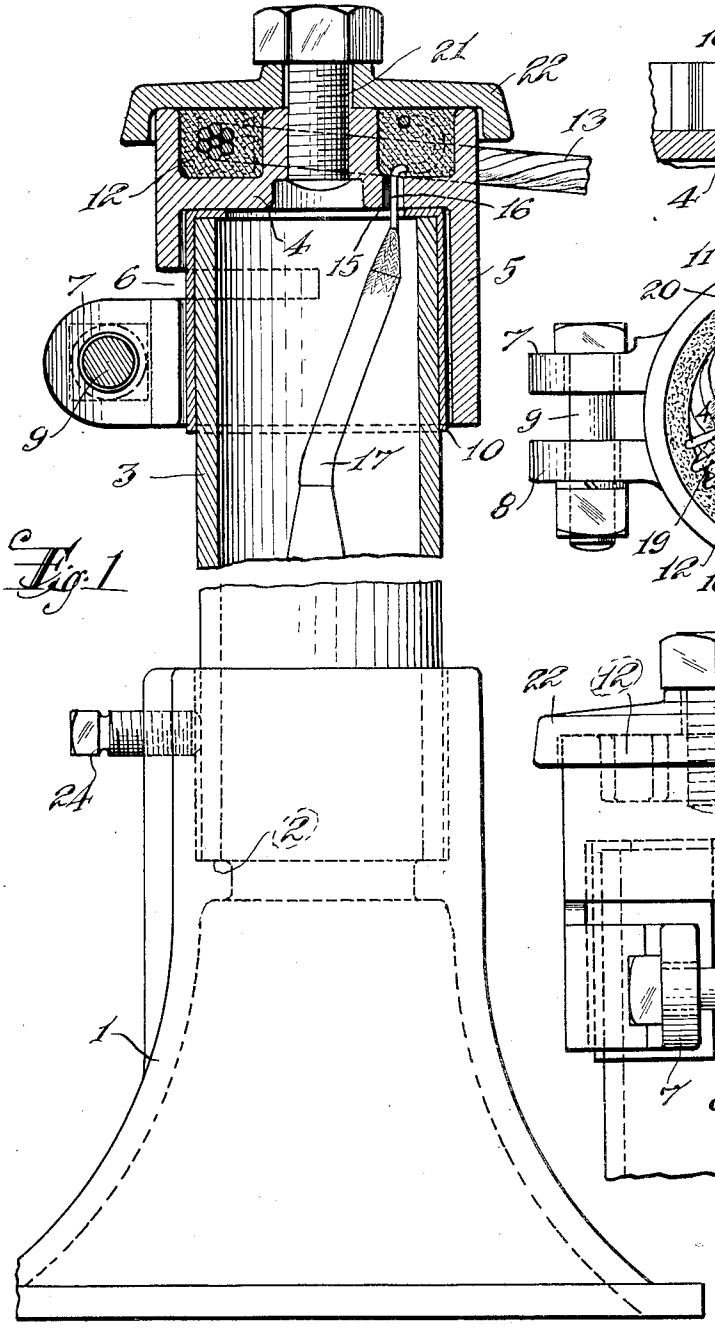


Fig. 1

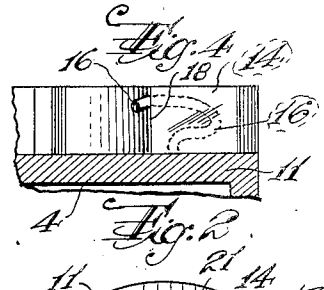


Fig. 2

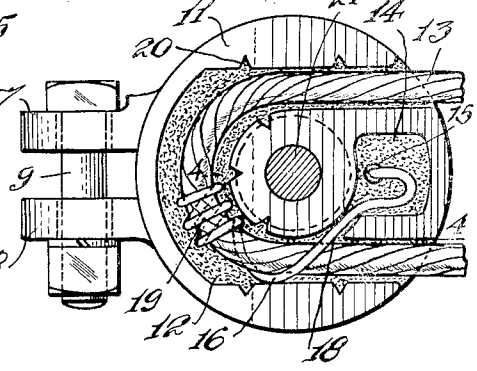


Fig. 4

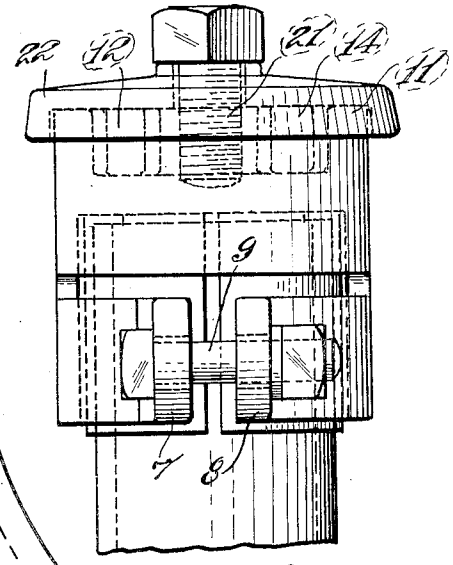


Fig. 3

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PARKWAY CABLE OUTLET

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Application December 1, 1936, Serial No. 113,575

5 Claims. (Cl. 247—1)

This invention relates to a simplified form of "bootleg", which is a term generally applied to the structure for making electrical connections with a parkway cable used with railway signal track circuits. In such devices the parkway cable is brought up through the bootleg and connections made thereto by suitable fittings at the top of the bootleg, to the bond wires running to the track.

The principal object of this invention is to simplify and reduce the number of parts, thereby reducing the cost of such a device.

Other and further objects will appear from a reading of the specification, taken in connection with the annexed drawing, wherein:

Figure 1 is a view, partly in section and partly in elevation, of one form of my improved cable outlet or bootleg.

Figure 2 is a plan view of the top of the fitting, with the cover removed.

Figure 3 is an elevational view of the top part of the bootleg, looking from left to right of Figure 1, a slight change being indicated in one of the details.

Figure 4 is a view on the line 4—4 of Figure 2.

In the drawing, wherein like numbers refer to corresponding parts in the various views, 1 is a base having a seat portion 2 for receiving an outlet pipe or standard 3 which is clamped to the base 1 in any satisfactory manner as by set screws 24. While I have shown one particular form of base, this may be varied to suit the conditions surrounding the installation of the bootleg.

Mounted on the top part of the pipe or standard 3, is a fitting 11 having a plate portion 4 and a downwardly extending flange 5, which has a cross-slot 6 therein and separated lugs 7 and 8 having holes therein to receive a clamping bolt 9 to clamp the fitting in a suitable arcuately adjustable position on the standard 3. The fitting 11 is insulated from the pipe by an insulator 10 which may be in one or more pieces, but as indicated, it is shown as one piece. The top or outer face of the fitting 11 has a loop-shaped recess 12 therein to receive a bond wire 13 which, as shown in Figure 2, lies within the loop.

Between the ends of the loop, there is another or auxiliary chamber 14 having a hole 15 passing through into the orifice of the standard 3. This hole is to receive the wire or conductor 16 of the parkway cable 17. The side wall of the chamber 14 is cut away at 18 to allow the cable wire 16 to be brought out into the looped recess 12, where it is wound around the bond wire 13 as indicated at 19. After the wire 16 has been wound around the bond wire 13, they are put into position within the recess 12 and the entire recess is filled with hot solder or an equivalent conducting material which will anchor the bond wire and the parkway cable wire securely to the fitting 11, thereby completing both mechanical and electrical connections between these parts.

If desired, certain indentations 20 may be made in the walls of the recess on both sides to lock the solder or equivalent material securely in place.

The central portion of the fitting 11, within the boundary of the recess, is provided with a tapped hole to receive a screw stud 21 that serves the purpose of holding a cover or cap 22 over the fitting 11. The stud 21, as shown in Figure 1, may go all the way through the plate portion 4, but as indicated in Figure 3, may stop short of through passage so that the only hole through the plate portion 4 will be the hole 15 for the wire 16. The auxiliary chamber 14 may not necessarily be filled with a molten metal, but with a sealing compound to seal up the hole 15 and render the bootleg moisture-proof. This is especially true where the hole for the screw stud 21 does not go all the way through the plate 4. Instead of bringing the wire 16 upwardly into a separate chamber 14, it may be brought up directly into the looped recess, as the hole around the wire may be securely packed with insulating material before the solder or equivalent material is applied to the recess.

What I claim is:

1. A parkway cable outlet including a standard through which the cable is brought, a fitting insulatingly mounted on the upper end of the standard, said fitting having an inner face extending across the end of the standard, and an outer threaded centrally located part, a loop-shaped recess surrounding said portion having the threads, said fitting having an auxiliary chamber located between the ends of said loop with a hole in the bottom thereof to receive the wire of said cable, said chamber having an opening in its side wall so the cable wire can be brought into the loop recess for connection to an outgoing bond wire located in said loop recess, and a cover held to said fitting by a cap screw engaging the threads of said threaded portion.

2. A parkway cable outlet including a standard through which the cable is brought, a fitting insulatingly mounted on the upper end of the standard, said fitting having on its outer side an

internally threaded portion and a loop-shaped recess in spaced relation extending nearly around the threaded portion, an auxiliary chamber between the ends of the loop and having a hole in its bottom wall opening into the standard for the cable wire, the chamber having an opening in its side wall through which the cable wire may pass into the loop recess for connection to a bond wire located within the loop, and a cover held to said fitting by a cap screw engaging the threads of said threaded portion.

3. A parkway cable outlet as defined in claim 2, characterized in that the loop-shaped recess and auxiliary chamber are of dimensions such that a quantity of solder may be poured into the recess of said chamber after the bond wire and cable wire have been put in place to anchor both securely to the fitting.

4. A parkway cable outlet as defined in claim 2, characterized in that the cable wire hole is the only hole through the top of the fitting, and further characterized in that means are provided for securely anchoring the cable wire and the bond wire within the said loop-shaped recess.

5. A parkway cable outlet including a standard through which the cable is brought, a fitting adjustably and insulatingly mounted on the upper end of the standard, said fitting, having a centrally located threaded portion on the outer face to receive a cover cap screw, an annular type recess around the greater part of the threaded portion and of a size to receive means for holding a bond and cable wire wholly therein, a cable-wire hole through the fitting with means for bringing the wire into said recess for union with a bond wire located in said recess, and means adapted to be applied to and within the recess after the bond and cable wires are in place therein to anchor said wires together and to said fitting, and a cover held to the fitting by a cap screw adapted to be applied to said threaded portion.

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