

Title (en)
ASSEMBLY COMPRISING A COUPLING PART AND AN ELECTRIC LINE

Title (de)
ANORDNUNG UMFASSEND EIN KUPPLUNGSTEIL UND EINE ELEKTRISCHE LEITUNG

Title (fr)
ENSEMBLE COMPRENANT UN CONNECTEUR ET UN CABLE ELECTRIQUE

Publication
EP 3109953 B1 20190612 (DE)

Application
EP 15305987 A 20150625

Priority
EP 15305987 A 20150625

Abstract (en)
[origin: US2016380379A1] A coupling part for an electrical line (1) is indicated. The electrical line has at least two wires (2, 3) consisting of insulated electrical conductors and one jacket (4) of insulation material surrounding the wires jointly. The coupling part has an insulator (5) having a receiving side and an oppositely lying plug-in side and throughholes (7, 8), in which are arranged insulated electrical contact elements (9, 10) relative to each other, to which in the mounted position the electrical conductors of the line (1) are connected on the receiving side of the insulator (5). A surrounding prefabricated housing (6) composed of insulation material is mounted over the connecting point of the conductors and contact elements, so that on the one side it stretches up to and over the insulator (5) and on the other side up to and over the line (1). The inner space of the housing, in the area of the line (1) extending into the housing (6), up until the insulator (5), is completely filled with a thermoplastic glue on the basis of polyamide which adheres tightly and moisture-proof on the enclosed wires (2, 3) of the line (1) and the housing (6) of the coupling part, as well as on the jacket (4) of the protruding line (1) in the housing (6), and which also rests as a type of bulge (12) against the housing (6). The wires (2, 3) of the line (1) extending into the throughholes of the insulator are each surrounded by a seal which lies tightly to the wires on one side and the walls of the throughholes on the other side.

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