

Title (en)

ELECTRICAL CONNECTION BETWEEN AN ELECTRIC CONDUCTOR AND A CONTACT ELEMENT, METHOD AND DEVICE FOR ITS MANUFACTURE

Title (de)

ELEKTRISCHE VERBINDUNG ZWISCHEN EINEM ELEKTRISCHEN LEITER UND EINEM KONTAKTELEMENT, VERFAHREN UND VORRICHTUNG ZU SEINER HERSTELLUNG

Title (fr)

RACCORDEMENT ÉLECTRIQUE ENTRE UN CONDUCTEUR ÉLECTRIQUE ET UN ÉLÉMENT DE CONTACT, PROCÉDÉ ET DISPOSITIF POUR SA FABRICATION

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Application

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Priority

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Abstract (en)

[origin: WO2021001434A1] The invention relates to a method for producing an electrical connection between an electrical conductor (5), which comprises a plurality of individual wires (9), and a contact element (2), wherein: the electrical conductor (5) is arranged in a contact portion (4) of the contact element (2), and the contact portion (4) and the electrical conductor (5) are subsequently pressed together such that the contact portion (4) surrounds the electrical conductor (5); a plurality of mutually spaced elongate welded connections (14) between the contact portion (4) and the electrical conductor (5) are produced by means of laser irradiation of the contact portion (4), or by means of laser irradiation of the electrical conductor (5) through an opening (17) in the contact portion (4); the elongate welded connections (14) extend in an irradiation direction from an irradiated region (13) of the contact portion (4), or from an irradiated region (13) of the electrical conductor (5), through the entire cross section of the pressed electrical conductor (5) to a region of the contact portion (4) opposite the irradiated region (13), such that the electrical conductor (5) is connected to said region of the contact portion (4); and the irradiated regions (13) are arranged in the form of a grid.

IPC 8 full level

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