Title (en)

CONNECTOR AND SOCKET FOR ALUMINIUM POWER CABLE AND ALUMINIUM POWER CABLE WITH A CONNECTOR OR A SOCKET

Title (de)

STECKER UND BUCHSE FÜR ALUMINIUM-ENERGIEKABEL SOWIE ALUMINIUM-ENERGIEKABEL MIT EINEM STECKER BZW. EINER BUCHSE

Title (fr)

CONNECTEUR ET PRISE POUR CÂBLES D'ÉNERGIE D'ALUMINIUM AINSI QUE CÂBLE D'ÉNERGIE D'ALUMINIUM DOTÉ D'UN CONNECTEUR OU D'UNE PRISE

Publication

EP 3883064 B1 20240221 (DE)

Application

EP 20169719 A 20200415

Priority

EP 20305283 A 20200318

Abstract (en)

[origin: WO2021185863A1] An electrical connecting arrangement (10) for stranded aluminium conductors comprises a plug (100) and a socket (200). The plug (100) and the socket (200) have a pressing region (102, 202) which is composed of aluminium and which is designed to receive stranded wires of the stranded aluminium conductor. The pressing region (102) of the plug (100) is electrically conductively connected to a contact pin (104) that can be inserted into a corresponding hole in a socket. The pressing region (202) of the socket (200) is electrically conductively connected to a receiving region (208) in which a hole (204) that receives a contact pin of a plug is arranged. An electrically conductive ring (106, 206) with structures that protrude in an elastically deformable (and resilient) manner outward beyond the diameter of the contact pin (104), or with structures that project in an elastically deformable manner inward into the diameter of the hole (206), is arranged on the contact pin (104) of the plug (100) or in the hole (204) in the socket (200) respectively.

IPC 8 full level

H01R 13/17 (2006.01); **H01R 4/62** (2006.01); **H01R 13/187** (2006.01); H01R 4/18 (2006.01)

CPC (source: EP)

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