

Title (en)

CONNECTION OF ELECTRICAL LINES BY MEANS OF ULTRASONIC WELDING

Title (de)

VERBINDUNG VON ELEKTRISCHEN LEITUNGEN MITTELS ULTRASCHALLSCHWEISSEN

Title (fr)

LIAISON DE LIGNES ÉLECTRIQUES PAR SOUDAGE PAR ULTRASONS

Publication

EP 2349632 A1 20110803 (DE)

Application

EP 09745027 A 20091029

Priority

- EP 2009064252 W 20091029
- DE 102008058047 A 20081118

Abstract (en)

[origin: WO2010057753A1] The invention relates to a connection of electrical lines using a connection cable 2 composed of aluminum stranded wires 4 and a metallic connection part 6. Contact corrosion is avoided during welding in such a way that the connection cable 2 is connected to the connection part 6 by means of ultrasonic welding with material flow in such a way that a sealant 8 forced between the connection cable 2 and the connection part 6 during the ultrasonic welding is located between the aluminum stranded wires 4.

IPC 8 full level

B23K 20/10 (2006.01); **H01R 4/02** (2006.01); **H01R 4/62** (2006.01)

CPC (source: EP US)

B23K 20/10 (2013.01 - EP US); **H01R 4/625** (2013.01 - EP US); **H01R 43/0207** (2013.01 - EP US); **B23K 2101/006** (2018.07 - EP US); **B23K 2101/36** (2018.07 - EP US); **B23K 2103/20** (2018.07 - EP US); **Y10T 29/49213** (2015.01 - EP US)

Citation (search report)

See references of WO 2010057753A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 102008058047 A1 20100520; **DE 102008058047 B4 20131107**; CN 102216021 A 20111012; CN 102216021 B 20151007; EP 2349632 A1 20110803; US 2011220385 A1 20110915; WO 2010057753 A1 20100527

DOCDB simple family (application)

DE 102008058047 A 20081118; CN 200980146140 A 20091029; EP 09745027 A 20091029; EP 2009064252 W 20091029; US 200913128284 A 20091029