

Title (en)
LOW VOLTAGE ELECTRIFICATION TRACK SYSTEM

Title (de)
NIEDERSPANNUNGSELEKTRIFIZIERUNGSGLEISSYSTEM

Title (fr)
SYSTÈME DE PISTE D'ÉLECTRIFICATION BASSE TENSION

Publication
EP 3675291 B1 20220608 (EN)

Application
EP 19217522 A 20191218

Priority
CN 201811618665 A 20181227

Abstract (en)
[origin: EP3675291A1] The invention discloses a track system for low voltage power supply, comprising a power transmission track, an electrical plug configured to be detachably connected to the power transmission track, wherein a surface of the power transmission track is provided with a first conductive bar, the electrical plug is provided with a second conductive bar which is contacted with the first conductive bar when the electrical plug is connected to the power transmission track for low voltage power supply. According to the invention, surfaces of the first conductive bar and of the second conductive bar are wrapped with a conductive elastomer. The conductive elastomer on the second conductive bar squeezes to contact with the conductive elastomer on the first conductive bar when the electrical plug is connected to the power transmission track, wherein the portions of the conductive elastomer that are squeezed due to their mutual contact when the electrical plug is connected to the power transmission track take a reduced electric resistance value to form a conductive contact portion for low voltage power supply. The invention has the advantages of expanding the applicable range of the track system, good safety performance and high power transmission efficiency.

IPC 8 full level
H01R 25/14 (2006.01); **H01R 13/24** (2006.01)

CPC (source: EP)
H01R 13/2414 (2013.01); **H01R 25/142** (2013.01); **H01R 25/147** (2013.01)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3675291 A1 20200701; **EP 3675291 B1 20220608**; CN 109921245 A 20190621

DOCDB simple family (application)
EP 19217522 A 20191218; CN 201811618665 A 20181227