

Title (en)

LOW VOLTAGE ELECTRIFICATION TRACK SYSTEM

Title (de)

NIEDERSpannungSELEKTRIFIZIERUNGSGLEISSYSTEM

Title (fr)

SYSTÈME DE PISTE D'ÉLECTRIFICATION BASSE TENSION

Publication

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Application

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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.

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