

Title (en)
SURFACE LEAKAGE ROBUST SECTION INSULATOR

Title (de)
OBERFLÄCHENLECKROBUSTER STRECKENTRENNER

Title (fr)
ISOLATEUR DE SECTION RÉSISTANT AUX FUITES DE SURFACE

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Application
EP 19705822 A 20190115

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Abstract (en)
[origin: WO2019142098A1] The invention relates to a Section insulator (19) for separating a first current rail section (20) from a second current rail section (21) that extend in a driving direction (1) of a train comprising: - an insulation body (26) extending in the driving direction (1), in a cross direction (11) perpendicular to the driving direction (1) and in a height direction (9) perpendicular to the cross direction (11) and the driving direction (1), - a first connection interface (40, 41) located seen in the driving direction (1) at the beginning (38) of the insulation body (26) for connecting the insulation body (26) to the first current rail (20), - a second connection interface (41) located seen in the driving direction (1) at the end (39) of the insulation body (26) for connecting the insulation body (26) to the second current rail (21), - a contact surface (48) that is seen in the height direction (9) located at the bottom side (42) of the insulation body (26) for supporting a pantograph (30) of the train, - a first insulation body side wall (51) that defines a border of the insulation body (26) at one side in the cross direction (11), - a second insulation body side wall (52) that defines the border of the insulation body (26) seen in the cross direction (11) opposite to the first insulation body side wall (51), - a number of grooves (50) of more than ten that are formed at the contact surface (48) into the insulation body (26) having a groove course (23) running from the first insulation body side wall (51) to the second insulation body side wall (52), wherein the groove course (23) has an inclination angle (54) to the driving direction (1) that is higher than 140° but lower than 180° at at least on one of the first insulation body side wall (51) and the second insulation body side wall (52), and wherein the groove walls (55) in the grooves (50) that are aligned to the front side (38) of the insulation body (26) seen in driving direction (11) include a scraping edge (57) at the contact surface (48).

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