

Title (en)

CONTACT LINE SYSTEM FOR TRACTION SUPPLY OF AN ELECTRICAL TRACTIVE VEHICLE

Title (de)

FAHRLEITUNGSANLAGE ZUR TRAKTIONSVERSORGUNG EINES ELEKTRISCHEN TRIEBFAHRZEUGES

Title (fr)

INSTALLATION DE CATÉNAIRE DESTINÉE À ALIMENTER EN TRACTION UN VÉHICULE MOTEUR ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2013045242A2] The invention relates to a contact line system (1) for traction supply of an electrical tractive vehicle (11). It comprises a contact line (4) which can be contacted by a current consumer (12) of the tractive vehicle (11) for energy transmission. It further comprises a central substation (3) for converting a supply voltage into a contact line voltage which is electrically connected to the contact line (11) via a section exit (5) for supplying of energy. It further comprises a protection device for interrupting the energy supply upon recognizing a failure which has a central measurement device (7) for measuring a parameter in the section exit (5) and an evaluation device (8) for recognizing a failure by evaluating a parameter measurement value. According to the invention, the protection device has decentrally arranged measurement units (9) for detecting parameters (I, F, S) outside of the substation (3) and a data transmission system (10) for transmitting parameter measurement values from the decentralized measurement units (9) to the evaluation device (8). The evaluation device (8) is designed to also evaluate the decentrally detected parameter measurement values for failure recognition. According to the invention, the availability of the contact line system (1) according to the invention is increased even when the contact line (4) of a supply section is traveled by multiple, in particular feedback-capable tractive vehicles (11).

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