

Title (en)
METHOD, SYSTEM AND VEHICLE FOR LOCALIZING DEFECTIVE PARTS OF POWER SUPPLY SYSTEMS IN RAILWAYS APPLICATIONS

Title (de)
VERFAHREN, SYSTEM UND FAHRZEUG ZUR LOKALISIERUNG DEFEKTER TEILE VON ENERGIEVERSORGUNGSSYSTEMEN IN SCHIENENANWENDUNGEN

Title (fr)
PROCÉDÉ, SYSTÈME ET VÉHICULE PERMETTANT DE LOCALISER DES PIÈCES DÉFECTUEUSES DE SYSTÈMES D'ALIMENTATION DANS DES APPLICATIONS FERROVIAIRES

Publication
EP 3718853 A1 20201007 (EN)

Application
EP 20166170 A 20200327

Priority
IN 201941012287 A 20190328

Abstract (en)
A method (100) and system (200) for localizing defective parts of a power system (10) suitable for supplying railway vehicles, which power system (10) comprises a main power-carrying conductor (11) and an associated current collector equipment (12). The actual position (P) of a vehicle (2) travelling along a railway line is tracked and values ($V_{_{I,V}}$) related to a first parameter (I, V) indicative of an actual operative status of the main power-carrying conductor (11) and values ($V_{_F}$) related to a second parameter (F) indicative of an actual operative status of the current collector equipment (12) are first calculated and then compared with a first predefined threshold ($Th_{_{i,v}}$) and with a second predefined threshold ($T_{_F}$), respectively, during a first predetermined interval of time ($T_{₁}$) and a following second predetermined interval of time ($T_{₂}$). Depending on the results of the comparison, the method and system are able to localize and discriminate if a defective part is present on the power-carrying conductor (11) or on the current collector equipment (12) and to generate a corresponding alarm signal for maintenance.

IPC 8 full level
B61L 15/00 (2006.01); **B61L 25/02** (2006.01)

CPC (source: EP)
B61L 15/0081 (2013.01); **B61L 25/025** (2013.01); **B61L 25/026** (2013.01)

Citation (search report)

- [XYI] WO 2005044614 A1 20050519 - MORGANITE ELECT CARBON [GB], et al
- [Y] DE 102014226694 A1 20151231 - SIEMENS AG [DE]
- [YA] EP 3165398 A1 20170510 - ALSTOM TRANSP TECH [FR]

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WO2023168935A1

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

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