

Title (en)

APPARATUS FOR MEASURING IMPEDANCE OF TROLLEY LINE AND METHOD OF LOCATING FAULT USING THE SAME

Title (de)

VORRICHTUNG ZUR MESSUNG DER IMPEDANZ EINER HÄNGELEITUNG UND VERFAHREN ZUM FINDEN EINES FEHLERS UNTER VERWENDUNG DIESER

Title (fr)

APPAREIL POUR MESURER L'IMPÉDANCE D'UNE LIGNE DE TROLLEY ET PROCÉDÉ POUR LOCALISER UN DÉFAUT AU MOYEN DUDIT APPAREIL

Publication

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Application

EP 07745871 A 20070409

Priority

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Abstract (en)

[origin: WO2008035841A1] The present invention provides an apparatus for measuring the impedance of a trolley catenary. The apparatus is mounted on a crossing which includes a pantagraph connected to a trolley line and a ground part connected through a rail and which is movable on the rail. The apparatus includes a power analysis unit (P) disposed between the pantagraph and the ground part and adapted to measure a voltage, a current and a power factor; and a current limiter (110) connected in series between a rear end of the power analysis unit and the ground part. As described above, the present invention is advantageous in that it can measure the impedance of a trolley catenary by adjusting an actual fault current, which is currently being activated.

IPC 8 full level

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Citation (search report)

- [A] EP 0555946 A2 19930818 - ELPRO AG [DE]
- [A] JP H08248074 A 19960927 - RAILWAY TECHNICAL RES INST, et al
- [A] JP 2003072431 A 20030312 - TOKAI RYOKAKU TETSUDO KK, et al
- [A] KR 20060018597 A 20060302 - P & C TECHNOLOGIES CO LTD [KR]
- [A] JP H07128374 A 19950519 - MEIDENSHA ELECTRIC MFG CO LTD
- See references of WO 2008035841A1

Cited by

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