

Title (en)

METHOD FOR ESTIMATING THE INSULATION RESISTANCE OF A HIGH-VOLTAGE CIRCUIT IN AN ELECTRIC OR HYBRID MOTOR VEHICLE

Title (de)

VERFAHREN ZUR SCHÄTZUNG DES ISOLATIONSWIDERSTANDES EINER HOCHSPANNUNGSSCHALTUNG IN EINEM ELEKTRISCHEN ODER HYBRIDEN KRAFTFAHRZEUG

Title (fr)

PROCÉDÉ D'ESTIMATION DE LA RÉSISTANCE D'ISOLEMENT D'UN CIRCUIT HAUTE TENSION D'UN VÉHICULE AUTOMOBILE ÉLECTRIQUE OU HYBRIDE

Publication

EP 4038398 A1 20220810 (FR)

Application

EP 20772311 A 20200921

Priority

- FR 1910786 A 20190930
- EP 2020076319 W 20200921

Abstract (en)

[origin: WO2021063725A1] Method for determining an insulation resistance of the high-voltage network in an electric or hybrid vehicle, wherein a controllable continuous voltage source connected to the body and to a single first terminal of a high-voltage battery of the vehicle is provided, a first resistor being connected in series to the source between the single first terminal and the body and a second resistor being connected in series between the first resistor and the source, consecutive voltage setpoint values are applied between the body and the single first terminal, a measurement signal of the voltage at the terminals of the second resistor is acquired for each setpoint value, adaptive filtering of said signal is carried out and an estimate made, in a recursive manner, of a vector of the filter transfer function coefficients, providing an update of the filtering coefficients, the insulation resistance being determined on the basis of the estimate.

IPC 8 full level

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