

Title (en)

METHOD OF CONTROLLING A DEVICE FOR REGULATING AN AUTOMOTIVE VEHICLE ALTERNATOR, CORRESPONDING REGULATING DEVICE AND ALTERNATOR

Title (de)

VERFAHREN ZUR STEUERUNG EINER VORRICHTUNG ZUR REGELUNG EINER LICHTMASCHINE EINES KRAFTFAHRZEUGS, ENTSPRECHENDE REGELUNGSVORRICHTUNG UND LICHTMASCHINE

Title (fr)

PROCÉDÉ DE CONTRÔLE D'UN DISPOSITIF DE RÉGULATION D'UN ALTERNATEUR DE VÉHICULE AUTOMOBILE, DISPOSITIF DE RÉGULATION ET ALTERNATEUR CORRESPONDANTS

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Application

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Abstract (en)

[origin: WO2016097531A1] The method of control according to the invention slaves a DC voltage (B + A) generated by the alternator to a predetermined setpoint value by controlling an excitation current (ID) flowing in an excitation circuit (3, 6) comprising an excitation winding (6) of a rotor of the alternator. The excitation current (ID) is controlled by means of a semiconductor switch (3) controlled by a control signal (VGS) having a predetermined period. The method is of the type of those comprising a detection of a failure of the excitation circuit. In accordance with the invention, at least one short-circuit of the excitation winding is detected (Th_HEXCCD). According to another characteristic of the method, the control signal is generated on the basis of a combination (EXC_DR) of a setpoint signal (EXC) formed by pulses of the predetermined period exhibiting a duty ratio representative of the setpoint value and of a detection signal (Th_HEXCCD) indicative of the short-circuit.

IPC 8 full level

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Citation (search report)

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