Title (en)

A VOLTAGE REGULATOR FOR ALTERNATORS, PARTICULARLY FOR MOTOR VEHICLES

Title (de)

SPANNUNGSREGLER FÜR DREHSTROMGENERATOREN, INSBESONDERE FÜR FAHRZEUGEN

Title (fr)

REGULATEUR DE TENSION POUR DES ALTERNATEURS, EN PARTICULIER, POUR DES VEHICULES A MOTEUR

Publication

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Application

EP 98916957 A 19980316

Priority

- EP 9801509 W 19980316
- IT TO970225 A 19970318

Abstract (en)

[origin: WO9842069A1] The voltage regulator (VR) comprises an electronic control unit (ECU) connected to a circuit (11) for detecting a controlled voltage and to a circuit (12) for driving the field winding (3) of the alternator (2). The unit (ECU) is arranged to calculate successive values (E(n)) of an error quantity (E) representative of the difference between a target value (XREF) of the controlled voltage and the instantaneous value (X) of this voltage and to calculate successive values of a control quantity (Y) corresponding to the intensity of the current to be caused to flow in the field winding (3) in dependence on preceding values (Y(n-1); Y(n-2)), of this control quantity (Y) and on the instantaneous and preceding values (E(n), E(n-1)) of the error quantity (E). The current flowing in the field winding (3) of the alternator (2) is controlled in dependence on the values of the error quantity (E) or of the increments of the control quantity (Y).

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