

Title (en)  
DEVICE AND METHOD FOR MANAGING THE ELECTRIC BRAKING OF A VEHICLE

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR VERWALTUNG DER ELEKTRISCHEN BREMSEN EINES FAHRZEUGS

Title (fr)  
DISPOSITIF ET PROCEDE DE GESTION DU FREINAGE ELECTRIQUE D'UN VEHICULE

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Application  
**EP 12719399 A 20120509**

Priority  
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Abstract (en)  
[origin: WO2012156252A2] The invention relates to a device for managing electric braking power (1), which device comprises a continuous bus (10), said continuous bus including: a connection pole (12) connecting to an electric traction machine (21) of a vehicle, said machine being associated with an inverter (20) which, in braking mode, delivers an electric braking power over the continuous bus; a connection pole (13) connecting to an electric power storage battery (30); a dissipation branch (1D) connected at a connection point (11) to the continuous bus, said branch including an electronic dissipation switch (1D1) connected in series with a dissipation resistor (1D2); a current collector (15) on the continuous bus, disposed between the connection point (11) of the continuous bus and the connection pole (13) connecting to a battery; and a controller (18). The device also includes an electronic charge switch (1C1) between the connection point at which the dissipation branch (1D) is connected to the continuous bus (10) and the connection pole connecting to a battery of the continuous bus, said switch controlling the flow of current over the continuous bus from the connection pole connecting to the electric machine to the connection pole connecting to a battery. The controller calculates: the power that can be absorbed by the charge of the battery (30), the power that can be dissipated by the dissipation resistor (1D2), and the power sent over the continuous bus (10) and, when the power sent over the continuous bus (10) is greater than the cumulative power that can be absorbed by the charge of the battery (30) and the dissipation in the dissipation resistor (1D2), said controller (18) opens the electronic charge switch (1C1).

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