

Title (en)
CURRENT CONTROLLER FOR AN INDUCTIVE LOAD IN A VEHICLE

Title (de)
STROMREGLER FÜR EINE INDUKTIVE LAST IN EINEM FAHRZEUG

Title (fr)
REGULATEUR DE COURANT POUR CHARGE INDUCTIVE DANS UN VÉHICULE

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Application
EP 14776882 A 20140929

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Abstract (en)
[origin: WO2015067410A1] The invention relates to a current regulator (1A) for an inductive load (ZL) in a vehicle, comprising an analyzing and control unit (22); at least one circuit breaker (T2) which is looped-in serially to the inductive load (ZL) and which is closed off from the magnetization of the inductive load (ZL); a freewheel arrangement (10A) which causes a demagnetization of the inductive load (ZL) when the circuit breaker (T2) is open; and a measuring device (24) which ascertains a current value of a current (IL) flowing through the inductive load (ZL). According to the invention, the freewheel arrangement (10A) comprises at least one switch (TF1) which allows a switchover between at least two active freewheel voltages on the inductive load (ZL), said analyzing and control unit (22) adjusting the current (IL) flowing through the inductive load (ZL) by means of control signals (GHS, GLS) on the basis of a change of a specified target value, said control signals being applied to the at least one circuit breaker (T2) and the at least one switch (TF1) of the freewheel arrangement (10A).

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