Title (en)

METHOD AND DEVICE FOR CONTROLLING AN ELECTRO-MAGNETIC LOAD

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ANSTEUERUNG EINES ELEKTROMAGNETISCHEN VERBRAUCHERS

Title (fr)

PROCEDE ET DISPOSITIF POUR COMMANDER UN CONSOMMATEUR ELECTROMAGNETIQUE

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Application

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Abstract (en)

[origin: DE19813138A1] The present invention relates to a method and a device for controlling at least one electro-magnetic load, such as a magnetic valve for controlling the fuel injection in an internal combustion engine, using a control circuit that comprises electronic switching elements and at least one booster-capacitor. The control circuit comprises recharging elements (EC) for recharging the booster-capacitor, after a partial or complete discharge thereof, up to a target voltage value that influences the opening rate of the injection valve and thus the injection duration. This invention is characterised in that the recharging elements (EC) are functionally connected with members for detecting at least the speed (n) and the load (L) of the internal combustion engine, and in that they include regulation members (EC) for adjusting the recharging current intensity (ICN) required for obtaining the target voltage value as well as for adjusting the recharging duration (tCN) according to at least the speed value (n) and the load value (L) detected by said detection members.

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