

Title (en)

A voltage-regulator circuit for the electromagnetic driving of the valves of an internal combustion engine

Title (de)

Spannungsregelschaltung für elektromagnetische Hubventilbetätigung in einer Brennkraftmaschine

Title (fr)

Circuit régulateur de tension pour la commande électromagnétique de soupapes de moteur à combustion interne

Publication

**EP 1010867 B1 20040728 (EN)**

Application

**EP 99124310 A 19991206**

Priority

IT TO981027 A 19981209

Abstract (en)

[origin: EP1010867A1] A voltage-regulator circuit for the electromagnetic driving of the valves of an internal combustion engine is described and comprises: an energy-storage capacitor (C) for coupling to a current-recirculation network (14) associated with at least one respective actuating coil (16) for each valve, and a switching current-regulator circuit (10) disposed between a direct-current power supply (12) and the capacitor (C). The voltage-regulator circuit is arranged to operate as a booster of the voltage from the power supply (12) towards the recirculation network (14) and as a reducer of the voltage from the recirculation network (14) towards the power supply (12). <IMAGE>

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**F01L 9/04**

IPC 8 full level

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CPC (source: EP)

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Cited by

US6948461B1; EP1653066A1; CN100376777C; EP1176287A1; FR2812340A1; US7509931B2; US6971346B2; US7540264B2; US7367296B2; WO2004016926A1; US7117852B2; US7054737B2

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