

Title (en)

Method for controlling the armature movement of switching magnets

Title (de)

Verfahren zur Steuerung der Ankerbewegung von Schaltmagneten

Title (fr)

Procédé pour commander le mouvement de l'armature d'aimants de commutation

Publication

EP 0408963 B1 19960327 (DE)

Application

EP 90112572 A 19900702

Priority

DE 3923477 A 19890715

Abstract (en)

[origin: EP0408963A2] In a method for controlling the armature movement of a switching magnet, in particular of electromagnets for actuators of internal-combustion engines, it is intended to reduce considerably the energy and material consumption. This is achieved in that the coil current of the electromagnet is linearly regulated before the expected impact of the magnetic armature on the pole surface. The impact of the magnetic armature on the pole surface of the electromagnet preferably occurs in this case during the linear regulation. <IMAGE>

IPC 1-7

H01F 7/18

IPC 8 full level

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CPC (source: EP)

F01L 9/20 (2021.01); **H01F 7/1844** (2013.01)

Citation (examination)

- WO 9007188 A1 19900628 - BOSCH GMBH ROBERT [DE]
- EP 0310383 A1 19890405 - DIESEL KIKI CO [JP]
- US 4679116 A 19870707 - OSHIZAWA HIDEKAZU [JP], et al

Cited by

KR20150042749A; EP1001142A3; EP0727566A3; US5775276A; GB2279829A; GB2279829B; US9523323B2; WO2013178367A3

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