

Title (en)

Method for starting an electromagnetic valve actuator in an internal combustion engine

Title (de)

Verfahren zur Inbetriebnahme eines elektromagnetischen Aktuators zur Betätigung eines Gaswechselventils an einer Kolbenbrennkraftmaschine

Title (fr)

Procédé de démarrage d'un actionneur de soupape électromagnétique dans un moteur à combustion interne

Publication

EP 1054138 B1 20020814 (DE)

Application

EP 00109582 A 20000505

Priority

DE 19922971 A 19990519

Abstract (en)

[origin: EP1054138A2] The method involves alternately applying a capture current to two electromagnets (3,4) with amplitude regulated depending on detected approach of an armature (5) to at least one pole surface. A reference temperature is detected for the magnets and the armature is stimulated to resonant frequency by alternately supplying current to the electromagnets for normal temperature and applied to a defined pole surface, preferably on the closing side. If a low temperature level exists then one of the electromagnets preferably the closing one, is supplied with a high current pulse.

IPC 1-7

F01L 9/04

IPC 8 full level

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CPC (source: EP US)

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Cited by

FR2969694A1; EP1162349A3; FR2853002A1; EP1219790A1; EP1231360A3; US6474620B2; WO2012085484A1; EP1076163B1

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