

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 A3 20010207 (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.

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F01L 9/04

IPC 8 full level
F01L 9/20 (2021.01); **F01L 13/00** (2006.01); **F02D 13/02** (2006.01); **F16K 31/06** (2006.01); **F16K 37/00** (2006.01)

CPC (source: EP US)
F01L 9/20 (2021.01 - EP US)

Citation (search report)

- [A] DE 19736137 C1 19981001 - DAIMLER BENZ AG [DE]
- [A] DE 19739840 A1 19990318 - DAIMLER BENZ AG [DE]
- [A] US 5799926 A 19980901 - MORIYA TAKASHI [JP], et al
- [A] EP 0724067 A1 19960731 - HONDA MOTOR CO LTD [JP]

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

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