Title (en)

PROCESS AND DEVICE FOR ACTIVATING AN ELECTROMAGNETIC POSITIONER

Publication

EP 0118591 B1 19860226 (DE)

Application

EP 83107878 A 19830809

Priority

DE 3307683 A 19830304

Abstract (en)

[origin: US4544986A] A method of and an apparatus for activating an electromagnetic positioning means or actuator of the kind sometimes known as an electrical cam with relatively low currents, by alternately energizing, or energizing with currents of opposite polarity, two electromagnets to move an armature positioned therebetween between two terminal positions. The device is activated from an inactive or passive to an active state by energizing currents having at least initially a frequency greater than the resonant frequency of the positioning means. With increasing oscillations of the armature the frequency of the energizing current is reduced to zero as the device reaches its fully activated state, i.e. when the armature has oscillated in a step-like manner to one of its terminal positions. The device may be have utility for driving gas exchange valves of internal combustion engines.

IPC 1-7

F01L 9/04; H01F 7/18

IPC 8 full level

F01L 9/20 (2021.01); **H02K 33/12** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **H01F 7/18** (2013.01 - EP US)

Cited by

DE10332489A1; EP0197357A3; EP0197356A3; EP0317725A1; DE3616540A1; US4762095A; DE19954416A1; GB2175452A; EP1099828A3; US6390113B1

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