

Title (en)
Process for the control of an electromagnet.

Title (de)
Verfahren zum Ansteuern eines Elektromagneten.

Title (fr)
Procédé de commande d'un électro-aimant.

Publication
EP 0225444 A1 19870616 (DE)

Application
EP 86113598 A 19861002

Priority
DE 3543055 A 19851205

Abstract (en)
1. Method for controlling an electromagnet (10) which attracts an armature, in which the electromagnet (10) in its holding phase is controlled with pulsed current from a power supply, the current being switched off when an upper threshold value is exceeded and is switched on when it falls below a lower threshold value, characterized in that the frequency of the pulsing is measured during the holding phase and compared with a preset frequency value, and an error signal is initiated when a maximum deviation is exceeded.

Abstract (de)
Es wird ein Verfahren und eine dazugehörige Schaltung beschrieben, um zu überwachen, ob der Anker eines Elektromagneten tatsächlich in die Arbeitsstellung angezogen wurde. Dazu wird die Frequenz des getakteten Haltestromes des Elektromagneten ausgewertet.

IPC 1-7
F01L 9/04; **H01F 7/18**; **H01H 47/32**

IPC 8 full level
F01L 9/04 (2006.01); **F01L 9/20** (2021.01); **H01F 7/18** (2006.01); **H01H 47/32** (2006.01)

CPC (source: EP)
F01L 9/20 (2021.01); **H01F 7/1805** (2013.01); **H01H 47/325** (2013.01)

Citation (search report)
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• [A] US 4123729 A 19781031 - BUETEMEISTER EARL H
• [A] DE 2208135 A1 19730906 - VOITH GETRIEBE KG
• [A] DE 2102595 A1 19720803 - SIEMENS AG

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