

Title (en)

Method and device for driving an electromagnetic consumer

Title (de)

Verfahren und Vorrichtung zur Ansteuerung eines elektromagnetischen Verbrauchers

Title (fr)

Procédé et dispositif de commande d'un consommateur electromagnetique

Publication

**EP 1005051 A3 20020320 (DE)**

Application

**EP 99114827 A 19990729**

Priority

DE 19854305 A 19981125

Abstract (en)

[origin: EP1005051A2] The method involves determining the switching time point at which a movable element in the electromagnetic load reaches a defined position within a time window. The duration of the time window can be specified so that the current flowing during the time window does not exceed a threshold level. Starting from an initial value, the window duration is increased if the current is below the threshold or reduced if it is greater than the threshold. An Independent claim is also included for an arrangement for driving an electromagnetic load.

IPC 1-7

**H01F 7/18**; **F02D 41/20**

IPC 8 full level

**F02D 41/20** (2006.01); **H01F 7/16** (2006.01); **H01F 7/18** (2006.01); **H01H 47/32** (2006.01)

CPC (source: EP US)

**F02D 41/20** (2013.01 - EP US); **H01F 7/1844** (2013.01 - EP US); **F02D 2041/2055** (2013.01 - EP US); **H01H 47/325** (2013.01 - EP US)

Citation (search report)

- [DA] DE 4420282 A1 19951214 - BOSCH GMBH ROBERT [DE]
- [A] US 4823825 A 19890425 - BUECHL JOSEF [DE]

Cited by

CN109058574A; DE102011004309A1; WO2012123445A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1005051 A2 20000531**; **EP 1005051 A3 20020320**; **EP 1005051 B1 20070307**; DE 19854305 A1 20000531; DE 59914240 D1 20070419; ES 2281153 T3 20070916; JP 2000164425 A 20000616; US 2001048087 A1 20011206

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**EP 99114827 A 19990729**; DE 19854305 A 19981125; DE 59914240 T 19990729; ES 99114827 T 19990729; JP 33329099 A 19991124; US 43233899 A 19991102