

Title (en)  
Process and circuit for the detection of the position of the armature of an electromagnet

Title (de)  
Verfahren und Schaltung zur Erkennung der Ankerlage eines Elektromagneten

Title (fr)  
Procédé et circuit pour la détection de la position de l'armature d'un électroaimant

Publication  
**EP 1302952 A3 20041110 (DE)**

Application  
**EP 02022489 A 20021005**

Priority  
DE 10150199 A 20011012

Abstract (en)  
[origin: EP1302952A2] A method for finding the armature position of an electromagnet, in which a magnet voltage is generated from the magnet current flowing through the coil. The magnet voltage ( $U_m$ ) is compared with a reference voltage ( $U_r$ ) to establish a corresponding armature position. A filtered, flattened-out magnet voltage is used as the reference voltage, and more specifically the reference voltage is generated from the magnet voltage by a low-pass filter. <?>An Independent claim is given for a circuit for ascertaining the armature position of an electromagnet.

IPC 1-7  
**H01F 7/18**

IPC 8 full level  
**H01F 7/18** (2006.01)

CPC (source: EP US)  
**H01F 7/1844** (2013.01 - EP US)

Citation (search report)

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**EP 02022489 A 20021005**; DE 10150199 A 20011012; US 26999502 A 20021015