

Title (en)

Device and method for determining the position of an object on an electromagnet

Title (de)

Verfahren und Vorrichtung zur Bestimmung der Lage eines Gegenstandes an einem Elektromagneten

Title (fr)

Dispositif et procédé de détermination de la position d'un objet sur un électroaimant

Publication

EP 2511918 B1 20160420 (DE)

Application

EP 12154928 A 20120210

Priority

- DE 102011011760 A 20110218
- DE 102011102060 A 20110519

Abstract (en)

[origin: EP2511918A1] The method involves allowing current to flow through a magnetic coil (2), where the current creates a magnetic field in the magnetic coil. A controllable switching element (S-1) is arranged in a discharge line (4) of the magnetic coil. The switching element allows separation of the magnetic coil by a supply voltage during a time period. A voltage pulse (U-I) is generated in the magnetic coil, and time course of the pulse corresponds to a location of an object. The voltage pulse is transmitted to an evaluation unit (5) for determination of position of the object. Independent claims are also included for the following: (1) a device for determining position of an object with respect to a magnetic coil of an electromagnet (2) an electromagnet.

IPC 8 full level

H01F 7/18 (2006.01)

CPC (source: EP)

H01F 7/1844 (2013.01); **H01F 2007/185** (2013.01)

Cited by

CN112863806A; US9523323B2; WO2013178367A3

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