

Title (en)

Electrical switching apparatus with optimized operation

Title (de)

Elektrischer Schalter mit optimiertem Betrieb

Title (fr)

Appareil électrique interrupteur à fonctionnement optimisé

Publication

EP 2200055 B1 20150318 (FR)

Application

EP 09179468 A 20091216

Priority

FR 0858883 A 20081219

Abstract (en)

[origin: EP2200055A1] The apparatus has an electromagnetic actuator (1) comprising a movable armature (11) connected to a movable body and movably controlled between opening and closing positions relative to a fixed field frame (10) using a control coil (3). A detection circuit detects separation of the armature relative to the frame. A measurement unit (7) measures control current passing through the coil during the separation of armature. A processing unit (8) processes a measured control current (i1) to control the apparatus for optimizing energy consumption or carrying out diagnosis of the apparatus. An independent claim is also included for a control method for an electrical switching apparatus.

IPC 8 full level

H01H 1/00 (2006.01); **H01H 47/00** (2006.01); **H01H 47/04** (2006.01)

CPC (source: EP)

H01H 1/0015 (2013.01); **H01H 47/002** (2013.01); **H01H 47/04** (2013.01); **H01H 2047/006** (2013.01); **H01H 2047/009** (2013.01); **H01H 2071/044** (2013.01)

Cited by

CN111899996A; EP2764525A4; CN110806309A; US11255912B2; US8687171B2; EP3428666A1; FR3069064A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2200055 A1 20100623; **EP 2200055 B1 20150318**; FR 2940509 A1 20100625; FR 2940509 B1 20101210

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