

Title (en)  
DEVICE FOR DETECTING THE THREE STATES OF A CIRCUIT BREAKER

Title (de)  
VORRICHTUNG ZÜR ERFASSUNG VON DREI ZUSTÄNDEN EINES SCHUTZSCHALTERS

Title (fr)  
DISPOSITIF DE DETECTION DES TROIS ETATS D'UN DISJONCTEUR

Publication  
**EP 2022069 A1 20090211 (FR)**

Application  
**EP 07729127 A 20070515**

Priority  
• EP 2007054675 W 20070515  
• FR 0651970 A 20060531

Abstract (en)  
[origin: WO2007137938A1] The present invention concerns a device for detecting three states, namely 'on', 'off' and 'triggered' of an electric circuit breaker (1), comprising a mobile magnetic device (40, 41), movable between three positions corresponding to the three states of the circuit breaker (1) and comprising at least one permanent magnet (400, 401, 410) generating a magnetic field provided with magnetic field lines (L) for driving two DIP switches (2a, 2b) via the magnetic effect. In each of the magnetic device's positions (40, 41), the two DIP switches are controlled in either an open or closed position to form a specific combination representing one of the three states of the circuit breaker (1).

IPC 8 full level  
**H01H 71/04** (2006.01); **H01H 36/00** (2006.01)

CPC (source: EP US)  
**H01H 71/04** (2013.01 - EP US); **H01H 47/002** (2013.01 - EP US); **H01H 2036/0093** (2013.01 - EP US); **H01H 2050/007** (2013.01 - EP US); **H01H 2071/042** (2013.01 - EP US); **H01H 2071/048** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007137938A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**FR 2901912 A1 20071207**; **FR 2901912 B1 20080815**; BR PI0711854 A2 20111213; CN 101496124 A 20090729; CN 101496124 B 20110831; EP 2022069 A1 20090211; EP 2022069 B1 20131023; NO 20085351 L 20090126; RU 2008151776 A 20100710; RU 2404475 C2 20101120; US 2009273873 A1 20091105; US 7915982 B2 20110329; WO 2007137938 A1 20071206

DOCDB simple family (application)  
**FR 0651970 A 20060531**; BR PI0711854 A 20070515; CN 200780028000 A 20070515; EP 07729127 A 20070515; EP 2007054675 W 20070515; NO 20085351 A 20081222; RU 2008151776 A 20070515; US 30283807 A 20070515