

Title (en)
ELECTRICAL CIRCUIT BREAKER HAVING A PROTECTIVE FUNCTION

Title (de)
ELEKTRISCHER SCHUTZSCHALTER MIT SCHUTZFUNKTION

Title (fr)
DISJONCTEUR ELECTRIQUE POURVU D'UNE FONCTION DE PROTECTION

Publication
EP 1797577 A1 20070620 (DE)

Application
EP 06776595 A 20060804

Priority
• EP 2006007715 W 20060804
• DE 102005037437 A 20050809

Abstract (en)
[origin: US2009167468A1] An actuating unit or actuating mechanism and release for a circuit breaker. The magnetic mechanism of the release includes a magnet armature, which can move linearly in a magnet coil, is in the form of a tripping plunger and can be moved towards a permanent magnet counter to the force of a storage compression spring and is held fixedly by said permanent magnet in the case of a magnet coil through which no current is flowing. The tripping unit is in the form of a mechanical force store. After a tripping action, the mechanical force store needs to be reset manually again. For this purpose, a rotary movement of the drive shaft with an angular displacement of from 20 to 30 degrees takes place in the opposite direction to the ON switching rotary movement.

IPC 8 full level
H01H 71/56 (2006.01); **H01H 71/32** (2006.01)

CPC (source: EP US)
H01H 71/322 (2013.01 - EP US); **H01H 71/56** (2013.01 - EP US)

Citation (search report)
See references of WO 2007017188A1

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2009167468 A1 20090702; US 7733199 B2 20100608; AT E414985 T1 20081215; CN 101128900 A 20080220; CN 101128900 B 20110921; DE 102005037437 A1 20070215; DE 102005037437 B4 20071227; DE 502006002112 D1 20090102; EP 1797577 A1 20070620; EP 1797577 B1 20081119; WO 2007017188 A1 20070215

DOCDB simple family (application)
US 71987706 A 20060804; AT 06776595 T 20060804; CN 200680006181 A 20060804; DE 102005037437 A 20050809; DE 502006002112 T 20060804; EP 06776595 A 20060804; EP 2006007715 W 20060804