

Title (en)
TRIPPING APPARATUS, PARTICULARLY FOR CIRCUIT BREAKERS

Title (de)
AUSLÖSEVORRICHTUNG, INSBESONDERE FÜR LEISTUNGSSCHALTER

Title (fr)
DISPOSITIF DE DÉCLENCHEMENT, EN PARTICULIER POUR INTERRUPTEUR DE PUISSANCE

Publication
EP 2394286 A1 20111214 (DE)

Application
EP 10706133 A 20100122

Priority
• DE 2010000061 W 20100122
• DE 102009007586 A 20090205

Abstract (en)
[origin: WO2010088875A1] The invention relates to a tripping apparatus (1), particularly for circuit breakers, which comprises at least one controllable tripping magnet (2) having an armature (2.1) that is operatively connected to a downstream tripping gear (6.3), which engages in a tripping mechanism that acts on the circuit breaker and is coupled to a preloaded spring (4) serving as a force amplifier. According to the invention, the tripping mechanism comprises a camshaft (5) having a plurality of cam lobes (5.1, 5.2, 5.4), wherein an actuating means (6) is associated with each cam lobe (5.1, 5.2, 5.4) having an offset rotational angle, and wherein, when tripped, at least two actuating processes associated with the respective actuating means (6.1, 6.2, 6.3) take place consecutively, so that the full spring force is transmitted by way of the camshaft (5) to at least one of said actuating means (6.1, 6.2, 6.3) so as to perform the relevant actuating process.

IPC 8 full level
H01H 71/10 (2006.01); **H01H 71/44** (2006.01); **H01H 71/50** (2006.01); **H01H 3/30** (2006.01); **H01H 71/46** (2006.01)

CPC (source: EP US)
H01H 71/1072 (2013.01 - EP US); **H01H 3/3031** (2013.01 - EP US); **H01H 71/44** (2013.01 - EP US); **H01H 71/46** (2013.01 - EP US); **H01H 71/505** (2013.01 - EP US)

Citation (search report)
See references of WO 2010088875A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010088875 A1 20100812; CN 102308355 A 20120104; CN 102308355 B 20141022; DE 102009007586 A1 20100819; EP 2394286 A1 20111214; EP 2394286 B1 20151111; US 2012018287 A1 20120126; US 8547190 B2 20131001

DOCDB simple family (application)
DE 2010000061 W 20100122; CN 201080006765 A 20100122; DE 102009007586 A 20090205; EP 10706133 A 20100122; US 201013145619 A 20100122