

Title (en)  
TRIGGERING UNIT FOR ACTUATING A MECHANICAL SWITCHING UNIT OF A DEVICE

Title (de)  
AUSLÖSEEINHEIT ZUM BETÄTIGEN EINER MECHANISCHEN SCHALTEINHEIT EINER VORRICHTUNG

Title (fr)  
UNITÉ DE DÉCLENCHEMENT POUR ACTIONNER UNE UNITÉ DE COMMUTATION MÉCANIQUE D'UN DISPOSITIF

Publication  
**EP 2764527 B1 20151118 (DE)**

Application  
**EP 12798206 A 20121120**

Priority  
• DE 102011089251 A 20111220  
• EP 2012073052 W 20121120

Abstract (en)  
[origin: WO2013092067A1] The invention relates to a triggering unit for actuating a mechanical switching unit of a device for the interruption of a supply chain of a consumer. In order to provide an improved triggering unit for a mechanical switching unit, it is recommended that the triggering unit comprises a tappet (1) having a moving bearing, a power accumulator (2), a holding device (3) and a printed circuit board coil (4), wherein the triggering unit can assume a triggered status and a normal status, wherein the tappet (1) is in a first stop position in the triggered state and in a second stop position opposite the first stop position in the normal state, wherein in the normal state the first power accumulator (2) acts upon the tappet (1) with a power accumulator force (F1) in the direction of the first stop position and the holding means (3) holds the tappet (1) with a holding force (F2) in the second stop position, wherein a printed circuit board coil force can be generated by an activation of the printed circuit board coil (4), wherein the power accumulator (2), the holding means (3) and the printed circuit board coil (4) are formed such that the tappet (1) rests in the second stop position in the inactive state of the printed circuit board coil (4) and through an activation of the printed circuit board coil (4) the tappet (1) assumes the first stop position such that the triggered status is given.

IPC 8 full level  
**H01H 71/32** (2006.01); **H01H 71/24** (2006.01); **H01F 7/06** (2006.01); **H01H 71/28** (2006.01)

CPC (source: EP US)  
**H01H 47/22** (2013.01 - US); **H01H 51/00** (2013.01 - US); **H01H 51/06** (2013.01 - US); **H01H 61/01** (2013.01 - US);  
**H01H 71/2481** (2013.01 - EP US); **H01H 71/322** (2013.01 - EP US); **H01F 2007/068** (2013.01 - EP US); **H01H 71/2454** (2013.01 - EP US);  
**H01H 71/28** (2013.01 - EP US)

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011089251 A1 20130620; DE 102011089251 B4 20140522**; BR 112014015020 A2 20170613; BR 112014015020 A8 20170613;  
BR 112014015020 B1 20210615; CN 104185891 A 20141203; CN 104185891 B 20160824; EP 2764527 A1 20140813;  
EP 2764527 B1 20151118; IN 1161KON2014 A 20151016; US 2014321023 A1 20141030; US 9117612 B2 20150825;  
WO 2013092067 A1 20130627

DOCDB simple family (application)  
**DE 102011089251 A 20111220**; BR 112014015020 A 20121120; CN 201280063119 A 20121120; EP 12798206 A 20121120;  
EP 2012073052 W 20121120; IN 1161KON2014 A 20140529; US 201214363479 A 20121120