

Title (en)  
ILLUMINATED, WATER- AND DUST-PROOF SWITCHING ELEMENT

Title (de)  
BELEUCHTETES, WASSER- UND STAUBDICHTES SCHALTELEMENT

Title (fr)  
ÉLÉMENT DE COMMUTATION À ÉCLAIREMENT, ÉTANCHE À L'EAU ET AUX POUSSIÈRES

Publication  
**EP 2777056 A1 20140917 (DE)**

Application  
**EP 12783858 A 20121011**

Priority

- DE 102011118178 A 20111110
- DE 2012000991 W 20121011

Abstract (en)  
[origin: WO2013067984A1] Illuminated water- and dust-proof switching element for converting a linear movement of a key into an electrical switching signal, having a housing and a cap that is axially displaceable within the housing about a stroke path between two end bearings and which is provided with a protective membrane for sealing off to the outside that is formed from a flexible plastic material via multicomponent injection molding, wherein the switching element includes inside its housing (9) at least four contacts (8), of which at least two contacts (8) have identical contours and which follow a rearrangement of their linear arrangement in the region of the plug to a square arrangement in the interior, a pressure compensation element (7), a circuit board (6) on which at least one push button and at least two lighting elements are arranged, a restoring element in the form of a silicon pad (5), a guide (4), an end stop (3), a cap (2) with integrally molded protective membrane (12) and a frame (10).

IPC 8 full level  
**H01H 9/04** (2006.01)

CPC (source: EP US)  
**H01H 9/047** (2013.01 - EP US); **H01H 13/023** (2013.01 - US); **H01H 13/06** (2013.01 - US); **H01H 13/10** (2013.01 - US); **H01H 2009/048** (2013.01 - EP US); **H01H 2013/026** (2013.01 - US); **H01H 2213/006** (2013.01 - US); **H01H 2219/048** (2013.01 - US); **H01H 2221/03** (2013.01 - US); **H01H 2223/002** (2013.01 - US); **H01H 2223/006** (2013.01 - EP US); **H01H 2223/044** (2013.01 - US); **H01H 2229/046** (2013.01 - EP US); **H01H 2239/034** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013067984A1

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 102011118178 B3 20130516**; CN 103946941 A 20140723; DE 112012004712 A5 20140904; EP 2777056 A1 20140917; EP 2777056 B1 20161109; EP 2777056 B8 20170104; JP 2014532973 A 20141208; KR 20140101770 A 20140820; US 2015060245 A1 20150305; US 9368297 B2 20160614; WO 2013067984 A1 20130516

DOCDB simple family (application)  
**DE 102011118178 A 20111110**; CN 201280055101 A 20121011; DE 112012004712 T 20121011; DE 2012000991 W 20121011; EP 12783858 A 20121011; JP 2014540314 A 20121011; KR 20147015754 A 20121011; US 201214357716 A 20121011