

Title (en)
WATERPROOF AND DUST PROTECTED SWITCH

Title (de)
WASSERDICHTER UND STAUBGESCHÜTZTER SCHALTER

Title (fr)
COMMUTATEUR ÉTANCHE À L'EAU ET PROTÉGÉ CONTRE LA POUSSIÈRE

Publication
EP 2760036 A4 20150624 (EN)

Application
EP 12833210 A 20120517

Priority
• JP 2011205828 A 20110921
• JP 2012062586 W 20120517

Abstract (en)
[origin: EP2760036A1] [Problem] To provide a waterproof and dust protected switch having superior shape retention characteristics, durability, and operating stability. [Solution] This waterproof and dust protected switch (SW) is provided with a switch mechanism unit (1) that switches contacts by the operation of an outside force and a switch case (2) that protects the switch mechanism unit (1). The switch case (2) is constituted of a case main body (7) formed from a hard material that accommodates the switch mechanism unit (1) and a cover (9) that covers the case main body (7) and is formed from a soft material. The case main body (7) and cover (9) are integrated by two-color molding, and also a reinforcing rib (8) is provided integrated with the case main body (7) or separately on a part where the outside force operates on the cover (9).

IPC 8 full level
H01H 9/04 (2006.01); **H01H 21/08** (2006.01)

CPC (source: EP KR)
H01H 9/04 (2013.01 - EP KR); **H01H 13/063** (2013.01 - KR); **H01H 21/08** (2013.01 - KR); **H01H 21/08** (2013.01 - EP);
H01H 2009/048 (2013.01 - EP KR)

Citation (search report)
• [X] US 5380968 A 19950110 - MORSE MILTON [US]
• [XI] US 2005029085 A1 20050210 - DOZONO SHIGETAKA [JP], et al
• [X] GB 2233500 A 19910109 - DAIICHI DENSO BUHIN [JP]
• See references of WO 2013042403A1

Cited by
CN109962042A

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)
EP 2760036 A1 20140730; EP 2760036 A4 20150624; CN 103828004 A 20140528; CN 103828004 B 20170922; JP 6045114 B2 20161214;
JP WO2013042403 A1 20150326; KR 101827510 B1 20180208; KR 20140064881 A 20140528; WO 2013042403 A1 20130328

DOCDB simple family (application)
EP 12833210 A 20120517; CN 201280046307 A 20120517; JP 2012062586 W 20120517; JP 2013534610 A 20120517;
KR 20147007199 A 20120517