

Title (en)
Push button switch structure

Title (de)
Tastschalterstruktur

Title (fr)
Structure d'interrupteur à bouton poussoir

Publication
EP 1387375 A3 20050420 (EN)

Application
EP 03017393 A 20030731

Priority
JP 2002226107 A 20020802

Abstract (en)
[origin: EP1387375A2] The present invention comprises fixed contacts buried in a housing, a first reversing spring made of metal, which is a movable contact accessible to the fixed contact, and a second reversing spring made of a rubber material for giving a pressing force to reverse the first reversing spring. In addition, a gap dimension for reversing the first reversing spring and the second reversing spring nearly simultaneously is provided between a top of the first reversing spring and a press section of the second reversing spring. <IMAGE>

IPC 1-7
H01H 13/70

IPC 8 full level
H01H 13/20 (2006.01); **H01H 13/06** (2006.01); **H01H 13/52** (2006.01); **H01H 13/70** (2006.01); **H01H 13/702** (2006.01)

CPC (source: EP KR)
H01H 13/52 (2013.01 - KR); **H01H 13/7006** (2013.01 - EP); **H01H 2215/006** (2013.01 - EP); **H01H 2215/034** (2013.01 - EP)

Citation (search report)

- [X] EP 1178508 A1 20020206 - NOKIA MOBILE PHONES LTD [FI]
- [X] EP 1058282 A1 20001206 - MITSUBISHI ELECTRIC CORP [JP]
- [A] US 5172114 A 19921215 - BEDOYA CLAUDE [FR], et al

Cited by
DE102018108660B3; EP3806121A4; DE102007045871B4; DE102007045871A1; US10337758B2; US10727011B2; WO2017045167A1; US11355294B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1387375 A2 20040204; **EP 1387375 A3 20050420**; CN 1233000 C 20051221; CN 1480969 A 20040310; JP 2004071225 A 20040304; KR 100675545 B1 20070129; KR 20040012486 A 20040211; TW 200418062 A 20040916; TW I228736 B 20050301

DOCDB simple family (application)
EP 03017393 A 20030731; CN 03152646 A 20030804; JP 2002226107 A 20020802; KR 20030050288 A 20030722; TW 92120997 A 20030731