

Title (en)  
Keypad with water and dust protection

Title (de)  
Tastatur mit Wasser- und Staubschutz

Title (fr)  
Clavier avec protection contre l'eau et la poussière

Publication  
**EP 2104126 A1 20090923 (EN)**

Application  
**EP 08152961 A 20080318**

Priority  
EP 08152961 A 20080318

Abstract (en)  
A keypad suitable for use with a mobile communication or a handheld device. The keypad includes an actuator component formed from multiple materials and comprises a plurality of actuators, a sealing bead and/or a light guide. The sealing bead is formed from a flexible or compressible material such as silicone rubber. When the keypad is installed the sealing bead is compressed against the mounting surface in the device and provides a seal for the keypad against environmental agents such as moisture, dust and/or electrostatic discharges.

IPC 8 full level  
**H01H 13/702** (2006.01); **H01H 13/86** (2006.01); **H01H 13/88** (2006.01)

CPC (source: EP)  
**H01H 13/702** (2013.01); **H01H 13/86** (2013.01); **H01H 13/88** (2013.01); **H01H 2219/044** (2013.01); **H01H 2219/062** (2013.01); **H01H 2223/002** (2013.01); **H01H 2229/048** (2013.01)

Citation (applicant)  
• EP 1737010 A1 20061227 - SHINETSU POLYMER CO [JP]  
• EP 1619703 A2 20060125 - POLYMATECH CO LTD [JP]  
• EP 1467391 A1 20041013 - POLYMATECH CO LTD [JP]  
• EP 1001443 A1 20000517 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Citation (search report)  
• [X] EP 1737010 A1 20061227 - SHINETSU POLYMER CO [JP]  
• [X] EP 1619703 A2 20060125 - POLYMATECH CO LTD [JP]  
• [X] EP 1467391 A1 20041013 - POLYMATECH CO LTD [JP]  
• [A] WO 2008018416 A1 20080214 - SUNARROW LTD [JP], et al

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EP2362405A1; US9075576B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2104126 A1 20090923**; **EP 2104126 B1 20101222**; AT E492898 T1 20110115; AT E533167 T1 20111115; CA 2657735 A1 20090918; CA 2657735 C 20130827; CN 201893261 U 20110706; DE 602008004090 D1 20110203; EP 2270824 A1 20110105; EP 2270824 B1 20111109; HK 1136085 A1 20100618

DOCDB simple family (application)  
**EP 08152961 A 20080318**; AT 08152961 T 20080318; AT 10188124 T 20080318; CA 2657735 A 20090310; CN 200920008736 U 20090318; DE 602008004090 T 20080318; EP 10188124 A 20080318; HK 10101908 A 20100224