

Title (en)

Dome-shaped assembly and handheld electronic device including dome-shaped assembly

Title (de)

Kuppelförmige Anordnung und tragbare elektronische Vorrichtung mit kuppelförmiger Anordnung

Title (fr)

Ensemble en forme de dôme et dispositif électronique portatif comprenant un ensemble en forme de dôme

Publication

EP 2819140 A1 20141231 (EN)

Application

EP 13173957 A 20130627

Priority

EP 13173957 A 20130627

Abstract (en)

A dome-shaped element 60 disposable in a keyboard of an electronic device is provided. The dome-shaped element includes a concave surface 62 originating at a center 63 and terminating at a periphery 64. The concave surface includes an annular array of elastic elements (65) extending from the center to the periphery. At least one of the elastic elements includes a first portion 66 with a first slope S1 proximate to the center and a second portion 67 with a second slope S2 proximate to the periphery. The concave surface is deflectable between an undeflected position (610) and a deflected position (612) and is configured to affect an operation of the electronic device in the deflected position.

IPC 8 full level

H01H 13/12 (2006.01); **H01H 13/705** (2006.01)

CPC (source: EP)

H01H 13/12 (2013.01); **H01H 13/705** (2013.01); **H01H 2215/004** (2013.01); **H01H 2221/09** (2013.01); **H01H 2227/022** (2013.01)

Citation (search report)

- [X1] JP 2010146737 A 20100701 - FUJI ELECTRONICS CO LTD
- [X1] EP 1225607 A2 20020724 - ALPS ELECTRIC CO LTD [JP]
- [X1] US 2002130024 A1 20020919 - KAWAGUCHI KENICHIRO [JP], et al
- [X1] EP 0764958 A2 19970326 - FUJI POLYMERTECH CO LTD [JP]

Cited by

CN106104429A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2819140 A1 20141231; **EP 2819140 B1 20190508**; CA 2855237 A1 20141227; CA 2855237 C 20211116; HK 1205589 A1 20151218

DOCDB simple family (application)

EP 13173957 A 20130627; CA 2855237 A 20140626; HK 15106107 A 20150626