

Title (en)

KEY MODULE FOR A KEYBOARD, AND KEYBOARD

Title (de)

TASTENMODUL FÜR EINE TASTATUR UND TASTATUR

Title (fr)

MODULE DE TOUCHES POUR CLAVIER ET CLAVIER

Publication

EP 3750177 B1 20240124 (DE)

Application

EP 18746188 A 20180727

Priority

- DE 102018102609 A 20180206
- EP 2018070385 W 20180727

Abstract (en)

[origin: WO2019154529A1] The invention relates to a key module (120) for a keyboard. The key module (120) has a guide device (230) for guiding a movement of the key module (120) when it is operated, at least one spring element (240) for providing a return force when the key module (120) is operated, a support element (250) for supporting the guide device (230), and a switching unit. The switching unit has a housing (270) and a contact device (280), which is arranged at least partially in the housing (270), for establishing electrical contact when the key module (120) is operated. The contact device (280) has a fixed contact piece with a first contact and has a contact transmitter with a first spring lug which supports a second contact, with a second spring lug for producing an operating noise and/or with at least one operating section. The contact transmitter is integrally formed.

IPC 8 full level

H01H 3/12 (2006.01); **H01H 13/70** (2006.01); **H01H 13/807** (2006.01)

CPC (source: CN EP US)

H01H 3/125 (2013.01 - EP US); **H01H 13/7013** (2013.01 - EP US); **H01H 13/7065** (2013.01 - CN); **H01H 13/7073** (2013.01 - CN US); **H01H 13/78** (2013.01 - US); **H01H 13/807** (2013.01 - EP); **H01H 13/84** (2013.01 - CN); **H01H 13/86** (2013.01 - CN)

Citation (examination)

US 5372442 A 19941213 - WANG KUN-CHU [TW]

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 102018102609 A1 20190808; CN 111684559 A 20200918; CN 111684559 B 20230221; CN 116110734 A 20230512; EP 3750177 A1 20201216; EP 3750177 B1 20240124; EP 4318522 A2 20240207; EP 4318522 A3 20240327; US 11342134 B2 20220524; US 2020381190 A1 20201203; WO 2019154529 A1 20190815

DOCDB simple family (application)

DE 102018102609 A 20180206; CN 201880088506 A 20180727; CN 202310044994 A 20180727; EP 18746188 A 20180727; EP 2018070385 W 20180727; EP 23216969 A 20180727; US 201816967817 A 20180727