

Title (en)  
KEY MODULE

Title (de)  
TASTENMODUL

Title (fr)  
MODULE DE TOUCHE

Publication  
**EP 3602596 B1 20230301 (DE)**

Application  
**EP 18713208 A 20180322**

Priority  
• DE 102017106406 A 20170324  
• EP 2018057314 W 20180322

Abstract (en)  
[origin: WO2018172468A1] The invention relates to a key module (100) having a cover element (110) and a plunger (105), which has a carrier nose (135), wherein the plunger (105) is movably mounted by the cover element along a movement axis (200), wherein the plunger (105) has a cylindrical pushbutton carrier portion (160) in an opening region (210), in which the plunger protrudes through the cover element (160), and has at least one rib (170) on a guide portion (165) adjoining the pushbutton carrier portion (160) on an outer side (167). The key module (100) furthermore comprises a contact encoder unit (115) which is designed and arranged in order to be carried by the carrier nose (135) and a contact piece (120), which is designed and arranged for electrical contact closure together with the contact nose (140). Finally, the key module (100) comprises a housing element (130) for receiving the contact piece (120), the contact encoder unit (115), and the plunger (105), wherein the housing element (130) has, for receiving the guide portion (165) of the plunger (105), at least one receiving cup (175) having at least one recess (1100) for receiving the at least one rib (170) of the plunger (105).

IPC 8 full level  
**H01H 13/705** (2006.01)

CPC (source: EP US)  
**H01H 13/06** (2013.01 - US); **H01H 13/14** (2013.01 - US); **H01H 13/705** (2013.01 - EP US); **H01H 13/06** (2013.01 - EP); **H01H 15/102** (2013.01 - EP); **H01H 2215/03** (2013.01 - EP); **H01H 2227/036** (2013.01 - EP)

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)  
**WO 2018172468 A1 20180927**; CN 110520954 A 20191129; CN 110520954 B 20220729; DE 102017106406 A1 20180927; EP 3602596 A1 20200205; EP 3602596 B1 20230301; US 11101085 B2 20210824; US 11521810 B2 20221206; US 2020043680 A1 20200206; US 2021343488 A1 20211104

DOCDB simple family (application)  
**EP 2018057314 W 20180322**; CN 201880015362 A 20180322; DE 102017106406 A 20170324; EP 18713208 A 20180322; US 201816496344 A 20180322; US 202117373225 A 20210712