

Title (en)
Switching device

Title (de)
Schaltvorrichtung

Title (fr)
Dispositif de commutation

Publication
EP 1418603 A1 20040512 (EN)

Application
EP 03025671 A 20031110

Priority
JP 2002327212 A 20021111

Abstract (en)
A switching device has an operation member (19) having an operation key (17) which is connected to and rotatably supported by a key holder lever (18); a driving lever (20) engaged with the operation member (19) and rotationally driven when the operation key (17) is pressed; and a switching element (21) press-driven by the rotationally-driven driving lever (20), the operation key (17) with a keyboard operational configuration disposed at a front surface of a front panel (11) being pressed downward. Here, a switching element (21) is mounted on a circuit substrate (14) which is held upright, and a spacing d between the circuit (14) and the driving lever (20) is set to a value smaller than a radius r of a boss (13c) serving as rotation axis of the driving lever (20), thereby preventing the driving lever (20) from being disconnected even when a simple attachment structure is employed. <IMAGE>

IPC 1-7
H01H 21/24

IPC 8 full level
H01H 21/00 (2006.01); **H01H 21/24** (2006.01); **H01H 21/36** (2006.01)

CPC (source: EP)
H01H 21/24 (2013.01); **H01H 21/36** (2013.01); **H01H 2221/016** (2013.01); **H01H 2237/002** (2013.01)

Citation (search report)
• [Y] US 4803316 A 19890207 - HAYASHI KAZUTOSHI [JP], et al
• [Y] US 2757252 A 19560731 - SPARR ALBERT E, et al
• [Y] GB 828875 A 19600224 - ALLIED CONTROL CO

Cited by
CN107946117A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1418603 A1 20040512; **EP 1418603 B1 20060329**; DE 60304271 D1 20060518; DE 60304271 T2 20060831; JP 2004164928 A 20040610; JP 4050131 B2 20080220

DOCDB simple family (application)
EP 03025671 A 20031110; DE 60304271 T 20031110; JP 2002327212 A 20021111