

Title (en)

Long traveling button switch with enhanced user feedback.

Title (de)

Langhubtastschalter mit verstärktem Benutzer-Feedback.

Title (fr)

Touche de commutateur à grand déplacement et rétroaction accentuée.

Publication

EP 0423924 B1 19950201 (EN)

Application

EP 90308425 A 19900731

Priority

US 41303289 A 19890927

Abstract (en)

[origin: EP0423924A1] A pushbutton switch including a keycap (11) having a keycap top (11a) and a keycap plunger (11b), a retaining bezel (13) for guiding the keycap plunger and limiting the displacement thereof, a deformable elastomeric switch button (17) supporting a contact pad, and a printed circuit contact pattern (23) engageable by the contact pad when the switch button is deformed by the downward displacement of the keycap plunger. The deformation of the button switch tactile feedback, while impact of the keycap top against the retaining bezel provides audible feedback. The pushbutton switch is configured to limit the downward displacement of the keycap plunger to avoid excessive force on the printed circuit board.

IPC 1-7

H01H 13/14

IPC 8 full level

H01H 13/52 (2006.01); **H01H 13/26** (2006.01); **H01H 13/702** (2006.01); **H01H 13/705** (2006.01)

CPC (source: EP)

H01H 13/705 (2013.01); **H01H 2215/004** (2013.01); **H01H 2215/03** (2013.01); **H01H 2221/064** (2013.01)

Cited by

EP0556426A1; EP0872863A3; DE10203510C1; EP1333457A3; DE19537144A1; DE19537144C2; AU738587B2; DE9113199U1; EP0899759A3; DE19631310A1; EP0643407A1; US5495393A; US8404990B2; WO9305373A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0423924 A1 19910424; **EP 0423924 B1 19950201**; CA 2014651 A1 19910327; DE 69016569 D1 19950316; DE 69016569 T2 19950524; JP H0357837 U 19910604

DOCDB simple family (application)

EP 90308425 A 19900731; CA 2014651 A 19900417; DE 69016569 T 19900731; JP 10161190 U 19900927