

Title (en)

Push button switch.

Title (de)

Drucktastenschalter.

Title (fr)

Interrupteur à bouton poussoir.

Publication

EP 0509368 B1 19940112 (DE)

Application

EP 92105960 A 19920407

Priority

DE 4112754 A 19910419

Abstract (en)

[origin: EP0509368A2] A push-button switch is proposed having a plastic switch cap which acts as a restoring element, has a truncated-conical shape and makes possible a switching process which is highly precise in comparison with known rubber or silicon switch caps. In order to achieve an optimum switching characteristic, with defined switching movements and forces, a thermoplastic elastomer is used which, as a block-copolymer, has special characteristics with respect to the flexibility of the switch cap. In this case, the special characteristics of the push-button switch are determined by material selection and the dimensions of the switch cap. <IMAGE>

IPC 1-7

H01H 13/48; **H01H 13/70**

IPC 8 full level

H01H 13/48 (2006.01); **H01H 13/50** (2006.01); **H01H 13/70** (2006.01); **H01H 13/702** (2006.01); **H01H 21/22** (2006.01); **H01H 23/30** (2006.01)

CPC (source: EP US)

H01H 13/50 (2013.01 - EP US); **H01H 13/702** (2013.01 - EP US); **H01H 21/22** (2013.01 - EP US); **H01H 23/30** (2013.01 - EP US); **H01H 2207/032** (2013.01 - EP US); **H01H 2209/002** (2013.01 - EP US); **H01H 2215/004** (2013.01 - EP US); **H01H 2215/012** (2013.01 - EP US); **H01H 2227/022** (2013.01 - EP US)

Cited by

EP1014405A3; EP0614204A3; EP0615265A3; EP0626707A1; EP0638914A1; US5655650A; US8760406B2; WO2013151695A3

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0509368 A2 19921021; **EP 0509368 A3 19921230**; **EP 0509368 B1 19940112**; DE 4112754 A1 19921022; DE 4112754 C2 19990602; DE 59200040 D1 19940224; US 5298705 A 19940329

DOCDB simple family (application)

EP 92105960 A 19920407; DE 4112754 A 19910419; DE 59200040 T 19920407; US 86813492 A 19920414