

## Title (en)

Method of producing a keyboard switch and keyboard switch obtained.

## Title (de)

Verfahren zur Herstellung eines Schalters für Tastaturen und Schalter für Tastaturen.

## Title (fr)

Procédé de fabrication d'un interrupteur à clavier et interrupteur à clavier.

## Publication

**EP 0329968 A1 19890830 (EN)**

## Application

**EP 89101321 A 19890126**

## Priority

DK 43088 A 19880128

## Abstract (en)

In a process of producing a keyboard switch, a continuous track (10) of a metal foil is machined into two metallic terminal components (13, 14) constituting links between two carrier strips (11, 12). A base housing component (22) is cast from a high temperature resistant material around the terminals (13, 14) and is connected to the carrier strips (11, 12) through two tags (29) protruding outwards from opposite, outer side surfaces (27) of the base housing component (22). In an inner recess (23) of the base housing component (22) a domed metal disc (31) having an acoustically damping coating (32) on the convex side surface thereof, an elastically compressible rubber component (33) and a push button (37) are arranged. On top of the base housing component (22), a top housing component (30) preferably made from the same high temperature resistant plastics material is arranged. Within the recess (23) of the base housing component (22), the terminal (13, 14) define electric contacts (19, 20) with which the domed metal disc (31) co-operates. The terminals (13, 14) are separated from the carrier strips (11, 12) and bent into the configuration of pins of an electronic keyboard switch, and the keyboard switch is still connected through the tags (29) to the carrier strips (11, 12) transferred to a test stand (5), in which the keyboard switch is tested. Provided the keyboard switch is identified as a properly functioning keyboard switch, the tags (29) are separated from the base housing component (22).

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## Citation (search report)

- EP 0030473 A1 19810617 - FUJITSU LTD [JP]
- DE 3542953 A1 19860424 - ALPS ELECTRIC CO LTD [JP]
- DE 3545798 A1 19860703 - ALPS ELECTRIC CO LTD [JP]
- EP 0164799 A2 19851218 - LITTELFUSE TRACOR [NL]
- US 4207448 A 19800610 - FURUSAWA AKIRA [JP], et al
- US 4102039 A 19780725 - HENRICKSON DAVID L, et al
- US 4412113 A 19831025 - MITSUGI ITARU [JP], et al
- US 4331851 A 19820525 - JOHNSON LARRY K
- US 4430531 A 19840207 - WRIGHT ALLEN J [US]
- EP 0146207 A2 19850626 - DUBILIER PLC [GB]
- US 4255638 A 19810310 - CONTARINO ALFRED F
- US 4659881 A 19870421 - DOWE DAVID R [US]
- DE 2740746 A1 19780316 - BK PATENT DEV

## Cited by

DE19648945B4; US5412170A; US5453588A; EP0720194A4; FR2958072A1; CN102822924A; US5473809A; US5724719A; US5852867A; EP1329921A3; WO2011116944A1; WO9200597A1; US6205650B1

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