

Title (en)
Multi-function electrical input device

Title (de)
Multifunktionsschalter

Title (fr)
Commutateur multi-fonctions

Publication
EP 2093785 A1 20090826 (DE)

Application
EP 08003224 A 20080222

Priority
EP 08003224 A 20080222

Abstract (en)

The switch has an actuating element (1) i.e. press or rotary button, that is supported in a twistable manner. Four press switches (21-24) are attached to the actuating element for electrical switching functions. The switches are arranged together in a crosswise manner and coupled with an evaluation unit and connecting contacts, where the evaluation unit is arranged outside the switch. Eight switching functions are assigned to the press switches in star shaped rotatable switching positions of the actuating element. Light source designed of LED, is arranged on a printed circuit board (4). The press or rotary button is coupled with a fork light barrier (15) designed as a ring made of ferromagnetic material.

Abstract (de)

Ein Multifunktionsschalter, insbesondere für ein Kraftfahrzeug, umfasst ein getastet kreuzweise verschwenkbares sowie verdrehbar gelagertes Betätigungsselement (1), dem vier kreuzförmig zueinander angeordnete und mit einer Auswerteeinheit sowie Anschlusskontakten gekoppelte Druckschalter (21, 22, 23, 24) für elektrische Schaltfunktionen zugeordnet sind. Den vier Druckschaltern (21, 22, 23, 24) sind acht Schaltfunktionen in sternförmigen Schwenkschaltstellungen des Betätigungsselementes (1, 30) zugeordnet.

IPC 8 full level

H01H 25/04 (2006.01); **G05G 9/047** (2006.01)

CPC (source: EP)

H01H 25/041 (2013.01); **G05G 2009/04718** (2013.01); **G05G 2009/04744** (2013.01); **G05G 2009/04755** (2013.01); **G05G 2009/04759** (2013.01); **G05G 2009/04766** (2013.01); **G05G 2009/04777** (2013.01); **G05G 2009/04781** (2013.01); **H01H 2025/043** (2013.01); **H01H 2025/046** (2013.01); **H01H 2025/048** (2013.01)

Citation (applicant)

- EP 1750194 A1 20070207 - NILES CO LTD [JP]
- DE 10339469 A1 20040311 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Citation (search report)

- [XY] EP 1750194 A1 20070207 - NILES CO LTD [JP]
- [Y] DE 10046749 C1 20011220 - KOSTAL LEOPOLD GMBH & CO KG [DE]
- [Y] DE 102006011276 B3 20070906 - SILCOS GMBH [DE]
- [Y] DE 3524439 A1 19870122 - KIRSTEN ELEKTROTECH [DE]
- [A] JP H0714475 A 19950117 - ALPS ELECTRIC CO LTD, et al

Cited by

DE102018120562B4; JP2016225239A; CN102770931A; CN102637546A; CN110931301A; US2015094665A1; US9352083B2;
DE102018120562A1; CN110187735A; US9711305B2; WO2022166787A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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