

Title (en)
MICRO SWITCH

Title (de)
MIKROSCHALTER

Title (fr)
MICROCOMMUTATEUR

Publication
EP 4276865 A1 20231115 (EN)

Application
EP 22172949 A 20220512

Priority
EP 22172949 A 20220512

Abstract (en)
A micro switch (100) comprises a casing (10), a circuit board (20) assembled with the casing (10), and a switching assembly (40). The circuit board (20) has a first side (21), a plurality of first printed circuits (22) arranged on the first side (21), at least one first resistor (23) disposed on the first side (21), and a trigger structure 24 located on the first side (21), two of the first printed circuits (22) extend out of the casing (10) to serve as at least two first conductive pins (221, 222), the first printed circuits (22), the first resistor (23) and the trigger structure (24) cause the two first conductive pins (221, 222) generate at least two first electrical signals. The switching assembly (40) comprises an elastic member (41), and an operating member (42) connected with the elastic member (41), the operating member (42) contacts the trigger structure (24) when being displaced, and causes one of the two first electrical signals generated by the two first conductive pins (221, 222) change to the other one of the two first electrical signals.

IPC 8 full level
H01H 9/02 (2006.01); **H01H 3/02** (2006.01); **H01H 13/18** (2006.01); **H01H 13/28** (2006.01)

CPC (source: EP)
H01H 3/0213 (2013.01); **H01H 13/28** (2013.01); **H01H 13/807** (2013.01)

Citation (applicant)
• JP H0113583 B2 19890307
• CN 105489429 A 20160413 - OMRON TATEISI ELECTRONICS CO
• US 10256056 B2 20190409 - MIYOSHI TETSUHIKO [JP], et al
• EP 3002768 B1 20171108 - OMRON TATEISI ELECTRONICS CO [JP]
• JP 6188155 B2 20170830
• CN 204167164 U 20150218 - ALPS ELECTRIC CO LTD

Citation (search report)
• [A] US 2016099119 A1 20160407 - MIYOSHI TETSUHIKO [JP], et al
• [A] EP 3745436 B1 20211201 - KEDU ELECTRIC CO LTD [CN]
• [A] US 2017092445 A1 20170330 - ZHANG HUA [CN], et al
• [A] JP 6188155 B2 20170830

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4276865 A1 20231115

DOCDB simple family (application)
EP 22172949 A 20220512