

Title (en)

Switch, in particular self-adjusting pedal-box switch

Title (de)

Schalter, insbesondere selbsteinstellender Pedalgehäuseschalter

Title (fr)

Commutateur, en particulier commutateur à auto-ajustement dans caisse pour pédale

Publication

EP 1111632 B1 20060607 (EN)

Application

EP 00103013 A 20000215

Priority

DE 19961600 A 19991221

Abstract (en)

[origin: EP1111632A1] The switch (1) serves in particular to monitor the adjustment of brake or clutch pedals for vehicles. It has facilities for self-adjustment, with protection, when the switch is installed into a pedal-box carrier (2) that is mounted perpendicular to the pivot plane of a spindle (3) and above the moveable pedal body (4). The switch (1) has a housing (6) with fixed contacts (7) that are connected to terminals (7a) on the side of the switch housing. In the switch housing (6) is a moveable contact bridge carrier (8), which pivots on a spindle (9) when the switch is installed and which is positioned parallel to the pivot bearing spindle (3) of the pedal body (4). The contact bridge carrier (8) in the switch housing (6) is constructed in two parts, consisting of a rotor (11) with a contact bridge (12), which is located in the switch housing (6) and rotates against the force of a return spring (10), and a swivel plunger (13), which can be adjusted incrementally and which is pivoted on the same spindle (9) as the rotor (11) and works together with the shaft (5) of the pedal body (4) or with a pedal flag attached to the pedal body (4). When the switch (1) is mounted in the pedal box carrier (2), external stops (14) on the rotor (11) that are perpendicular to the direction of movement of the rotor (11), work together with the moveable locking pins (15) to lock the rotor (11) until just before the switch reaches its final installed position. When the switch is inserted into the U-shaped mounting slot (16) in the pedal box carrier (2), the locking pins (15) on the switch housing (6) are held in a locked position by the edges of the slot, and are released by the clearance notches (16a) in the mounting slot when the switch is in its final installed position. While the rotor (11) is locked, the plunger (13) is forced by the pedal flag or pedal body to index incrementally by means of indexing pin (25) into the rotor's ratchet teeth (24). <IMAGE>

IPC 8 full level

H01H 3/16 (2006.01)

CPC (source: EP)

H01H 3/166 (2013.01); **H01H 2003/167** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1111632 A1 20010627; **EP 1111632 B1 20060607**; AT E329357 T1 20060615; DE 19961600 A1 20010705; DE 60028520 D1 20060720

DOCDB simple family (application)

EP 00103013 A 20000215; AT 00103013 T 20000215; DE 19961600 A 19991221; DE 60028520 T 20000215