

Title (en)
SWITCH APPARATUS, IN PARTICULAR A CONTACTOR

Publication
EP 0356819 A3 19911106 (DE)

Application
EP 89115184 A 19890817

Priority
DE 8810908 U 19880829

Abstract (en)
[origin: US4987397A] An electromagnetic switching device having a magnet system with a magnet yoke and armature, this armature being connected to a contact carrier, which is movably guided in the housing of the switching device and has switching contacts lying one behind the other at right angles to the actuating direction. Together with stationary contacts, these switching contacts form make or break contacts, with supporting or locking stops being provided for switching contacts in the contact carrier. The contact carriers are guided with clearance in the housing, so that a tilting is possible. With regard to this tilting motion, the free path, that is the path which is required from the point where all break contacts are disengaged up to the point where all make contact are brought into contact, must be cut off at the last disengaging break contact. To keep this free path relatively long, the stops are arranged in the contact bridge carrier in a staggered manner.

IPC 1-7
H01H 50/54; **H01H 50/66**

IPC 8 full level
H01H 50/54 (2006.01); **H01H 50/64** (2006.01)

CPC (source: EP US)
H01H 50/546 (2013.01 - EP US)

Citation (search report)
• [Y] FR 2519187 A1 19830701 - TELEMECANIQUE ELECTRIQUE [FR]
• [Y] US 3109905 A 19631105 - FIRTH MARQUIS JOHN
• [A] DE 1490042 B1 19710304 - METZENAUER & JUNG GMBH
• [A] DE 1301393 B 19690821 - SPINDLER DEISSLER STARKSTROM
• [AD] DE 2027136 A1 19720420 - SIEMENS AG

Designated contracting state (EPC)
AT CH DE FR GB IT LI SE

DOCDB simple family (publication)
US 4987397 A 19910122; AT E117460 T1 19950215; DE 58908904 D1 19950302; DE 8810908 U1 19881013; EP 0356819 A2 19900307; EP 0356819 A3 19911106; EP 0356819 B1 19950118; JP 2516991 Y2 19961113; JP H0244240 U 19900327

DOCDB simple family (application)
US 39865589 A 19890825; AT 89115184 T 19890817; DE 58908904 T 19890817; DE 8810908 U 19880829; EP 89115184 A 19890817; JP 9981089 U 19890825