

Title (en)

Multiple switch, in particular for motor vehicles.

Title (de)

Mehrfachscharter, insbesondere für Kraftfahrzeuge.

Title (fr)

Commutateur multiple, notamment pour véhicules à moteur.

Publication

EP 0530465 A1 19930310 (DE)

Application

EP 92111559 A 19920708

Priority

DE 4128315 A 19910827

Abstract (en)

[origin: JPH05250949A] PURPOSE: To excellently distribute burning loss of a rotary contact piece part and a fixed contact piece on the whole contact surface by having a peripheral surface for generating static friction for rotating a bridging contact piece or a contact piece roller in a control part which comes into contact with a control slope. CONSTITUTION: Each bridging contact piece 4.1, etc., has a control part 4d projecting radially outward in the direction of the vertical axis line of the contact piece 4.1, etc., in addition to a contact roller 4c. This part 4d is formed as a cylindrical control extension part and comes into contact with a control slope 5 arranged radially outward of each fixed contact piece for each opening and closing process. The part 4d has a peripheral surface generating static friction for the rotation of the contact piece 4.1, etc., with the vertical axis line as the center, is made independent and separated from electric contact every time the roller 4c is engaged with the slope 5 and is forced to rotate. Therefore, because all the peripheries of the roller 4c can gradually be used as contact portions when an operating period is long, the possibility of local burning loss of the contact piece around the roller 4c is remarkably reduced and life of the switch can be prolonged.

Abstract (de)

Die Kontaktanordnung für die Kontaktgabe zwischen der Kontaktrolle (4c) an jeder Kontaktbrücke (4.1, 4.2) und dem oder den Festkontakten (3, 3a, 3b) des Mehrfachscharter ist so ausgebildet, daß die Kontaktstelle sich bei aufeinanderfolgenden Schaltvorgängen am Umfang der Kontaktrolle (4c) jeweils schrittweise in Umfangsrichtung verlagert. Hierdurch wird der Kontaktabbrand sowohl an den rotierenden Kontaktteilen als auch an den Festkontakten des Schalter über die gesamten Kontaktflächen besser verteilt. Diese Maßnahme ist gleichermaßen für Schalter mit Dreh- wie auch mit Linearbewegung anwendbar. <IMAGE>

IPC 1-7

H01H 1/16

IPC 8 full level

H01H 1/16 (2006.01)

CPC (source: EP US)

H01H 1/16 (2013.01 - EP US)

Citation (search report)

- [A] DE 3441161 A1 19860417 - MERTEN GUENTER
- [AD] DE 3315994 A1 19841108 - MERTEN GUENTER
- [AD] DE 3219853 A1 19831201 - MERTEN GUENTER
- [AD] US 2820126 A 19580114 - MURRAY JAMES S

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 4128315 C1 19930211; AU 2126892 A 19930304; AU 655833 B2 19950112; EP 0530465 A1 19930310; JP H05250949 A 19930928; JP H0685286 B2 19941026; US 5264669 A 19931123

DOCDB simple family (application)

DE 4128315 A 19910827; AU 2126892 A 19920824; EP 92111559 A 19920708; JP 26264492 A 19920819; US 93675292 A 19920827