

Title (en)
ELECTROMECHANICAL SWITCHING DEVICE

Title (de)
ELEKTROMECHANISCHES SCHALTGERÄT

Title (fr)
DISPOSITIF DE COMMUTATION ELECTROMECHANIQUE

Publication
EP 0979549 A1 20000216 (EN)

Application
EP 97934955 A 19970709

Priority
• US 9712310 W 19970709
• US 2143596 P 19960709

Abstract (en)
[origin: WO9801928A1] An electromechanical switching device (10) ensures automatic selected polarity interconnection between terminals of two power sources (14, 12). A double pole double throw (DPDT) switch (34) has three pairs of contacts. A first pair of leads connect to two pairs of contacts in a manner that reverses polarity when switched, while a second pair of leads connect to the other pair of contacts. A switch controller (36) employs a plurality of coils in electrical communication with the two pairs of leads. The coils are arranged and configured so that, when the two pairs of leads are connected to the respective power sources (14, 12), the coils cause an actuator to move the switch (34) automatically into the correct polarity state regardless of the connections of the leads. The invention is described as a battery jumper cable and to automatically connect like terminals of a pair of batteries (14, 12). The invention encompasses the method of this device.

IPC 1-7
H02B 1/24

IPC 8 full level
H01H 47/22 (2006.01); **H01H 51/06** (2006.01); **H02B 1/24** (2006.01); **H02H 11/00** (2006.01); **H02J 7/00** (2006.01); **B60R 16/02** (2006.01); **B60R 16/03** (2006.01)

CPC (source: EP)
H02B 1/24 (2013.01); **H02J 1/122** (2020.01); **H02J 7/0034** (2013.01); **B60R 16/03** (2013.01); **H02J 2310/46** (2020.01)

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9801928 A1 19980115; AU 3800397 A 19980202; AU 717169 B2 20000316; BR 9710172 A 20000111; CA 2257521 A1 19980115; CA 2257521 C 20011204; EP 0979549 A1 20000216; EP 0979549 A4 20001206; JP 2001506117 A 20010508

DOCDB simple family (application)
US 9712310 W 19970709; AU 3800397 A 19970709; BR 9710172 A 19970709; CA 2257521 A 19970709; EP 97934955 A 19970709; JP 50538998 A 19970709