

Title (en)
Interruption device for high-tension DC

Title (de)
Unterbrechungsvorrichtung für Hochspannungsgleichstrom

Title (fr)
Dispositif pour la coupure d'un courant continu à haute tension

Publication
EP 0749140 B1 19991006 (FR)

Application
EP 96401236 A 19960610

Priority
FR 9506988 A 19950613

Abstract (en)
[origin: EP0749140A1] The breaker includes two identical modules connected in series between the two lines of a high voltage dc distribution network. Each module includes two series resistors (R1,R2) in parallel with two circuit breakers (D1,D2). An isolating switch (S) is connected in series with the two resistors. A fault detector (DD) with two inputs measures the current generated by a current transformer and the voltage. By analysing this information the detector can identify a fault. Each resistor includes a number of carbon matrix polymer disks (13) with metallised surfaces. These disks are separated by copper disks (14) the whole structure being flanked by two metal plates (11,12). The structure is then enclosed in an envelope filled with a dielectric gas.

IPC 1-7
H01H 33/59; **H01H 33/16**

IPC 8 full level
H01H 33/16 (2006.01); **H01H 33/59** (2006.01)

CPC (source: EP)
H01H 33/161 (2013.01); **H01H 33/596** (2013.01); **H01H 2009/0083** (2013.01)

Cited by
FR2883658A1; KR101521545B1; CN102656656A; CN104685597A; US8884176B2; US10096989B2; WO2011050832A1; WO2006100192A1; WO2015053484A1

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

DOCDB simple family (publication)
EP 0749140 A1 19961218; **EP 0749140 B1 19991006**; AT E185445 T1 19991015; DE 69604533 D1 19991111; DE 69604533 T2 20000531; ES 2138301 T3 20000101; FR 2735611 A1 19961220; FR 2735611 B1 19970711

DOCDB simple family (application)
EP 96401236 A 19960610; AT 96401236 T 19960610; DE 69604533 T 19960610; ES 96401236 T 19960610; FR 9506988 A 19950613