

Title (en)

ACTIVE FILTER HAVING MULTILEVEL TOPOLOGY

Title (de)

AKTIVFILTER MIT EINER MULTILEVEL-TOPOLOGIE

Title (fr)

FILTRE ACTIF AYANT UNE TOPOLOGIE MULTI-NIVEAUX

Publication

EP 2147491 A1 20100127 (DE)

Application

EP 08735680 A 20080402

Priority

- EP 2008053922 W 20080402
- DE 102007018343 A 20070416

Abstract (en)

[origin: WO2008125493A1] In order to provide a cost-effective device (1) for influencing the transmission of electric energy of an alternating voltage line (2) having a plurality of phases with phase modules (5a, 5b, 5c), which each have an alternating voltage terminal (6a, 6b, 6c) for connecting to a phase of the alternating voltage line (2) and two connecting terminals (7p, 7n), wherein between each connecting terminal (7p, 7n) and each alternating voltage terminal (6a, 6b, 6c) a phase module branch (8ap, 8bp, 8cp, 8an, 8bn, 8cn) extends, which is made of a series connection of sub-modules (9), each having a power semiconductor circuit and an energy accumulator (15) connected in parallel to the power semiconductor circuit, and wherein the connecting terminals (7p, 7n) are connected to one another, it is proposed to equip the power semiconductor circuit with power semiconductors (13) that can be switched off and are connected to each other in a half bridge.

IPC 8 full level

H02J 3/18 (2006.01)

CPC (source: EP US)

H02J 3/1857 (2013.01 - EP US); **H02M 7/4835** (2021.05 - EP US); **Y02E 40/20** (2013.01 - EP US)

Citation (search report)

See references of WO 2008125493A1

Citation (examination)

- DE 10103031 A1 20020725 - MARQUARDT RAINER [DE]
- US 5648894 A 19970715 - DEDONCKER RIK WIVINA ANNA ADEL [US], et al
- US 2005281067 A1 20051222 - DENG DUO [US], et al
- JIH-SHENG LAI ET AL: "Multilevel Converters-A New Breed of Power Converters", IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 32, no. 3, 1 June 1996 (1996-06-01), XP011022014, ISSN: 0093-9994

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2008125493 A1 20081023; BR PI0811050 A2 20150127; BR PI0811050 B1 20190226; BR PI0811050 B8 20230425; CN 101682190 A 20100324; CN 101682190 B 20130911; DE 102007018343 A1 20081030; EP 2147491 A1 20100127; JP 2010524425 A 20100715; JP 5371952 B2 20131218; RU 2009141969 A 20110527; RU 2453963 C2 20120620; US 2010127769 A1 20100527; US 7969238 B2 201110628

DOCDB simple family (application)

EP 2008053922 W 20080402; BR PI0811050 A 20080402; CN 200880012348 A 20080402; DE 102007018343 A 20070416; EP 08735680 A 20080402; JP 2010503446 A 20080402; RU 2009141969 A 20080402; US 59528308 A 20080402