

Title (en)

DEVICE FOR EFFECTING THE BASIC INTERFERENCE SUPPRESSION OF A MATRIX CONVERTER

Title (de)

VORRICHTUNG ZUR GRUNDENTSTÖRUNG EINES MATRIXUMRICHTERS

Title (fr)

DISPOSITIF D'ANTIPARASITAGE PAR MISE A LA MASSE D'UN CONVERTISSEUR MATRICIEL

Publication

EP 1310037 A1 20030514 (DE)

Application

EP 01956421 A 20010803

Priority

- DE 0102978 W 20010803
- DE 10039957 A 20000816

Abstract (en)

[origin: WO0215376A1] The invention relates to a device for effecting the basic interference suppression of a matrix converter (2) comprising an input filter (10) provided with capacitors (14). According to the invention, a suppression capacitor (CY1,CY2,CY3) is provided for each input phase (U, V, W) of the matrix converter (2). Said suppression capacitors are electrically connected in star, and the star point (16) thereof is connected in an electrically conductive manner to the ground potential. These suppression capacitors (CY1,CY2,CY3), which are electrically connected in star, are electrically connected in parallel to the capacitors (14) of the input filter (10). By using few capacitors and an input filter (10) of a matrix converter (2), a device is thus obtained for effecting the basic interference suppression of the matrix converter (2). This device can also be considered, analogous to a frequency converter, as a network filter.

IPC 1-7

H02M 5/27; **H02M 5/297**

IPC 8 full level

H02M 1/12 (2006.01); **H02M 5/27** (2006.01); **H02M 5/297** (2006.01)

CPC (source: EP US)

H02M 1/126 (2013.01 - EP US); **H02M 5/271** (2013.01 - EP US); **H02M 5/297** (2013.01 - EP US)

Citation (search report)

See references of WO 0215376A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0215376 A1 20020221; CN 1437789 A 20030820; DE 10039957 A1 20020307; EP 1310037 A1 20030514; US 2003179594 A1 20030925

DOCDB simple family (application)

DE 0102978 W 20010803; CN 01811630 A 20010803; DE 10039957 A 20000816; EP 01956421 A 20010803; US 34477403 A 20030218