

Title (en)
CONVERTER

Title (de)
WANDLER

Title (fr)
CONVERTISSEUR

Publication
EP 2564496 A1 20130306 (EN)

Application
EP 10715563 A 20100429

Priority
EP 2010055842 W 20100429

Abstract (en)
[origin: WO2011134521A1] A power electronic converter (10) for use in high voltage direct current power transmission and reactive power compensation comprises at least one converter limb (12) including first and second DC terminals (14,16) connected in use to a DC network (22), and an AC terminal (18) connected in use to an AC network (26), the or each converter limb (12) defining first and second limb portions (32,34), each limb portion (32,34) including one or more primary switching elements (36) connected between a respective one of the first and second DC terminals (14,16) and the AC terminal (18), the or each primary switching element (36) being operable to switch the respective limb portion (32,34) in and out of circuit to facilitate the AC to DC conversion process; and at least one transformer (42) including mutually coupled first and second windings (38,40), the or each first winding (38) being operably associated with a respective converter limb (12) and the or each second winding (40) being operably associated with an auxiliary converter (44), wherein the or each auxiliary converter (44) is operable to modify the voltage and/or current waveforms at the AC and/or DC terminals (14,16,18) of the respective converter limb (12).

IPC 8 full level
H02M 1/12 (2006.01); **H02J 3/36** (2006.01); **H02M 1/15** (2006.01); **H02M 7/757** (2006.01)

CPC (source: EP US)
H02J 3/01 (2013.01 - EP); **H02J 3/1814** (2013.01 - EP); **H02J 3/36** (2013.01 - EP); **H02M 1/12** (2013.01 - EP US); **H02M 1/15** (2013.01 - EP); **H02M 7/4835** (2021.05 - EP US); **H02M 7/7575** (2013.01 - EP); **H02M 1/0095** (2021.05 - EP US); **Y02E 40/10** (2013.01 - EP); **Y02E 40/40** (2013.01 - EP); **Y02E 60/60** (2013.01 - EP)

Citation (search report)
See references of WO 2011134521A1

Citation (examination)
• US 2008007978 A1 20080110 - HAN BYUNG MOON [KR]
• GEMMELL B ET AL: "Prospects of Multilevel VSC Technologies for Power Transmission", TRANSMISSION AND DISTRIBUTION CONFERENCE AND EXPOSITION, 2008. T&D. IEEE/PES, IEEE, PISCATAWAY, NJ, USA, 21 April 2008 (2008-04-21), pages 1 - 16, XP002625037, ISBN: 978-1-4244-1903-6, DOI: 10.1109/TDC.2008.4517192
• M CLAUS ET AL: "Mehr Spannungsqualität im Netz - mit SVC PLUS", INTERNATIONALER ETG-KONGRESS 2009, 28 October 2009 (2009-10-28), pages 1 - 35, XP055026076

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