

Title (en)
METHOD AND SYSTEM FOR SELECTING BETWEEN CENTRALIZED AND DISTRIBUTED MAXIMUM POWER POINT TRACKING IN AN ENERGY GENERATING SYSTEM

Title (de)
VERFAHREN UND SYSTEM ZUR AUSWAHL ZWISCHEN ZENTRALISierter UND VERTEILTER MAXIMALLEISTUNGSPUNKTVERFOLGUNG IN EINEM ENERGIEERZEUGUNGSSYSTEM

Title (fr)
PROCÉDÉ ET SYSTÈME DE SÉLECTION DE LA POURSUITE DU POINT DE PUISSANCE MAXIMUM SELON QUE LE MODE EST CENTRALISÉ OU DISTRIBUÉ DANS UN SYSTÈME DE PRODUCTION D'ÉNERGIE

Publication
EP 2291899 A4 20150304 (EN)

Application
EP 09747632 A 20090514

Priority

- US 2009044036 W 20090514
- US 15256608 A 20080514
- US 15247808 A 20080514

Abstract (en)
[origin: WO2009140551A2] A method for selecting between centralized and distributed maximum power point tracking in an energy generating system (500) is provided. The energy generating system (500) includes a plurality of energy generating devices (502), each of which is coupled to a corresponding local converter (504). Each local converter (504) includes a local controller (508) for the corresponding energy generating device (502). The method includes determining whether the energy generating devices (502) are operating under quasi-ideal conditions. The energy generating system (500) is placed in a centralized maximum power point tracking (CMPPT) mode when the energy generating devices (502) are operating under quasi-ideal conditions and is placed in a distributed maximum power point tracking (DMPPT) mode when the energy generating devices (502) are not operating under quasi-ideal conditions.

IPC 8 full level
H02J 7/35 (2006.01); **G01R 31/26** (2014.01); **G01R 31/40** (2014.01); **G05F 1/67** (2006.01); **H02J 3/38** (2006.01); **H02M 7/48** (2007.01)

CPC (source: EP US)
G05F 1/67 (2013.01 - EP US); **H02J 3/381** (2013.01 - EP US); **H02S 50/00** (2013.01 - EP); **H02J 2300/24** (2020.01 - EP US); **H02J 2300/26** (2020.01 - EP US); **Y02E 10/56** (2013.01 - EP)

Citation (search report)

- [A] US 5327071 A 19940705 - FREDERICK MARTIN E [US], et al
- [A] MEINHARDT M ET AL: "Multi-string-converter with reduced specific costs and enhanced functionality", SOLAR ENERGY, PERGAMON PRESS. OXFORD, GB, vol. 69, 1 July 2001 (2001-07-01), pages 217 - 227, XP004303022, ISSN: 0038-092X, DOI: 10.1016/S0038-092X(01)00067-6
- [A] ROMAN E ET AL: "Intelligent PV module for grid-connected PV systems", INDUSTRIAL ELECTRONICS SOCIETY, 2004. IECON 2004. 30TH ANNUAL CONFERENCE OF IEEE BUSAN, SOUTH KOREA 2-6 NOV. 2004, PISCATAWAY, NJ, USA, IEEE, vol. 3, 2 November 2004 (2004-11-02), pages 3082 - 3087, XP010799463, ISBN: 978-0-7803-8730-0, DOI: 10.1109/IECON.2004.1432304
- See references of WO 2009140551A2

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DOCDB simple family (application)
US 2009044036 W 20090514; CN 200980123556 A 20090514; EP 09747632 A 20090514; JP 2011509723 A 20090514; KR 20107028019 A 20090514; TW 98115860 A 20090513