

Title (en)
HIGH POWER PHOTOVOLTAIC PLANT FOR GENERATING ENERGY

Title (de)
LEISTUNGSSTARKE FOTOVOLTAIKANLAGE ZUR ENERGIEERZEUGUNG

Title (fr)
CENTRALE PHOTOVOLTAÏQUE HAUTE PUISSANCE DESTINÉE À LA PRODUCTION D'ÉLECTRICITÉ

Publication
EP 2710702 A1 20140326 (EN)

Application
EP 12726190 A 20120427

Priority
• IT VI20110112 A 20110429
• IB 2012052122 W 20120427

Abstract (en)
[origin: WO2012147058A1] A photovoltaic plant for comprises a plurality of strings (2, 2', 2'',...) each having two or more photovoltaic panels (3, 3', 3'',...) connected in series, at least one junction box (4, 4', 4'',...) connected to one or more strings (2, 2', 2'',...) and housing at least one current converter (5, 5', 5'',...) to vary the power energy generated by each single string (2, 2', 2'',...) and a peripheral control unit (6, 6', 6'',...) for controlling the converter (5, 5', 5'',...); at least one inverter (7, 7', 7'',...) connected to each converter (5, 5', 5'',...) for injecting into the net (R) the electrical energy produced by the strings (2, 2', 2'',...), a central control unit (8) connected to the inverter (7, 7', 7'',...) to control the energy generate by said plurality of strings (2, 2', 2'',...) and to each periphery unit (6, 6', 6'',...) to control the output electric power from each junction box (4, 4', 4'',...). The central control unit (8) comprises sensor means (18) associated with the inverter (7, 7', 7'',...) to detect the electric parameters associated with the energy injected into the net (R) and to control the converters (5, 5', 5'',...), the central control unit (8) being housed into a casing (9) different and spatially spaced apart with respect to each junction box (4, 4', 4'',...) and from the inverter (7, 7', 7'',...) to allow separate and independent operation on each between the central control unit (8) and at least one inverter (7, 7', 7'',...).

IPC 8 full level
H02J 3/38 (2006.01)

CPC (source: EP US)
H02J 3/38 (2013.01 - EP US); **H02J 3/381** (2013.01 - EP US); **H02J 3/466** (2020.01 - EP US); **H02J 2300/24** (2020.01 - EP US); **Y02E 10/56** (2013.01 - EP)

Citation (search report)
See references of WO 2012147058A1

Designated contracting state (EPC)
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