

Title (en)
PHOTOVOLTAIC POWER STATION

Title (de)
FOTOVOLTAISCHES KRAFTWERK

Title (fr)
CENTRALE ÉLECTRIQUE PHOTOVOLTAÏQUE

Publication
EP 3701614 A4 20210414 (EN)

Application
EP 18870842 A 20180531

Priority
• US 201715796506 A 20171027
• US 2018035454 W 20180531

Abstract (en)
[origin: WO2019083567A1] A photovoltaic (PV) power station includes at least one AC power production unit. The AC power production unit includes an energy reservoir that is supplied with DC energy from a DC power generator, such as PV panels. The energy reservoir is used as a buffer to store energy, and improve the efficiency of the PV power station. Whether or not an energy reservoir is used, decoupler devices may be used to prevent power annihilation that can decrease the amount of power delivered by the power station to the grid. In system integration for a PV power station, it is found that the declared rating of DC/AC converter in power grid convention should not be taken as the power conversion capability.

IPC 8 full level
H02J 3/38 (2006.01); **G05F 1/67** (2006.01); **H02J 3/14** (2006.01); **H02J 7/34** (2006.01); **H02M 7/66** (2006.01)

CPC (source: EA EP KR US)
G05F 1/67 (2013.01 - EA EP KR US); **H02J 3/32** (2013.01 - EA EP KR US); **H02J 3/381** (2013.01 - EA EP KR US); **H02J 3/44** (2013.01 - KR); **H02J 7/35** (2013.01 - EA EP KR); **H02M 7/493** (2013.01 - KR); **H02J 3/44** (2013.01 - EA EP US); **H02J 2300/26** (2020.01 - EA EP KR US); **H02M 7/493** (2013.01 - EA EP US); **Y02E 10/56** (2013.01 - EA EP KR); **Y02E 70/30** (2013.01 - EA KR); **Y02P 90/50** (2015.11 - EA EP KR)

Citation (search report)
• [I] US 2011133552 A1 20110609 - BINDER YARON [IL], et al
• [A] US 2013154570 A1 20130620 - NOMURA YOUJIROU [JP]
• See also references of WO 2019083567A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019083567 A1 20190502; AU 2018355030 A1 20200423; AU 2018355030 B2 20221013; BR 112020007759 A2 20201020; CA 3077416 A1 20190502; CL 2020001034 A1 20201016; CN 111492553 A 20200804; CO 2020005190 A2 20200529; EA 202091048 A1 20200806; EP 3701614 A1 20200902; EP 3701614 A4 20210414; JP 2021501558 A 20210114; JP 7212050 B2 20230124; KR 102376838 B1 20220318; KR 20200080238 A 20200706; MX 2020004135 A 20200813; PH 12020550459 A1 20210322; TW 201918008 A 20190501; TW I681617 B 20200101

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