

Title (en)
POWER SYSTEM

Title (de)
STROMVERSORGUNGSSYSTEM

Title (fr)
SYSTÈME D'ALIMENTATION

Publication
EP 4197075 A4 20240403 (EN)

Application
EP 21946273 A 20211019

Priority
US 2021055671 W 20211019

Abstract (en)
[origin: WO2023069082A1] A power system provides power from a power source to a load via a distribution bus, and includes a DC-DC converter coupled in parallel with a network of switching elements coupled between an output terminal of the power source and the distribution bus. A controller is configured to selectively activate or deactivate the DC-DC converter and each of the switching elements to enable the power source to power the load via the distribution bus. The switching elements may be transistors, and the diodes may be parasitic body diodes of the transistors. The power source may be a battery, such as a rechargeable battery. An output voltage level from the battery may be regulated by the controller as a function of operation of the DC-DC converter and a number of the activated or deactivated transistors.

IPC 8 full level
H02J 1/04 (2006.01); **H02J 1/08** (2006.01); **H02J 1/10** (2006.01); **H02J 7/04** (2006.01); **H02J 7/34** (2006.01)

CPC (source: EP)
H02J 1/04 (2013.01); **H02J 1/084** (2020.01); **H02J 7/342** (2020.01); **H02J 1/10** (2013.01); **H02J 7/04** (2013.01); **H02J 2207/20** (2020.01)

Citation (search report)

- [A] US 2020350779 A1 20201105 - TIKHONSKI ALEXEI [US], et al
- [A] US 2010164400 A1 20100701 - ADRAGNA CLAUDIO [IT]
- [A] US 2021211057 A1 20210708 - ESTEGHLAL GHOLAMABAS [DE]
- See also references of WO 2023069082A1

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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2023069082 A1 20230427; CN 116267028 A 20230620; EP 4197075 A1 20230621; EP 4197075 A4 20240403

DOCDB simple family (application)
US 2021055671 W 20211019; CN 202180039439 A 20211019; EP 21946273 A 20211019