

Title (en)
INTEGRATED POWER REGULATOR AND METHOD

Title (de)
INTEGRIERTER LEISTUNGSREGLER UND VERFAHREN

Title (fr)
RÉGULATEUR DE COURANT INTÉGRÉ ET PROCÉDÉ ASSOCIÉ

Publication
EP 3914986 A1 20211201 (EN)

Application
EP 20767041 A 20200306

Priority
• US 201962814629 P 20190306
• CN 2020078111 W 20200306

Abstract (en)
[origin: WO2020177757A1] An integrated power regulator comprises a plurality of power modules connected in parallel between a positive terminal and a negative terminal of a power source. Each power module of the plurality of power modules comprises a plurality of power conversion cells connected in parallel between the positive terminal and the negative terminal of the power source. A first power conversion cell and a second power conversion cell of the plurality of power conversion cells are configured to operate in two different operating phases. A third power conversion cell and a fourth power conversion cell of the plurality of power conversion cells are configured to operate in a same operating phase.

IPC 8 full level
G05F 1/10 (2006.01)

CPC (source: EP)
H02M 1/0032 (2021.05); **H02M 1/14** (2013.01); **H02M 3/1584** (2013.01); **H02M 3/1586** (2021.05); **Y02B 70/10** (2013.01)

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

DOCDB simple family (publication)
WO 2020177757 A1 20200910; CN 113424127 A 20210921; CN 113424127 B 20230106; EP 3914986 A1 20211201; EP 3914986 A4 20220309

DOCDB simple family (application)
CN 2020078111 W 20200306; CN 202080010949 A 20200306; EP 20767041 A 20200306