

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)

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

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**CN 2020078111 W 20200306**; CN 202080010949 A 20200306; EP 20767041 A 20200306