

Title (en)

CIRCUITS FOR A HYBRID SWITCHED CAPACITOR CONVERTER

Title (de)

SCHALTUNGEN FÜR EINEN HYBRID-SCHALTKONDENSATORWANDLER

Title (fr)

CIRCUITS POUR CONVERTISSEUR DE CONDENSATEUR COMMUTÉ HYBRIDE

Publication

EP 3679447 A1 20200715 (EN)

Application

EP 18854933 A 20180905

Priority

- US 201715695955 A 20170905
- US 2018049491 W 20180905

Abstract (en)

[origin: WO2019050907A1] Circuits comprising: an inductor having a first side connected to VIN; a first switch having a first side connected to a second side of the inductor and the second side is not connected to the second side of the inductor; a second switch having a first side connected to VIN; a first capacitor having a first side connected to a second side of the second switch; a third switch having a first side connected to a second side of the first switch; a fourth switch having a first side connected to a second side of the third switch; a fifth switch having a first side connected to a second side of the first capacitor and to a second side of the fourth switch, and having a second side coupled to a voltage source; and a second capacitor having a first side connected to the first side of the fourth switch, and having a second side connected to the second side of the fifth switch.

IPC 8 full level

G05F 5/00 (2006.01); **H02J 7/00** (2006.01); **H02M 3/18** (2006.01)

CPC (source: CN EP KR)

H02M 1/0054 (2021.05 - KR); **H02M 1/007** (2021.05 - KR); **H02M 1/0095** (2021.05 - EP); **H02M 3/04** (2013.01 - CN); **H02M 3/07** (2013.01 - CN EP KR); **H02M 3/072** (2021.05 - KR); **H02M 3/10** (2013.01 - CN); **H02M 3/158** (2013.01 - CN EP KR); **H02J 7/00** (2013.01 - EP); **H02J 2207/20** (2020.01 - EP KR); **H02M 1/0054** (2021.05 - EP); **H02M 1/007** (2021.05 - EP); **H02M 3/072** (2021.05 - EP); **Y02B 70/10** (2013.01 - EP)

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 2019050907 A1 20190314; CN 111328388 A 20200623; CN 111328388 B 20211015; CN 113890332 A 20220104; EP 3679447 A1 20200715; EP 3679447 A4 20210519; KR 102137359 B1 20200723; KR 20200039803 A 20200416

DOCDB simple family (application)

US 2018049491 W 20180905; CN 201880070698 A 20180905; CN 202111108802 A 20180905; EP 18854933 A 20180905; KR 20207009539 A 20180905