

Title (en)

CONSTANT ON-TIME (COT) CONTROL IN ISOLATED CONVERTER

Title (de)

CONSTANT-ON-TIME (COT)-STEUERUNG IN EINEM ISOLIERTEN WANDLER

Title (fr)

COMMANDE DE TEMPS DE MARCHE CONSTANT (COT) DANS UN CONVERTISSEUR ISOLÉ

Publication

EP 3195460 A4 20180516 (EN)

Application

EP 15842620 A 20150917

Priority

- CN 201410483711 A 20140919
- US 201414562735 A 20141207
- US 2015050536 W 20150917

Abstract (en)

[origin: WO2016044497A1] The present invention discloses a constant on-time isolated converter comprising a transformer with a primary side and a secondary side. The primary side is connected to an electronic switch and secondary-side is connected to a load and a processor. The processor is connected to a driver on primary side through at least one coupling element and to the electronic switch. The processor receives an output voltage or an output current across the load generating a control signal accordingly. The driver receives the control signal through the coupling element and accordingly changes the ON/OFF state of the electronic switch, regulating the output voltage and the output current via the transformer, where the duration of the ON/OFF state of the electronic switch is determined between the moment control signal changes from negative to positive and the moment it changes from positive to negative to achieve a high-speed load transient response.

IPC 8 full level

H02M 3/335 (2006.01); **H02M 7/217** (2006.01); **H02M 1/00** (2006.01); **H02M 1/36** (2007.01)

CPC (source: EP KR)

H02M 1/0003 (2021.05 - KR); **H02M 1/0006** (2021.05 - KR); **H02M 1/36** (2013.01 - KR); **H02M 3/33515** (2013.01 - EP); **H02M 3/33523** (2013.01 - EP KR); **H02M 3/33592** (2013.01 - EP KR); **H02M 1/0003** (2021.05 - EP); **H02M 1/0006** (2021.05 - EP); **H02M 1/36** (2013.01 - EP); **Y02B 70/10** (2013.01 - EP)

Citation (search report)

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- See references of WO 2016044497A1

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 2016044497 A1 20160324; CN 105490567 A 20160413; CN 105490567 B 20180413; EP 3195460 A1 20170726; EP 3195460 A4 20180516; JP 2017529051 A 20170928; JP 6570202 B2 20190904; KR 101915057 B1 20181228; KR 20170048462 A 20170508; PH 12017500476 A1 20170731; PH 12017500476 B1 20170731

DOCDB simple family (application)

US 2015050536 W 20150917; CN 201410483711 A 20140919; EP 15842620 A 20150917; JP 2017515837 A 20150917; KR 20177008382 A 20150917; PH 12017500476 A 20170313