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

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Application
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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.

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