

Title (en)

RESONANT CONVERTER WITH PHASE DELAY CONTROL

Title (de)

RESONANZWANDLER MIT PHASENVERZÖGERUNGSSTEUERUNG

Title (fr)

CONVERTISSEUR AUTO-OSCILLANT A COMMANDE DE RETARD DE PROPAGATION DE PHASE

Publication

EP 1454408 A4 20081015 (EN)

Application

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Priority

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Abstract (en)

[origin: WO03055052A1] A phase delay control for a power converter operates with a phase locked loop and current sense feedback to provide improved control stability and dynamic output range. The phase lock loop includes a voltage controlled oscillator that is controlled based on an error signal derived from a phase of the power converter output. The error signal applied to the voltage controlled oscillator produces a shift in switching frequency for the converter to drive the error to zero. The power converter includes an LCC resonant circuit to manipulate resonant electrical energy to improve switching speed and power density.

IPC 1-7

H02M 7/5387

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 4719558 A 19880112 - HANADA ISAMU [JP], et al
- [A] US 5371666 A 19941206 - MILLER FRANK D [US]
- [X] US 4535399 A 19850813 - SZEPESI TAMAS S [DE]
- [X] US 5248866 A 19930928 - TANAKA TERUYA [JP], et al
- [XA] US 5486993 A 19960123 - SAKURAI YUKIHIRA [JP], et al
- See references of WO 03055052A1

Designated contracting state (EPC)

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