(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/11/2013
(21) Application No.10241/DELNP/2013 A
(43) Publication Date : 30/01/2015

(54) Title of the invention : A RESONANT MODE POWER SUPPLY WITH A MULTI WINDING INDUCTOR

(51) International classification :H02M3/335
(31) Priority Document No :P.395846
(32) Priority Date :02/08/2011
(33) Name of priority country :Poland
(86) International Application No :PCT/EP2012/064401
Filing Date :23/07/2012
(87) International Publication No :WO 2013/017456
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A resonant-mode power supply, comprising an assembly of switches connected in a bridge or a halfbridge configuration, a series resonant circuit connected in the bridge or half bridge diagonal, a part of which is formed by a multi-winding inductor by means of which a load is connected, and a controller configured to stabilize output voltages or currents by controlling the switching frequency of the assemblyof switches.The series resonant circuit com prises an energy recirculation circuit (ERC1) for limiting the resonant circuit quality factor, connected through the diode rectifier (DR2) to the supply voltage node and a current monitoring circuit (CMC) configured to monitor the recircu lation circuit current (Ilim) and, by means of the controller (C), to change the switching frequency of the assembly of switches (Kl, K2, K3, K4) in order to reduce power sup plied to the resonant circuit upon exceeding the threshold value by the current (Ilim) in the energy recirculation circuit (ERC1).

No. of Pages : 19 No. of Claims : 10