

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 February 2003 (13.02.2003)

PCT

(10) International Publication Number
WO 2003/012964 A3

(51) International Patent Classification⁷: **H02M 3/158**

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(21) International Application Number:
PCT/IB2002/002665

(22) International Filing Date: 26 June 2002 (26.06.2002)

(81) Designated States (*national*): CN, JP, KR.

(25) Filing Language: English

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

(26) Publication Language: English

(30) Priority Data:
09/918,959 31 July 2001 (31.07.2001) US

Published:
— with international search report

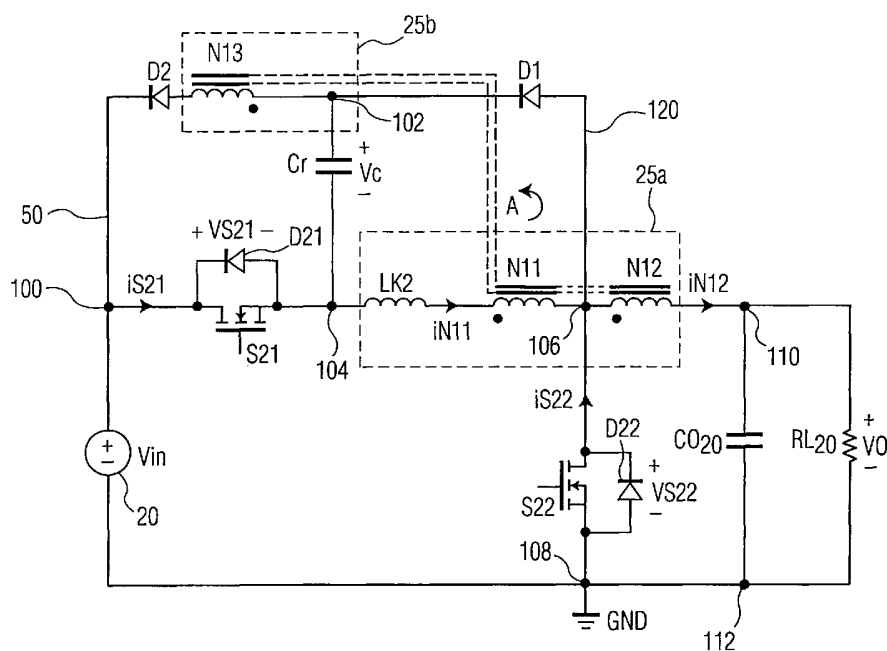
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(88) Date of publication of the international search report:
6 May 2004

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TAPPED-INDUCTOR STEP-DOWN CONVERTER



(57) Abstract: A tapped-inductor step-down converter and method for clamping same with a clamping capacitor (Cr) so that MOS-FETs can be employed to improve circuit efficiency. The converter includes a tapped-inductor (25a, 25b) and clamping capacitor (Cr) uniquely arranged to eliminate resonance between the leakage energy of the leaky inductance (Lk2) and the clamping capacitor (Cr). Moreover, such arrangement provides for the recycling or recovering of the leakage energy from a leaky inductance of the tapped-inductor to further improve circuit efficiency.

INTERNATIONAL SEARCH REPORT

In **Patent Application No**
PCT/IB 02/02665

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/158

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 094 038 A (LETHELLIER PATRICE R) 25 July 2000 (2000-07-25) the whole document	1-7
A	LEVY H ET AL: "Analysis and evaluation of a lossless turn-on snubber" APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION, 1997. APEC '97 CONFERENCE PROCEEDINGS 1997., TWELFTH ANNUAL ATLANTA, GA, USA 23-27 FEB. 1997, NEW YORK, NY, USA, IEEE, US, 23 February 1997 (1997-02-23), pages 757-763, XP010215747 ISBN: 0-7803-3704-2 the whole document	1,4-6



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Patent family members are listed in annex.

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Date of the actual completion of the international search

22 January 2003

Date of mailing of the international search report

29/01/2003

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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 516 377 A (GEN ELECTRIC) 2 December 1992 (1992-12-02) the whole document ----	1,4-6
A	US 5 736 842 A (JOVANOVIĆ MILAN M) 7 April 1998 (1998-04-07) abstract; figure 13 -----	1,4-6

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US 5736842	A	07-04-1998	NONE	