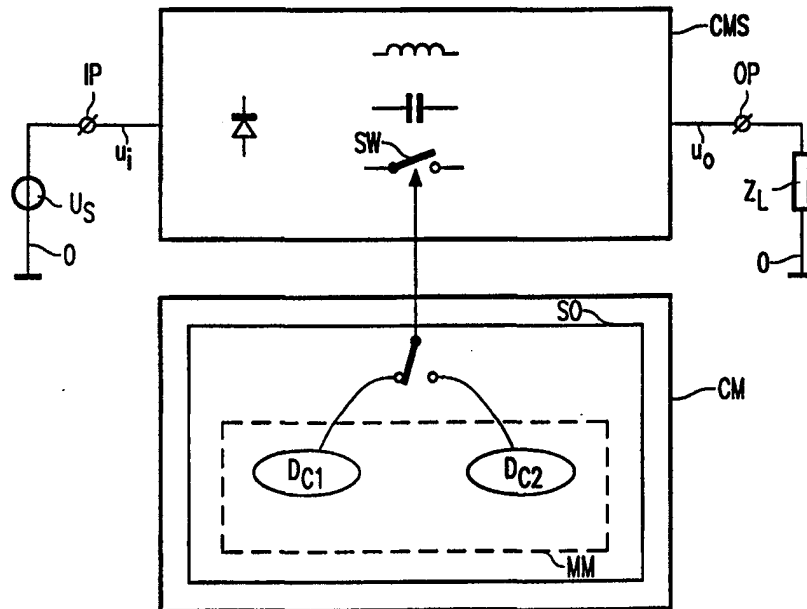




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H02M 3/157</p>	<p>A3</p>	<p>(11) International Publication Number: WO 98/44622 (43) International Publication Date: 8 October 1998 (08.10.98)</p>
<p>(21) International Application Number: PCT/IB98/00264 (22) International Filing Date: 2 March 1998 (02.03.98) (30) Priority Data: 97200922.9 27 March 1997 (27.03.97) EP (34) Countries for which the regional or international application was filed: NL et al. (71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE). (72) Inventors: APPELTANS, Koen, Emiel, Jozef; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). SLUIJS, Ferdinand, Jacob; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). (74) Agent: KOPPEN, Jan; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).</p>		<p>(81) Designated States: JP, KR, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 30 December 1998 (30.12.98)</p>

(54) Title: DIGITALLY CONTROLLED SWITCHED-MODE VOLTAGE CONVERTER



(57) Abstract

A digitally controlled switched-mode voltage convertor comprises conversion means (CMS) including switching means (SM) for the purpose of converting an input voltage (U_i) into an output voltage (U_o); and control means (CM) for controlling a duty cycle of the switching means (SM) in steps having discrete values (D_{c1} , D_{c2}). The control means (CM) include change-over means (SO) for continually switching the duty cycle between at least two discrete values (D_{c1} , D_{c2}) in such a manner that the average value of the duty cycle corresponds to a target duty cycle (T_{dc}).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 98/00264

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H02M 3/157

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

B. FIELDS SEARCHED

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IPC6: H02M

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

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5594324 A (S. CANTER ET AL.), 14 January 1997 (14.01.97), column 2, line 23 - line 51, abstract --	1-5
X	US 5272614 A (M. BRUNK ET AL.), 21 December 1993 (21.12.93), column 2, line 3 - line 64, figures 3-3d, abstract --	1-5
A	US 4095165 A (V. B. BOROS), 13 June 1978 (13.06.78), see the whole document -- -----	1-5

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Date of the actual completion of the international search

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Information on patent family members

27/07/98

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