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(54)

High power-factor electronic reactor for discharge lamps

(57)

An electronic device for powering a fluorescent lamp (16) starting from a sinusoidal alternating voltage comprises a whole-bridge rectifier (12) which rectifies the alternating voltage, a circuit (13) for processing the rectified voltage connected in parallel to the output of the rectifier (12) and a half-bridge inverter (14) with an output (D) for high frequency powering of the lamp (16). The processing circuit has a direct voltage output (A-C)

at the ends of a bulk capacitor (CB) connected in parallel to the output of the rectifier (12) through a first diode (DP). A resonant network (17) to which is connected the lamp (16) is connected between the output (D) of the half-bridge inverter (14) and an intermediate point (B) of a series of two capacitors (CP1,CP2) connected in parallel to the output of the rectifier (12). The circuit allows obtaining with simplicity a power factor near unity and a limited lamp current crest factor.

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Application Number
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Y	* column 1, lines 31-52 * * column 2, lines 15-53 * * figures 1,3 *	7	
X	EP 0 831 677 A (MASS TECHNOLOGY LTD) 25 March 1998 (1998-03-25)	1	
Y	* column 2, line 54 - column 4, line 36 * * figure 5 *	2-10	
X	WO 00/33620 A (NLGI ELECTRONICS LTD; CHUDNOVSKY, VADIM; KHOTOVELI, TAMAZ; STRELETS, B) 8 June 2000 (2000-06-08)	1	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 4 February 2005	Examiner Roider, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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