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(72) Inventor: **Ahonen, Erkki**
00240 Helsinki (FI)

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(74) Representative:
Ollikainen, Rauno Johannes
Leitzinger Oy
Ruoholahdenkatu 8
00180 Helsinki (FI)

(71) Applicant: **Oy Helvar**
00380 Helsinki (FI)

(54) **Suppressor for an electronic ballast**

(57) The invention relates to a suppressor for an electronic ballast in a discharge lamp, which is connected between a ballast and a mains supply, including a supply-voltage rectifier (V1) and a charging capacitor (C1), at least one energy-storing coil or inductance (L1) and an electronic switch element (V2) connected such that, when said switch element (V2) is conducting, a current path extends from the positive terminal of the rectifier (V1) through said switch and coil to its negative

terminal and, when the switch (V2) is non-conducting, a current path extends from the positive terminal of the rectifier through a diode (V3) and the charging capacitor (C1) to its negative terminal. The switch element (V2) is controlled by means of a constant-frequency, permanent pulse-ratio control up to an operating point to be determined in view of a given momentary value of the mains voltage, whereafter the pulse ratio changes.

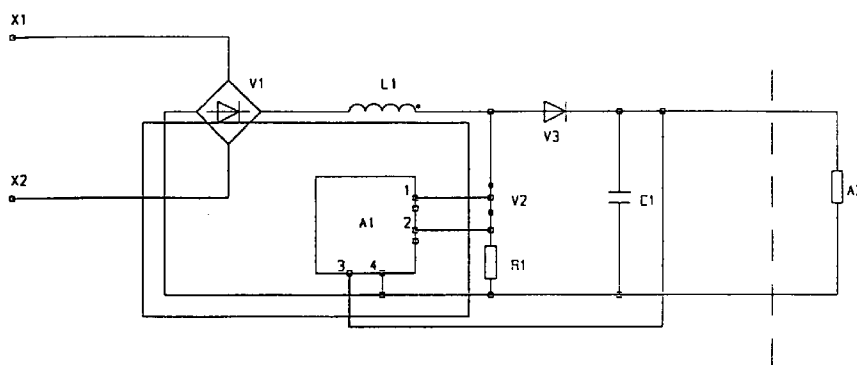


FIG. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 96 66 0026

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 585 077 A (GENERAL ELECTRIC) 2 March 1994 * page 5, line 28 - page 6, line 10; figures 4-7 *	1-9	H05B41/29
X	--- OISHI H ET AL: "SINGLE-PHASE SWITCH-MODE RECTIFIER EMPLOYING VOLTAGE-REVERSAL CIRCUIT SWITCHED WITH A FIXED FREQUENCY" I.E.E. PROCEEDINGS: ELECTRIC POWER APPLICATIONS, vol. 142, no. 2, 1 March 1995, STEVENAGE,GB, pages 154-160, XP000513657 * page 155, right-hand column, line 1 - page 156, left-hand column, line 15; figures 1,3 *	1-9	
A	--- EP 0 431 778 A (GEN ELECTRIC) 12 June 1991 * column 4, line 38 - column 5, line 40; figures 1,2 *	1	
A	--- MAKSIMOVIC D: "DESIGN OF THE CLAMPED-CURRENT HIGH-POWER-FACTOR BOOST RECTIFIER" PROCEEDINGS OF THE ANNUAL APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION (APEC), ORLANDO, FEB. 13 - 17, 1994, vol. 2, 13 February 1994, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 584-590, XP000467368 * page 585, left-hand column, line 35 - page 586, left-hand column, line 14; figures 1-3 *	1-9	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H05B H02M
A	--- US 5 146 398 A (VILA-MASOT) 8 September 1992 * figures 1,3A *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 February 1998	Examiner Speiser, P
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	

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