



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 0 930 809 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**23.02.2000 Bulletin 2000/08**

(51) Int. Cl.<sup>7</sup>: **H05B 41/46**

(43) Date of publication A2:  
**21.07.1999 Bulletin 1999/29**

(21) Application number: **98500274.0**

(22) Date of filing: **16.12.1998**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**

Designated Extension States:  
**AL LT LV MK RO SI**

(30) Priority: **17.12.1997 ES 9702617**

(71) Applicant:  
**Juan Roura y Cia., S.A.  
08013 Barcelona (ES)**

(72) Inventor: **Roura Ares, Juan  
08013 Barcelona (ES)**

(74) Representative:  
**Duran Moya, Luis-Alfonso et al  
DURAN-CORRETJER, S.L.,  
Paseo de Gracia, 101  
08008 Barcelona (ES)**

(54) **Procedure and device for the power supply of fluorescent discharge lamps**

(57) The procedure consists on a single balast which is suitable for one individual tube and feeds successively multiple identical fluorescent lamps, which are connected in parallel with the balast terminals, illuminat-

ing a single lamp in a set of fluorescent lamps and continuing to light from one lamp to the next automatically when the operating lamp stops working.

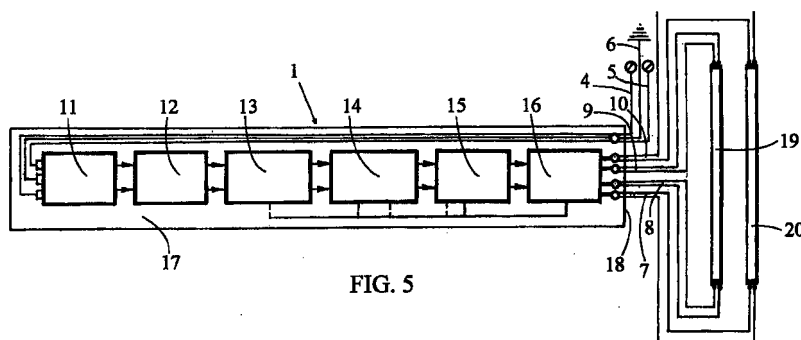


FIG. 5

EP 0 930 809 A3



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 98 50 0274

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	US 4 862 038 A (MORTEN JOHN F) 29 August 1989 (1989-08-29)	1	H05B41/46
Y	* column 2, line 32 - column 4, line 61; figures 1-3 *	2	
Y	--- PATENT ABSTRACTS OF JAPAN vol. 015, no. 412 (E-1124), 21 October 1991 (1991-10-21) & JP 03 171605 A (TOKYO ELECTRIC CO LTD), 25 July 1991 (1991-07-25) * abstract *	2	
X	--- DE 26 12 343 A (NEON ES FENYCSOEBERENDEZESEKET) 6 October 1977 (1977-10-06) * the whole document *	1	
A	--- PATENT ABSTRACTS OF JAPAN vol. 018, no. 355 (E-1573), 5 July 1994 (1994-07-05) & JP 06 096893 A (TOSHIBA LIGHTING & TECHNOL CORP), 8 April 1994 (1994-04-08) * abstract *		
A	--- US 5 089 943 A (WOELFELSCHNEIDER LOTHAR) 18 February 1992 (1992-02-18)		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	--- DE 31 16 933 A (SCHUCH LICHTTECH KG ADOLF) 5 January 1983 (1983-01-05) -----		H05B
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>20 December 1999</b>	Examiner <b>Albertsson, E</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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 ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 50 0274

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-12-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4862038 A	29-08-1989	NONE	
JP 03171605 A	25-07-1991	JP 2089620 C JP 8008183 B	02-09-1996 29-01-1996
DE 2612343 A	06-10-1977	NONE	
JP 06096893 A	08-04-1994	NONE	
US 5089943 A	18-02-1992	DE 3940506 A CA 2026087 A EP 0431246 A	13-06-1991 08-06-1991 12-06-1991
DE 3116933 A	05-01-1983	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82