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(54) Power supply for an infrared transmitter

(57) The invention relates to a power supply for an infrared transmitter having at least one LED driver. The power supply includes a power supply capacitor (102), a filter network (108) comprising a filter capacitor (112) and resistor (110) connected in series with the power

supply capacitor (102). The filter network (108) supplies current pulses to the LED driver. The power supply further includes a diode (114) connected in parallel with the resistor (110) of the filter network (108) to provide isolation between the filter capacitor (112) and the power supply capacitor (102).

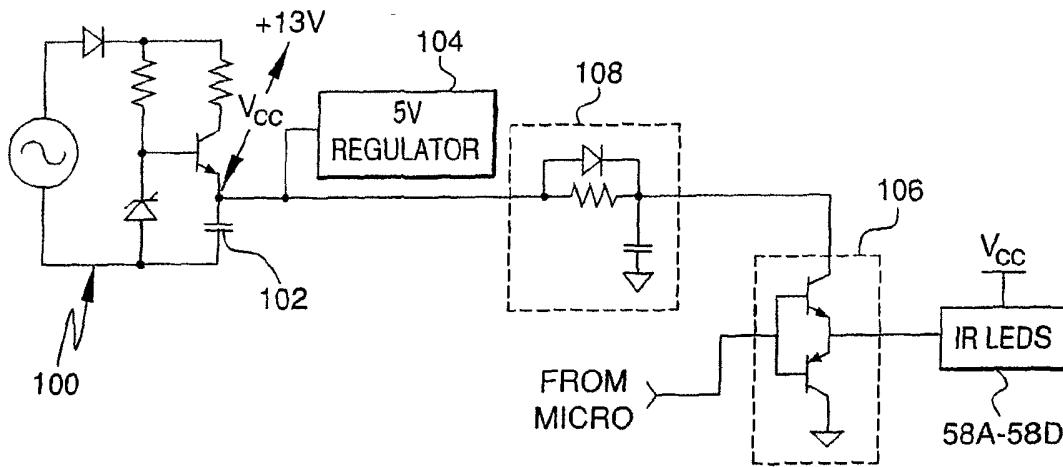


FIG. 11

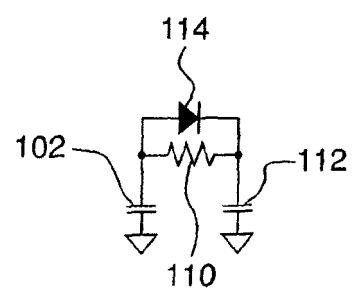


FIG. 12



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	INTERNATIONAL RECTIFIER: "Hexfet Power Mosfet Designer's Manual Application Notes Reliability Data passage" HEXFET POWER MOSFET DESIGNER'S MANUAL. APPLICATION NOTES RELIABILITY DATA, INTERNATIONAL RECTIFIER, EL SEGUNDO, CA, US, 1993, pages 12-14, XP002330645 * page 12 - page 13; figure 18 *	1	INV. H05B33/08 H05B37/02 H05B39/08
A	JP 56 087930 A (TOKYO SHIBAURA ELECTRIC CO) 17 July 1981 (1981-07-17) * abstract *	1	
A	----- STEYAERT M ET AL: "150 MBIT/S CMOS LED-DRIVER AND PIN-RECEIVER IC FOR OPTICAL COMMUNICATION" PROCEEDINGS OF THE CUSTOM INTEGRATED CIRCUITS CONFERENCE. BOSTON, MAY 3 - 6, 1992, NEW YORK, IEEE, US, vol. CONF. 14, 3 May 1992 (1992-05-03), pages 2361-2364, XP000340945 ISBN: 0-7803-0593-0 * paragraph [0003] - paragraph [0003]; figure 6 *	1	TECHNICAL FIELDS SEARCHED (IPC)
A	----- JUNGNICKEL H: "PROBLEME MIT DER STROMVERSORGUNG?" RFE RADIO FERNSEHEN ELEKTRONIK, HUSS MEDIEN GMBH, BERLIN, DE, vol. 41, no. 1, January 1992 (1992-01), pages 31-32, XP000278772 ISSN: 1436-1574 * the whole document *	1	H05B
A	----- US 4 042 830 A (KELLENBENZ CARL W ET AL) 16 August 1977 (1977-08-16) * column 5, line 25 - column 5, line 47; figure 2 *	1	
	----- -/-		
3	The present search report has been drawn up for all claims		
Place of search		Date of completion of the search	Examiner
Munich		8 June 2007	BURCHIELLI, M
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			



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	EP 0 542 480 A (AMERICAN TELEPHONE & TELEGRAPH [US]) 19 May 1993 (1993-05-19) * column 4, line 8 - column 4, line 28; figure 2 * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
3	The present search report has been drawn up for all claims		
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	Munich	8 June 2007	BURCHIELLI, M
CATEGORY OF CITED DOCUMENTS		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	
EPO FORM 1503.03.82 (P04C01) 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			

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

EP 07 10 1600

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.

08-06-2007

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