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(54) **Power saving method of a chip-on-glass liquid crystal display**

(57) A power saving method of a chip-on-glass liquid crystal display. The method first (a) wakes up the source drivers of the LCD and (b) transmitting the image data and control signals from the source driver corresponding

to the FPC to the farthest waked source drivers, and then switching them to power-saving mode. Steps (b) and (c) are repeated until all the source drivers are switched to power-saving mode.

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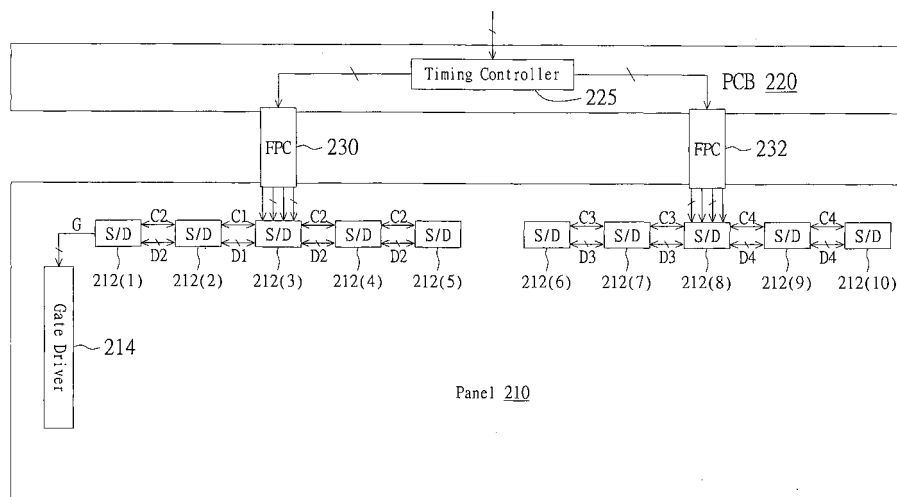


FIG. 2A



EUROPEAN SEARCH REPORT

 Application Number
 EP 06 00 5657

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2002/180684 A1 (SAITOU KAZUNARI [JP] ET AL) 5 December 2002 (2002-12-05)	1-3	INV. G09G3/36
Y	* paragraphs [0051], [0052], [0056] - [0060], [0063], [0068], [0069]; figures 3,5,6,8,10 *	6-8	
X	US 2001/013850 A1 (SAKAGUCHI YOSHITAMI [JP] ET AL) 16 August 2001 (2001-08-16)	4,5	
Y	* paragraphs [0051] - [0054]; figures 1,2 *	6-8	
Y	US 6 130 657 A (KUROKAWA KAZUNARI [JP] ET AL) 10 October 2000 (2000-10-10)	1-3	TECHNICAL FIELDS SEARCHED (IPC) G09G
Y	* column 4, line 15 - column 5, line 63; figures 1,2 *		
Y	EP 1 517 292 A (GENESIS MICROCHIP INC [US]) 23 March 2005 (2005-03-23)	1-3	
Y	* abstract; figure 2 *		
A	US 5 726 677 A (IMAMURA YOICHI [JP]) 10 March 1998 (1998-03-10)	1-8	
A	* column 13, line 43 - column 14, line 49; figures 1,11 *		
A	EP 1 318 500 A (KONINKL PHILIPS ELECTRONICS NV [NL]) 11 June 2003 (2003-06-11)	1-8	
A	* paragraphs [0018] - [0020]; figure 3 *		
A	WO 98/10406 A (UNITED TECHNOLOGIES AUTOMOTIVE [US]) 12 March 1998 (1998-03-12)	1-8	
A	* abstract *		
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 May 2009	Examiner van Wesenbeeck, R
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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 EPO FORM 1503 03.02 (P04C01)

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

EP 06 00 5657

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The members are as contained in the European Patent Office EDP file on
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20-05-2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002180684 A1	05-12-2002	JP 4088422 B2	21-05-2008
		JP 2002323877 A	08-11-2002
		KR 20020083924 A	04-11-2002
		TW 229219 B	11-03-2005
US 2001013850 A1	16-08-2001	CA 2325614 A1	10-06-2001
		CN 1299982 A	20-06-2001
		JP 3508837 B2	22-03-2004
		JP 2001174843 A	29-06-2001
		KR 20010070251 A	25-07-2001
		TW 525023 B	21-03-2003
US 6130657 A	10-10-2000	NONE	
EP 1517292 A	23-03-2005	CN 1604173 A	06-04-2005
		JP 2005165273 A	23-06-2005
		KR 20050028816 A	23-03-2005
		SG 110148 A1	28-04-2005
		US 2008246711 A1	09-10-2008
		US 2005062711 A1	24-03-2005
US 5726677 A	10-03-1998	NONE	
EP 1318500 A	11-06-2003	CN 1423251 A	11-06-2003
		DE 10160098 A1	18-06-2003
		JP 2003208143 A	25-07-2003
		US 2003112212 A1	19-06-2003
WO 9810406 A	12-03-1998	US 6124853 A	26-09-2000