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(54) **Dynamically selecting either frame rate conversion (FRC) or pixel overdrive in an LCD panel based display**

(57) In a liquid crystal display (LCD) panel based display, a method of dynamically selecting either frame rate conversion (FRC) or pixel voltage overdrive is disclosed. The method is carried out by performing the following operations. A video vertical refresh rate of an incoming video data stream is determined and based upon the

determining, only one video data stream conditioning protocol from a number of available video data stream conditioning protocols is selected. The selected video data stream condition protocol is then applied to the video data stream



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 25 0340

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 2002/044151 A1 (IJIMA YUKIO ET AL) 18 April 2002 (2002-04-18)	1,6-8, 10,14,19	G09G3/36
A	* paragraphs [0009], [0010], [0016], [0017], [0027] - [0039]; figures 1,2 *	2-5,9, 11-13, 15-18	
A	----- US 2003/095088 A1 (HAM YONG SUNG) 22 May 2003 (2003-05-22) * paragraphs [0062], [0063], [0070], [0073]; figures 5-7 *	1-19	
A	----- US 2003/156092 A1 (SUZUKI TOSHIAKI ET AL) 21 August 2003 (2003-08-21) * paragraphs [0039], [0042] - [0048], [0051] *	1-19	
P,A	----- US 2004/189680 A1 (FENG XIAO-FAN [US] ET AL) 30 September 2004 (2004-09-30) * paragraphs [0007], [0008], [0017], [0021] - [0024] *	1-19	
P,A	----- US 2004/041745 A1 (CHEN LI-YI) 4 March 2004 (2004-03-04) * paragraphs [0013], [0024]; figures 4A,4B *	1-19	TECHNICAL FIELDS SEARCHED (IPC) G09G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 March 2006	Examiner Fanning, C
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 25 0340

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
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30-03-2006

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专利名称(译)	在基于LCD面板的显示器中动态选择帧速率转换 (FRC) 或像素过驱动		
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申请(专利权)人(译)	Genesis Microchip公司 (特拉华州) INC.		
当前申请(专利权)人(译)	Genesis Microchip公司 , INC.		
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其他公开文献	EP1560194A3 EP1560194A2 EP1560194A8		
外部链接	Espacenet		

摘要(译)

在基于液晶显示 (LCD) 面板的显示器中，公开了一种动态选择帧速率转换 (FRC) 或像素电压过驱动的方法。通过执行以下操作来执行该方法。确定输入视频数据流的视频垂直刷新率，并且基于该确定，仅选择来自多个可用视频数据流调节协议的一个视频数据流调节协议。然后将所选择的视频数据流条件协议应用于视频数据流

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	US 2002/044151 A1 (IJIMA YUKIO ET AL) 18 April 2002 (2002-04-18) paragraphs [0009], [0010], [0016], [0017], [0027] - [0035]; figures 1, 2	1, 6-8, 10, 14, 19 2-5, 9, 11-13, 15-18	G09G3/36
A	US 2003/095088 A1 (HAM YONG SUNG) 22 May 2003 (2003-05-22) paragraphs [0062], [0063], [0070], [0073]; figures 5-7	1-19	
A	US 2003/156092 A1 (SUZUKI TOSHIKI ET AL) 21 August 2003 (2003-08-21) * paragraphs [0039], [0042] - [0048], [0051]	1-19	
P, A	US 2004/189680 A1 (FENG XIAO-FAN [US] ET AL) 30 September 2004 (2004-09-30) * paragraphs [0007], [0008], [0017], [0021] - [0024]	1-19	
P, A	US 2004/041745 A1 (CHEN LI-YI) 4 March 2004 (2004-03-04) * paragraphs [0013], [0024]; figures 4A, 4B	1-19	TECHNICAL FIELD G09G
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		30 March 2006	Fanning, C
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone A: document of the same kind as another (conventionally relevant) P: non-written document I: intermediate document T: priority or publication underlying the invention E: other relevant document, but not published on or D: document cited in the application C: document cited for other reasons A: member of the same patent family, corresponding document			