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(54) **Using packet transfer for driving LCD panel driver electronics**

(57) In a digital display device, a packet based method of driving selected pixel elements by way of associated data latches included in a column driver is disclosed. For each frame lines in a video frame, a number of video data packets are provided directly to the column driver at a

link rate and each of the number of data latches are populated with appropriate video data based upon video data packets within a line period τ . Selected pixel elements are driven based upon the video data.

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Application Number
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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 2003/063077 A1 (KOYAMA JUN) 3 April 2003 (2003-04-03) * paragraphs [0014], [0017], [0018], [0026] - [0037]; figures 7,8 * -----	1-4, 6-15, 17-20	G09G3/36
X	US 2003/076282 A1 (IKEDA TAKAYUKI ET AL) 24 April 2003 (2003-04-24) * paragraphs [0067], [0068], [0080], [0082], [0086] - [0095]; figures 1,3 * -----	1-4, 6-15, 17-20	
X	US 6 356 260 B1 (MONTALBO JOSEPH DOMENICK) 12 March 2002 (2002-03-12) * column 5, lines 40-51; figure 3c * -----	1-4, 6-15, 17-20	
X	WO 99/63513 A (SILICON IMAGE, INC) 9 December 1999 (1999-12-09) * figures 3-5 * * page 8, line 27 - page 11, line 31 * * page 12, line 28 - page 13, line 9 * * page 14, lines 1-26 * -----	1-4, 6-15, 17-20	TECHNICAL FIELDS SEARCHED (IPC) G09G
A	US 2002/190974 A1 (MORITA AKIRA) 19 December 2002 (2002-12-19) * paragraph [0219]; figure 16 * -----	1-21	
A	US 2002/011996 A1 (INOUE AKIHIKO ET AL) 31 January 2002 (2002-01-31) * abstract * * paragraphs [0062] - [0064], [0068] - [0070]; figure 1 * -----	1-21	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 24 November 2005	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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**ANNEX TO THE EUROPEAN SEARCH REPORT
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The members are as contained in the European Patent Office EDP file on
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24-11-2005

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专利名称(译)	使用数据包传输来驱动LCD面板驱动电子设备		
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优先权	60/563120 2004-04-15 US 60/504060 2003-09-18 US 10/909103 2004-07-29 US		
其他公开文献	EP1517292A2		
外部链接	Espacenet		

摘要(译)

在数字显示设备中，公开了一种通过包括在列驱动器中的相关数据锁存器来驱动所选像素元件的基于分组的方法。对于视频帧中的每个帧线，以链路速率将多个视频数据包直接提供给列驱动器，并且基于行周期 T 内的视频数据包，用适当的视频数据填充多个数据锁存器中的每一个。基于视频数据驱动所选择的像素元素。

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