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(54) **Active matrix OLED display device and electronic apparatus**

(57) The invention provides a display device and an electronic apparatus which can reduce power consumption in the case of being driven by using a digital time grayscale method. According to the invention, a row in which all the pixels display black is focused on in a plurality of pixels arranged in matrix, and sampling of data which is to be inputted to the pixels arranged in the row is not performed. Then, in a period during which the data

sampling is not performed, the operation of a shift register in a source driver and sampling operation of a video signal in a first latch circuit are stopped. The invention which has the aforementioned characteristics can temporarily stop operation of the source driver to reduce power consumption. In particular, the invention can stop operation of the source driver which consumes much power in the display device, leading to dramatic reduction in power consumption.

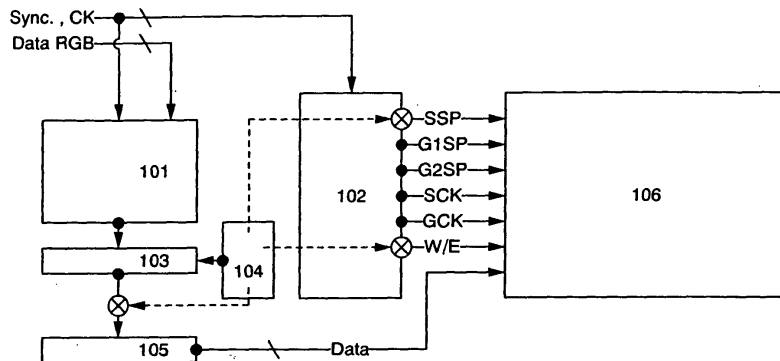


FIG. 1

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 August 2008	Examiner Morris, David
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			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 August 2008	Examiner Morris, David
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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专利名称(译)	有源矩阵OLED显示装置和电子设备		
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优先权	2004339682 2004-11-24 JP		
其他公开文献	EP1662468B1 EP1662468A2		
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摘要(译)

本发明提供一种显示装置和电子设备，其能够在使用数字时间灰度级方法驱动的情况下降低功耗。根据本发明，其中所有像素显示为黑色的行聚焦在以矩阵排列的多个像素中，并且不执行要输入到排列在行中的像素的数据的采样。然后，在不执行数据采样的时段中，停止源极驱动器中的移位寄存器的操作和第一锁存电路中的视频信号的采样操作。具有上述特征的本发明可暂时停止源极驱动器的操作以降低功耗。特别地，本发明可以停止在显示装置中消耗大量功率的源极驱动器的操作，从而导致功耗的显著降低。

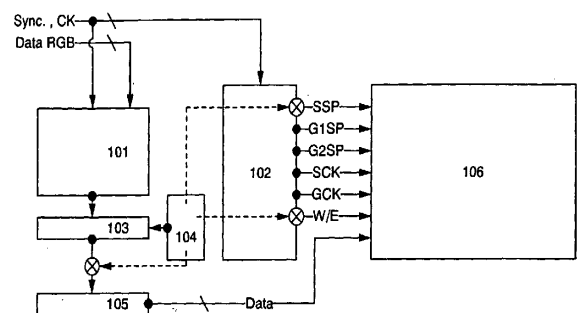


FIG. 1