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(54) **EL display device**

(57) An EL display device comprising a circuit for converting n bit digital data having red image information, n bit digital data having green image information, and n bit digital data having blue image information (n is a natural number) inputted from the external into $(n+1)$ bit digital data having red image information, $(n+1)$ bit digital data having green image information, and $(n+1)$ bit digital data having blue image information, respectively. A time-division circuit generates digital data signals from the $(n+1)$ bit digital data having red, green and blue information, and supplies said data signals to a data signal side driving circuit connected to the time-division circuit for generating corresponding digital current signals for pixels of an active matrix circuit connected to the data signal side driving circuit.

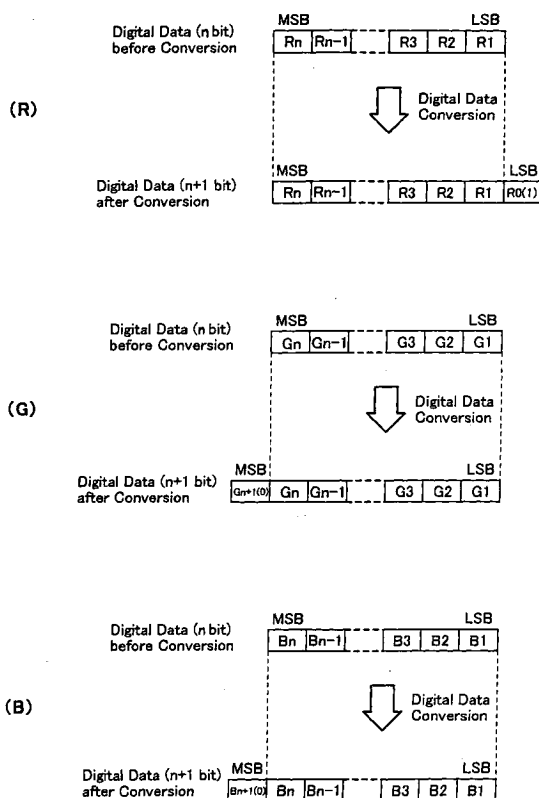


Fig. 7



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EUROPEAN SEARCH REPORT

Application Number
EP 05 02 5459

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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 31 July 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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Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 02 5459

DOCUMENTS CONSIDERED TO BE RELEVANT			
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
Place of search Munich		Date of completion of the search 31 July 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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31-07-2008

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专利名称(译)	显示设备		
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[标]申请(专利权)人(译)	株式会社半导体能源研究所		
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[标]发明人	JUN KOYAMA		
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IPC分类号	G09G3/32 G09G5/02 G09G3/30 G09G3/20 G09G5/04		
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优先权	1999271366 1999-09-24 JP		
其他公开文献	EP1638071A2 EP1638071B1		
外部链接	Espacenet		

摘要(译)

一种EL显示装置，包括用于转换具有红色图像信息的 n 位数字数据的电路，具有绿色图像信息的 n 位数字数据，以及具有从外部输入的蓝色图像信息（ n 是自然数）的 n 位数字数据（ $n+1$ ）具有红色图像信息的位数字数据，具有绿色图像信息的（ $n+1$ ）位数字数据和具有蓝色图像信息的（ $n+1$ ）位数字数据。时分电路从具有红，绿和蓝信息的（ $n+1$ ）位数字数据产生数字数据信号，并将所述数据信号提供给连接到时分电路的数据信号侧驱动电路，以产生相应的数字信号。连接到数据信号侧驱动电路的有源矩阵电路的像素的电流信号。

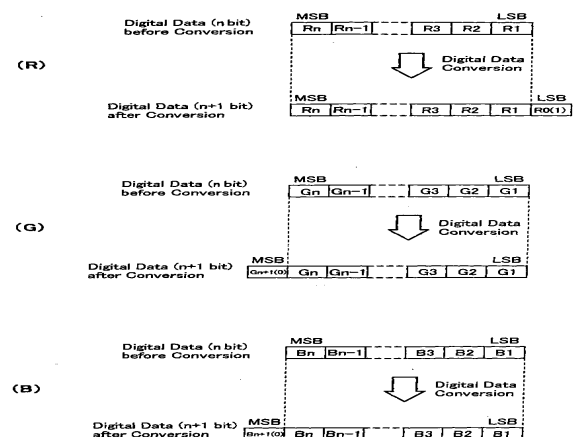


Fig. 7