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(54) **Organic electroluminescent display device**

(57) An organic electroluminescent display device employing a demultiplexer to reduce the number of output lines of a data driver. The display device uses the demultiplexer to store a data voltage in a data line, and supplies the stored data voltage to a pixel when a scan signal (Sn) is applied, thereby displaying an image. Here, the data voltage supplied to the pixel is lowered because an electric charge is shared between a data line capacitor (C_{datamk}) and a storage capacitor (Cst) in the pixel. To

compensate for the lowered data voltage, an auxiliary capacitor (Caux) is provided for generating a compensation voltage. Here, the auxiliary capacitor increases the data voltage according to a level change of the scan signal. Therefore, a decrease in level of the voltage applied to the pixel is reduced or prevented so that DC/DC efficiency is enhanced without lowering a power supply voltage and a reference voltage.

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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	EP 1 496 495 A2 (SAMSUNG SDI CO LTD [KR]) 12 January 2005 (2005-01-12) * paragraphs [0031] - [0048]; figure 3 *	4,14	
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 February 2007	Examiner Bellatalla, Filippo
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.**

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05-02-2007

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专利名称(译)	有机电致发光显示装置		
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[标]申请(专利权)人(译)	三星斯笛爱股份有限公司		
申请(专利权)人(译)	三星SDI CO. , LTD.		
当前申请(专利权)人(译)	三星移动显示器有限公司.		
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发明人	KIM, YANG-WAN C/O SAMSUNG SDI CO., LTD.		
IPC分类号	G09G3/32		
CPC分类号	G09G3/3233 G09G3/3291 G09G2300/0819 G09G2300/0852 G09G2300/0861 G09G2310/0248 G09G2310/0275 G09G2310/0297 G09G2320/0238 G09G2320/043		
代理机构(译)	hengelhaupt , Jürgen		
优先权	1020050086370 2005-09-15 KR		
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摘要(译)

一种有机电致发光显示装置，采用多路分解器来减少数据驱动器的输出线数量。显示装置使用多路分解器将数据电压存储在数据线中，并且当施加扫描信号（Sn）时将存储的数据电压提供给像素，从而显示图像。这里，由于在像素中的数据线电容器（Cdatamk）和存储电容器（Cst）之间共享电荷，所以提供给像素的数据电压降低。为了补偿降低的数据电压，提供辅助电容器（Caux）以产生补偿电压。这里，辅助电容器根据扫描信号的电平变化增加数据电压。因此，减小或防止了施加到像素的电压的降低，从而在不降低电源电压和参考电压的情况下提高DC / DC效率。

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Name of applicant		Date of completion of the search	Examiner
The Hague		5 February 2007	Bellatalla, Filippo

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