



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.07.2007 Bulletin 2007/27

(51) Int Cl.:
G09G 3/32^(2006.01)

(43) Date of publication A2:
21.04.2004 Bulletin 2004/17

(21) Application number: **03023179.9**

(22) Date of filing: **13.10.2003**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
Designated Extension States:
AL LT LV MK

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(30) Priority: **17.10.2002 JP 2002302740**

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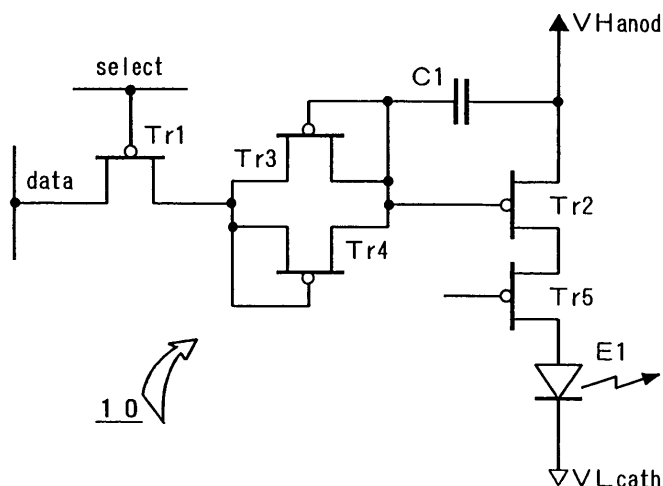
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(54) **Light emitting active matrix display device**

(57) In order to restrain excess current from flowing in a light emitting element via a driving TFT in a reset period in an active type light emitting display device provided with a pixel structure in which a threshold voltage compensation technique is utilized. One pixel 10 is comprised of a controlling TFT (Tr1), a TFT (Tr3) functioning as a threshold voltage generating element, a TFT (Tr4) functioning as a reset element, a driving TFT (Tr2), a

capacitor C1 holding the gate voltage of the driving TFT, a TFT (Tr5) functioning as a current restraining means for being controlled so as to be OFF at a reset operation time, and an EL element E1. At the reset operation time in which a terminal voltage of the capacitor C1 is reset to a predetermined electrical potential, the TFT (Tr5) is controlled so as to be in an OFF state, operating so as to prevent excess current due to an operation of the driving TFT (Tr2) from being imparted to the EL element E1.

Fig.5





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 3179

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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 29 May 2007	Examiner Harke, Michael
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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EPO FORM 1503 03.82 (P04C01)



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Place of search Munich		Date of completion of the search 29 May 2007	Examiner Harke, Michael
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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EPO FORM 1503 03.02 (P04C01)



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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 3179

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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 29 May 2007	Examiner Harke, Michael
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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EPO FORM 1503 03.92 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 02 3179

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29-05-2007

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专利名称(译)	发光有源矩阵显示装置		
公开(公告)号	EP1411489A3	公开(公告)日	2007-07-04
申请号	EP2003023179	申请日	2003-10-13
[标]申请(专利权)人(译)	东北先锋股份有限公司		
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IPC分类号	G09G3/32 H01L51/50 G09G3/20 G09G3/30		
CPC分类号	G09G3/3233 G09G3/2011 G09G2300/0809 G09G2300/0819 G09G2300/0842 G09G2300/0861 G09G2300/0866 G09G2310/06 G09G2310/061 G09G2320/02 G09G2320/043		
优先权	2002302740 2002-10-17 JP		
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摘要(译)

在具有利用阈值电压补偿技术的像素结构的有源型发光显示装置中，为了抑制过电流在复位周期中经由驱动TFT在发光元件中流动。一个像素10包括控制TFT (Tr1)，用作阈值电压产生元件的TFT (Tr3)，用作复位元件的TFT (Tr4)，驱动TFT (Tr2)，保持栅极的电容C1驱动TFT的电压，TFT (Tr5) 和EL元件E1，TFT (Tr5) 用作电流抑制装置，用于在复位操作时被控制以使其截止。在电容器C1的端电压被复位到预定电位的复位操作时，TFT (Tr5) 被控制为处于OFF状态，操作以防止由于操作而导致的过电流。驱动TFT (Tr2) 被赋予EL元件E1。

Fig. 5

