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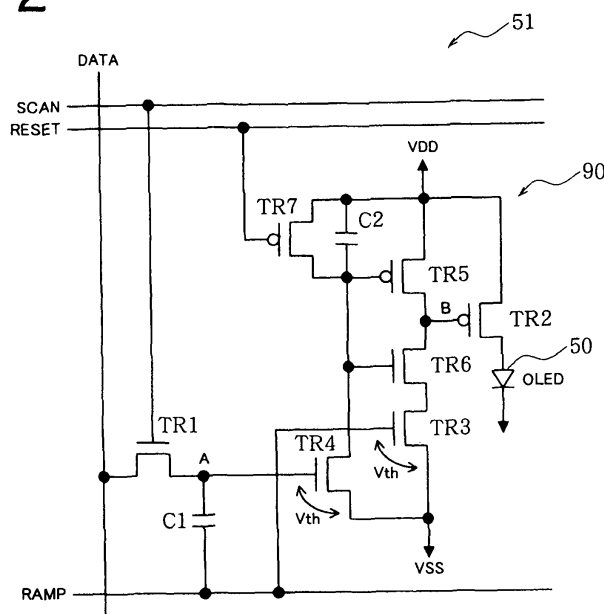
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(54) **Display device of active matrix drive type**

(57) The invention provides a display device of the active matrix drive type wherein each of pixels 51 comprises an organic EL display element 50, a drive transistor TR2 for energizing or deenergizing the EL display element 50, a write transistor TR1 to be brought into conduction when impressed with scanning voltage, a capacitance element C1 to be impressed with data voltage by

the conduction of the write transistor TR1, and a pulse-width modulation control circuit 90 for on/off-controlling the drive transistor TR2 by pulse-width-modulating the output voltage of the capacitance element C1 with ramp voltage. The modulation control circuit 90 comprises an on-control transistor TR3 and an off-control transistor TR4.

FIG. 2





EUROPEAN SEARCH REPORT

Application Number
EP 04 00 1004

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)
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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 13 November 2008	Examiner Kunze, Holger
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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专利名称(译)	有源矩阵驱动型的显示装置		
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优先权	2003011046 2003-01-20 JP 2003300684 2003-08-26 JP		
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摘要(译)

本发明提供一种有源矩阵驱动型显示装置，其中每个像素51包括有机EL显示元件50，用于激励或去激励EL显示元件50的驱动晶体管TR2，当施加的时候导通的写晶体管TR1通过写入晶体管TR1的导通而被施加数据电压的电容元件C1；以及脉冲宽度调制控制电路90，用于通过对输出进行脉冲宽度调制来对驱动晶体管TR2进行导通/截止控制具有斜坡电压的电容元件C1的电压。调制控制电路90包括导通控制晶体管TR3和截止控制晶体管TR4。

FIG. 2

