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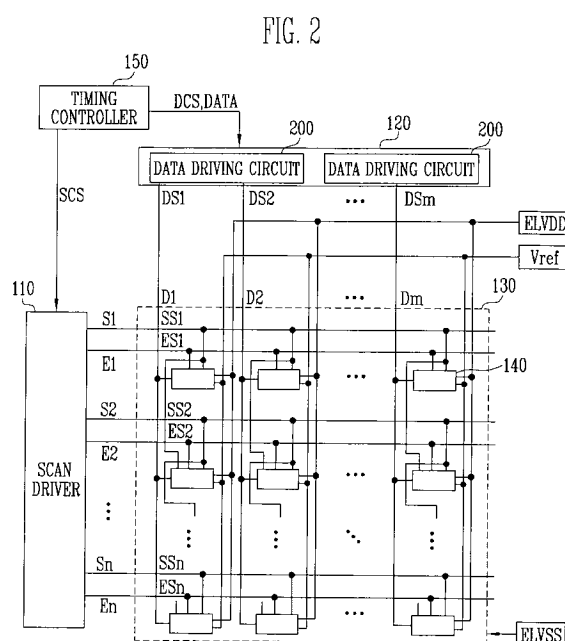
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(54) **Data driving circuits and driving methods of organic light emitting displays using the same**

(57) A data driving circuit for a light emitting display may include a gamma voltage generator that generates gradation voltages, a current sink that receives a predetermined current from a pixel via a data line during a first partial period of one complete period for driving the pixel, a voltage generator that generates an incrementally increasing compare voltage during the first partial period, a comparator that compares a compensation voltage generated based on the predetermined current with the compare voltage and generates a logic signal based on a result of the compare, an adjusting unit that generates compensation data based on the logic signal, and a digital-analog converter that generates a composite data using the compensation data and externally supplied data and selects, as a data signal for the pixel, one of the plurality of gradation voltages based on a bit value of the composite data.





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EUROPEAN SEARCH REPORT

Application Number
EP 06 25 4023

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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 2 August 2007	Examiner LE CHAPELAIN, B
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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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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专利名称(译)	数据驱动电路和使用其的有机发光显示器的驱动方法		
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其他公开文献	EP1758085B1 EP1758085A2		
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摘要(译)

用于发光显示器的数据驱动电路可包括：伽马电压发生器，其产生灰度电压；电流吸收器，其在用于驱动像素的一个完整周期的第一部分时段期间经由数据线从像素接收预定电流，a在第一部分时段期间产生递增的比较电压的电压发生器，比较器，其将基于预定电流产生的补偿电压与比较电压进行比较，并基于比较的结果产生逻辑信号，产生调整单元基于逻辑信号的补偿数据，以及使用补偿数据和外部提供的数据生成合成数据的数模转换器，并基于比特值选择多个灰度电压中的一个作为像素的数据信号复合数据。

FIG. 2

