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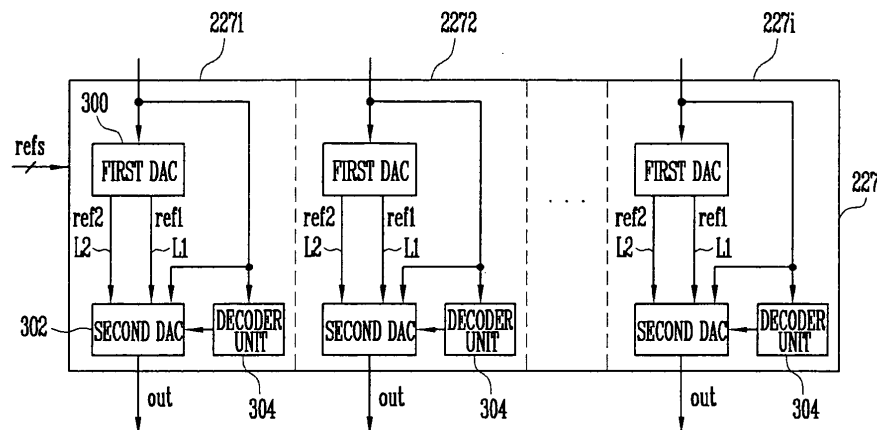
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(54) **Data driver, organic light emitting display, and method of driving the same**

(57) A data driver including a first digital-to-analog converter configured to select first and second reference voltages depending on upper bits of data and supply the first and the second reference voltages to a first line and a second line, respectively, a second digital-to-analog converter having the first line and the second line to receive the first and the second reference voltages, respectively, a first group of voltage dividing resistors between

the first line and the second line and configured to generate a plurality of gray scale voltages, a voltage dividing resistor unit between the first line and the second line, and at least one switch positioned between the voltage dividing resistor unit and one of the first line and the second line, and including a decoder unit configured to control on and off state of the at least one switch depending on lower bits of data.

FIG. 5



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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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X	US 2003/090402 A1 (NAGAO SHOU [JP]) 15 May 2003 (2003-05-15) * paragraphs [0001] - [0007], [0020] - [0025], [0067] - [0117]; figures 1a-1d,3,15 *	1,2,13	
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A	US 6 037 889 A (KNEE DEREK L [US]) 14 March 2000 (2000-03-14) * column 1, lines 55-65; figure 3 * * column 2, lines 25-35 * * column 4, lines 9-46 * * column 6, lines 19-29 *	1,13	TECHNICAL FIELDS SEARCHED (IPC) G09G H03M
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 March 2008	Examiner Gartlan, 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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**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	数据驱动器，有机发光显示器及其驱动方法		
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其他公开文献	EP1801774B1 EP1801774A2		
外部链接	Espacenet		

摘要(译)

一种数据驱动器，包括：第一数模转换器，被配置为根据数据的高位选择第一和第二参考电压，并将第一和第二参考电压分别提供给第一线和第二线，第二数字 - 具有第一线和第二线的模拟转换器分别接收第一和第二参考电压，在第一线和第二线之间的第一组分压电阻器，用于产生多个灰阶电压，第一线和第二线之间的分压电阻器单元，以及位于分压电阻器单元和第一线和第二线之一之间的至少一个开关，并且包括解码器单元，该解码器单元被配置为控制接通和断开状态。至少一个开关取决于较低的数据位。

FIG. 5

