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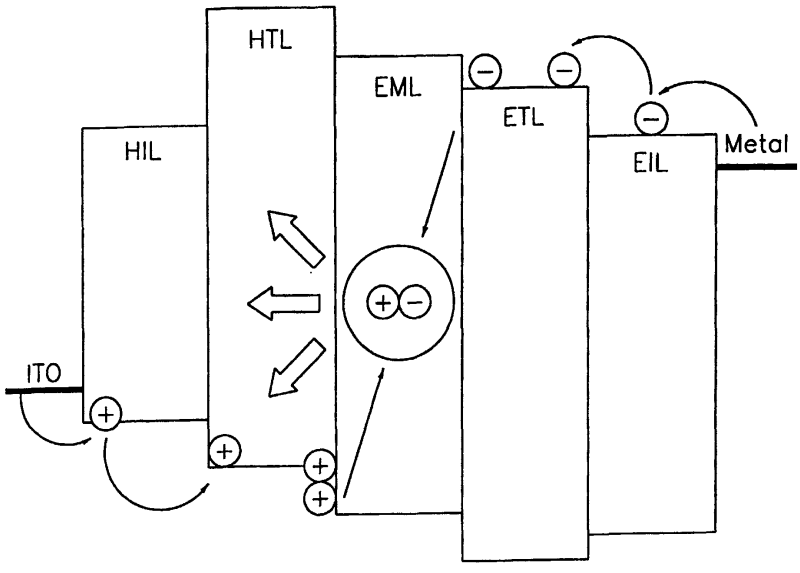
(54) Organic electroluminescent display, driving method and pixel circuit thereof

(57) Disclosed is an OELD and a pixel circuit which comprise: an organic EL element for emitting light corresponding to a supplied current; a first switch for switching data voltage supplied to a data line in response to a select signal supplied to a scan line; a first TFT for supplying the current to the organic EL element in response to the data voltage supplied to a gate of the first TFT via the first switch; a second TFT having a gate coupled to the gate of the first TFT and compensating for a deviation of a threshold voltage of the first TFT; and a capacitor for maintaining the data voltage supplied to the gate of the first TFT during a predetermined time.

FIG.1



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EUROPEAN SEARCH REPORT

Application Number
EP 01 12 5334

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
MUNICH	23 July 2003	Harke, M

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
O : non-written disclosure
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D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

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EUROPEAN SEARCH REPORT

Application Number
EP 01 12 5334

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	INUKAI K ET AL: "4.0 in. TFT-OLED Displays and a Novel Digital Driving Method" 2000 SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNICAL PAPERS. LONG BEACH, CA, MAY 16 - 18, 2000, SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNICAL PAPERS, SAN JOSE, CA: SID, US, vol. 31, 16 May 2000 (2000-05-16), pages 924-927, XP002196013 * the whole document * -----	2,9,18	
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MUNICH	23 July 2003	Harke, M

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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)	有机电致发光显示器，其驱动方法和像素电路		
公开(公告)号	EP1220191A3	公开(公告)日	2003-09-10
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[标]申请(专利权)人(译)	三星斯笛爱股份有限公司		
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IPC分类号	H01L51/50 G09F9/30 G09G3/20 G09G3/30 G09G3/32 H01L27/12 H01L27/32		
CPC分类号	G09G3/3233 G09G2300/0417 G09G2300/0819 G09G2300/0842 G09G2310/0251 G09G2310/0262 G09G2320/043 H01L27/12 H01L27/3262		
优先权	1020000085683 2000-12-29 KR		
其他公开文献	EP1220191B1 EP1220191A2		
外部链接	Espacenet		

摘要(译)

本发明公开了一种OELD和像素电路，包括：有机EL元件，用于发出与所提供的电流相对应的光;第一开关，用于响应提供给扫描线的选择信号，切换提供给数据线的数据电压;第一TFT，用于响应通过第一开关提供给第一TFT的栅极的数据电压，向有机EL元件提供电流;第二TFT，其栅极连接到第一TFT的栅极，并补偿第一TFT的阈值电压的偏差;和电容器，用于在预定时间内保持提供给第一TFT的栅极的数据电压。

FIG.1