

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl. 7  
G09G 3/30

(11)  
(43)

2001 - 0080207  
2001 08 22

(21) 10 - 2001 - 7004825  
(22) 2001 04 17  
2001 04 17  
(86) PCT/EP2000/07520  
(86) 2000 08 02

(87) WO 2001/15232  
(87) 2001 03 01

(30) 9919536.4 1999 08 19 (GB)

(71)

(72) , , .  
5656 . 6

(74)

(54)

$$\begin{array}{c} \text{가} \\ | \\ \text{(10)} & & & \text{(10)} \\ & & \text{(36)} & \\ & \text{(22)} & & \text{(20)} \\ , & & \text{(45, 40)} & , \end{array}$$

3

,  
scent),  
, ,  
,

(light-emitting),  
(polymer)  
(LEDs: Light Emitting Diodes)

,

,

(conjugated)

,

(holes)

)

(spin coating)

,

(printing)

,

(transparent)

,

CVD(chemical vapor d

,

ive type)

53741 A - 0717446 ) . . . . . 가, ,

thin film transistor: )  
(brightness) 가 . TFT( )

, , (ageing effects),  
,  
(pixellated), ,  
.

LED , , , , ,

, , TFT  
photoelectric) , TFT ,  
(closed)

, , , , TFT  
, , , ,  
(shunt)

가 (photoresistor) (photodiode) (phototransistor) 가 ,

1

2 1

가

3

가

가

1

, , (10)

4)

(crossing sets) , , ( ) (intersections) (16),

(18)

(conductors) (12 1

(18)

, (18) , (16) (12) 가  
(synchronisation)

2

(10) , (LED) , (20)

LED

ITO

, (carried). , (insulating support)  
(cathodes) (anodes)

가 가

가

(20)

, ITO  
(work - function)  
( 96/36959 )

( A - 0717446 )

22) (10) TFT  
가

(22)( TFT ) (20)

(

, (14) TFT(26) TFT( (26)  
 26) (22) (12)

(10), (32) (20) (32), (22), (30),  
 (32) (20) (22) (22) (30) (20), (1  
 4)

, (16) TFT(26) (12) 가  
 (14) 가, TFT(26) (22) (18)  
 (12) , (26) (turned off),  
 (22) , (22) (32)  
 (32) , (10) (20) (22), (22)  
 2) (drain) (20) } (32), (2),  
 { (grey - scale) }

(22) (saturation), , , ,  
 , , , (30), (20)

, , , , ,  
 (22), (36) (20) 가  
 , , / ,  
 , (degradation), , , { ( ,  
 harder) } , ,  
 LED , , , ,

3 , . (10) , (20) 가 , (30) (22) , (26) (32) (12 14) . (36) (22) (32)

TFT 가 (40), TFT(26) , TFT(26) , (12) 가 ( )  
 (12) TFT(26) .

(45) , (32) , TFT(26 40)  
 (45)가 (20)

, (14) 가 , .  
99/65012 ){ (PHB 34253)} .

, 2 ,  
 , (16) , TFT(26 40)  
 (12) 가 . (36) ,  
 , , 가 (14) (sunk).  
 (32) , (36) (45) 가  
 (reversed biased) , , TFT(22) (36) TFT(22)  
 26 40) , TFT(22) , (20)  
 , ,  
 2  
 (20) (45) (falls upon),  
 (photocurrent) 가  
 (45) ( / )  
 (36) (45)  
 가 (14)  
 (36) TFT(22) (45)  
 가  
 (20) (45)

14) , TFT(22) (36) (termination) TFT(26 40) ( )  
                  , (36) , TFT(22) (20) , ( )  
                  , ,

(instantaneous) , (36) , TFT(22)

가, (45) , (20) , (36)

, , , , TFT , TFT(22)

가

(45) , 가 TFT p - MOS TFT , n - MOS TFT가  
TFT가 , (polysilicon) TFT (20)

(45) ( ), 가

(20) (45) 가 ,

가

(57)

1.

t display device) ,  
가 , (storage capacitance)

,

,

(electro-optic)

,

,

,

2.

1 , , 가  
,

,

3.

1 2 , ,  
(shunt) (photoelectric)

,

4.

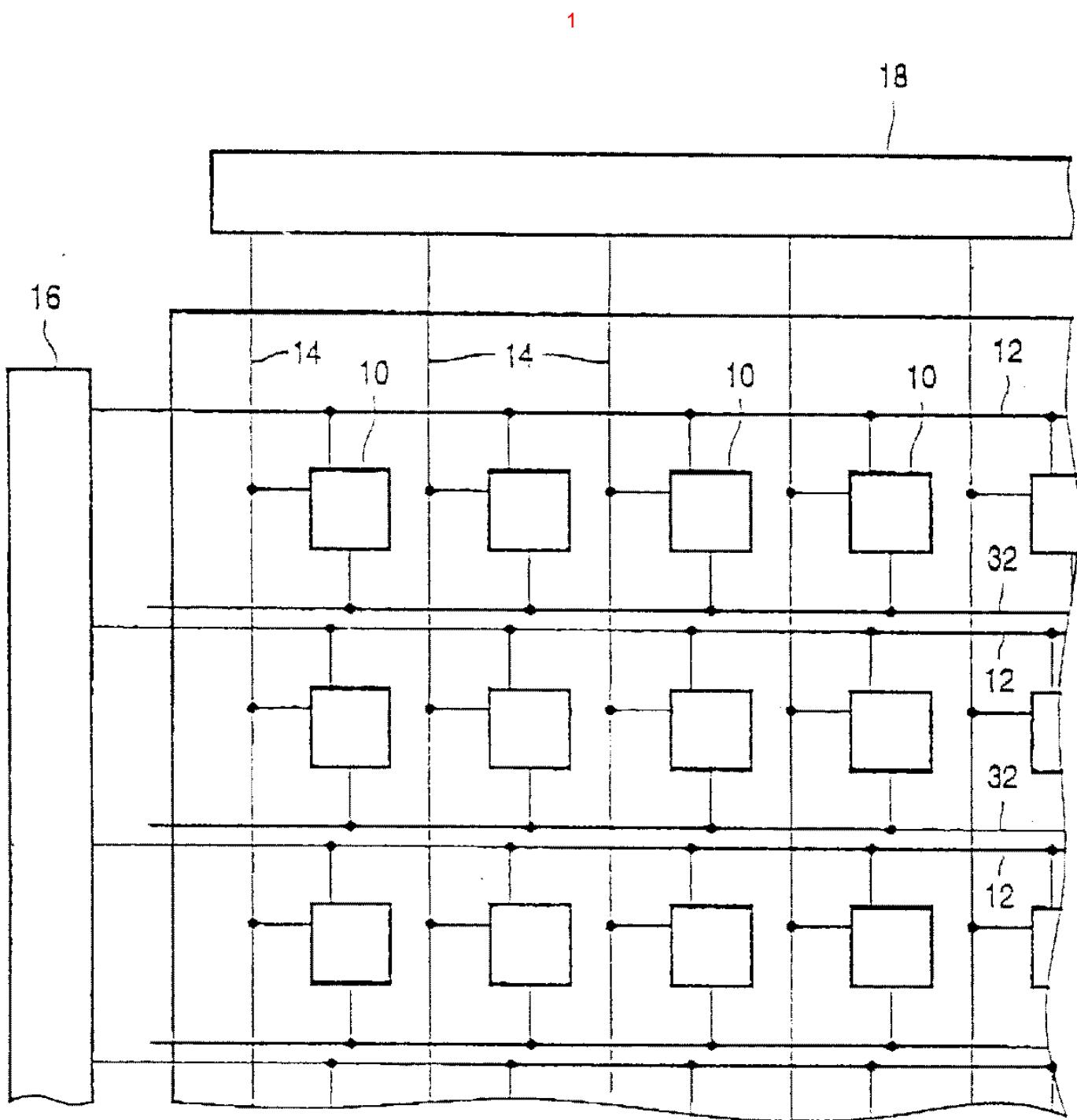
3 , ,  
,

5.

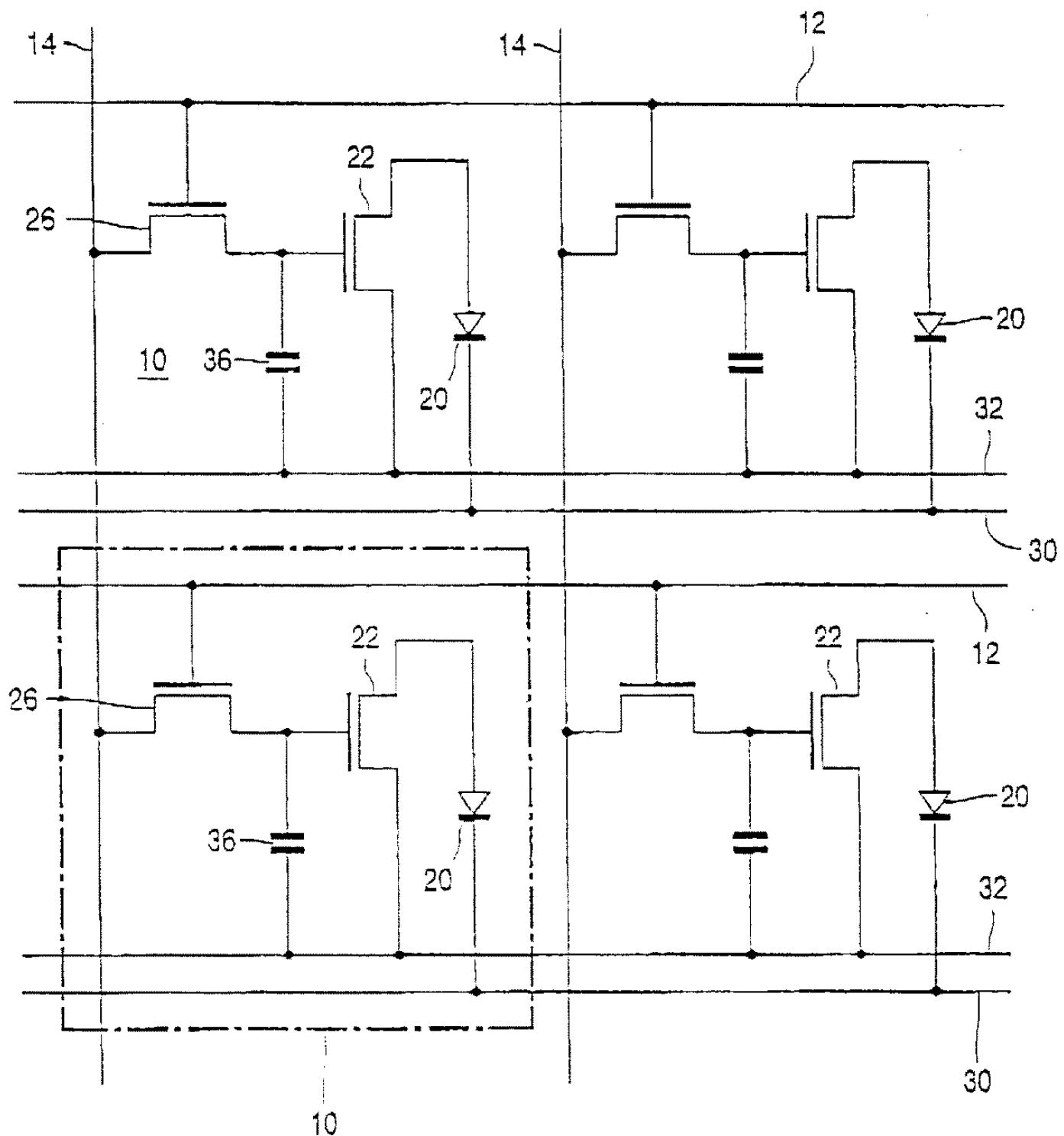
3 4 , ,  
(photodiode) ,

6.

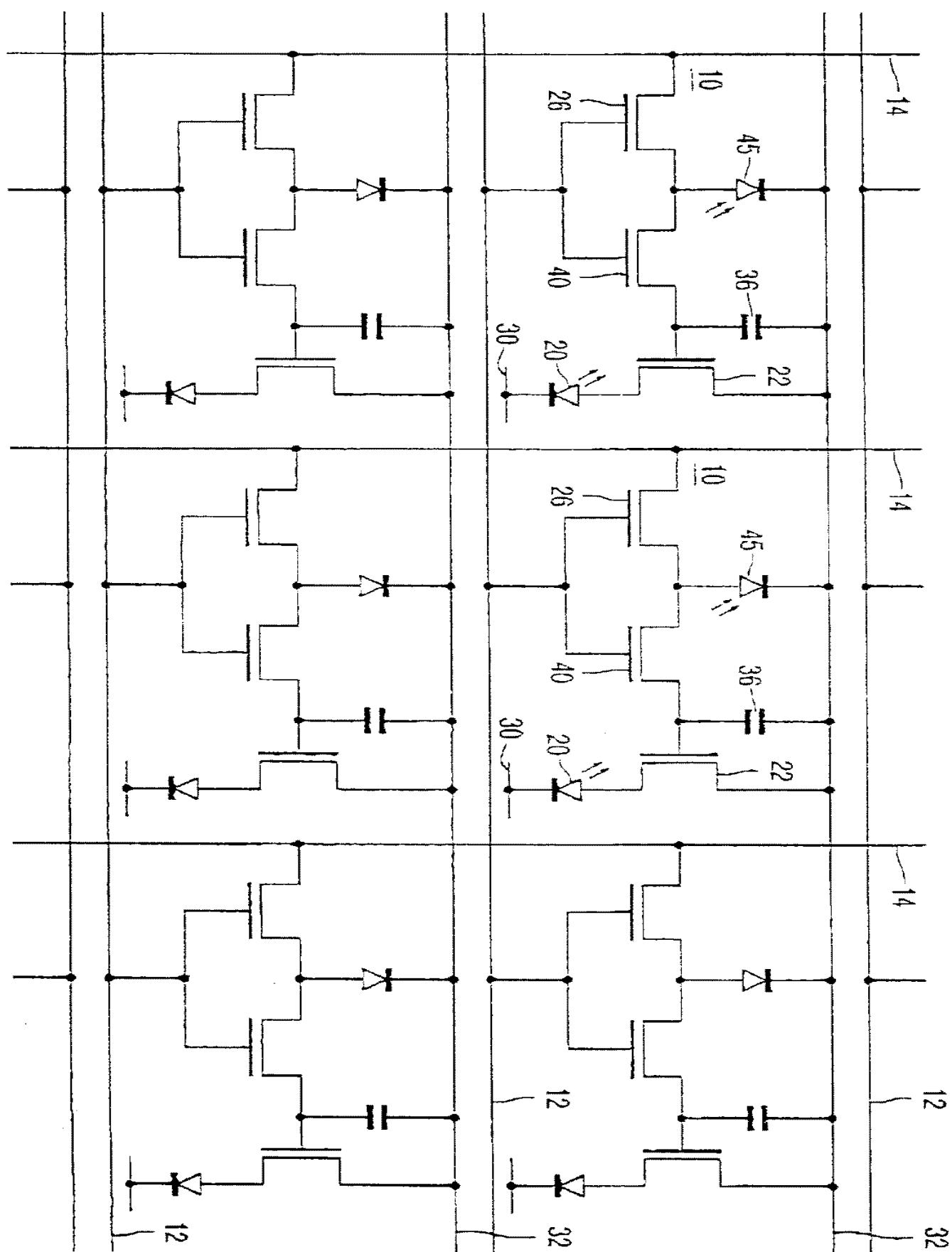
1 5 , ,



2



3



专利名称(译)	有源矩阵电致发光显示装置		
公开(公告)号	<a href="#">KR1020010080207A</a>	公开(公告)日	2001-08-22
申请号	KR1020017004825	申请日	2000-08-02
[标]申请(专利权)人(译)	皇家飞利浦电子股份有限公司		
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IPC分类号	H01L51/50 G09F9/30 G09G3/20 G09G3/30 G09G3/32 H01L27/32		
CPC分类号	G09G3/32 G09G3/3233 G09G2300/0809 G09G2300/0819 G09G2300/0842 G09G2300/088 G09G2320/043 G09G2320/045 G09G2360/148 H01L27/3269		
代理人(译)	MOON , KYOUNG金 CHO , 贤SEOG		
优先权	1999019536 1999-08-19 GB		
其他公开文献	<a href="#">KR100712563B1</a>		
外部链接	<a href="#">Espacenet</a>		

### 摘要(译)

有源矩阵电致发光显示装置包括显示像素 ( 10 ) 的阵列，其中根据存储在电容 ( 36 ) 上的电压，该电压由在前一个的寻址周期中施加的数据信号确定，每个显示像素 ( 10 ) 包括电流驱动电致发光显示元件 ( 20 ) 连接到驱动装置 ( 22 )，控制通过TDI中的显示元件的电流。为了补偿显示元件处的老化变化以便根据显示元件的光功率调整存储在电容上的电压达到寻址周期，电光学平均值 ( 45,40 ) 包括在像素内。

