

(19)  
(12)(KR)  
(A)(51) 。 Int. Cl. <sup>7</sup>  
G09G 3/30(11)  
(43)2002 - 0087357  
2002 11 22(21) 10 - 2002 - 0026346  
(22) 2002 05 14

(30) 09/858,109 2001 05 15 (US)

(71) 343

(72) 14625 36

(74)

:

(54) O L E D

가 OLED , , 가 , .

2

1 ,

2 , ,

3 , 가 ,

4 가 , (common substrate) (package)

4 : 6 :

7 : 8 :

12 : 14 :

18 : 24 :

(organic light emitting diode ; OLED) (flat - panel display)  
(aging effect) (active matrix) OLED

(OLED) (computing device)  
(imaging) 가 ,  
(electronic component) (degradation)

, OLED (efficiency) (brightness) (color dependent)  
(power efficiency) (color rendition) 가 (color balance)

OLED ( 1 ) (data signal)  
(capacitor) (4) (associated control circuit)  
(data line) (1) (select line) (3) (transistor) (2)  
(6) (power supply) (8) (ground) (7)  
(gate)

ply voltage) 가 (recalibrated) 가 (power sup  
(intervention)가

OLED

(programmable power supply) , (light output) 가  
 edback signal) (sensor) , (fe  
 가 (display controller)  
 OLED .

(accuracy) 가 . 가  
 (operational characteristic) , 가

2 , (10) (14) (12) ,  
 가 (20) (18) , (24) (12)  
 (24) (14) (18)  
 (14)  
 (20) .

3 가 (15,16,1  
 7) (separate sensor) (25,26,27) 가 (25,26,27) (18)  
 (21,22,23) (power line) (31,32,33)  
 (25 - 27) (1  
 8) (25 - 27) (15 - 17) ,  
 (separate signal) (separate line)  
 가 , (shared signal line)

가 ,  
 가 ,  
 가 ( )  
 , , 가 ,

(common package) , (common substrate) (printed  
circuit board) , 4 , 가  
(electrical lead) . (c  
ommon power source)(30) .  
 , 가 .

가 , (digital logic) (analog po  
wer device) , (address, data and control line)(34)  
 . 가 , (integrated circuit te  
chnology) 가 (voltage circuitry) .

, 1988 9 6 Tang 4,769,292 , 1991 10  
29 VanSlyke 5,061,569 ( )  
OLED(small molecular polymeric OLED) (Organic Light Emitting Diodes ; OLE  
D) .

(57)

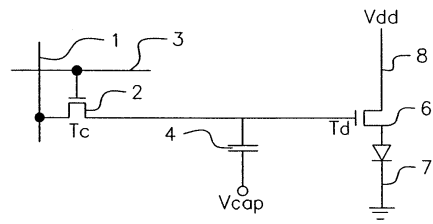
1.

OLED (active matrix OLED flat - panel display) ,

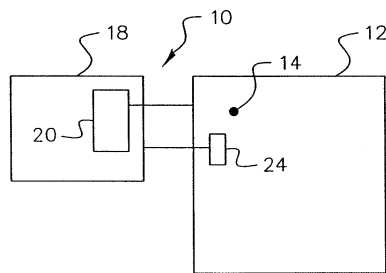
- a) (light emitting element) (associated control circuit) ,
- b) 가 (programmable power supply) ,
- c) (light output) (feedback signal)  
(sensor) ,
- d) 가 (compensating)  
(display controller)

OLED .

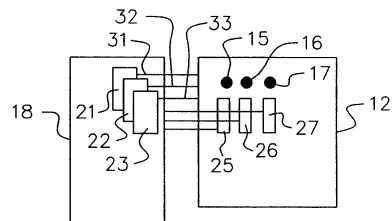
<sup>1</sup>  
(종래기술)



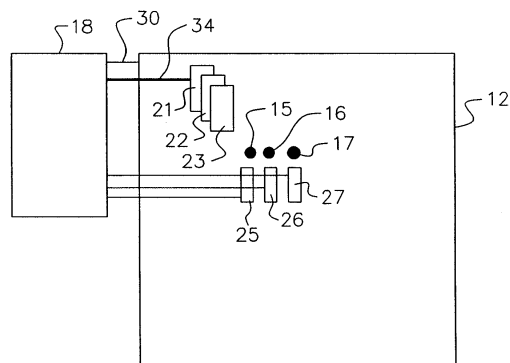
<sup>2</sup>



<sup>3</sup>



<sup>4</sup>



|                |  |         |            |
|----------------|--|---------|------------|
| 专利名称(译)        | 有源矩阵OLED平板显示器  |         |            |
| 公开(公告)号        | <a href="#">KR1020020087357A</a>   | 公开(公告)日 | 2002-11-22 |
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| [标]申请(专利权)人(译) | 伊斯曼柯达公司  |         |            |
| 申请(专利权)人(译)    | 柯达公司针  |         |            |
| 当前申请(专利权)人(译)  | 柯达公司针  |         |            |
| [标]发明人         | COK RONALDSTEVEN   |         |            |
| 发明人            | COK,RONALDSTEVEN   |         |            |
| IPC分类号         | G09G3/30 H01L51/50 G09G3/32 G09G3/20   |         |            |
| CPC分类号         | G09G2320/045 G09G2360/145 G09G2300/0842 G09G2320/043 G09G2300/0809 G09G2320/029 G09G3/3233 G09G3/3258 G09G2360/148 |         |            |
| 代理人(译)         | KIM, CHANG SE<br>KIM , WON JOON  |         |            |
| 优先权            | 09/858109 2001-05-15 US  |         |            |
| 外部链接           | <a href="#">Espacenet</a>  |         |            |

#### 摘要(译)

有源矩阵OLED平板显示器包括与多个发光二极管相关联的控制电路和显示控制器，显示控制器响应于反馈信号对控制电路中的可编程电源进行编程，以便补偿光功率的变化。从可能的链式程序电源和传感器，感测至少一个发光二极管的光功率并产生反馈信号和发光二极管。

