

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G09G 3/30(11)
(43)2002 - 0052136
2002 07 02(21) 10 - 2000 - 0081417
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7 6 (PE1)

8 6 (PE2)

12, 22 : 14, 24 :

16, 26, 36 : PE, PE1, PE2 :

,
 (Cathode Ray Tube)
 (Liquid Crystal Display)

Crystal Display : "LCD", Field Emission Dis

play),
 (Plasma Display Panel : "PDP")
 minescence : "EL")
 (Electro - Liquid Crystal Display : "LCD")

EL

, EL

가

가

EL 1 (10) (GL, /GL) (DL) (GL, /GL) (PE) (D)
L , (GL, /GL) (DL) (PE) .
(PE) (GL, /GL) (DL)

EL	,	(12)가	(GL, /GL)
(14)가	(DL)	.	(12) (GL, /GL)
.	.	(14)	(PE)

, (12) (14) (PE) 2
 (GND) EL (OLED) , EL (OLED) (16)
 . (16) 1, 2 (N1, N2) EL (OLED) 1 PMOS (T
 hin Film Transistor; " TFT") (MP1) , (GL) 2 EL (OLED)
 2 PMOS TFT (MP2) , 1 2 (N1, N2) (C1) .

(C1) (DL) 가 가 ,
 1 PMOS TFT(MP1) . 1 PMOS TFT(MP1) (C1)
 - (VDDL) 1 (N1) (VDD) EL (OLED)(
 OLED) . , 1 PMOS TFT(MP1) 가 E
 L (OLED) . , EL (OLED) 1 PMOS TFT(MP1) 가

2 PMOS TFT(MP2) (GL) 가 3 (GLS)
 2 (N2) EL (OLED) . , 2 PMOS TFT(MP2) 가
 (GLS)가 . (N2) EL (OLED) (GL) (GLS)가
 C1) . , 2 PMOS TFT(MP2) . (C1) 가
 (C1) . (C1) .
 1 PMOS TFT(MP1)
 . , 1 PMOS TFT(MP1)
 1 (N1) EL (OLED) . , EL (OLED)
 (GL) . , (/GL)
 (/GL) 3 PMOS TFT(MP3) .
 4 PMOS TFT(MP4) 가 .

3 PMOS TFT(MP3) 가 (GL) - 1
 (N1) (C1) 1 PMOS TFT(MP1) (DL)
 , 3 PMOS TFT(MP3) (GLS)
 (DL) 1 (N1) .
 .
 , 3 PMOS TFT(MP3) (GL) 가 -
 가 1 2 (N1, N2) (C1) . 4 PMOS TFT(MP4)

, (22) (GND) (24) EL (OLED) EL (OLED) (PE1 PE2) 6
 6 5 , (Current Mirror)

6 , (PE1) (Thin F
 ilm Transistor; " TFT") , 7 8

7 5 (PE1)
 7 (DL) (PE1) (GND) (OLED) , EL (OLED) (26) (DL) (OLED) , EL (OLED) (26) (G
 L) 가 (OLED) EL

1 , EL (OLED) (26) EL (OLED), (VDD)
 2 PMOS TFT(P1, P2) , 1 2 PMOS TFT(P1, P2)
 3 PMOS TFT(P3) , 2 PMOS TFT(P2) (VDD) (VDD)

C_{ST1} (C_{ST1}) (VDD) (DL) , (DL) 2 PMOS TFT(P2) (VDD) (VDD) EL (OLED) (C_S
 τ_1)

3 PMOS TFT(P3) , 3 PMOS TFT(P3) 가 1 2 PMOS TFT
 (P1, P2) 가 . , 1 PMOS TFT(P1) 가 1 PMOS TFT(P1) C_O
 I_{L1} (VDD) (C_{ST1}) EL (OLED) (C_{ST1}) 1
 PMOS TFT(P2) . , 1 PMOS TFT(P1) 2 PMOS TFT(P2) (Ho
 Iding) . , K PMOS TFT 1:K 가
 (V_{TH}) 2 PMOS TFT(P2) 2 PMOS TFT(P2) 가

TFT (Width) (Over
 lap) (Length) , 1 PMOS TFT(P
 1) 2 PMOS TFT(P2) (Width) (Length) 가 1 PMOS TFT(P1)
 2 PMOS TFT(P2) . , 1 PMOS TFT(P1) 2 PMOS TFT(P2) 1:K 2
 PMOS TFT(P2) 1 PMOS TFT(P1) K × (I_{COL}) 가
 . , K PMOS TFT 2 PMOS TFT(P2) 2 PMOS TFT(P2) 가

8 5 (PE2) 2 TFT

8 (PE2) (GND) (OLED) , EL (OLED) (36) (DL) (OLED) , EL (OLED) (36) (G
 L) 가 (OLED) EL

, EL (OLED) (36) EL (OLED), 가 1 PMOS TFT(P1)

(VDD)

) 4 PMOS TFT(P4), 1 4 PMOS TFT(P1, P4)
 5 PMOS TFT(P5), 4 PMOS TFT(P4)
 (VDD) (C_{ST2}) .

5 PMOS TFT(P5)가 - 1 4 PMOS TFT(P1, P4) 가 . , 5 PMOS
 TFT(P5)가 1 PMOS TFT(P1) C_{OL_1} 가 (I_{COL})가 ,
 (C_{ST2}) . (C_{ST2}) 4 PMOS TFT(P4)
 EL (OLED) (Holding) .
 가 EL (OLED) (C_{ST2}) .

1 PMOS TFT(P1) 4 PMOS TFT(P4) (Width) (Length)
 가 1 PMOS TFT(P1) 4 PMOS TFT(P4) . , 1 PMOS TFT(P1) 4 PM
 OS TFT(P4) 1:K 4 PMOS TFT(P4) 1 PMOS TFT(P1) K
 × (I_{COL}) 가 . , 1 PMOS TFT(P1) 4 PMOS TFT(P4)
 (V_{TH}) 4 PMOS TFT(P4) 가 .

가 , 7 9 PMOS TFT(P7, P9)가 - 1 PMOS TFT(P1) 6 PMOS TFT(P6)
 1 PMOS TFT(P1) 8 PMOS TFT(P8)가

가

(57)

1.

, (OLED) ,
 1 (OLED) 1 (OLED) ,
 1 (OLED) 2 (OLED) (OLED)

2.

1 ,

1 (OLED)

(OLED)

, 1 (PMOS)

(OLED)

2 (PMOS)

,

1 2 (PMOS)
(PMOS),

2 (PMOS)

3.

2 ,

1 (PMOS) 2 (PMOS) 2 (PMOS) ()

4.

1 ,

2 (OLED) (OLED),

(OLED) 4 (PMOS)

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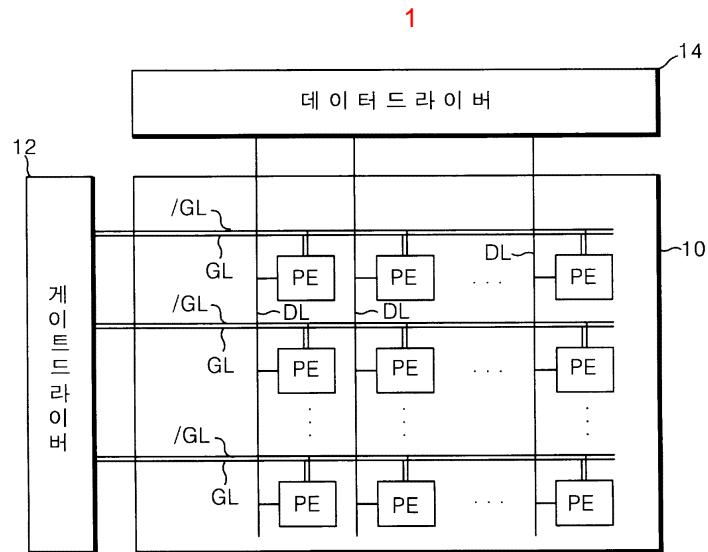
4 (PMOS) 5 (PMOS),

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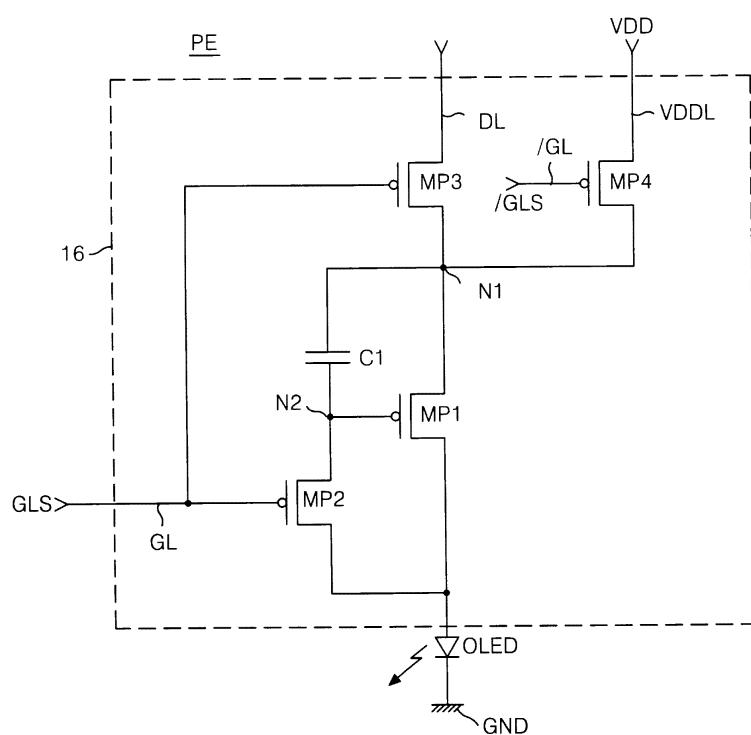
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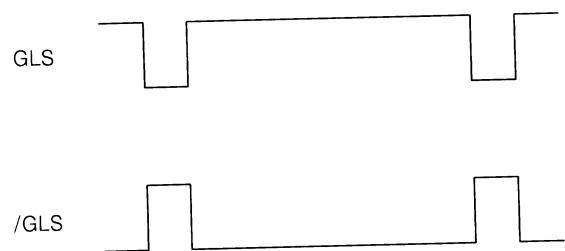
1 (PMOS) 4 (PMOS) 4 (PMOS) ()



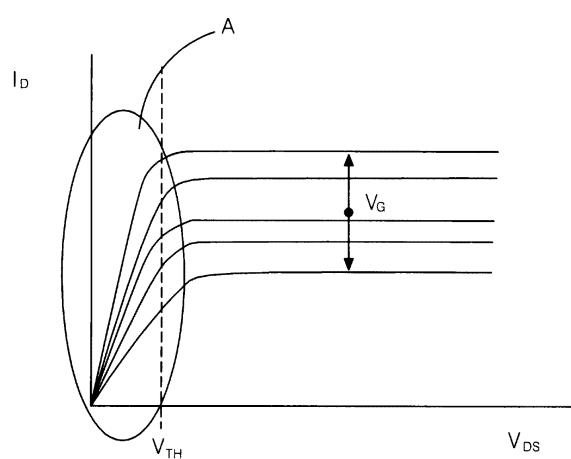
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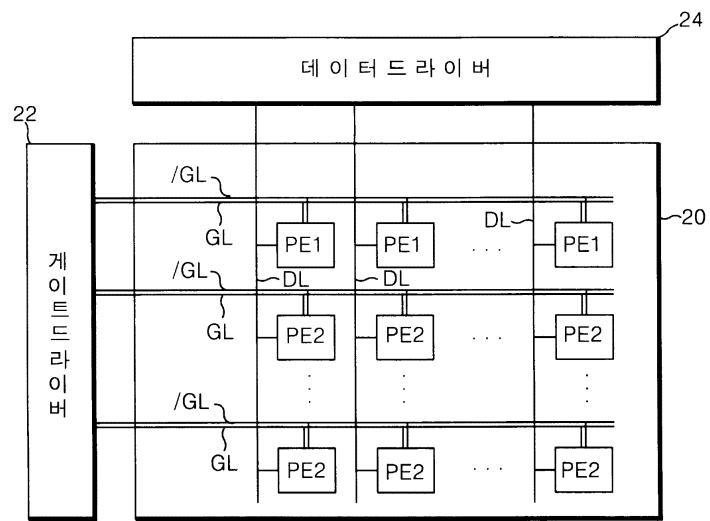
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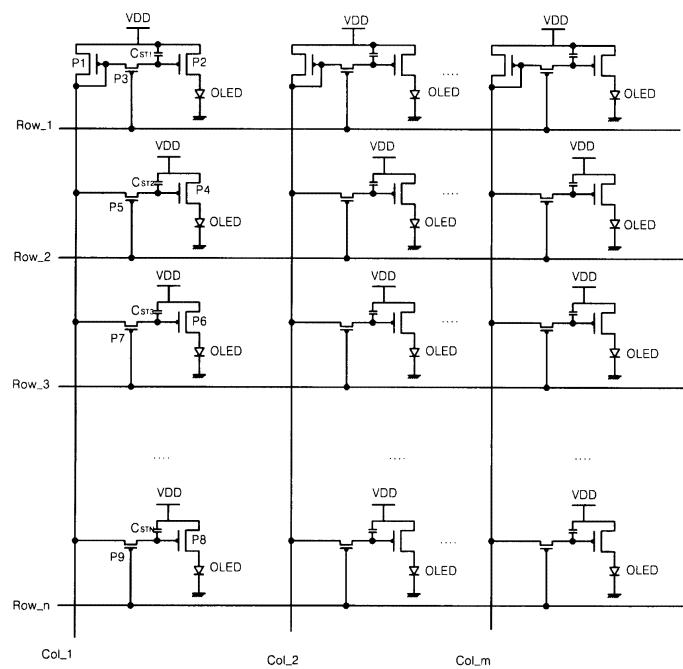
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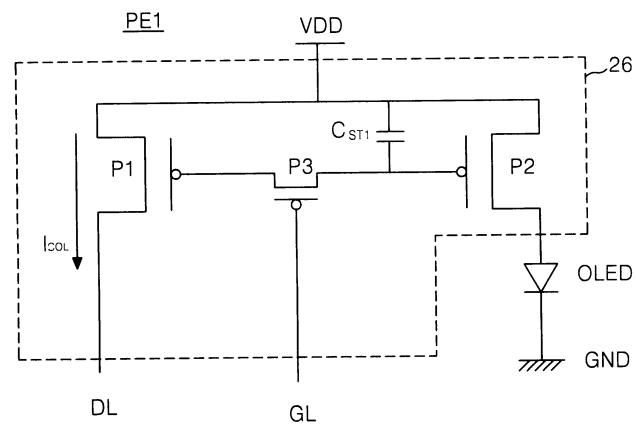
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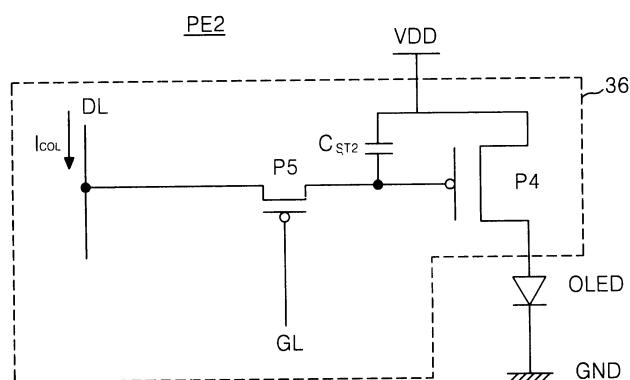
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专利名称(译)	电致发光板		
公开(公告)号	KR1020020052136A	公开(公告)日	2002-07-02
申请号	KR1020000081417	申请日	2000-12-23
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK JOON KYU 박준규 BAE SUNGJOON 배성준 LEE HANSANG 이한상 AHN TAE JOON 안태준		
发明人	박준규 배성준 이한상 안태준		
IPC分类号	G09G3/30 H01L51/50 G09G3/32 G09G3/20		
CPC分类号	G09G2300/0465 G09G2300/0842 G09G3/3283 G09G3/3241 G09G3/3233 G09G2300/08		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR100675319B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种电致发光板，通过在电致发光板的制造过程中补偿PMOS TFT的电流特性来提高亮度。

