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(A)(51) 。 Int. Cl. ⁷
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(43)2002 - 0052136
2002 07 02(21) 10 - 2000 - 0081417
(22) 2000 12 23(71) .
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20(72) 1 1630 - 17
104 703
1 1608 - 9202
1 102 - 8 4 8(74) :
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(54)

1 , 1 2
1 1

5

1

2 1

3 1

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6

7 6 (PE1)

8 6 (PE2)

12, 22 : 14, 24 :

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

, (Cothode Ray Tube)
(Liqui

d Crystal Display : " LCD"), (Field Emission Dis

play), (Plasma Display Panel : " PDP") (Electro - Lu
minescence : " EL")

EL

, EL

가 가

EL (10) (GL, /GL) (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) (E
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)
(GLS)가 2 (N2) EL (OLED) 가 (C1)
, 2 PMOS TFT (MP2) (GL) (GLS)가
(C1) (C1) 가
1 PMOS TFT (MP1)
, 1 PMOS TFT (MP1)
1 (N1) EL (OLED)
(GL) 3 PMOS TFT (MP3) , EL (OLED)
(/GLS) 4 PMOS TFT (MP4) 가 (/GL)

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)

(/GL) (/GLS)가 -
 (C1) 1 PMOS TFT (MP1) 1 (N1) (VDDL)
 4 PMOS TFT (MP4)
 가 - (VDDL) (VDD) 1 (N1) 1 PMOS TFT (MP1)
 EL (OLED), EL (OLED)
 EL EL (OLED) PMOS TFT
 , PMOS TFT 4
 4 (V_{DS}) 가 , (I_D)
 4 , PMOS TFT (V_G) (V_{DS}) ,
 (I_D)가 EL
 (V_{DS}) EL EL (V_{TH}) (I_D)
 가 가 가
 , PMOS
 ,
 ,
 ,
 1 1 1 2
 5 8
 EL 5 (20) (GL, /GL) (DL) (GL, /GL) (PE1 PE2) (D
 L) ,
 (DL) (PE1 PE2) (GL, /GL)
 (Electro Luminescence ; " EL")
 22)가 (GL, /GL) (24)가 (DL) (24)
 (22) (GL, /GL) (24)
 (PE1 PE2)

(22) (24) (PE1 PE2) 6
 (GND) EL (OLED) EL (OLED)

6 5 (Current Mirror)

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

7 5 (PE1)

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

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

C_{ST1})

(C_{ST1}) (VDD) (DL) , (DL)
 2 PMOS TFT(P2) 2 PMOS TFT(P2) (C_s
 T_1) (VDD) (VDD) EL (OLED)

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_0
 I_{L1} 가 (I_{COL})가 , (C_{ST1}) (C_{ST1}) 1
 PMOS TFT(P2) (VDD) EL (OLED) (Ho
 lding) 가 EL (OLED)
 (C_{ST1})

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) $K \times (I_{COL})$ 가 가
 , K PMOS TFT , 1 PMOS TFT(P1) 2 PMOS TFT(P2)
 (V_{TH}) 2 PMOS TFT(P2) 가

8 5 (PE2) 2 TFT

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

, 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) (VDD)
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
 $\times (I_{COL})$ 가 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 .

(57)

1.

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

2.

1 ,

1 (OLED) (OLED)

,

1 (PMOS)

(OLED) 2 (PMOS)

,

1 2 (PMOS) 3

(PMOS)

2 (PMOS)

.

3.

2

,

1 (PMOS) 2 (PMOS) (

) (-) 2 (PMOS)

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4.

1

,

2 (OLED) (OLED)

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(OLED) 4 (PMOS)

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4 (PMOS) 5 (PMOS)

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4

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5.

4

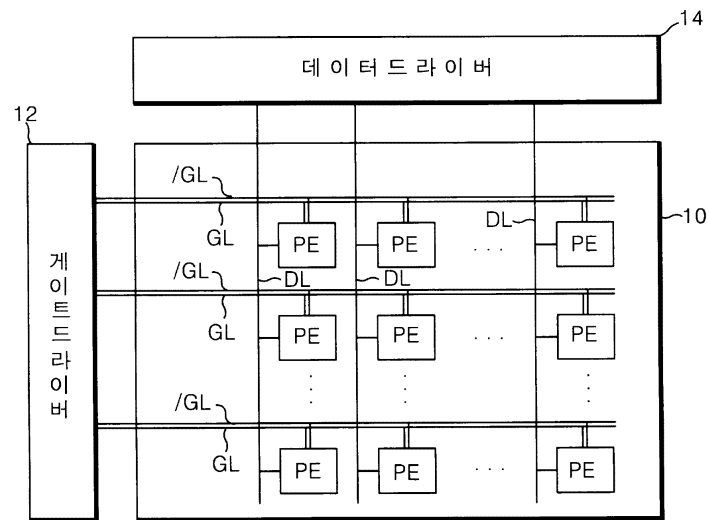
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1 (PMOS) 4 (PMOS) (

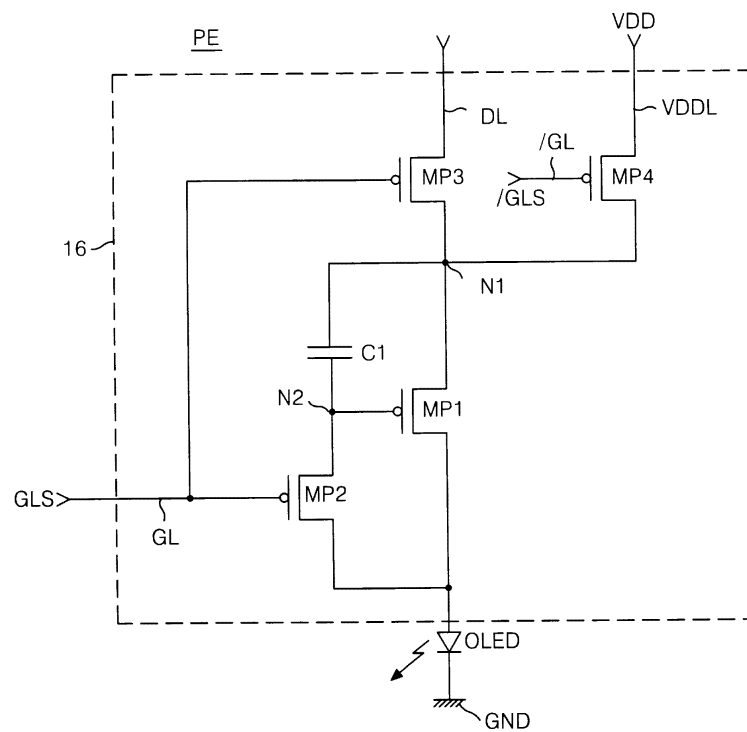
) (-) 4 (PMOS)

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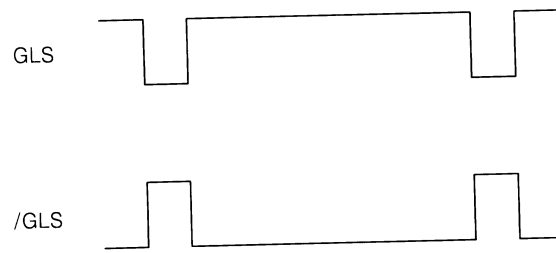
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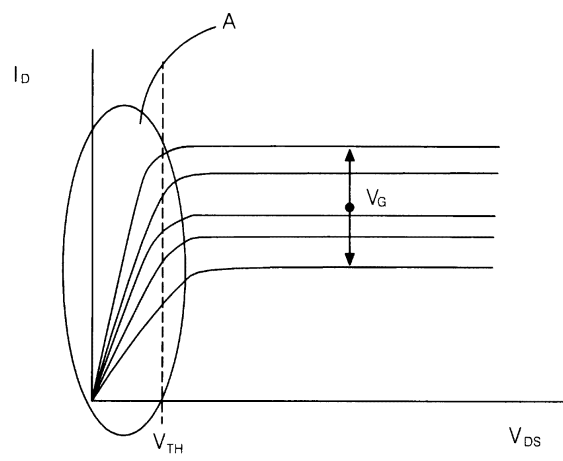
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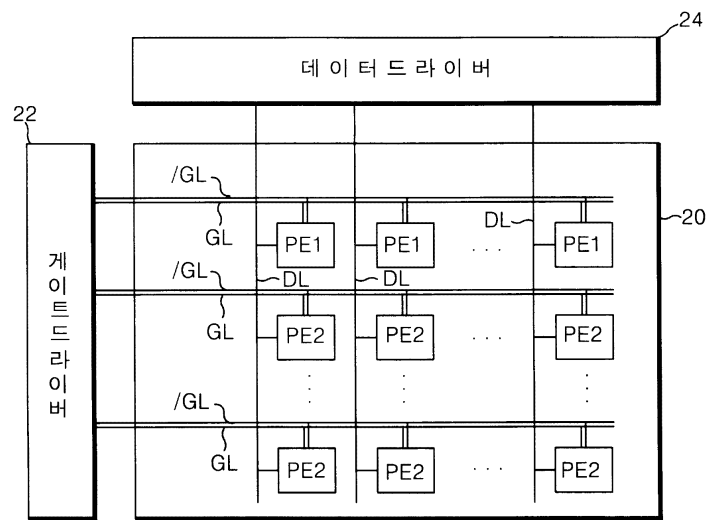
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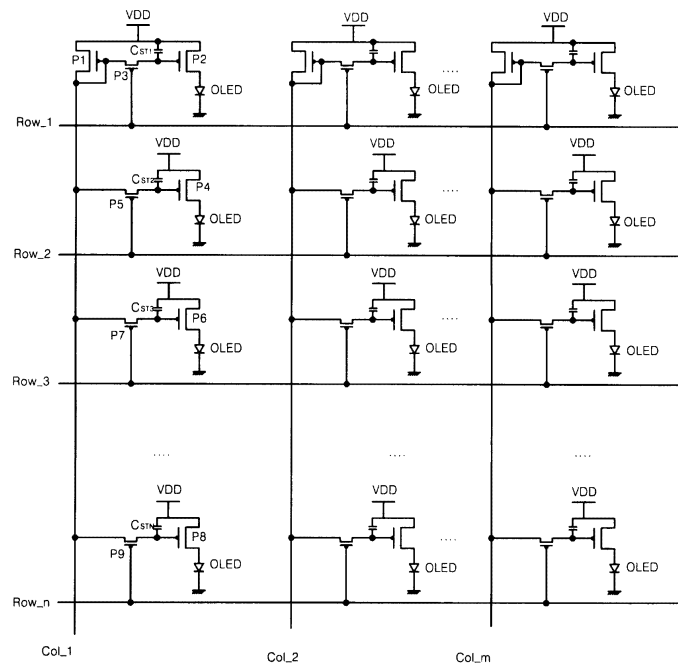
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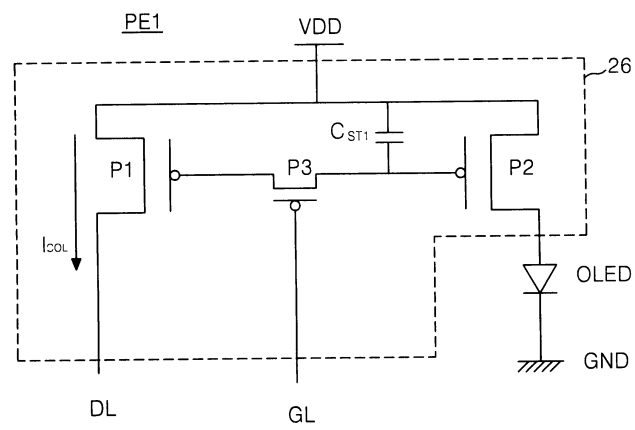
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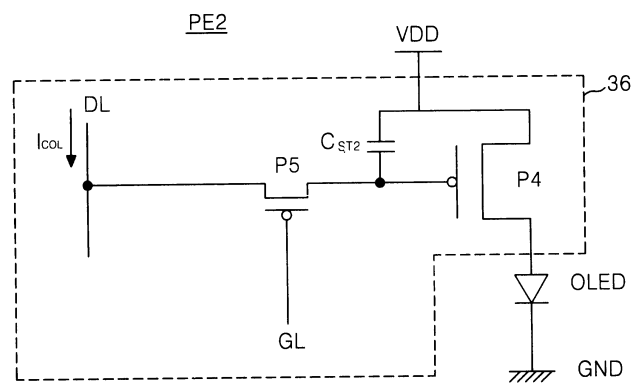
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专利名称(译)	电致发光板		
公开(公告)号	KR1020020052136A	公开(公告)日	2002-07-02
申请号	KR1020000081417	申请日	2000-12-23
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK JOON KYU 박준규 BAE SUNGJOON 배성준 LEE HANSANG 이한상 AHN TAE JOON 안태준		
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。

