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2004 10 21

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2003 04 11

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(74)

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(54)

O L E D

.

Vsg

OLED

OLED

가

1

1

2

3 Vth가

4 Vth가

5

*

*

1 : 2 :

3 : 4 :

5 : OLED S :

D : P :

OLED

CD (TFT LCD) TFT(a-Si TFT) -Si TFT
 가 a-Si TFT LCD a-Si TFT a-Si TFT가 , LTPS TFT-L
 TPS TFT 200cm²/V-sec 가 . L
 가 50% , LTPS TFT 가 .
 3842 LTPS TFT , 가 , 200 , 가) (a-Si TFT
 , LTPS TFT TFT
 , TFT TFT
 LED 가 가 OLED가 OLED O
 ' (2T1C) TFT US 5,684,365 2 TFT
 , (, OLED 가 . OLED
 Vsg OLED , OLED
 ' US 6,229,506 4T2C
 가 , - , , ,

Electronic Research amp; Service Organization, Industrial Technology Research Institute(R.O.C)'

OLED

'(IDW, 01)

2T1C + R

가 , 가 , 가 , 가 ,

TFT Vsg , TFT가

Jerzy Kanicki(University of Michigan, U.S.A)

TFT

OLED

3T1C 가 , TFT

TFT Vsd 가 , TFT가 ,

TFT OLED

3T1C

TFT

Vsg OLED

1

OLED OLED

Vsg

D(5) (10) (1), (2), (3), (4) OLE

T) (1) (S) (D) 2 (11, 12) (TF

3) (2) (3) (33) (21) TFT (1) (13) (

(32) (3) TFT (P) (31) (1) (13)

(4) (P) (1) (13)

OLED(5) (2) (23)

(4) (S) (D) (1) (D) (1) (2) OLED(5)가 OLED(5)

Vc)가 Vdata1 (3) - 2 Vdata1 Vsg3가 (4) (2) (Vth) (3) (3) (Vsd3) (V1) (4) (Vc) (3) Vsd3 (2) Vsg2가 (2) (11)

Vth가 (2) - 3 Vth - AVth가 (2) Vsd3 가 (3) (2) V2가 (2) Vsg2 (2)

(I2) (I1) (2)

Vth가 , (2) 4 , (2)

Vth + AVth , (2) Vsd3 (3)

V3가 (I3) (I1) (2) Vsg2 (2)

2) (Vsd3) (2) (Vsg2) 가 (2) (

가 (3) (, (4) (Vc))

가 (3) (3) (Vsd3)

(2) (3) 2

(4) (Vc)가 Vdata1 , (3) Vsg3(Vdata1) , Vsd3

(2) (V1) (Vth) (2) (I1) (3)

(4) (Vc)가 Vdata2 , (3) Vsg3(Vdata2)

(2) (V4) (Vth) (2) (I4) (3)

Vsd3 (V4)

(4) (Vc)가 Vdata1 Vdata2 , (3) (Vsd3) V5

(2) (I4) (4) (I4)

V4 (Vc) , (4)

1. TFT , OLED Vsg -

2. , 2 ,

OLED

Vsg

(57)

1.

(OLED)

;

2

;

2

OLED

2.

1

3.

1

4.

1

5.

1

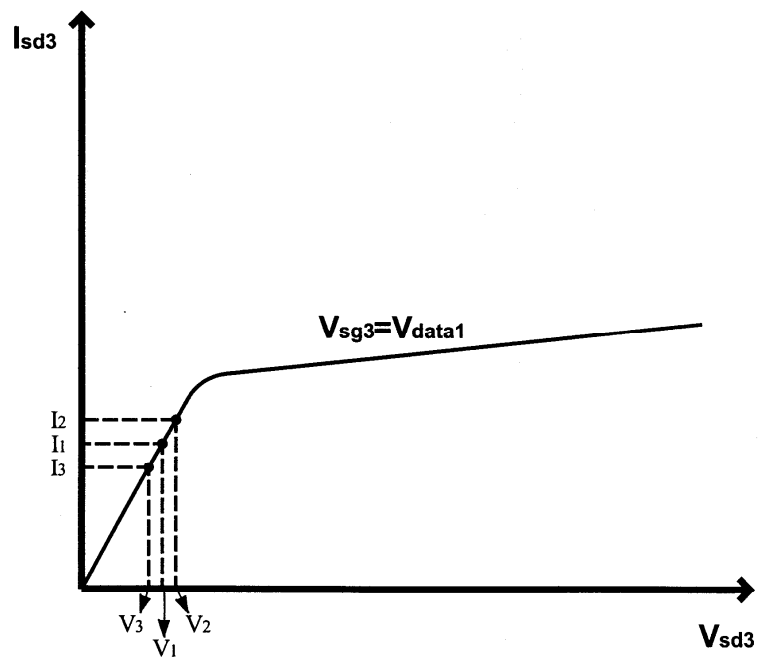
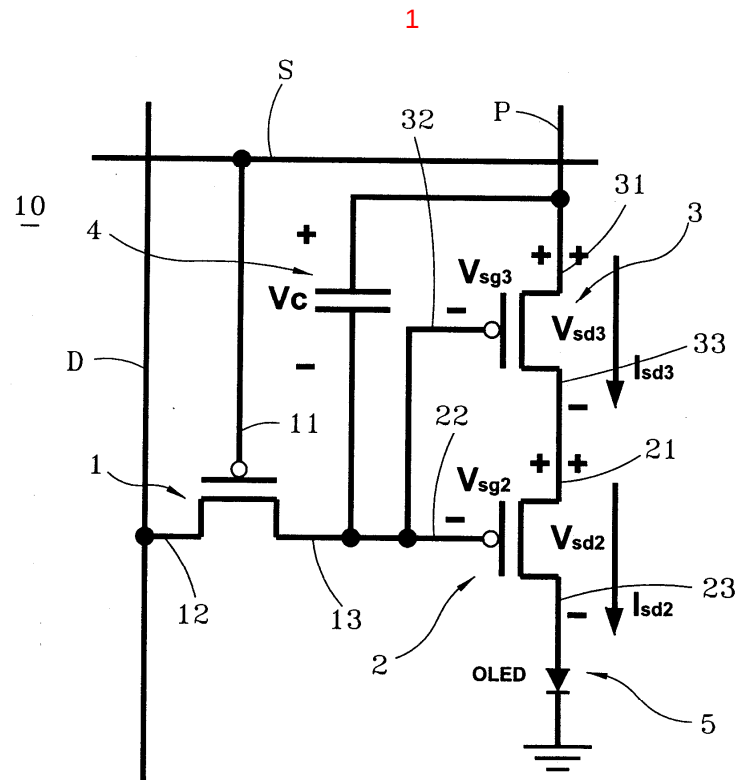
6.

(OLED)

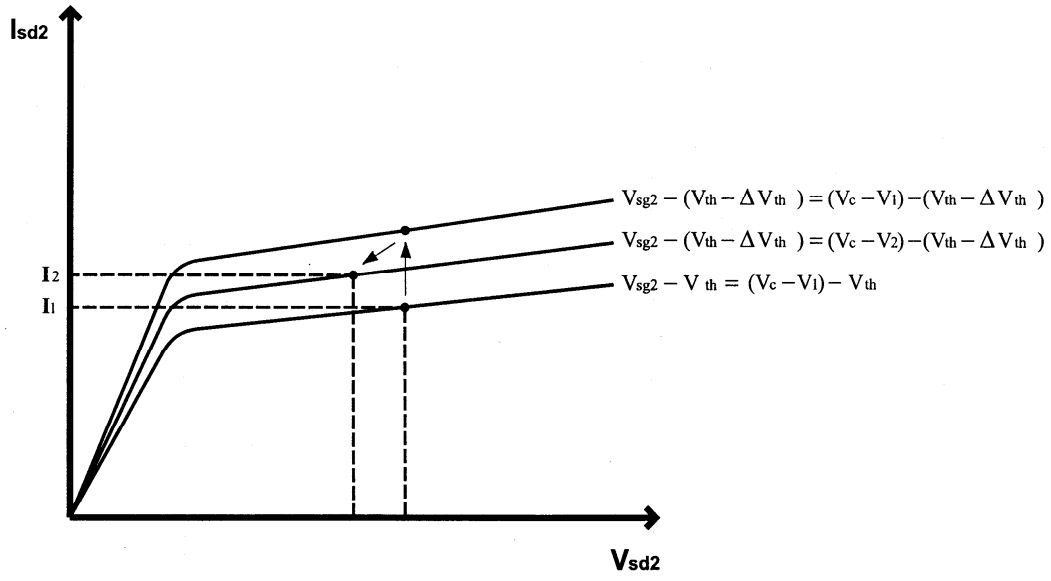
OLED

Vsg

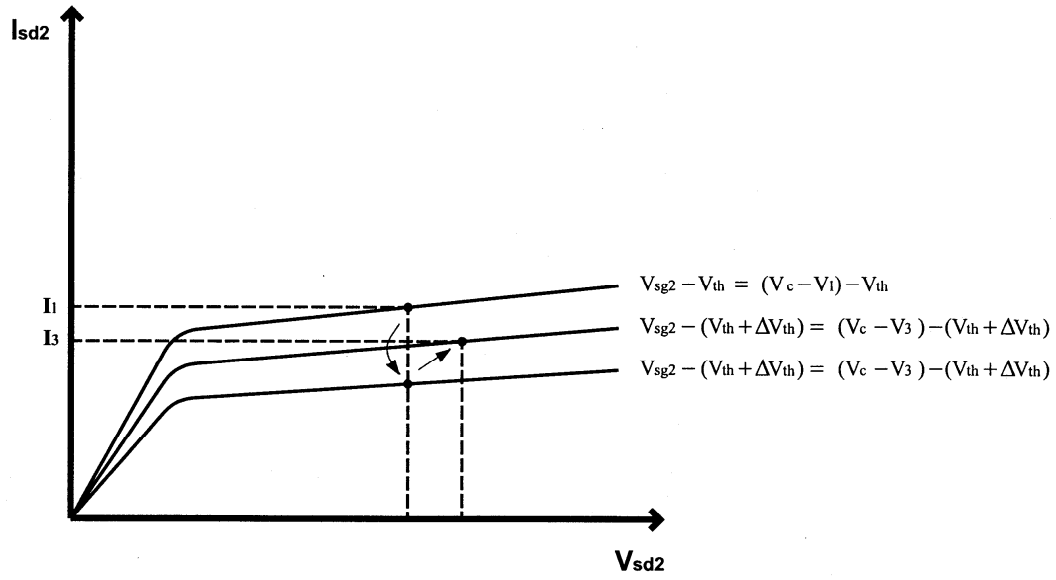
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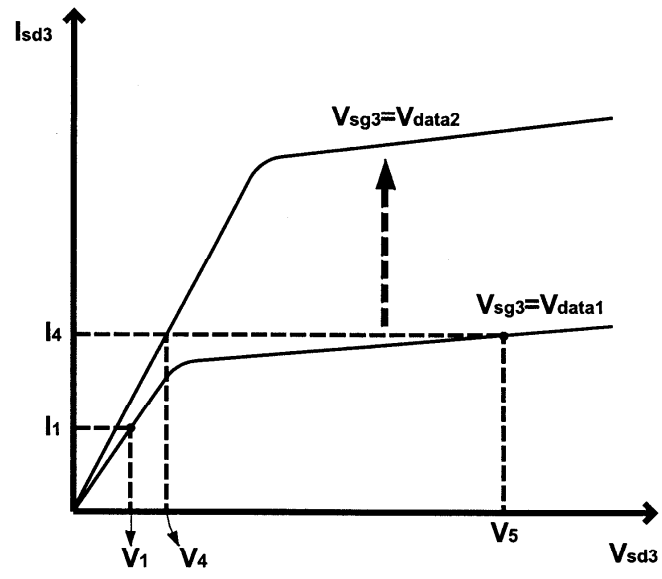
3



4



5



提供了用于实现由多个像素装置组成的有源矩阵LED显示装置的均匀亮度的方法和装置。显示装置的图像从包括控制驱动器单元的V_{sg}的校正单元的驱动器单元的特性变化的影响较小，以便补偿驱动器单元和驱动器单元的特性变化。像素设备驱动OLED用于辐射。

