

(19) (KR)
 (12) (A)

(51) Int. Cl.⁷
 G09G 3/30

(11)
 (43)

2003-0078668
 2003 10 08

(21) 10-2003-0018139
 (22) 2003 03 24

(30) JP-P-2002-00097545 2002 03 29 (JP)

(71) 10504

(72) 가 가 2-15-26

가 가 6-1- 503

가 3-11-116

(74)

(54) , O L E D , , O L
 E D

OLED(Organic Light Emitting Diode) TFT (V_{th}) 가
 0) TFT OLED TFT , TFT , OLED (1
 , , , (14)

1

1 가 OLED

2 OLED

3a 3b

4 TFT 50 Vth

5 TFT 35 , 가 (+ : plus shift)

6 TFT (Vth)

< _____ >

10 : OLED

11 :

12 :

13 :

14 :

15 :

20 :

21 : OLED(Organic Light Emitting Diode)

22 : 1 F 1

23 : 1 F 1

24 :

OLED(Organic Light Emitting Diode)
OLED

OLED(EL) 가
 . OLED , , (Gamut)
 . OLED , , (passive type) , (active type), 2 가
 , , , , , (cross talk)
 . , TFT(Thin Film Transistor) . TFT 2가
 a-Si() .

가

OLED

, OLED

1 , a-Si() TFT OLED (10) (10), m x n (11), (11)
 D (10) (10), (12), (12), (13), (13), OLED (14), OLED (14), OLED (15), (15), m x n
 (20) (20) (20) (20) (20) (20) (20) (20) (20)
 LED OLED OLED OLED OLED OLED OLED OLED OLED
 2 OLED (10) (10) (10) (10) (10) (10) (10) (10) (20)
 , TFT (13) (13) (13) (13) (13) (13) (13) (13) (20)
 (14) (14) (14) (14) (14) (14) (14) (14) (20)
 , (11) (11) (11) (11) (11) (11) (11) (11) (20)
 , (14) (14) (14) (14) (14) (14) (14) (14) (20)
 , (15) (15) (15) (15) (15) (15) (15) (15) (20)
 , (16) (16) (16) (16) (16) (16) (16) (16) (20)
 , (17) (17) (17) (17) (17) (17) (17) (17) (20)
 , (18) (18) (18) (18) (18) (18) (18) (18) (20)
 , (19) (19) (19) (19) (19) (19) (19) (19) (20)

(V_{th})

, , OLED
 (/) , TFT
 (Vth) , TFT
 가 , TFT
 , TFT
 TFT

, , TFT
 (Vth) , TFT
 TFT
 가 , TFT
 , TFT
 TFT

, , (Vth) , OLED
 TFT
 (Vth) OLED
 , , (Vth)
 TFT
 가 , TFT
 , TFT

, , (Vth) , OLED
 (TFT) OLED
 , TFT OLED

(57)

1.
OLED(Organic Light Emitting Diode) ,

OLED

가

2.

1 , ,

3.
OLED(Organic Light Emitting Diode) ,

OLED

가

4.

3 , ,

5.
OLED(Organic Light Emitting Diode) ,

가

6.

5 , ,

가

7.

OLED(Organic Light Emitting Diode) ,

OLED

(V_{th})

OLED

8.

7

0V가

OLED

9.

OLED(Organic Light Emitting Diode)

가

10.

9

11.

OLED(Organic Light Emitting Diode)

12.

11

13.

OLED(Organic Light Emitting Diode)

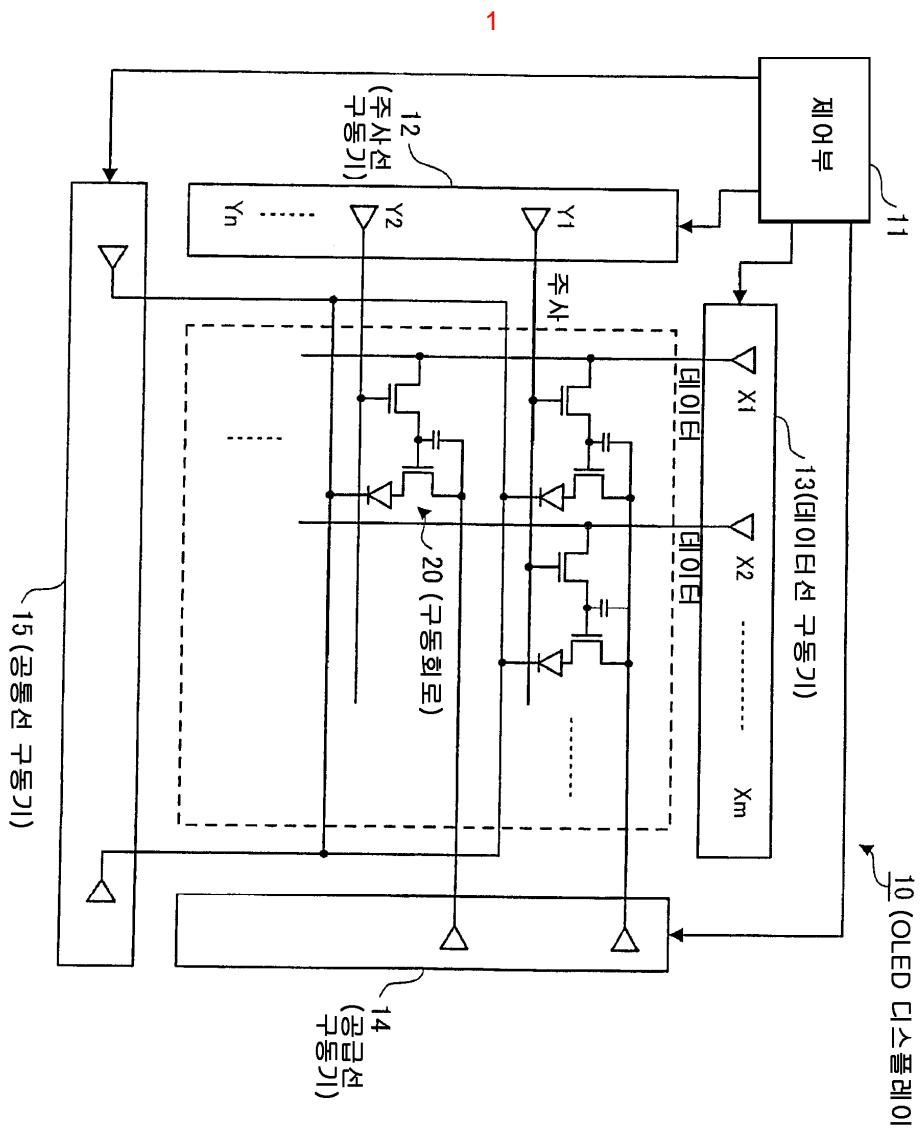
OLED

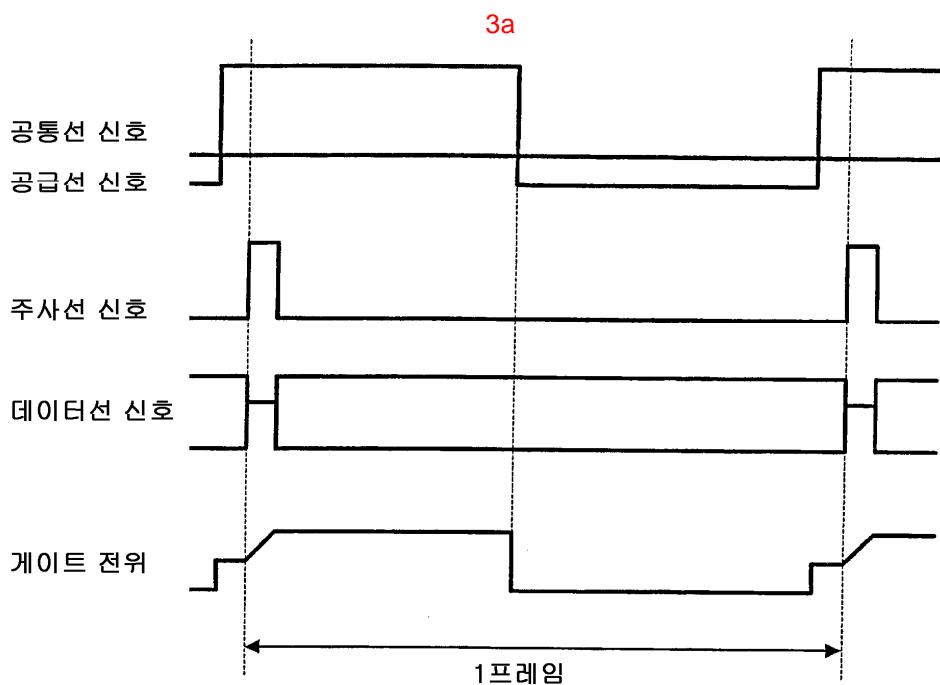
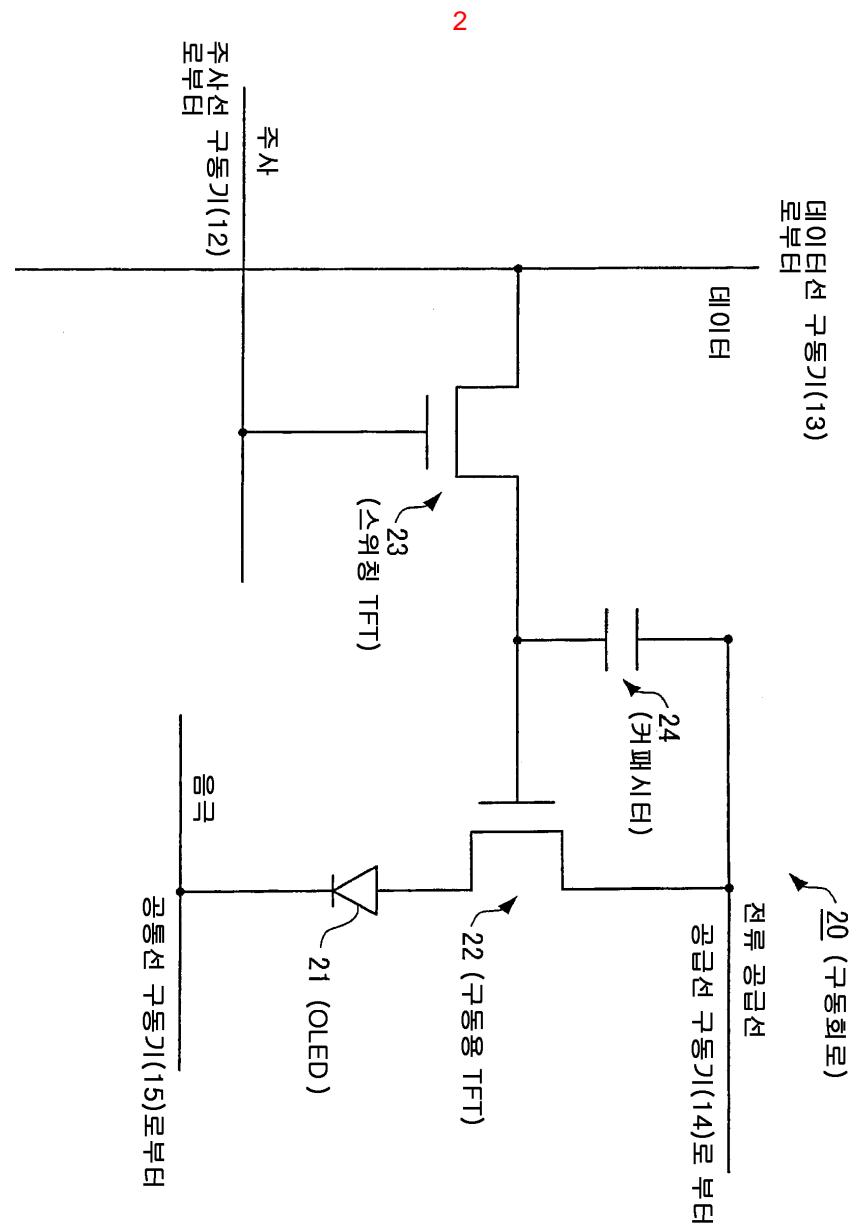
OLED

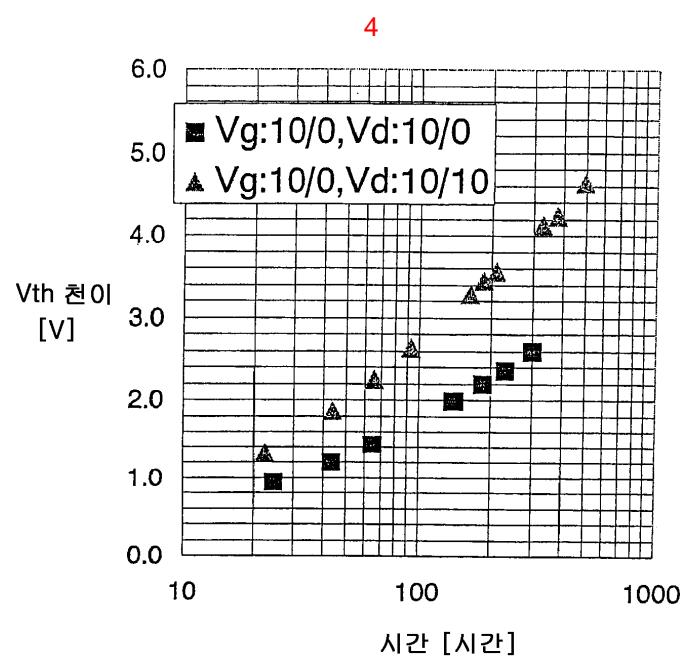
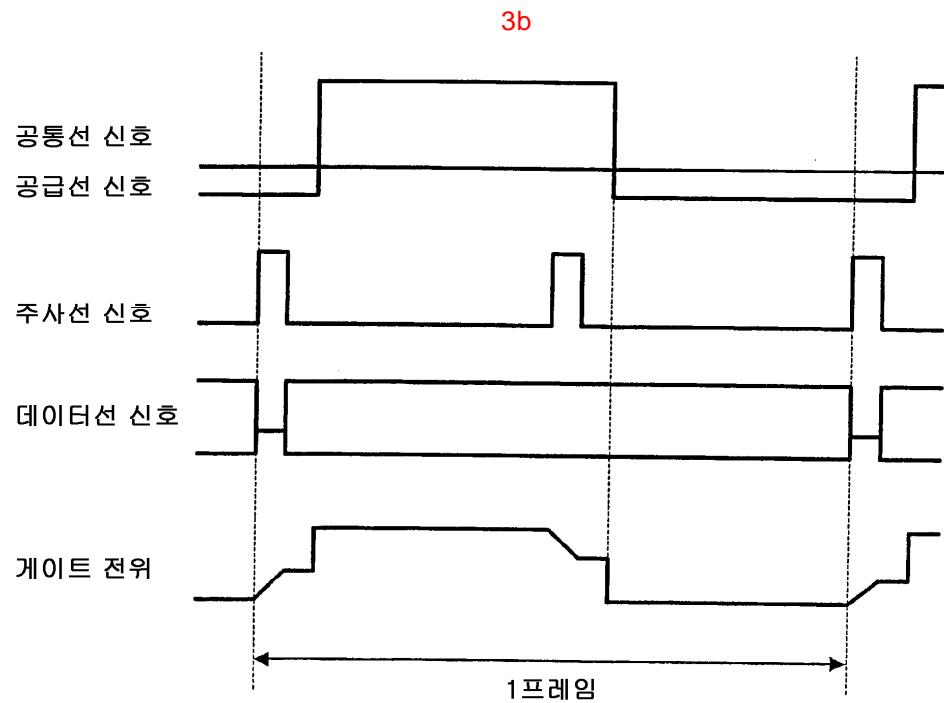
14.

13

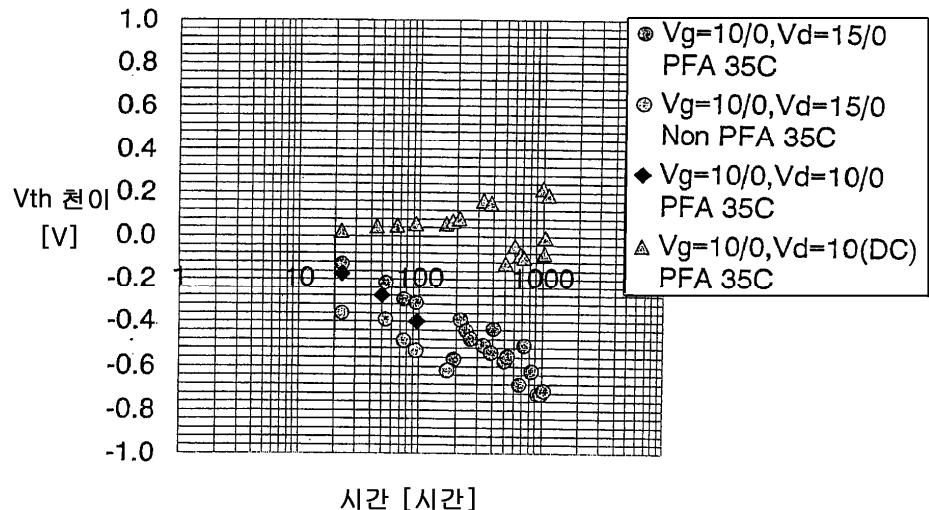
OLED



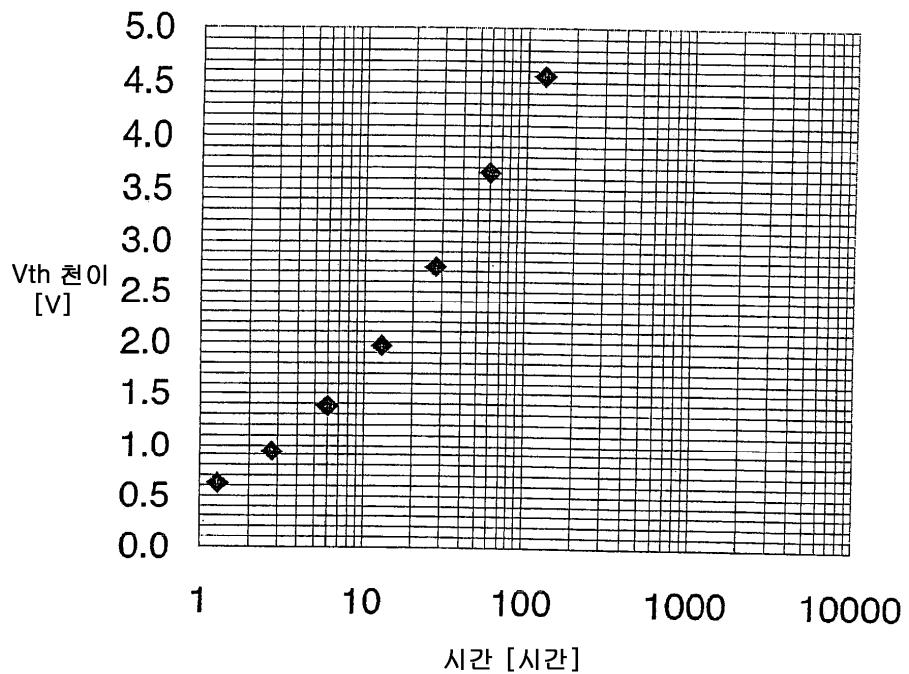




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专利名称(译)	显示装置，OLED面板，薄膜晶体管的控制装置，薄膜晶体管的控制方法和OL		
公开(公告)号	KR1020030078668A	公开(公告)日	2003-10-08
申请号	KR1020030018139	申请日	2003-03-24
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IPC分类号	H01L51/50 G09G3/30 G09G3/32 G09G3/20		
CPC分类号	G09G2300/0842 G09G2320/043 G09G2320/0233 G09G3/3233 G09G2310/066 G09G2300/0417 G09G2310/0254		
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优先权	2002097545 2002-03-29 JP		
其他公开文献	KR100526267B1		
外部链接	Espacenet		

摘要(译)

它通过切断被称为晶体管的非晶硅TFT的临界电压(V_{th})的增加分量来同时驱动OLED(有机发光二极管)，它来自栅极电压和漏极电压。具体地，OLED显示器(10)包括馈电驱动器(14)，其通过非晶硅TFT向驱动电路的栅电极提供栅极电压，以及非晶硅TFT，并且当关断时切断电源电压到非晶硅TFT的漏极。

