

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

(51) 。 Int. Cl.⁷ (11) 10-2004-0075282
H05B 33/12 (43) 2004 08 27

(21) 10-2004-0011152
(22) 2004 02 19

(30) 03447032.8 2003 02 21 EP(EP)
10/369,882 2003 02 20 (US)

(71) , -8500 , 35

(72) , -3530 - 20

, -9810 7

, 02138 .219

(74)

:

(54)

OLED , ,

, ,
가 .
.

7

, , OLED, ,

1 OLED .

2 OLED .

3a - , 3b 가
/ .

4 .

5 9 .

10 (Cartesian) .

11 .

12 .

13 5 .

14a 5 , 14b
14a .

15 OLED .

16 11 .

17a , 17b
11 .

< >

2 :

8 : 2

20 :

24, 26, 28 :

265~268, 281, 282 :

43, 411, 412, 421, 422 : -

405 :

501~503 :

(Organic Light Emitting Diodes; OLED)
(direct view)

(LED), (FED), EL, OLED
LCD) CRT 가 CRT
가
(pixelation) CRT 3
(tiling) 가 가 (tiled)
가 가
(tiles)
가
LCD LCD
(opening) 4×4 OLED
(light - weight),
(back - connector) 가
가 OLED (2), 1 가
(4) (8) LED
1 (4), (6), 2 (8)
(6)
(7, 5)(R.L. Myers, Wiley 2002 4-13 1)
가 (6) (2) 가
(2) (6)가 가 OLED (6R
, 6G, 6B) (2) 2 (6
R, 6G, 6B) 가 (10)가 (10, 12)가
(2) , 가 (viewing angle)
6B (10) (6) (halo)
(10) (12) 3가
(vignetting)
OLED (viewing) 가 (3a) (2)
(non-occluded)
(3a (9)). (9)
가 가 (3b),

가 1 2 가

가 US 2002/0050958 가

OLED

OLED

가 가

(packing)

2 1 3

(envelope),

2

가

1

2

2

1

2

2

PCB

가

OLED

2

OLED

(back connecting)

가

()

/

가

ndle)

가

가

가

(aperture)

OLED

(bu

가

가

가

가

가

/ 가

가

가

1

1

가

(2)

(4

8)

1

(4),

(6),

2

(8)

LED

6)

가

(7, 5)

가

(1

). 1

가

(6)

1

가 가

(2)

OLED

4 ,
OLED
)

(20)

(24, 26, 28)

(24

28)

, 241 ,

(20)

(22)

4

(20

(24, 28), , 243

(24, 28) (20) (22) (22) 가

(24, 28)

3 (24, 26, 28) , 4 (20) 5 8 5 가

(24, 25; 26, 27) (22) 3 가 (22) 6a 6b ,

OLED (22) (polar) 6a 6b , (28) (

26) 7 8 , 6 (24, 26, 28)가, 7 8 ,

8 7 (22) 7 (22)

가 가 5 2 가 가

가 6 8 가 가

(8) (26 / 28) (248, 2

68, 288)

(20) 11 , 10 10 , (29, 30)

OLED 가 (29, 30) 가

(32) 가

(29, 30) 가 (LCD)

: 1998 J.R. Sheats B.W. Smit
h, Marcel Dekker , 2001 S.A. Campbell, O
xford

11 (20) 5 6 (28)

4 6 가 (28)

1 (28) 2 (261, 264) 90 ° 가

4 180 ° (261, 264) (

2 (26) , 6 4 가 3 (24)
 가 , , 6 가 , 4 2
 (26) - (241 242) . 3 (24) (20) 2
 , 가 (23) 가 ,
 1 (28) 2 (281 282) , (20) (22)
 (26) 2 4 - 3 (261 264) , (20) (22)
 (265 268) , 1 (28) (281 282)
 (265 268) 3 (24) 2
 (20) , 가
 (23) - , (20)
 ,
 12 , /
 , 2 (23 29) 가 - (23, 28, 29) , 45 °
 , (22)
 가 , - (24) (22)
 (22) 가 (25)
 (10, 12)
 ,
 ,
 13 , (11) - (9) 5 (11)
 , -
 , - OLED
 , - OLED
 ,
 , 가 ,
 ,
 / , 가 , 가
 2 가 , 2 2 가 , 2
 가 , 2 2
 가 , 2
 가 ,
 가 ,
 ,
 , 가
 , 6 가 ,
 가 ,

[illegible]

가 , 가 .

, , .

(57)

1. OLED , 가 , ,

, OLED .

1 2. 가 OLED .

1 3. , , OLED .

1 4. , OLED .

4 5. , 1 2 OLED .

1 6. 3 , (concentrically) OLED .

1 7. , OLED .

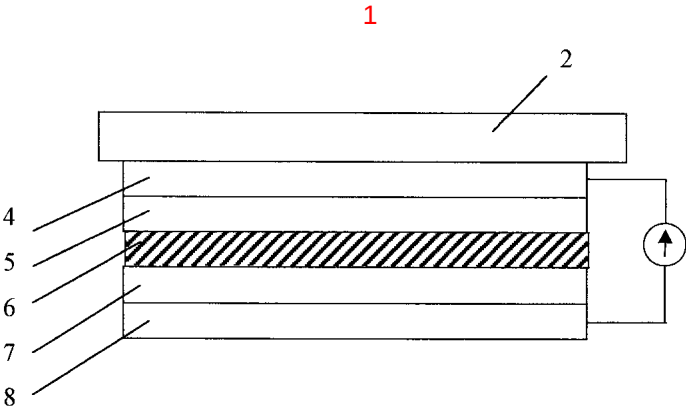
1 8. , (envelope) , OLED .

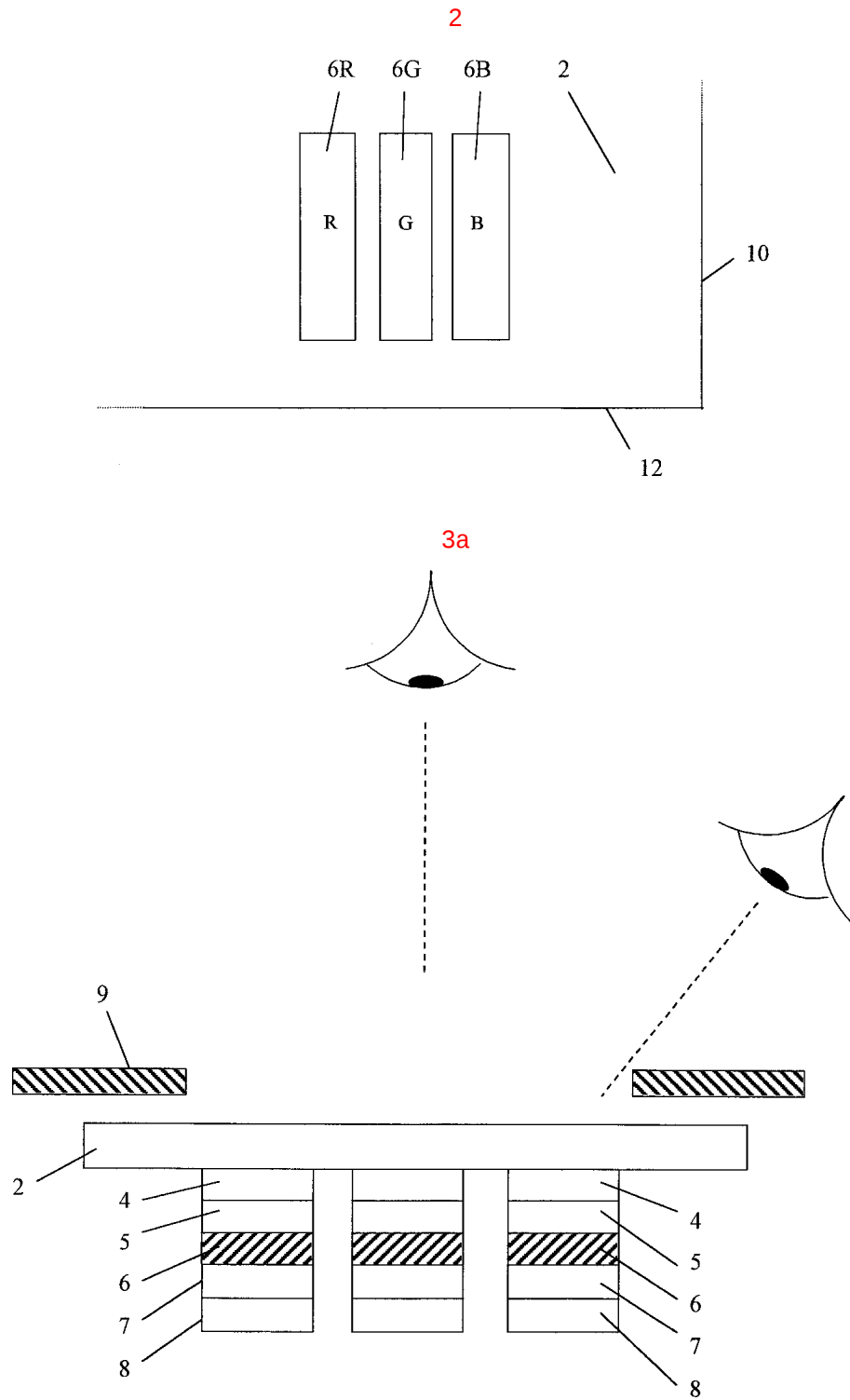
1 9. , 2 1 , 2 OLED .

9 10. , OLED .

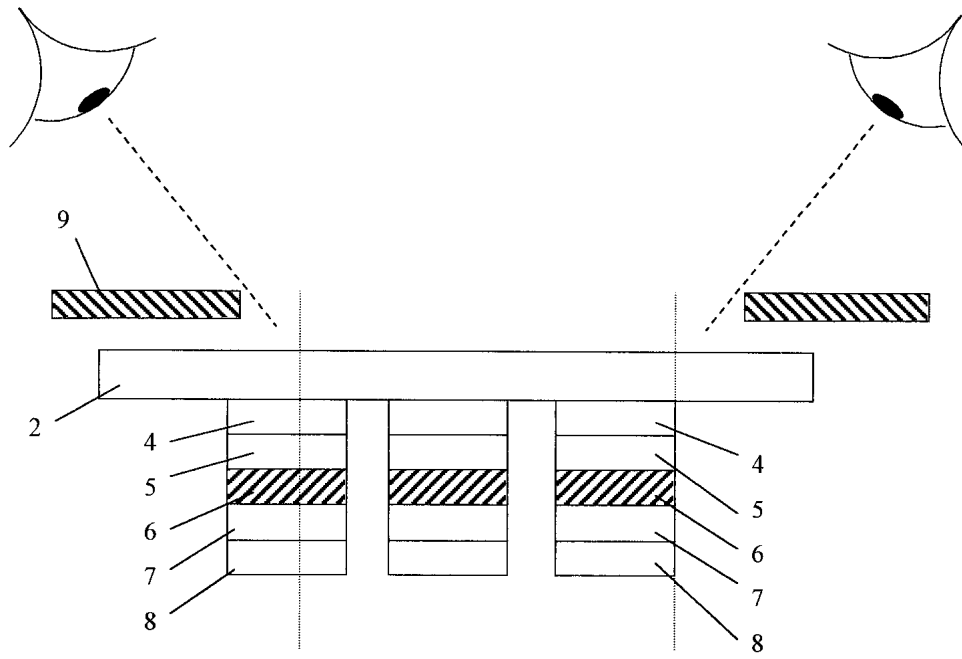
- 9 **11.** , 2 2 OLED .
- 12.**
가 ,
가 ,
 ,
 ,
 ,
 ,
 .
- 12 **13.** , 가 .
- 12 **14.** , , OLED .
- 12 **15.** , , .
- 15 **16.** , 2 , 1 .
- 12 **17.** , , 3 ,
 , .
- 12 **18.** , , .
- 12 **19.** , , ,
 .
- 12 **20.** , 2 , 1 , 2 .
- 12 **21.** , .
- 21 **22.** , .
- 21 **23.** , 2 1 .
- 24.**

- 21 , , .
25. , PCB
26. , , .
27. (vignetting)
28. , .
29. , .
30. OLED
31. (tile) OLED
32. OLED ,
가 -
OLED 가 -

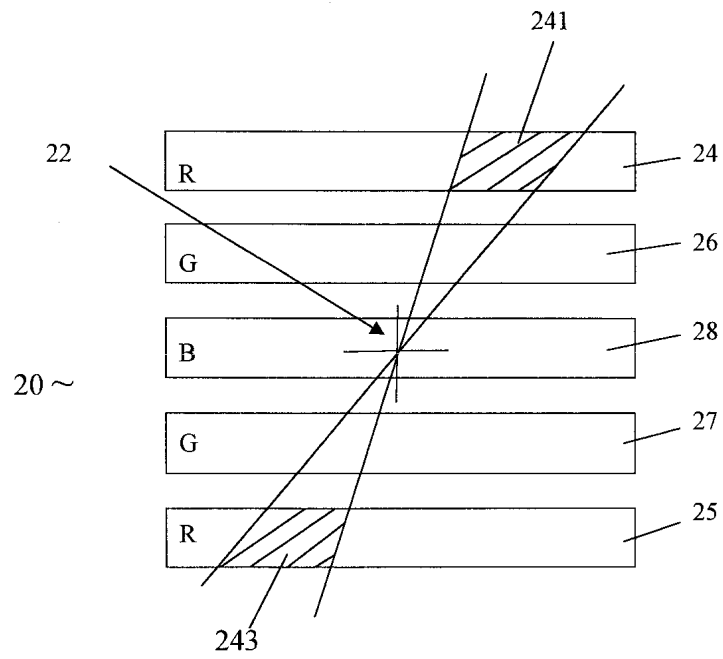




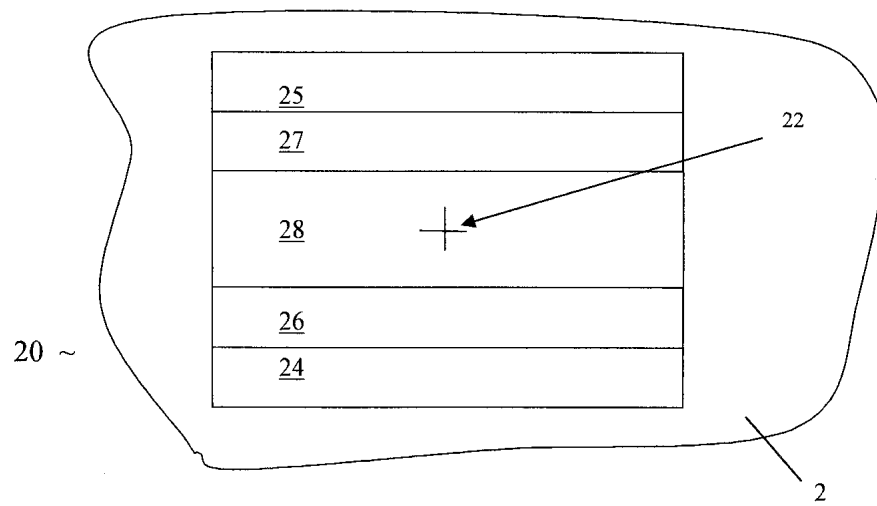
3b



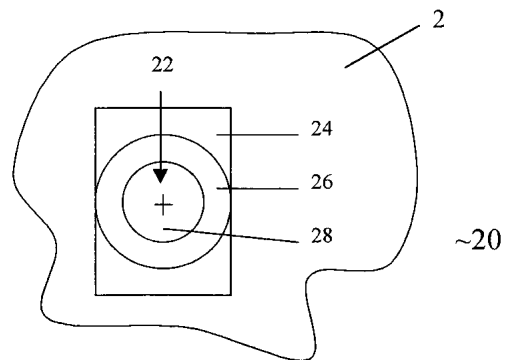
4



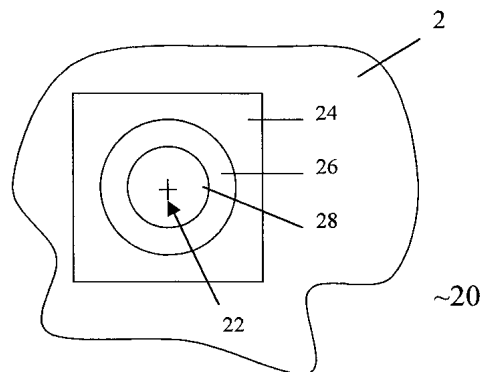
5



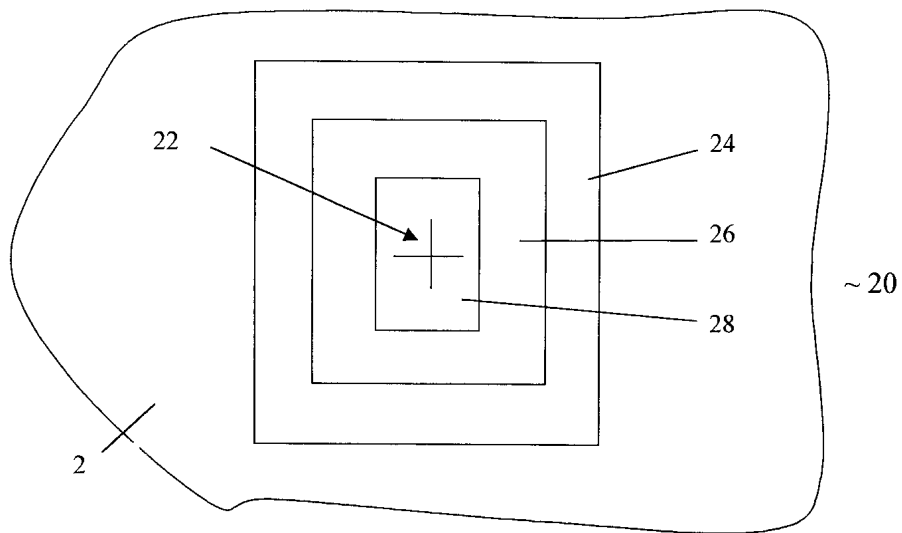
6a



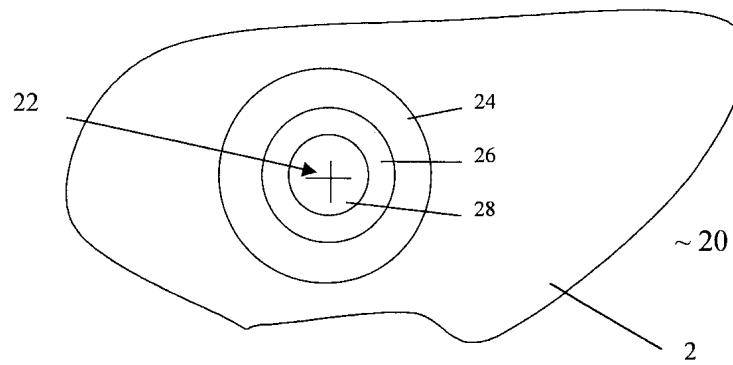
6b



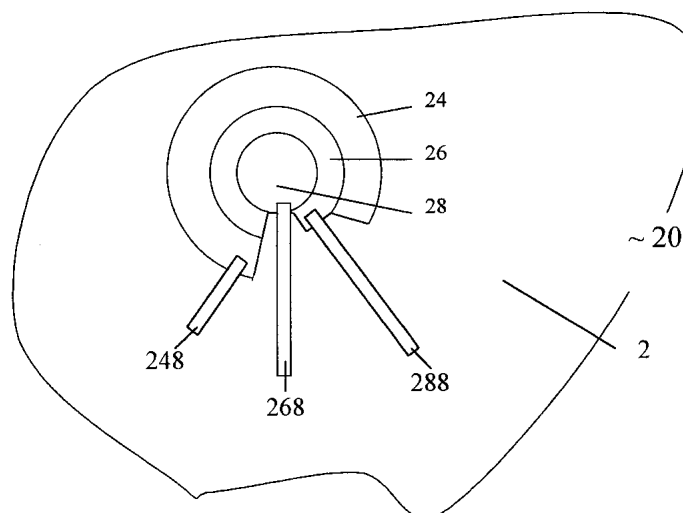
7



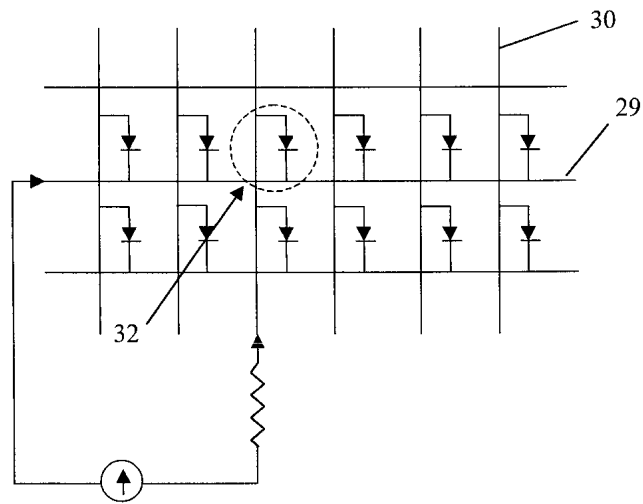
8



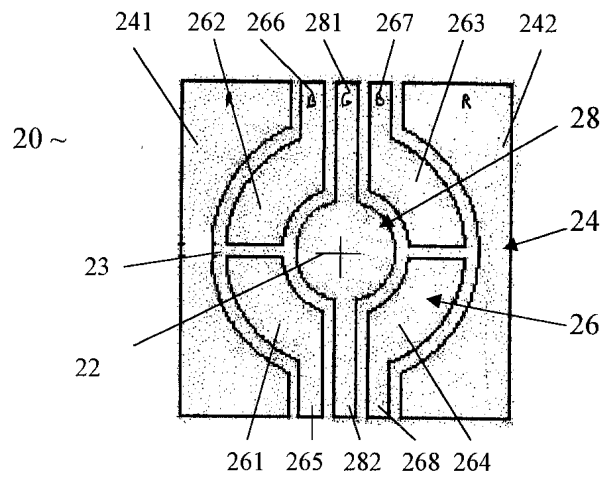
9



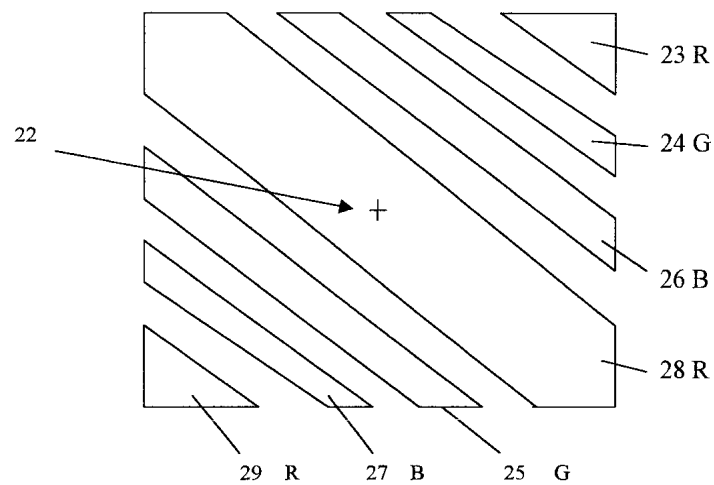
10



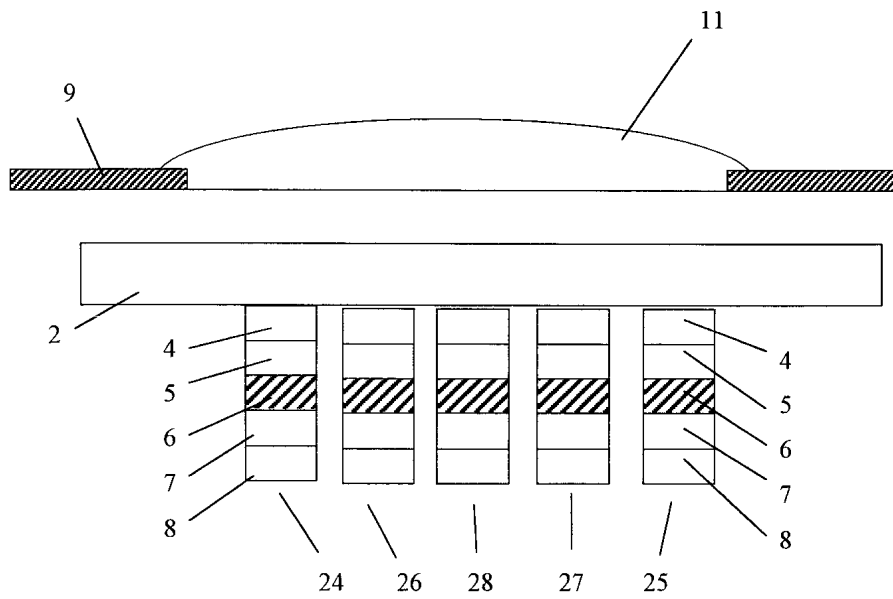
11



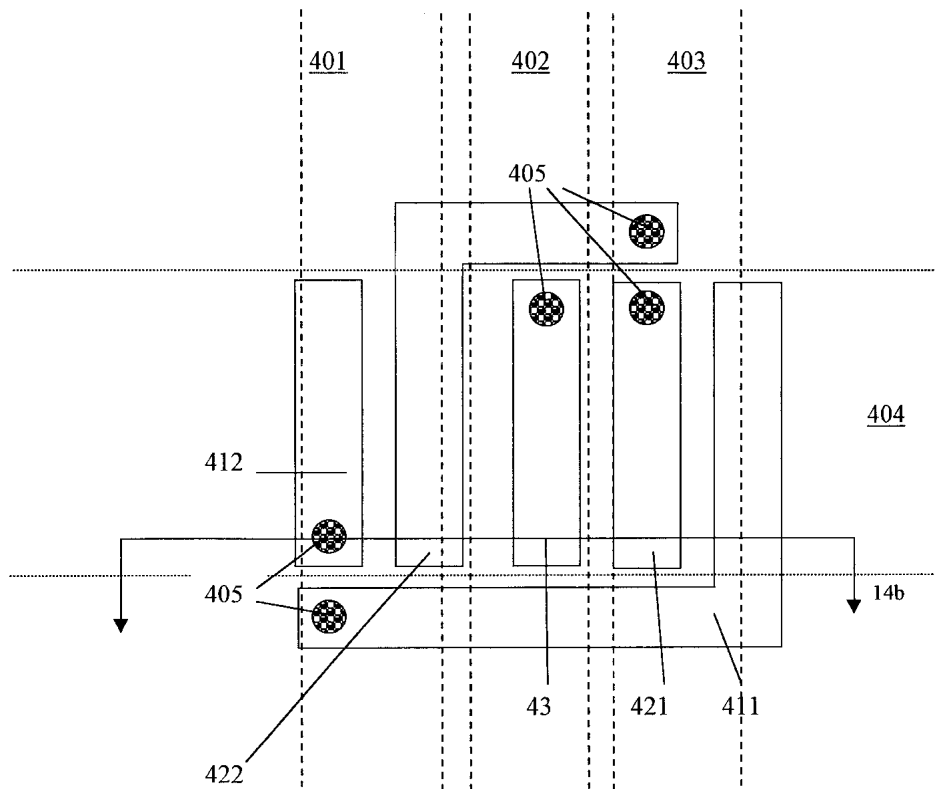
12



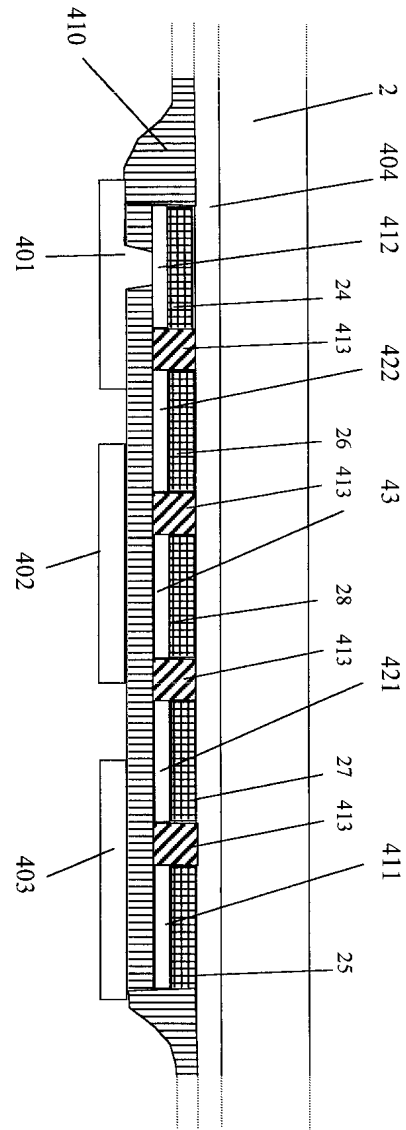
13



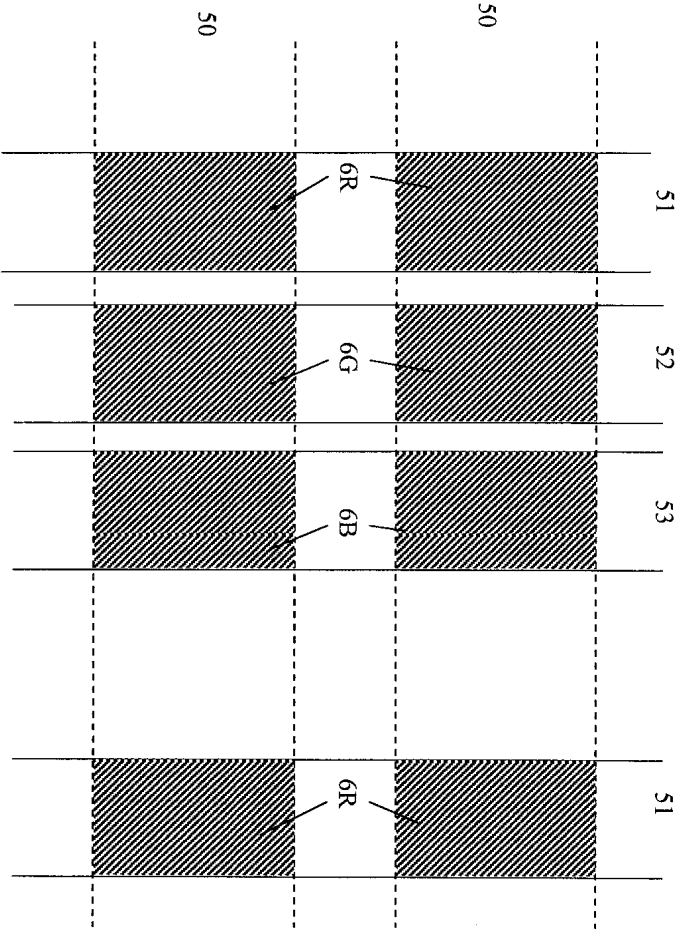
14a

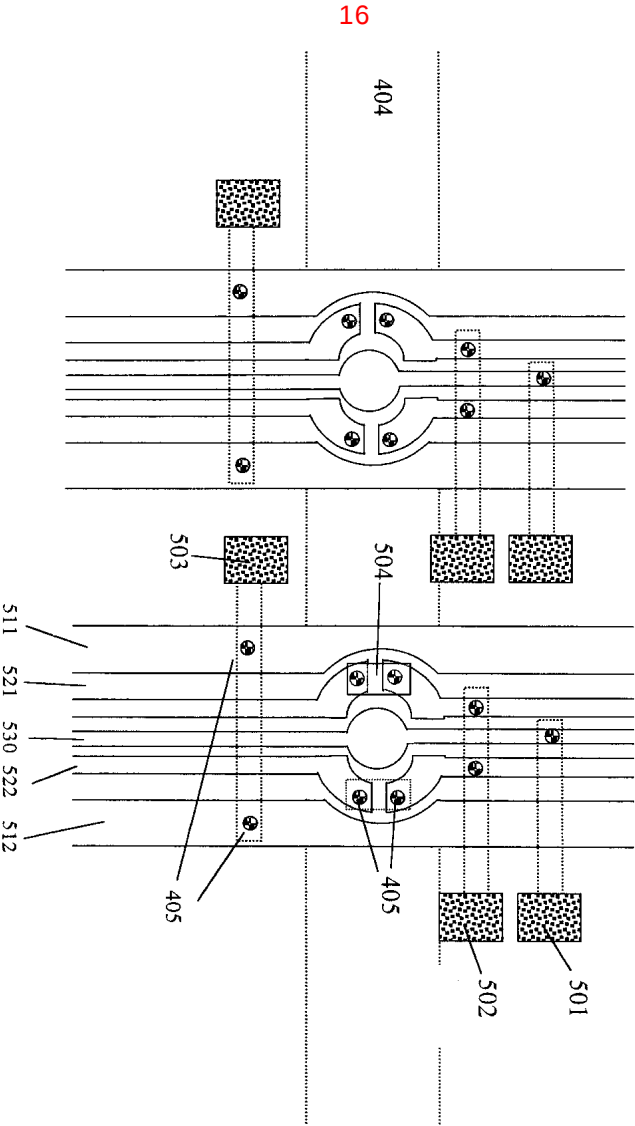


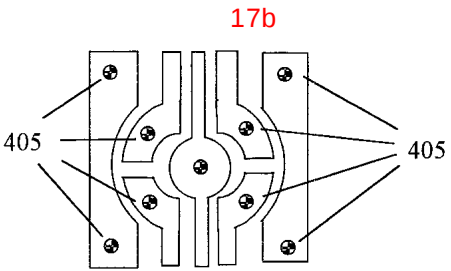
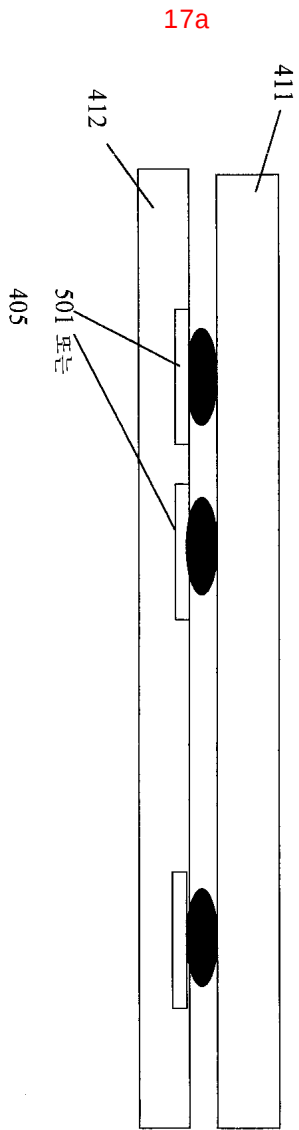
14b



15







专利名称(译)	用于发射光的固定格式显示的显示元件阵列。		
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[标]申请(专利权)人(译)	巴科公司		
申请(专利权)人(译)	擦鼻子.V.		
当前申请(专利权)人(译)	擦鼻子.V.		
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发明人	데데네,넬리 티엘리만스,로비에 반힐레,허버트		
IPC分类号	H01L51/50 H05B33/12 H05B33/26 H05B33/14 H05B33/06 H05B33/02		
CPC分类号	A44C9/0084 A44C27/006		
代理人(译)	CHU , 晟敏 LEE , JUNG HEE		
优先权	2003447032 2003-02-21 EP 10/369882 2003-02-20 US		
外部链接	Espacenet		

摘要(译)

提供了本发明具有多个发光彩色装置的多色OLED像素结构。每个彩色设备发出特定颜色的光。彩色装置的光中心具有发光单元，例如相同颜色装置，其中像素结构的彩色装置的规定部分围绕像素结构的光中心位于与光在实质上重合的相反方向上。关于像素结构的中心。形成白光，其中添加了来自所有彩色装置的光并且发射了该白光。可以利用阵列形成多个像素结构到有源或无源显示器。像素结构，无源矩阵，多色OLED，显示器，彩色器件。

