

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
H05B 33/04

(11)  
(43)

10-2004-0010236  
2004 01 31

(21) 10-2003-0048977  
(22) 2003 07 18

(30) JP-P-2002-00211870 2002 07 22 (JP)

(71) 가 가 2 5 5

(72) 가 2-11

(74)

:

(54)

EL

(200) (100) (200) (102) (201)  
, , 4000 (201)가 , (201)  
, (202) , (202) , (203) .

2

, , ,

1

2

3

4 EL

5 EL

6

7

8

100 :

101 : EL

102 :

200 :

201 :

202 :

203 :

(Organic Electro Luminescence Device; 「 EL 」 )  
 EL EL , CRT LCD

EL 가 6 EL 가

(70) (70) , EL (71)가  
 (75) (80) (81)( , (81) (80)  
 )가  
 (81) (81) (82)

(81) (82) EL (71) , (82) EL (71)

EL , , , 가 , , EL (8  
 2) (80) , , 7 , (82) (8)  
 (82A) , (82) 8 (70) (82) ,  
 EL (71)가 , 가 .

, , (82) , , (80) ,  
 (82) , 가 , (80)  
 , (82) 가 . (82) (80)  
 (82) , (80)  
 , 가 , .

, , 1  
 1 (a) , (1) , (2)  
 , (2) , 2 , (1) (1), (2)  
 (2) (2) 가 . (2) 1 (1)  
 (2) (1) .

, 1 (b) , (2) (1) (1) (3)  
 2 (3) 3 , (1) 1 , (2)  
 ( 1 < 3 < 2).  
 , (2) (3) 가 , ,  
 (2) 가 (3) . (2) (3)  
 (1) 가 (3) (1) (2) (3)

, 2 , (100) ,  
 EL (101) (101)가 . (100) 0.7mm  
 , (200) (101) , (102)  
 가 (201) (200) , 4000 , (201)  
 ) , (202) , (202)  
 (203)

, (203) , UV 가 ,  
 (203) , 100µm .  
 , (200) 1 10×10<sup>-6</sup> , (203) 2 100×10<sup>-6</sup>  
 , (202) 3 30×10<sup>-6</sup> , 1 < 3 < 2 , (202)  
 , (200), (203) , , (2)

(202) , , 8- -  
 - (Alq3:8-tris-hydroxyquinoline aluminum) , , 1< 3< 2 ,

(PI)  
 , 90 100×10<sup>-6</sup> , (203) (203) (200) ,  
 (200) , (203) (203) ,  
 가 ,

3 가 가  
 2 , 1 (204) 2 (205) ,  
 (203) . 가 .

, 8- - - , ,  
 , 8- - 8- - - , ,  
 , 2 , 가 3 가 1< 3< 2 .

, 4 EL , 5 (a) 4 A-A  
 , 5 (b) 4 B-B .

4 5 , (51) (52) (115)가  
 ,

(115) , EL (60) , EL (60)  
 TFT(30) , EL (60) TFT(40) , ,  
 EL (60) , 1 (61) (67) , 2 (65) .

, (51, 52) TFT 1 TFT(30)가 , TFT(30) (33s)  
 2 TFT(40) (54) (41) , 2 TFT (55) , EL (60) TFT ,  
 (43d) EL (60) (43s) EL (60) (61) ,  
 , (51) (12) (54) (54)  
 , (56) TFT (33s) (55)  
 2 TFT(40) (41) 가

5 , EL TFT , EL (10)  
 (10) , TFT , EL (10) SiO<sub>2</sub> SiN , (10) 1  
 , 2 TFT EL . TFT ,

, TFT 1 TFT(30) .

5 (a) , (10) ,  
 ( , 「a-Si」 ) CVD , a-Si ,  
 ( , 「p-Si」 ) , (33) , SiO<sub>2</sub> , SiN ,  
 (12) , Cr, Mo ,  
 (31) (51) Al (52) , EL  
 Al (53) .

(15) (12) (33) SiO<sub>2</sub>, SiN Al SiO<sub>2</sub> (36)  
 (33d) (17)  
 EL TFT 2 TFT(40) 5 (b)  
 (10) a-Si  
 (43), (12), Cr, Mo (41)  
 (43) (43c) (43c) (43s) (43d)  
 (12) (43) SiO<sub>2</sub>, SiN SiO<sub>2</sub> (15)  
 (43d) Al  
 53) (17) (43s) (17)  
 (32s) ITO EL (61) (17)  
 (61)

EL (61), ITO(Indium Tin Oxide) (61), CuPc(Copper( )phthalocyanine)  
 1, NPB(N, N'-Di(naphthalene-1-yl)-N, N'-diphenyl-benzidine)  
 2 (62), (Quinacridone) Alq3  
 (63), Alq3 (64), 1  
 (17) 2 (66)  
 (61)  
 EL (60) (61) 가 (65) 가 가  
 (61)

가  
 EL

(57)

1.

가

2.

가

3.

1 2

4.

1 2 ,

,

5.

1 2 ,

, 8-

6.

1 2 ,

7.

1 2 ,

, 8- - -

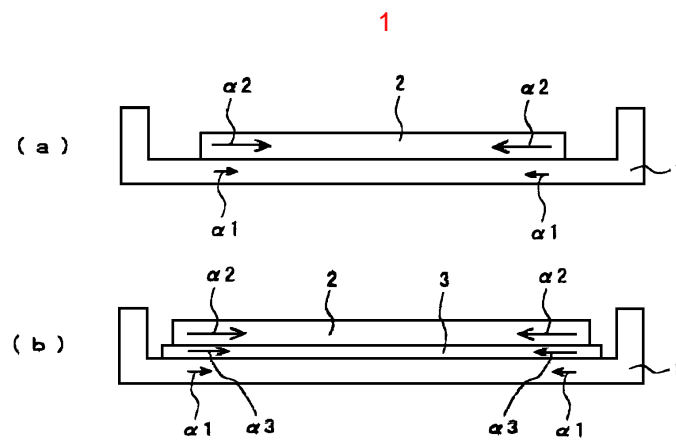
8.

1 2 ,

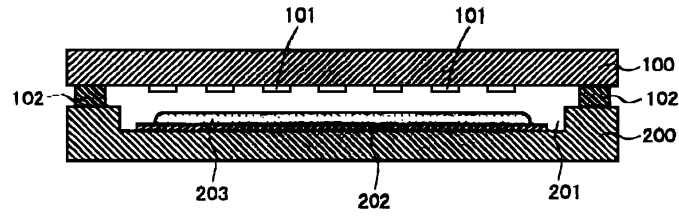
9.

1 2 ,

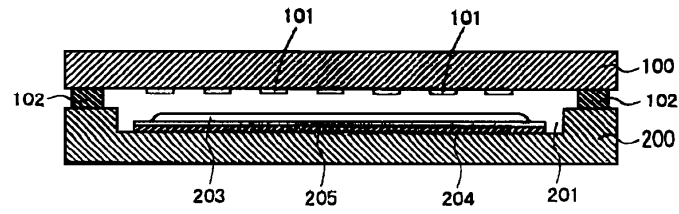
, 8-



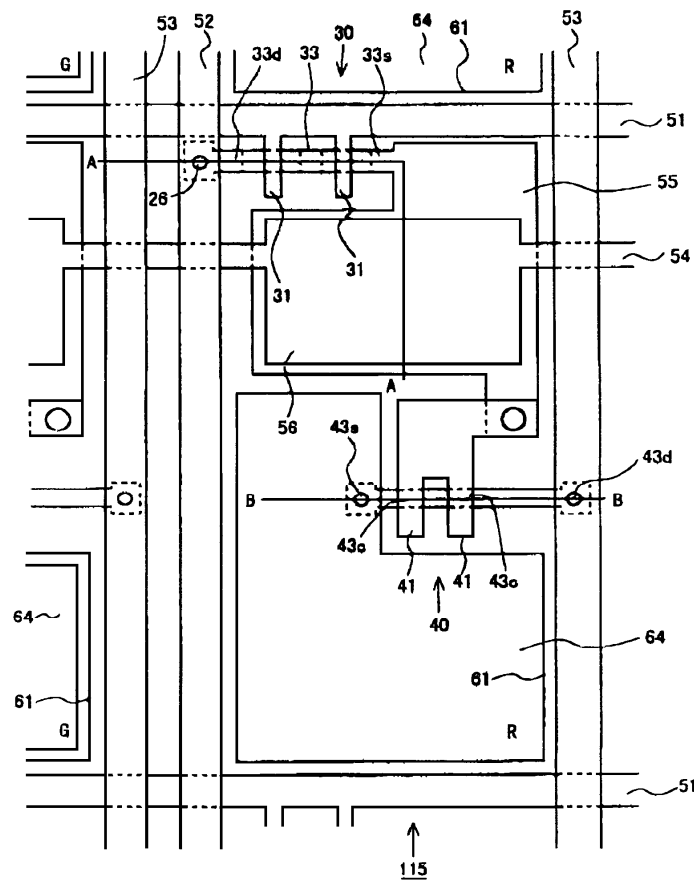
2



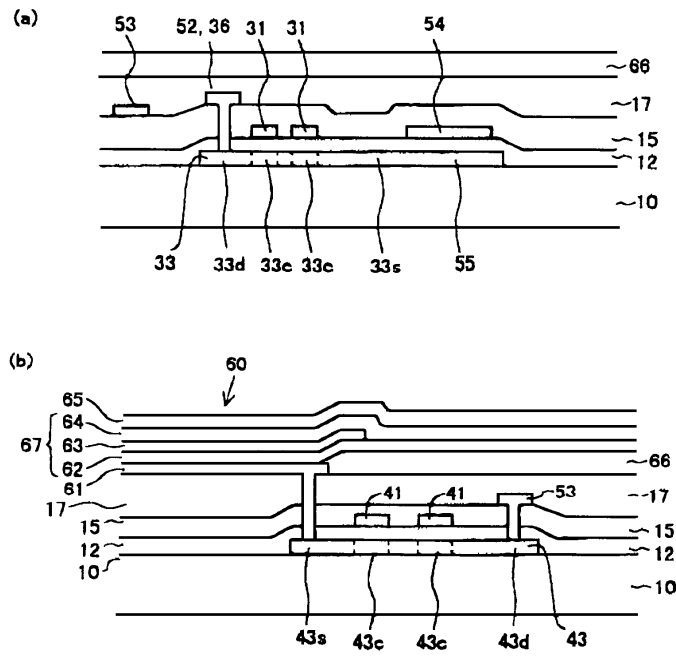
3



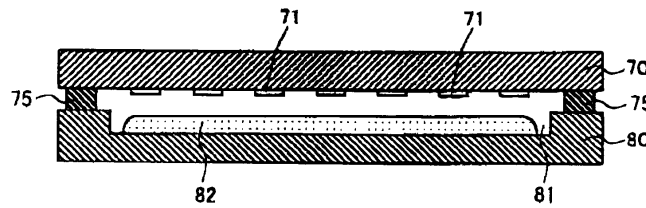
4



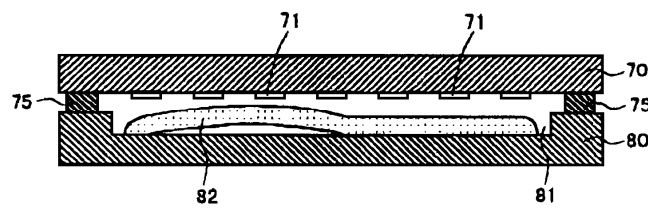
5



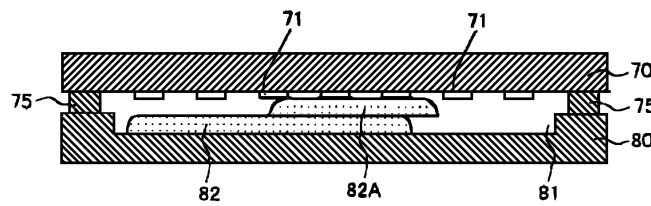
6



7



8



|                |  |         |            |
|----------------|--|---------|------------|
| 专利名称(译)        | 电致发光显示装置   |         |            |
| 公开(公告)号        | <a href="#">KR1020040010236A</a>                                     | 公开(公告)日 | 2004-01-31 |
| 申请号            | KR1020030048977  | 申请日     | 2003-07-18 |
| [标]申请(专利权)人(译) | 三洋电机株式会社<br>山洋电气株式会社   |         |            |
| 申请(专利权)人(译)    | 三洋电机有限公司是分租  |         |            |
| 当前申请(专利权)人(译)  | 三洋电机有限公司是分租  |         |            |
| [标]发明人         | OMURA TETSUJI  |         |            |
| 发明人            | OMURA, TETSUJI   |         |            |
| IPC分类号         | H05B33/04 H01L51/50 G09F9/30 H05B33/00 H05B33/12 H05B33/14 H01L51/52 |         |            |
| CPC分类号         | H01L51/5237 H01L51/5259  |         |            |
| 代理人(译)         | LEE, JUNG HEE<br>CHANG, SOO KIL                                      |         |            |
| 优先权            | 2002211870 2002-07-22 JP   |         |            |
| 其他公开文献         | KR100503589B1  |         |            |
| 外部链接           | <a href="#">Espacenet</a>  |         |            |

摘要(译)

防止有机EL面板的干燥剂层或绝缘层的剥离。计划改善温度循环的可靠性。使用由环氧树脂等构成的密封树脂(102)将器件玻璃基板(100)焊接到密封玻璃基板(200)上进行器件气密密封。在密封玻璃基板(200)中,袋部(201)由于蚀刻而形成。厚度为约4000埃的铝层(202)是该袋部(201)的底部中的应力柔顺层,例如通过沉积方法形成。并且,在该铝层(202)上片状地形成用于吸收包含水分等的水分的干燥剂层(203)。去角质,绝缘,涂层,热膨胀。

