

(19)
(12)

(KR)
(A)

(51) Int. Cl.⁷
G02F 1/1335

(11)
(43)

10-2004-0097031
2004 11 17

(21) 10-2004-0083158 ()
(22) 2004 10 18
(62) 10-2002-0085023
: 2002 12 27

2002 12 27

(30) JP-P-2001-00400996 2001 12 28 (JP)

(71) 가 가
2 5 5

(72) 가
4153-2-203

가 1-6

가
가 1-101 110

가 1015-9

1575-205

가 661-1-206

3 112-3

(74)

:

(54)

| | | | | | | | | | | |
|------------|------|----------|---|---|------|----------|---|-----|----------------|------|
| EL 110) | (44) | TFT(110) | . | , | ITO | (100) | , | | TFT(110), TFT(| |
| 0) | | TFT(110) | . | , | | (86) | , | ITO | (86) | (8) |
| | 가 | | . | | (80) | TFT(110) | , | | | (88) |
| | | | | | | | | | | (42) |

7

, , , ,

| | | | | |
|----------|---|---------|-----|---|
| 1 | | | LCD | 1 |
| 2 | 1 | A-A | LCD | |
| 3 | 1 | A-A | LCD | |
| 4 | 1 | A-A | LCD | |
| 5 | | | LCD | 1 |
| 6 | 5 | B-B | LCD | |
| 7 | | | EL | |
| 8 | | | LCD | 1 |
| 9 | 8 | C-C | LCD | |
| < | | | > | |
| 20 : | | (p-Si) | | |
| 30 : | | | | |
| 32 : | | () | | |
| 34 : | | | | |
| 36, 37 : | | () | | |
| 38, 39 : | | | | |
| 40, 41 : | | | | |
| 42, 43 : | | | | |
| 44 : | | | | |
| 46 : | | | | |
| 50 : | 1 | | | |

60, 260 :

80 : (1)

82 :

83 :

84 :

86 : (2)

88 :

90 : EL

100 : 1

110 : TFT

200 : 2

210 :

250 : 2

300 :

(, LCD)

LCD ,

가 ,

, CRT()

(, EL)

LCD

,

가

LCD

,

가

가

LCD

가

LCD

가

LCD

가

가 , (42) . , , (42) (42) , (41) (41) . 가 Mo
 , . 4 , (41) .
 , (42) (42) , 4 (41) Mo /AI /Mo
 (42) 3 , AI /Mo (40) 2 , 4 (20) .
 AI , , (43) , , 3 가 3 2 (43) (20) .
 , (42, 43) , (44) , , 1 가 , , 1 (50) (50)
 .
 LCD , LCD . , (44) 1 LCD .
 5 , LCD LCD . 1 2 , 6 , 5 B-B
 LCD (TFT) (44)) 1 (50) , 5 6 (44) ,
 1 (50) .
 1 LCD , 1 (50) (46) (44) TFT(110) 1 (44) ,
 (250) , , , LCD , , 1 (50) 1 (50) 2
 .
 , (44) 1 LCD (TFT),
 가 , 1 TFT , EL 7 .
 EL 1 (86) (88) , (88) , (88) , 2 , 3 (80) (82)/
 0) (83) . 7 (84) (84) (86) (80) (39) .
 (83) (82) (80) .
 .
 가 (83) EL (90) EL (90) , 가 (80) (86) .
 EL (90) , ITO, IZO (80) , (80) , (88) .
 7 (83) .
 .
 1 EL 7 (90) (80) , EL (90) 2 (90) TFT(110), (42), (44),
 (80) (80) , (80) , AI AI-Nd (80) TFT(110), (42), (44),
 4) . , (83) , EL (90) (86) Al, Ag (80) ITO IZO (4)
 . , 7 , (80) (44) , (80)
 .

(44)

(83)

(86)

가

, 1 , EL
2 ,

가

CFF

(57)

1.

, 1 2 , , 1 2

, , ,

, , 2

1 , , ,

2.

1 ,

1

3. 2 ,

, 1 , , 가

4.

1 3 ,

1

2

0.5eV

5.

4 ,

60Hz

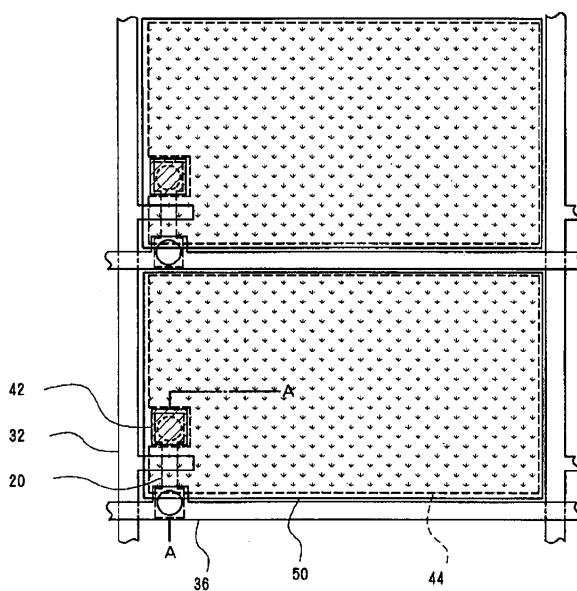
6.

, 1 2 , , 1 2

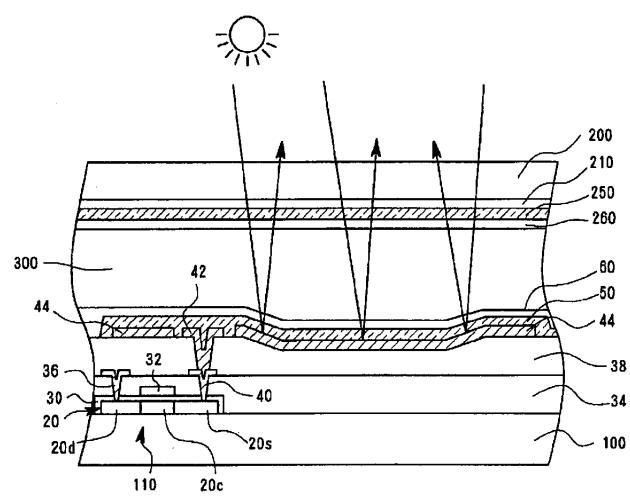
,

1

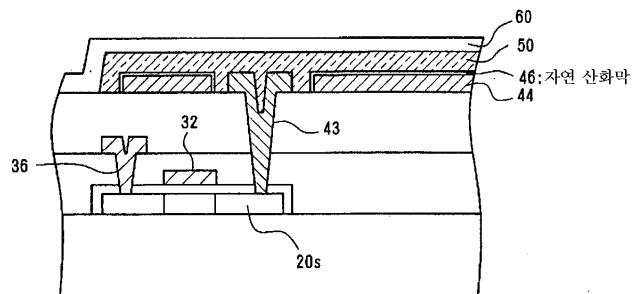
1



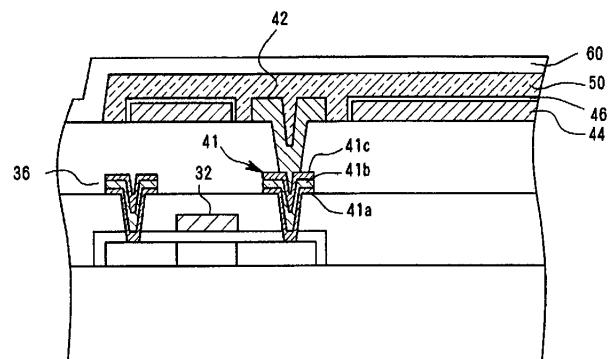
2



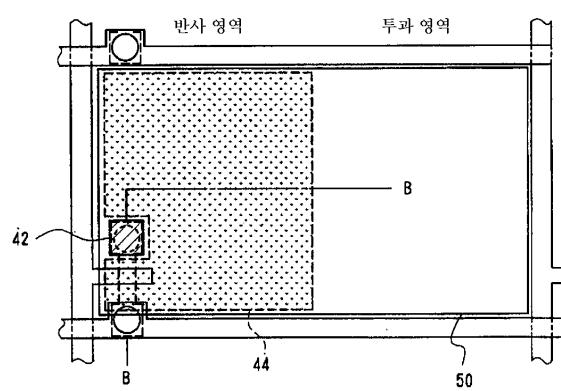
3



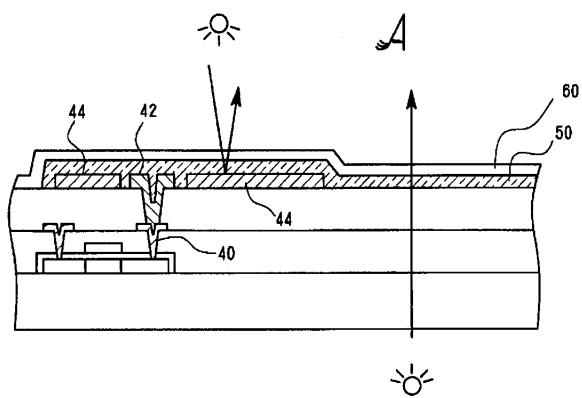
4

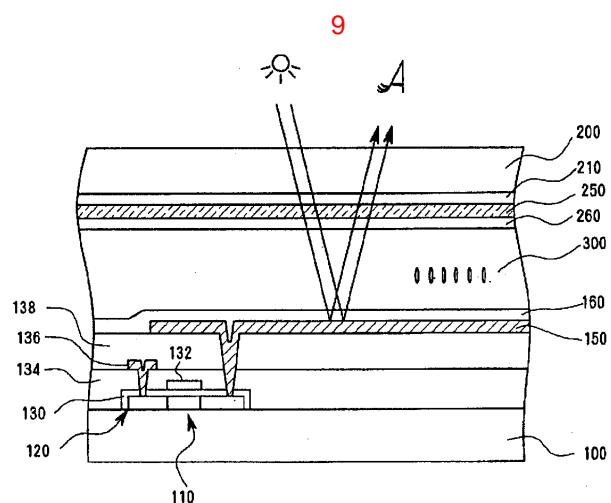
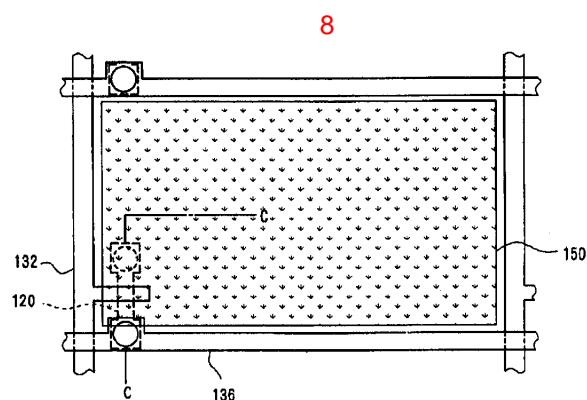
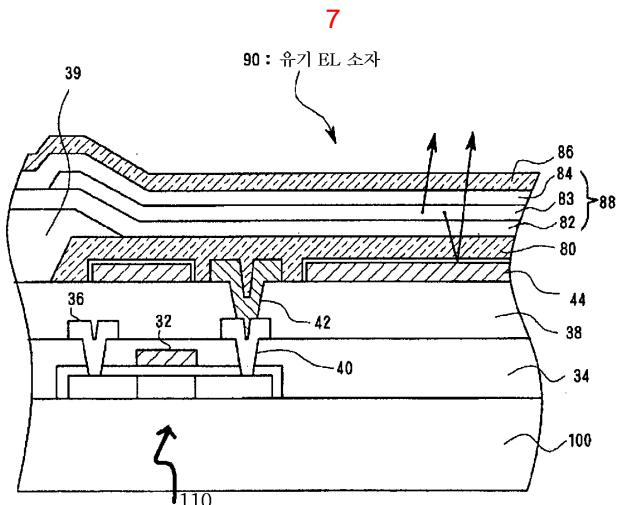


5



6





| | | | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|
| 专利名称(译) | 显示装置及其制造方法 | | |
| 公开(公告)号 | KR1020040097031A | 公开(公告)日 | 2004-11-17 |
| 申请号 | KR1020040083158 | 申请日 | 2004-10-18 |
| [标]申请(专利权)人(译) | 三洋电机株式会社 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 | INOUE KAZUHIRO 이노우에가즈히로 KOMA NORIO 고마노리오 OGAWA SHINJI 오가와신지 YAMASHITA TOHRU 야마시따도루 ODA NOBUHIKO 오다노부히코 ISHIDA SATOSHI 이시다사또시 YAMADA TSUTOMU 야마다쓰또무 | | |
| 发明人 | 이노우에가즈히로 고마노리오 오가와신지 야마시따도루 오다노부히코 이시다사또시 야마다쓰또무 | | |
| IPC分类号 | H01L27/32 G02F1/1368 G02F1/1343 G02F1/1362 H01L21/336 G02F1/1335 H01L51/52 H01L29/786 | | |
| CPC分类号 | H01L27/3244 H01L27/3272 H01L27/3248 G02F2203/01 H01L2251/5315 G02F1/133555 G02F1/133553 H01L51/5271 H01L51/5234 G02F2201/121 G02F1/136227 G02F1/13439 | | |
| 代理人(译) | LEE , JUNG HEE CHU , 晟敏 | | |
| 优先权 | 2001400996 2001-12-28 JP | | |
| 其他公开文献 | KR100500337B1 | | |
| 外部链接 | Espacenet | | |

摘要(译)

任务是解决电致发光显示器的高质量转换的实现。反射层(44)反射穿透TFT(110)的光,称为形成有像素的开关元件,如在基板(100)中,和由TFT(110)组成的阴极(86)在绝缘层覆盖物上TFT(110)和ITO等绝缘并形成收入。此外,它具有诸如阴极(86)的功函数。并且构建由包括ITO等的透明导电材料构成的阳极(80)并且其与TFT(110)连接。通过这种配置,对称性良好,使得有机器件层(88)可以在与阳极(80)和阴极(86)的交流电中驱动。阳极(80)和TFT(110)插入由高熔点金属构成的连接金属层(42)并且它真实地连接。透反射,反射层,透明导电材料,功函数。

