

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl. <sup>7</sup>  
G06F 3/033

(11)  
(43)

2002 - 0079438  
2002 10 19

(21)  
(22)

10 - 2002 - 0018183  
2002 04 03

(30)

09/826,194  
09/911,274

2001 04 04  
2001 07 23

(US)  
(US)

(71)

343

(72)

14612  
14526  
14618  
14607

48  
8  
754  
24

(74)

:

(54)

1 ,

2a 2b ,

3a 3b ,

4a 4b ,

5 - ,

6 - ,

7 ,

8 - ,

9 - ,

10 - ,

11 - ,

12 - ,

13 - ,

14 - ,

15 - .

10 : 12 :

14 : 16 :

18 : 20 :

22 : 가 24 :

26 : 가 28 : 가

30 : 32, 34, 36, 38 :

46 : 48 :

50 : 51 :

52 : 54 :

56 : 58 :

60 : 62 :

64 : 66 :

67 : 68 :

72 : 100 :

102 : 104 :

,  
가  
, 가 (CTR), (LCD),  
,  
1  
가 (10) (10) (12) (12)  
가 가 , (12)  
(10) (14) 가 (14)  
(16) (16) (10)  
(16) (18) (18) (10)  
, (X, Y),  
3가 (SAW)가  
, (Scott Smith) " Weighing in on touch technology" (Control Solution Magazine, 2000,4)

2a 4 - (10) 5 - 8 - 2b (10)  
(10) (14) (20) (24) 가  
(22) , 가 , 가

(20) (12) , .

4 - , 5 - 8 - (20) ,

(18) (16) (16)

(20) (26) (18)

가 가 (stylus) 가

(28), (26) (22) (20) (26)

(16)

(18) (18) (X, Y)

, " Touch Screen Controller Tip" [Application Bulletin AB - 1

58, Burr - Brown, Inc.( ), 2000.4, 1 - 9]

3a (10) 3b (10)

(14) (12) (30) (32, 34, 36, 38)

(10) (30) (31) (16)

(18) (32, 34, 36, 38) 가 (12)

가 가 가

(18)

(X, Y) . 1997 7 22 (Redmayne) 5,650,597

4a (surface acoustic wave, SAW) 4b

(10) (14) (12) (46)

(48) (48)

4 (46)가 (12) (18)

(16) (12) (46)

(18) (46) (12) 가

가 가 (46)

(18) (X, Y)

5 1997 11 18 (Littman) 5,688,551 . OLED

(OLED) (49)

(50) (50)

(52) (54), (56),

(60) (62) (64) (67) (52)

가 가 (50) (62) (66)

5 OLED - (50), (54)

(56) . 2000 3 30 (Pichler) WO 00/17911

D (56), (58), (60) OLED 가 6 (54),  
 (62) (52) (50)  
 (51)가 (62) (50) OLE  
 (58) (60), (62) (51)  
 OLED 가  
 (54)

가 OLED (12, 50) (68) (Newton ring)  
 (72) (12, 15) 가  
 가

7 OLED (12) (68) (51)( ) (72) (12) (51) (1  
 4) (52) (51), (12)

1999 11 9 (Sin) 5,982,004  
 가

2000 2 22 (Umeya) 6,028,581  
 (parallax error)  
 가

1999 12 30 (Ikeda) 5,995,172

1998 12 22 (Fujimori) 5,852,487  
 3

2001 1 23 (Colgan) 6,177,918

가

, , , .

가 , , , 가

.

8 , [ (100) ] , - (52) ,  
 (102) (14) (102) (1  
 02) , (52) (14)  
 (52) (14) 가 ,  
 (100) .

9 , -  
 (100)가 , (102) (photo  
 lithography) (20) (54)가 ,  
 , ITO (102) (HIL)(56)  
 (54) , (58)가 (56) ,  
 ETL)(60) , (62) (102) ,  
 (24) 가 (22) (20) , 가  
 (26) (22) (26) 가  
 (28) (16) (14) (100)  
 , (67) (52) (100)

10 - (100)  
 . (102) ( ) (30) (102)  
 (52)가 , (54)가 (102)  
 , (HIL)(56) (54) (58) (5  
 6) , (ETL)(60) , (62)  
 , (32, 34, 36, 38)가 (30) (14)  
 , (67) (52) , (16) (14) (16)  
 가 (32, 34, 36, 38) (100) 가 .

11 - (100) (10  
 2) (48)가 , (54)  
 (52)가 (102) , (HIL)(56) (54)  
 , (58)가 (54) ,  
 (ETL)(60) , (62) (52) , (102)  
 4 (46) (14)가 , (62)  
 (52) , (16) (14) ,

(100) 가 .

12 - .  
 (100) (52) (104) , (52)  
 (102) (102) (104) , (102)  
 (100) - .  
 (14) (102) (102)  
 , (14) .  
 (14) , (14)  
 (100) (102) , 가 .  
 , (100)

13 , -  
 (100)가 , (104)  
 (54)가 (HIL) (56) (54) ,  
 (58)가 (56) ,  
 (62) (102)가 (104) (102)  
 (20) (24) 가 (22)  
 (20) , 가 (26) (22) (16) (14)  
 , (26) 가 (28) . (67) (52)  
 , (100) ,  
 , (100) -  
 , 가  
 , (yield) .

13 , 가 (102) 2  
 (104)  
 (54)가 (HIL) (56) (54)  
 (58)가 (56) ,  
 (ETL) (60) ,  
 (62) ,  
 (14)가 (102) (20) (102)  
 (24) 가 (22) (20)  
 , 가 (26) (22) , (2  
 6) 가 (28) .

13 , (104), (102) (102) (104)  
 , (14) (104) (52)가  
 (104) (102) , (100)가 , (1

6) (14) , (100) ,  
 (67) (52) , (100) 가 - ,  
 (14) (52) , 가  
 2 가 ,

14 - (100)  
 (52)가 (104) ,  
 (54)가 (104) , (56) (54) (ETL)(60)  
 (58)가 (62) , (102)가 (104) ,  
 (30) (34, 38)  
 가 (30) , (14) (67) (52)  
 (16) (14) , (16) 가 (34, 38)  
 (100) 가

14 가 (102) 2  
 (54)가 (104) ,  
 (HIL)(56) (54) (58)가 (56)  
 (ETL)(60) , (62)  
 (14)가 (102)  
 (30) (34, 38)가  
 (14)

(104), (102) (102) (104)  
 (14) (104) (52)가  
 (104) (102) (100)가 (67) (52)  
 102)가 (104) , (16) (14) , (16) 가 (34, 38)  
 (100) 가

15 - (100) ,  
 (54) (52)가 (HIL)  
 (56) (54) (58)가 (56)  
 (ETL)(60) , (62)  
 (52) (62) , (102)가 (104)  
 (48)가 (102)  
 (14) 4 (46) (102)  
 (67) (52) (16)  
 (14) , (100) 가



, 15 , 가 (102) 2  
(52) (54) (1  
04) , (HIL)(56) (54) ,  
(58)가 (56) (62) (52) (ETL)(60) ,  
(48)가 (102)  
(102) 4 (46) (14)가 ( (6  
62) , (102)가 (104) ,  
(104) (52) (16) (14) ,  
7) (100) 가 .

, 1997 12 30 (Forrest) OLED  
5,703,436 - - OLED  
, 1998 11 20 (Bulovic) OLED  
5,834,893 , OLED  
OLED - OLED

, 가 , , 가

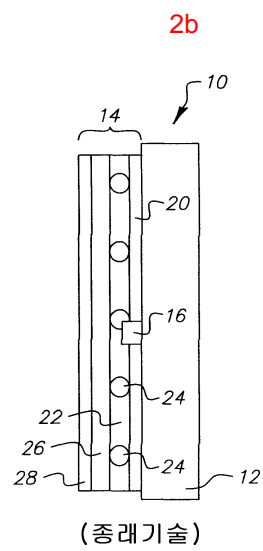
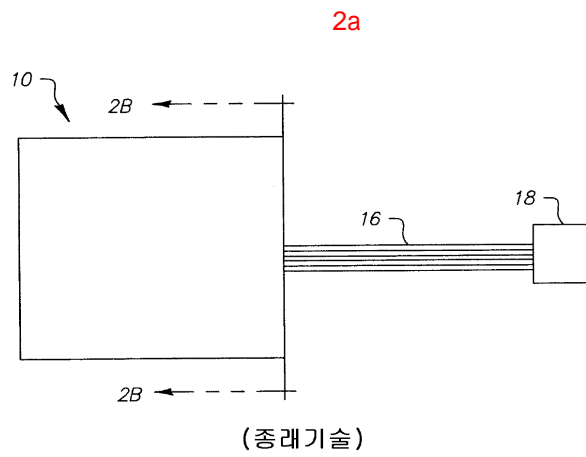
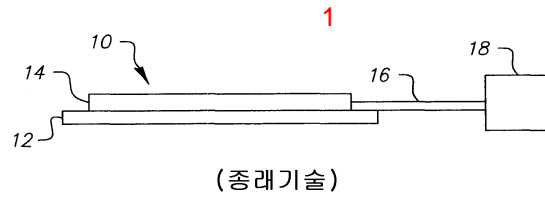
(57)

1.

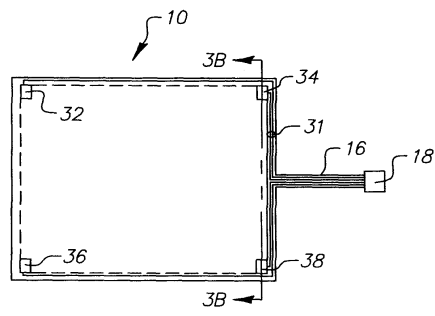
a) ,

b) ,

c)

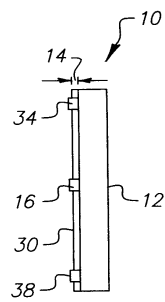


3a



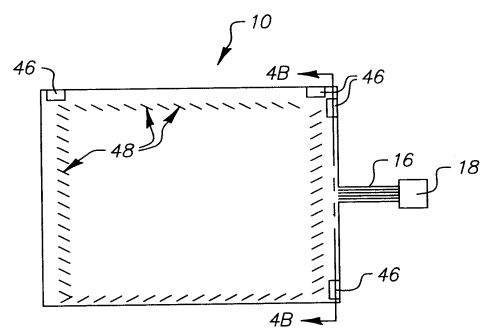
(종래기술)

3b



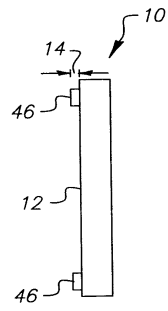
(종래기술)

4a



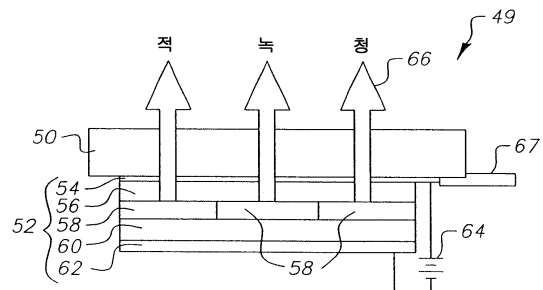
(종래기술)

4b



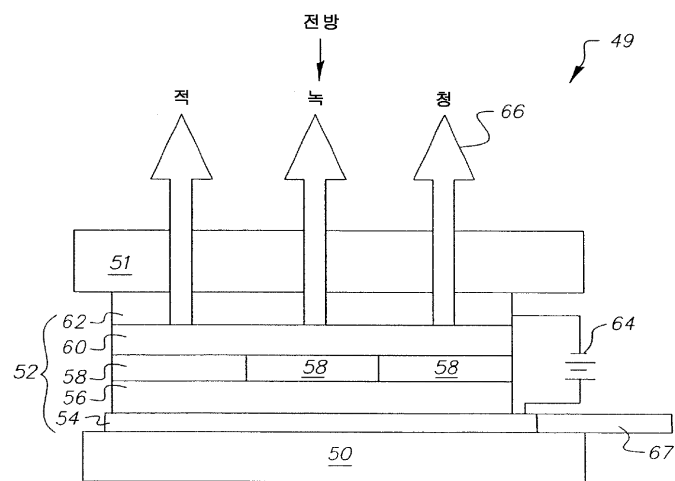
(종래기술)

5



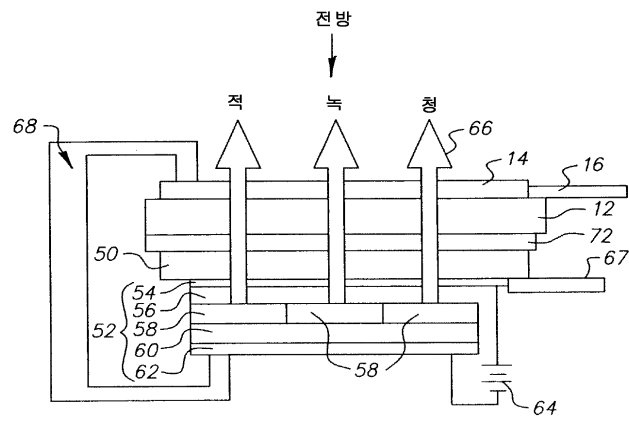
(종래기술)

6



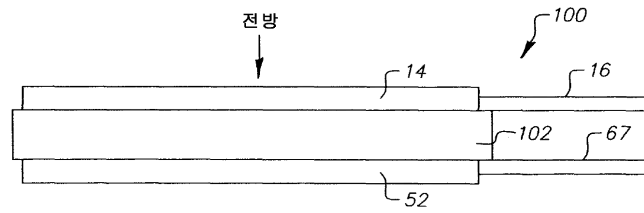
(종래기술)

7

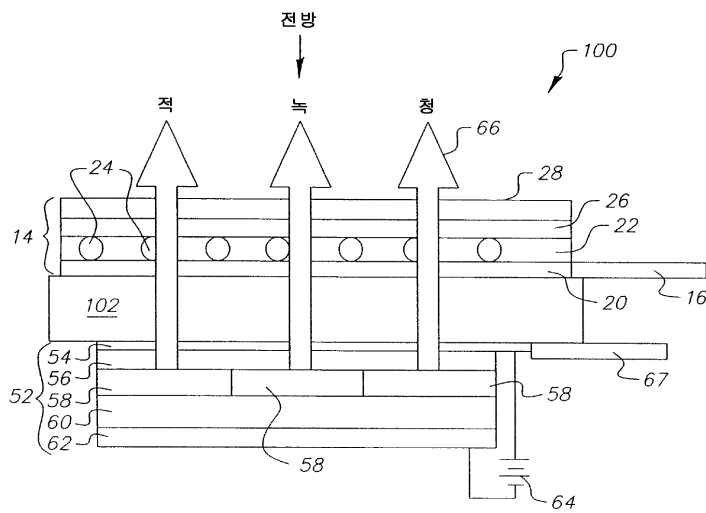


(종래기술)

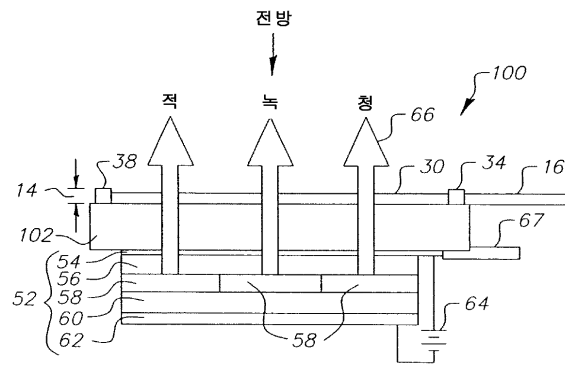
8



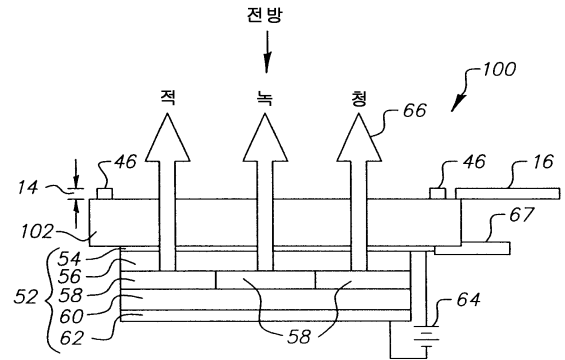
9



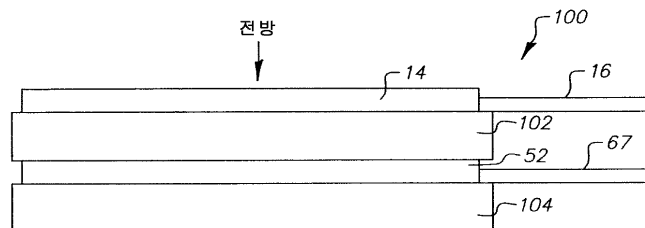
10



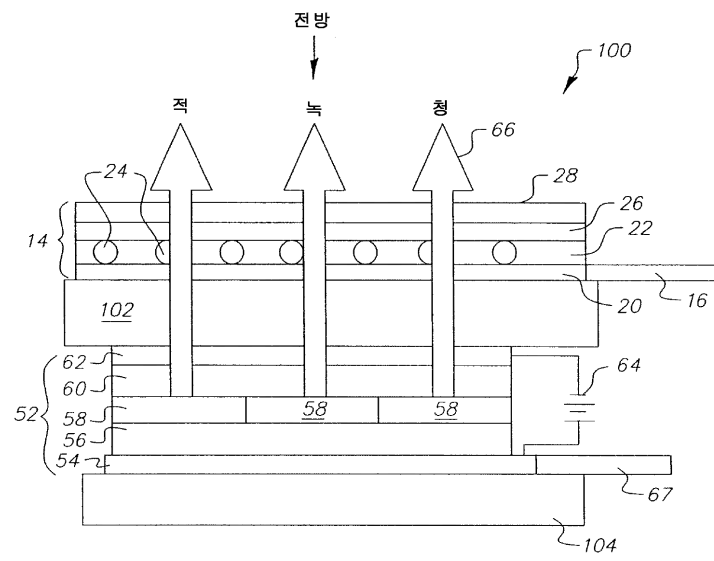
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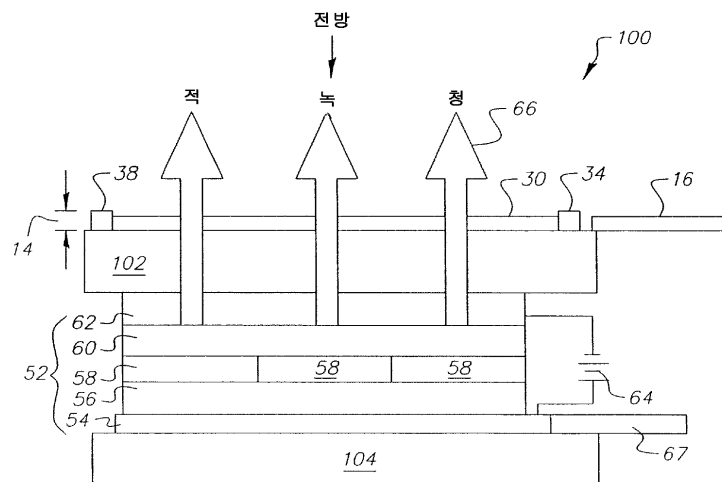
12



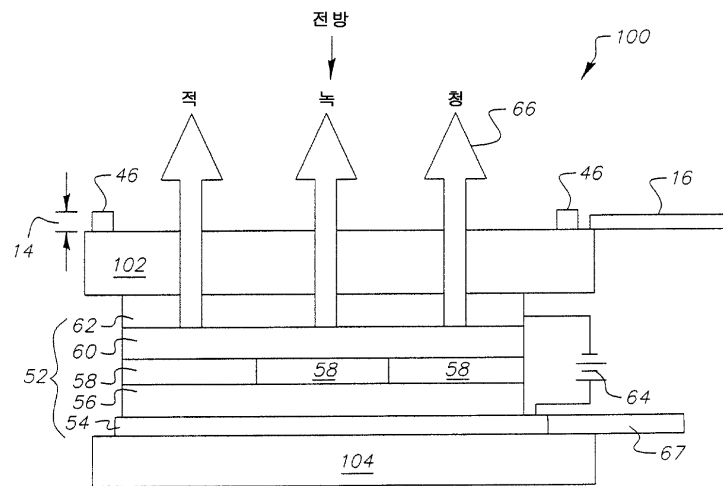
13



14



15

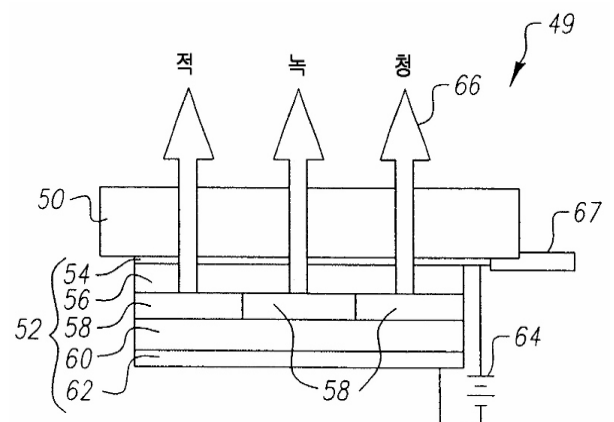




专利名称(译)	触摸屏显示		
公开(公告)号	<a href="#">KR1020020079438A</a>	公开(公告)日	2002-10-19
申请号	KR1020020018183	申请日	2002-04-03
[标]申请(专利权)人(译)	伊斯曼柯达公司		
申请(专利权)人(译)	柯达公司针		
当前申请(专利权)人(译)	柯达公司针		
[标]发明人	SIWINSKI MICHAELJ 시원스키마이클제이 KILMER KATHLEEN 킬머캐스린 FELDMAN RODNEY 펠드만로드니 CROPPER ANDRED 크로퍼앙드레디		
发明人	시원스키마이클제이 킬머캐스린 펠드만로드니 크로퍼앙드레디		
IPC分类号	H05B33/02 H01L51/50 G06F3/045 G09F9/30 G09F9/00 G06F3/033 H01L27/32 G06F3/041		
CPC分类号	H01L27/323 H01L2251/5315 G06F3/041 G06F3/0436 G06F3/045		
代理人(译)	KIM, CHANG SE 张居正, KU SEONG		
优先权	09/826194 2001-04-04 US 09/911274 2001-07-23 US		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

触摸屏显示器包括电致发光显示器，触摸屏和透明片，其用作电致发光显示器和触摸屏两者的元件。 8



(종래기술)