

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

(51) 。 Int. Cl. <sup>7</sup>  
 G06F 3/033 (11) 2002 - 0079438  
 (43) 2002 10 19

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(21) 10 - 2002 - 0018183  
 (22) 2002 04 03

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(30) 09/826,194 2001 04 04 (US)  
 09/911,274 2001 07 23 (US)

(71) 343

(72)	14612	48
	14526	8
	14618	754
	14607	24

(74)

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(54)

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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 :

48 :

50 : 51 :

52 : 54 :

56 : 58 :

60 ; 62 ;

64 : 66 :

67 ; 68 ;

72 : 100 :

102 : 104 :

가

가

(CTR)

(LCD)

3가 , (Scott Smith) " Weighing in on touch technology" (Control Solution Magazine, 2000,4)

3a . (10) . 3b . (10)  
. (14) (12) . (30) . (30) . (32, 34, 36, 38)  
. (10) . (30) . (31) . (16)  
. (18) . (32, 34, 36, 38) . 가 , (12)  
가 , (30) . 가 . 가  
, . (18) . 가 ,  
(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) , (46) (18)  
 (16) (12) , (46) , (46) , (12) 가  
 . . . (18) (46) . . . (46) ,  
 가 . . . 가 , . . . (46)  
 (18) (X, Y)

5 1997 11 18 (Littman) 5,688,551  
 (OLED) (49) . OLED  
 , 가 . (50) . (50)  
 (58), (60) 가 (62) . (52) (52), (56),  
 가 , (50) . (64) (67) (52)  
 . (62) (66) .

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

가 OLED (72) , 2 (12, 50) (12, 15) 가 (Newton ring) 가

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

1999 11 9 (Sin) 5,982,004

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

1999-12-30 (Ikeda) 5,005,172

1998 12 22 (Fujiimori) 5 852 487

가 , , , , 가

8 , [ (100) ] , -  
 (102) (52) , . (1)  
 02) (14) (52) (102) (14)  
 . 2 , .  
 (52) (14) 가 .  
 .  
 (100) .

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

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

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

(100) 가

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

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

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

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

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

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

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

, 가 , , , 가

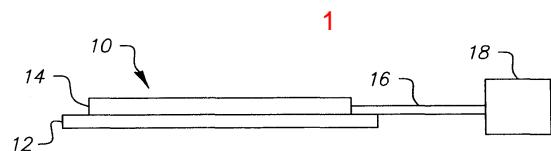
(57)

1.

a)

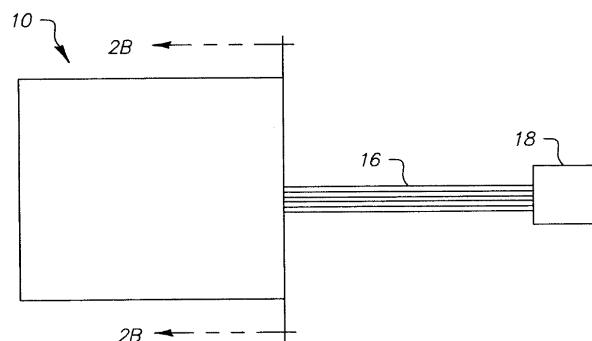
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c)



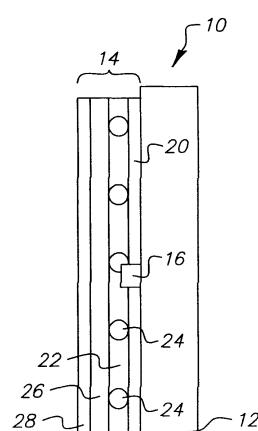
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2a



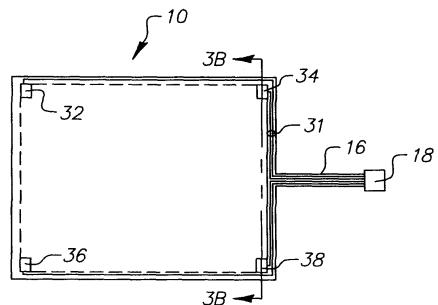
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2b



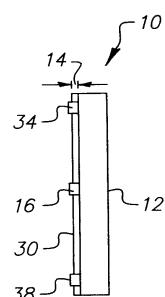
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3a



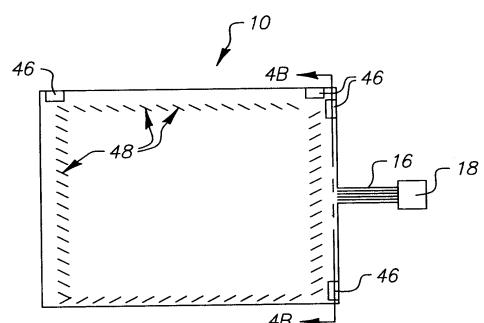
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3b



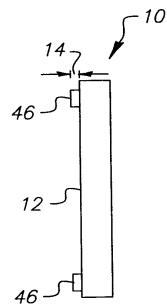
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4a



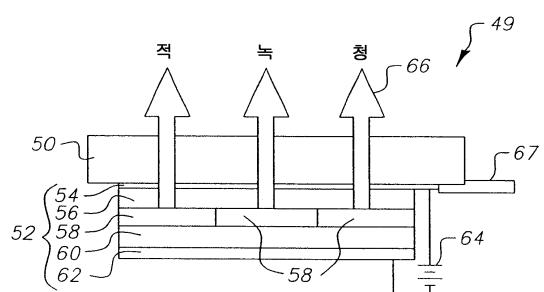
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4b



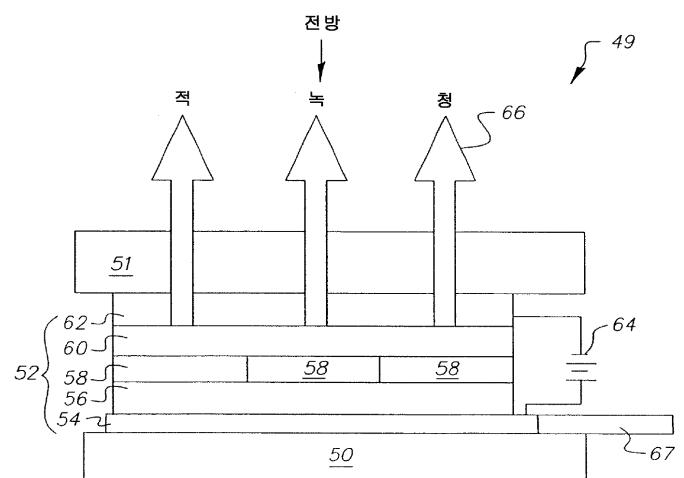
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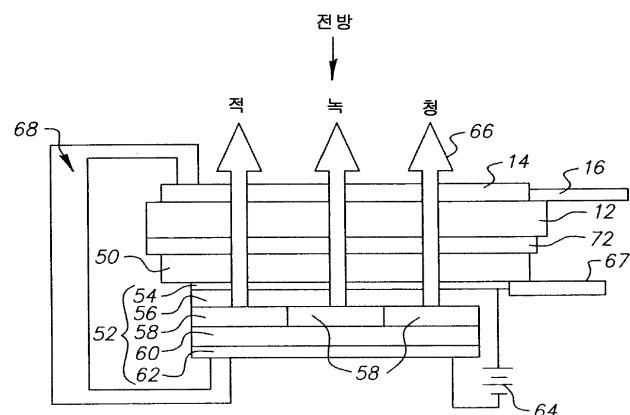
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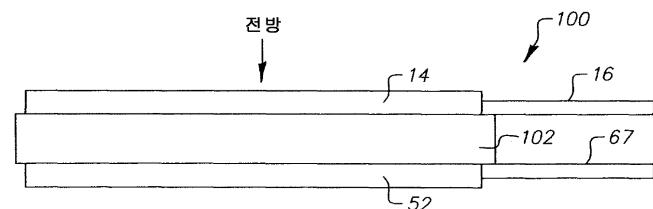
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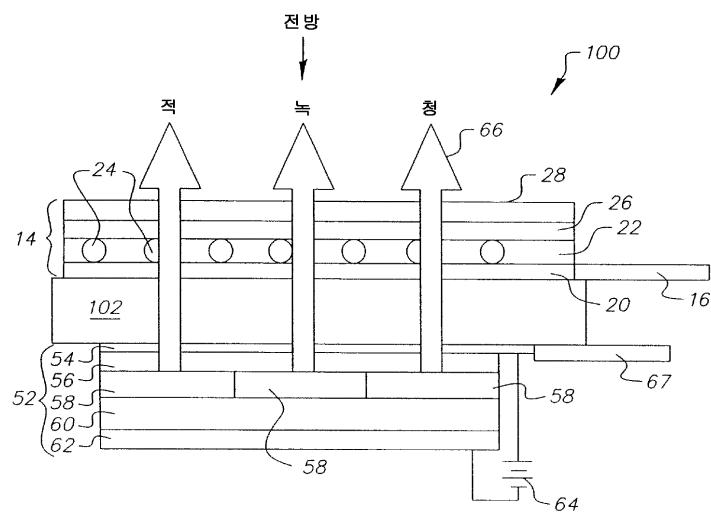


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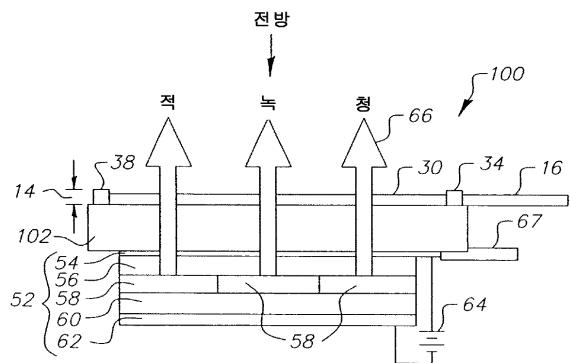
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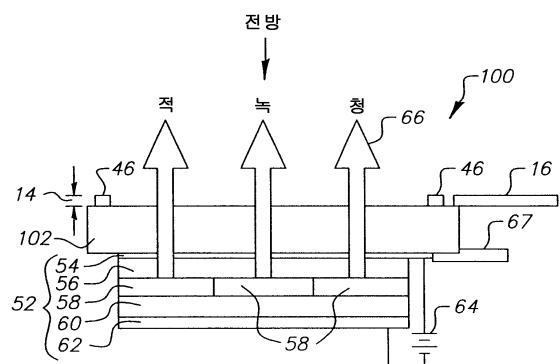
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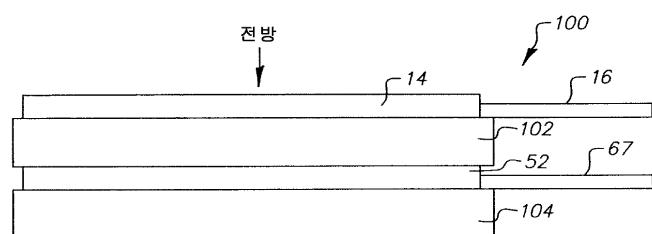
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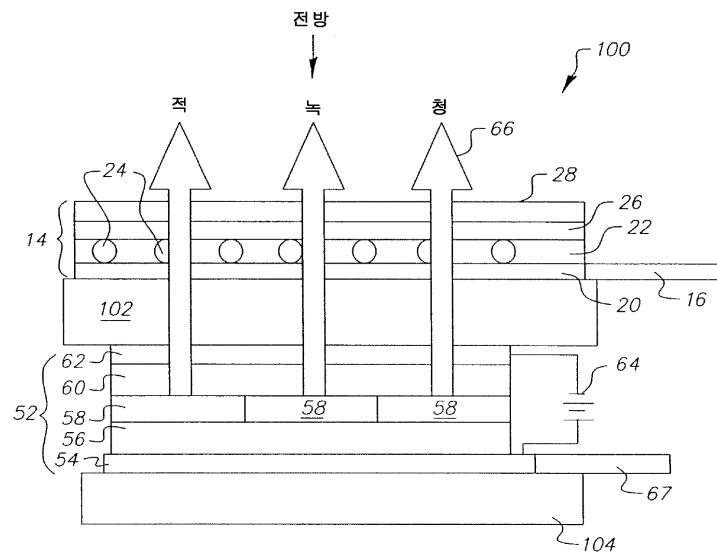
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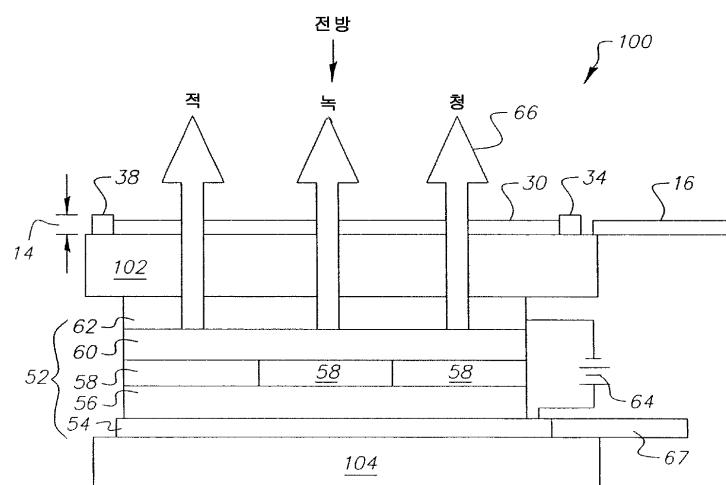
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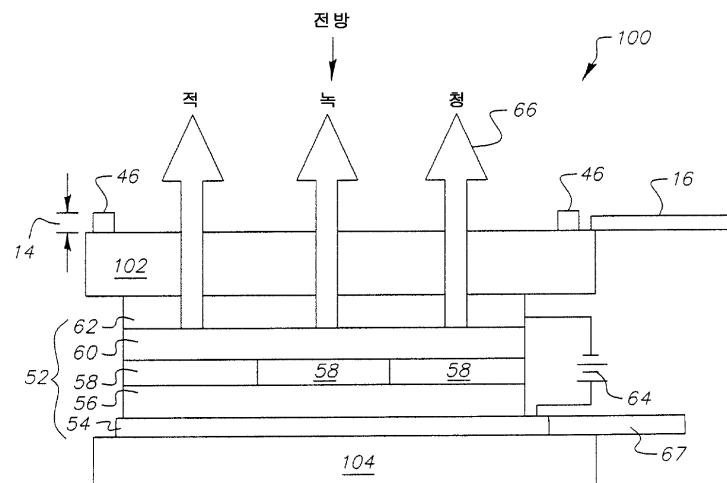
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14



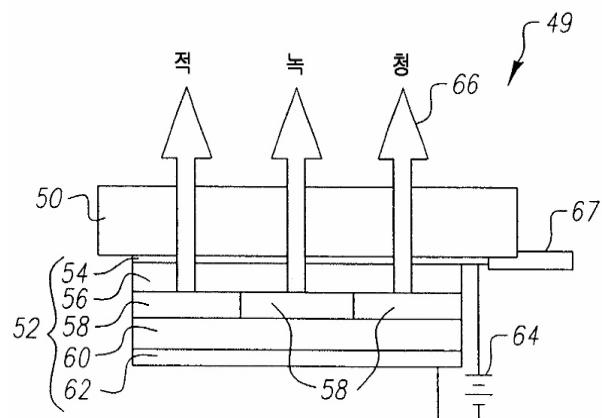
15



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 MICHAEL J 시원스키マイケル제이 KILMER KATHLEEN 킬머캐슬린 FELDMAN RODNEY 펠드만로드니 CROPPER ANDREW 크로퍼안드레디		
发明人	시원스키マイケル제이 킬머캐슬린 펠드만로드니 크로퍼안드레디		
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)