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(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02F 1/1343(11)
(43)2002 - 0020183
2002 03 14(21) 10 - 2001 - 0052345
(22) 2001 08 29

(30) JP - P - 2000 - 00270143 2000 09 06 (JP)

(71)

10504

(72)

가 가 가 2 - 25 - 10

가

가 가 가 4 - 1 - 58

가 가 가 가 6 - 4 - 4502

가 가 가 3 - 63 - 7205

(74)

:

(54)

(100) , (18) (15)
 (21) (17) (22)
 (21) (22) (15)
 (15) (16) (17)

1 .
 2 (a) 2 (b) , 2 (a) 3 A - A
 , 2 (b) 3 B - B .

3 .
 4 .
 5 .
 6 .
 7 .
 8 .
 9 .

< >

11, 12 :

13 :

14A, 14B :

15 :

16 :

17 :

18 :

20 :

101 :

102 :

104, 105, 106 :

107, 108, 109 :

100 :

110 :

111 :

112 :

가 (in plane switching)

light)가 (back (irradiate)

가 가 ()

가 ,

가 ,

PS: , (I
가)

가 가 ()

7 8 IPS (3)
(4A, 4B) (1, 2) (4A, 4B) (5), (6),
(7), (8), (TFT)가8 , (5) (6) ,
(5) , (6)(7) (5) (8)
(7) (8) TFT(9)

가 , 가 , (7) (8) TFT(9)

, IPS

, (7) (8) , 가

(5) (8) (7) (7) (crosstalk)가 (5) (X)
(8)

(5) (7) 가 (5) 가
(d) (5)
(7) (7) ()
(5) (black matrix)가
가 (1, 2)

가

(5) 9 (7') (5) (7') 가 (7') (7') (7')
8) 9 (7') (7')

1

2

가

1

2

1

가

1

2

2

1

가

1

가

가

1
(100) , (100) (101a)
(101) , (102) , (102)
(103a) (103)
(100) , (104) (105) (106)
(107, 108, 109)가 (104, 105, 106)
(110) (101)
, (100) , (112) (111)

2 (a) 4 (100) . 2 (a) 2 (b)
 , (100) (, 11, 12)
 () (11, 12) (13)
 . , (13) , 4 5 .
 (11) (R), (G) (B) ()
)가 .
 (12) (14A, 14B) . , (14B) ,
 (: 1) 10 () ,
 4 , 3.5 . (14B) 2
 3 , (12) (15) (16) (17) (18)
 (TFT, 19)가 .
 (15) TFT(19) , (14A)
 (12) (15) (16) TFT(19)
 . (15) (15) (16)
 (20) (15) (16)
 .
 , (15) (20) (15a) (15b) " L"
 (20) (gradation invers
 ion)(가 , 가)
 (17) (14B) , (15) (16)
 . (17) 가 (15) " L"
 (17) (15) (16) .
 3 4 (18) (14A) (2 , ,)()
 21) (14B) (1 , ,)(22)
 (21) (21a) (21b) (21
 a) (15) (15)
 , " L" , (21b) (20) . ()
 21b) (21b) (21b) ,
 (16) , TFT(19) (16) (21
 b) (21b) .
 (22) (17) " L"
 (100) (21) (21a) ,
 (22) (21) (21) .
 4 , (23) (22) (23a) (23a) (23)가 .

(23b) , (21) (21b) (23a) (14B)
 (23b) (23c)가 2 (b) , (23) (21)
 (21) (22)

3 , TFT(19) (18) (((
 15) (16) (16)(2 (a) 2 (b)) (
 14A) , TFT(19) (15) (24) (21)
 (21c) (16) (25) (24) (25)
 (a - Si) (26)

, (11) (16) (28) .
 (28) (100) (17) (17)
 가 , TFT(19) (28) (15)
 (15a, 15b) , (15) " L" (20)
 (28) , (21) (21b)
 (23b)가

5 (100) (100) , (15) (18)(
 3) , (SD) ,
 (16) TFT(19)(3) / (on/off)
 (GD) , (17)(3) (CB)

(100) , (20) TFT(19)
 (18) 가 (17) (18) 가
 3 (p) (C) , (18)
 (21) (17) (18) (22) (17)
 (17) (17) (22)

, (17) (15) (16) (15)
 (16) (17) (15)
 (16) (18) (15) (17)
 가 , (16) (17)
 가

, (15) (17) , (21)
 (18) (15) (15)
 (21a) (22) (15) 가 (15)
 (18) (21) (21a) (22)

(15) , (21) (21a)
 (20) , (21a) (20) , ,
 .

1) , (21) (21a) 가 가 , (15) (2
 (17) (15) 가 가
 (21a) 가 (17) (17) (17)
 (21) (21a)가 (20)
 가 , (100) (11, 12) .

10 , 7 , 가
 2 (b) (15) 7 (7) 가
 (20) (100) 3 5 (2 (a) (s)) 2 (a)
 6 (7 8) (100)
 가 , 가

17) , (17) , 가
 (100) TFT(19)
 (100)
 (17) " " , 가
 (11, 12) 가 .

15) (20) (15a, 15b) " L"
 () (20)
 (20)
 (21) (21b) , 가
 (23) , (28) , 가
 가 ,

18) , (14B)
 (15) (17) , (15)
 (17) 가
 (15) (

4.

2 , 1 2 1 2

5.

4 , 2

6.

2 , 2

7.

가 ,

,

,

,

,

8.

7 ,

9.

7 , ,

10.

9 , 가

가

11.

9 , ,

12.

가

,

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.

13.

12

,

.

14.

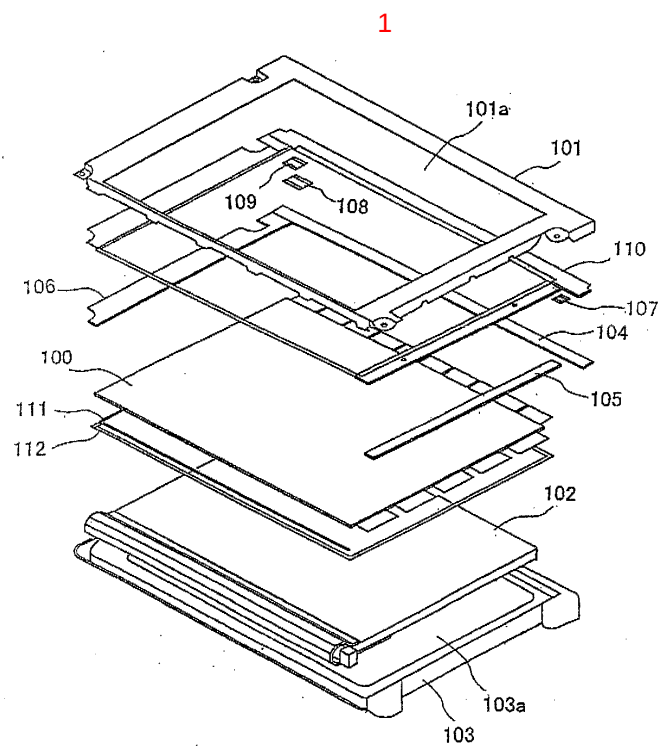
13

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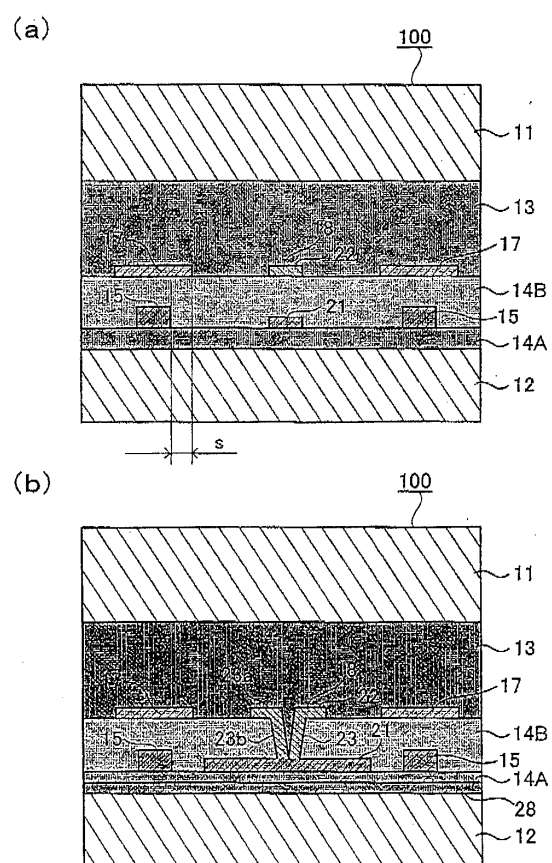
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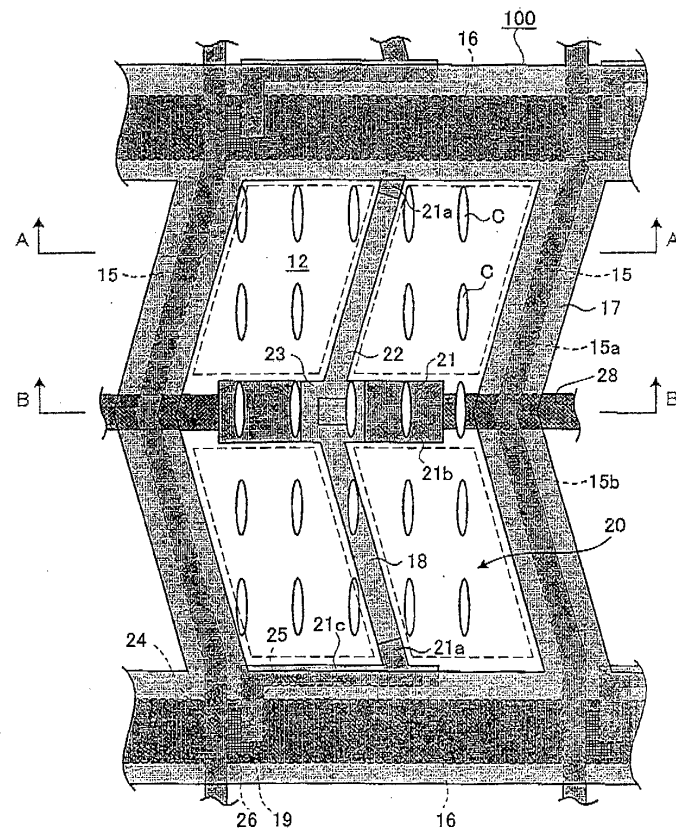
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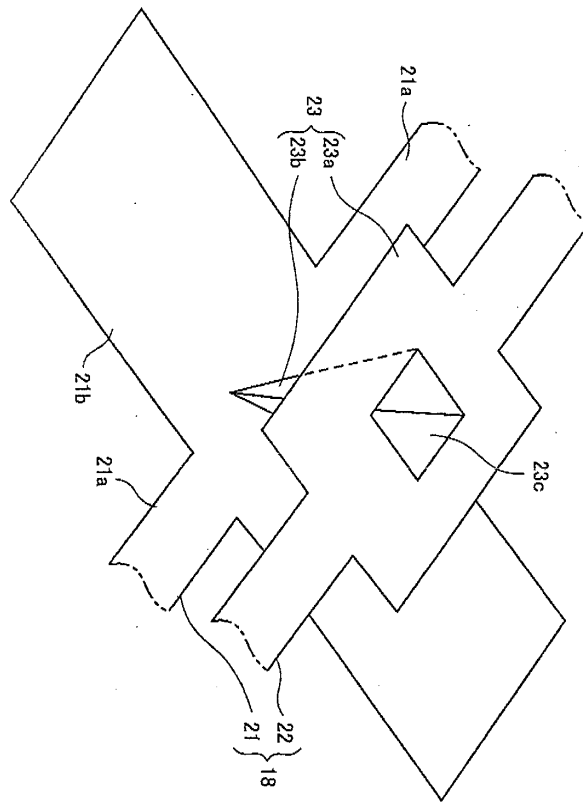
2



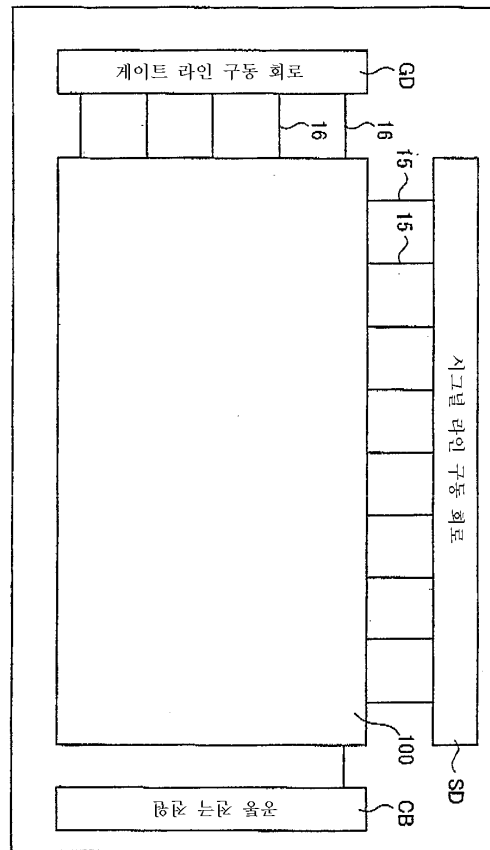
3



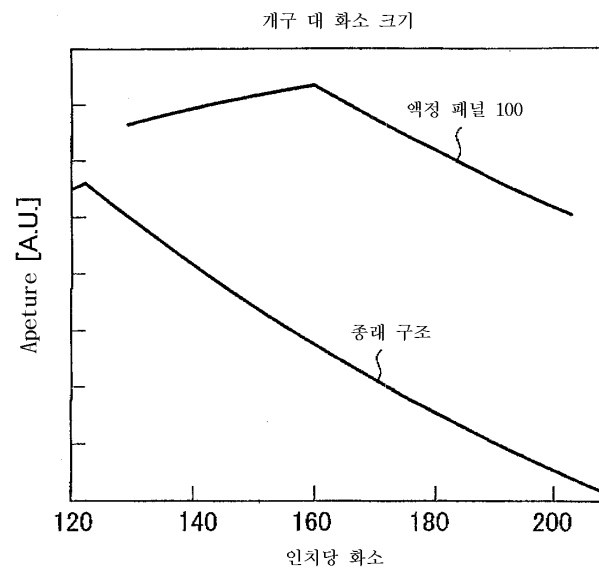
4



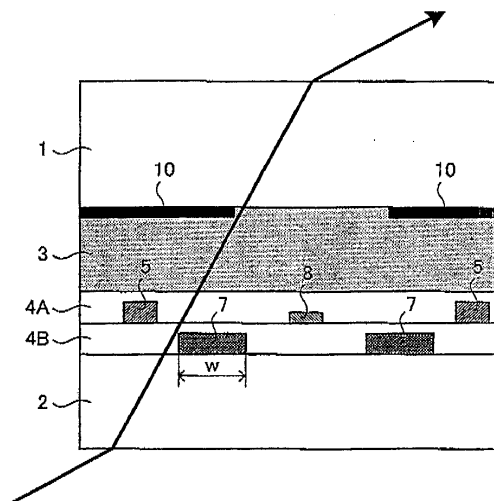
5



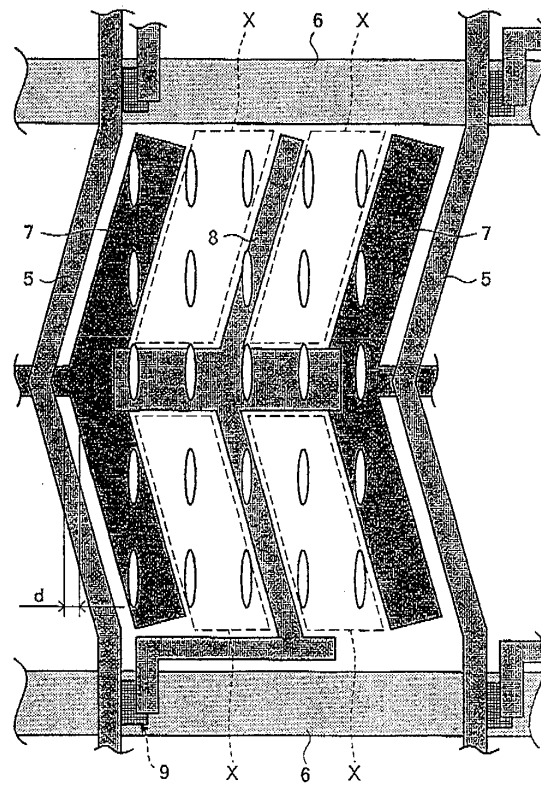
6



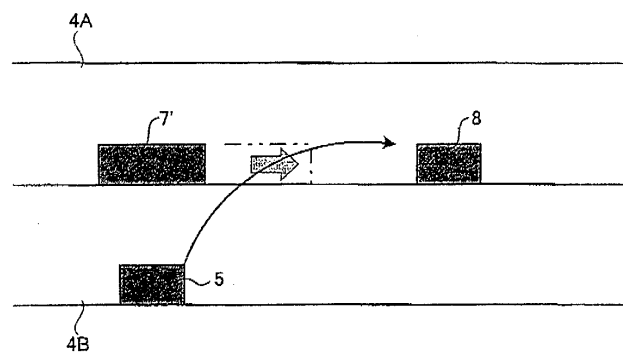
7



8



9



专利名称(译)	显示面板和显示设备		
公开(公告)号	KR1020020020183A	公开(公告)日	2002-03-14
申请号	KR1020010052345	申请日	2001-08-29
[标]申请(专利权)人(译)	国际商业机器公司		
申请(专利权)人(译)	国际商业机器公司		
当前申请(专利权)人(译)	国际商业机器公司		
[标]发明人	SHIMIZU HIDEHISA 시미즈히데히사 KUSAFUKA KAORU 구사후かが오루 IKEZAKI MITSURU 이께자끼미쯔루 TERUKINA ASAO 테루기나아사오		
发明人	시미즈히데히사 구사후かが오루 이께자끼미쯔루 테루기나아사오		
IPC分类号	G02F1/1368 G02F1/1343 G02F1/136		
CPC分类号	G02F1/134363		
代理人(译)	Park Kyung-joo		
优先权	2000270143 2000-09-06 JP		
外部链接	Espacenet		

摘要(译)

在平面切换模式中的液晶面板100的每个像素区域中，像素电极18位于与下像素电极21相同的层中，并且公共电极17位于与信号线15相同的层上。由上部像素电极22构成的层结构由相同材料制成。此外，使下部像素电极21的电极部分更靠近信号线15而不是上部像素电极22。此外，信号线15，栅极线16和公共电极17以它们部分重叠的方式布置。 1 指数方面 液晶显示器，液晶面板，像素电极，信号线，栅极线，公共电极 - 1 -

