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(22) 2000 04 10 (43) 2000 11 25

(30) 99 - 105868 1999 04 13 (JP)

(73) 가 가 가 1 7

(72) 가 1 - 55 - 8

(74)

:

(54)

, 가

(13,14) (15) , (13,14) (20,21) (20,21)  
(13,14) (1) , (1)  
가 (4) , 2 (4) 가  
2 (20,21) 2 2.5 40

7

1

2 1

3 1

4 3 (母系基材) (押壓) (母型) (壓子)

5 4

6 4

7 1

8

9 8

10

\*

\*

1, 30 ... 4, 34 ...

14, 43, 44 ... 15, 45 ...

17, 18, 48 ... 20, 21, 50, 51 ...

22, 23, 52, 53 ... 60 ...

60a ...

,

•

가 . 가

$$\begin{array}{ccccccc}
 & & , & 10 & & (113,114) & \\
 (120,121) & & , & & (120,121) & & (122,123) & , \\
 & (122,123) & & (115) & & & (113,114) & \\
 1, & 2 & & (117,118) & , & 2 & (118) & (101) & (10 \\
 5) & & 2 & (118) & & & & &
 \end{array}$$

115) (100), 1 (117), (118), 2 (118), (115) 1 (117), (101), 2 (118), (115) 1 (117), (101),

가 , 가  
가 .

가 , . ,

가 .

가 , 가 가 .

가 , 가 .

가 .

가, ( ) X 가 Y

가 , 가 가 .

가 . 가 .

가

가

N TFT , 가 ST

가

가 0.1 3  $\mu\text{m}$  , 가 - 35 +35  
가 5  $\mu\text{m}$  50  $\mu\text{m}$  .

[illegible]

, - 35 +35 ,  
 , 가 - 35 +35  
 , 70 가 , ( ) .  
 , 가 3  $\mu\text{m}$  ,  
 ,  
 , 가 5  $\mu\text{m}$  , (型) ,  
 30 100  $\mu\text{m}$  , 5  
 50  $\mu\text{m}$  .  
 50 500  $\mu\text{m}$  가 . 40 490  $\mu\text{m}$  가  
 .  
 가 50  $\mu\text{m}$  가 , 500  $\mu\text{m}$  가  
 ,  
 , 40  $\mu\text{m}$  가 , 490  $\mu\text{m}$  가 ,  
 .  
 가 2 가 2  
 2.5 40 , 2.5 가 가 ,  
 40 가 .  
 ,  
 ,  
 , 가 ,  
 가 2.5 40  
 ,  
 , 가 가 ,  
 ,  
 , 가 STN , TFT  
 ,  
 ,

가 2 2 2  
5 40 2 2

가 가

가 50 500  $\mu\text{m}$  가 40  
가 50  $\mu\text{m}$  가 , 500  
490  $\mu\text{m}$  가  
가  
40  $\mu\text{m}$  가 , 490  $\mu\text{m}$  가  
( )

1  
0.7 mm (13) (14)  
(20,21) , (15) , (1  
3) (16)  
16) 1 (17) (14) 2  
(18), (19) (1)  
(21) , 1  
(20) , 1

(1) 2 (18) , (1) 2  
(18) (19) 가  
2 (1) , (2)  
(3: )  
(4) 가 (5)

(4) 0.1 3  $\mu\text{m}$  (4) 5 50  $\mu\text{m}$   
(4) - 35 +35

(1) 3 7

3(a) , , , (R)  
 (母型基材; 7) (轉造裝置)  
 (8) (7) (7)  
 (8) (7) 가  
 (7a) (7) 3(b) (9)  
 3 (7)  
 X , Y (8) 가 1  $\mu\text{m}$  0.1  $\mu\text{m}$   
 가 (R) 10 100  $\mu\text{m}$  (Z )  
 (7a) 2  $\mu\text{m}$  (R) 30 50  $\mu\text{m}$  (7a)  
 1  $\mu\text{m}$  (R) 50 100  $\mu\text{m}$

5 , ,  
 t1 (= 17  $\mu\text{m}$ ), t3 (= 15  $\mu\text{m}$ ), t2 (= 16  $\mu\text{m}$ ), t3, t4 (= 14  $\mu\text{m}$ ), t4, t5 (= 13  $\mu\text{m}$ ), t2, t3, t3

1.1 2.1  $\mu\text{m}$  4 ( d1, d2, d3, d4 )  
 r1 (= 11  $\mu\text{m}$ ), r2 (= 10  $\mu\text{m}$ ), r3 (= 9  $\mu\text{m}$ ), r4 (= 8  $\mu\text{m}$ ) 4 가  
 r1, r2, r3, r1, r4, r2, r4, r3, r1, r4, r1

, d1 ,  
 d2 , d3 , d4 4  
 , 2  
 , 5 t = 150  $\mu\text{m}$   
 가 5 (壓根)  
 6

3(c) , (9) (10) , (10)  
 (11) , (10)  
 3(d) (9)  
 (12a) (12)

, (azide) ,  
 가 1 가 가 80 100  
 2 5  $\mu\text{m}$

, 3(e), 3(d), (12), (12), (12a)

(3), (12), (3)

3(f), (3), (12a)

(4) 30 50 kg/cm<sup>2</sup>

30 10

(3) (g,h,i )

J/cm<sup>2</sup> (3), 50 m

(3) 가 , 가

(3) 240 1 가

(3)

(3) (1) 가

(5)

(20) (21) 7 (1)

가 10 20 μm 76 μm 66 μm

(1) (4), 7 (20)

8 7 , p1 ( ) = 1

5 μm, θ = 8°

(1) (20) 가 107 μm

7 μm 가 0.5

(14) (14) (14)

(20,21) (1) 1 (14)

(20) (1) (4), 7 8

8

8 (43,44) (44)

(30) (33)

(35), (41), (51) (53) ( ITO )

(43) (60), (42), ITO

(50) (52) (43,44) (52,

53) STN (45)

(43), 1 (46), 2 (47), (48)

(51) , 8  
(20) 1

(50,51)

1

(20,21)

(60) , (60a) (50)  
(60) (60a) (60a) 가 (R), (G), (B)

(60a) (W1) (50) (W2) 80 %

(60a) (50) 80 %  
가 , 가 , 가 ,

(30) , 2 (1) (2) (1) (33)  
2 (3) , (35) 2 (5) , 9  
(30) (34) , 2 6 (4)

(50) , 9 (30) (34)  
(34) (50) 8 가 , (30)  
(60a) 8

(30) (50) (60a) 107  $\mu$ m

(44) (30) (44)  
(43) (60)  
(42) (30)  
, STN (Super Twisted Nematic)  
TFT  
(41)  
, TN (Twisted Nematic)

, 2.5 40 , 가 ,  
가

가 , ,  
가

2.5 40 , 가 , 가

가

(57)

1.

가

2.5 40

2.

1 가 0.1 3 $\mu$ m, 가 5 50 $\mu$ m

3.

1 TFT STN

4.

가 2.5 40 가

5.

4 가 0.1 3 $\mu$ m, 가 5 50 $\mu$ m

6.

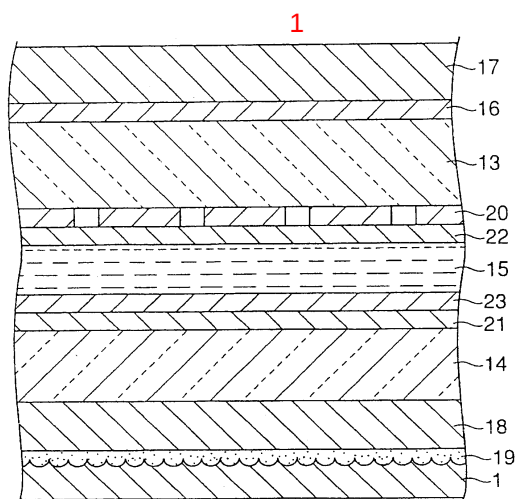
4 STN TFT

7.

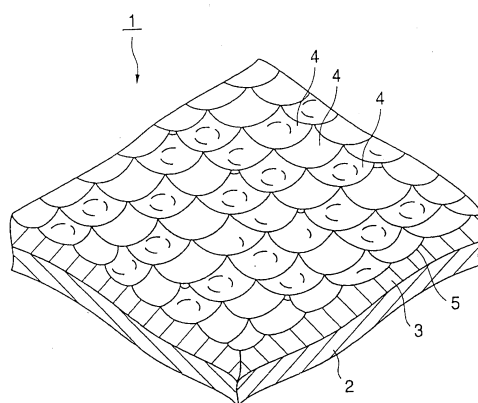
가 2 2  
2.5 40

8.

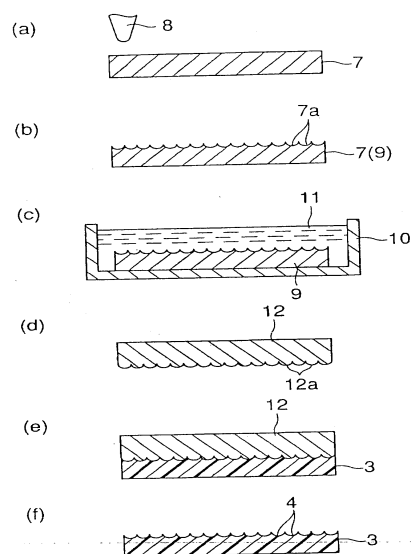
2 2 2.5 40 가 2 2  
2



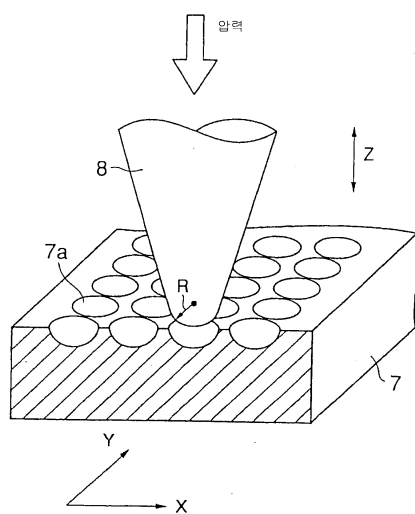
2



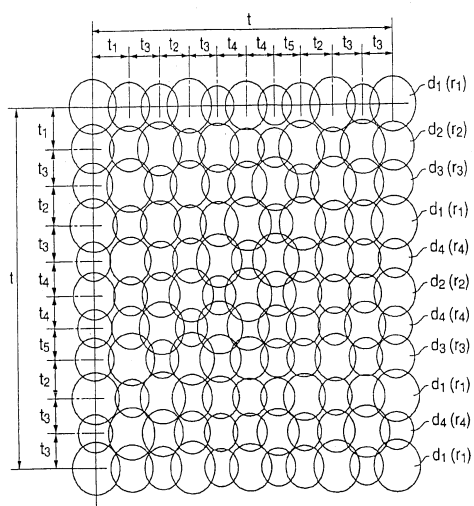
3



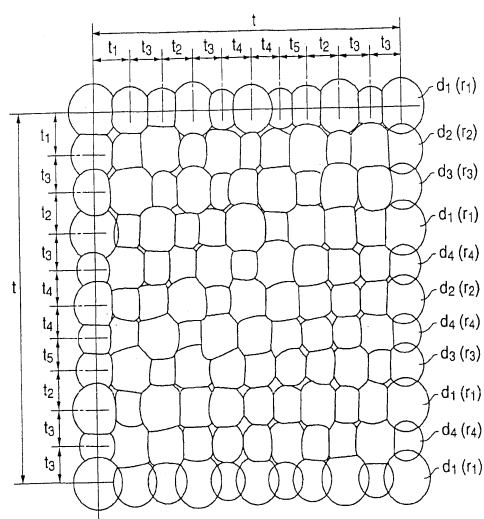
4



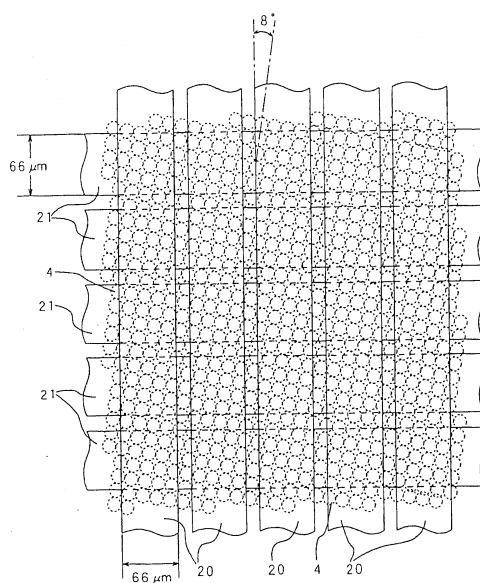
5



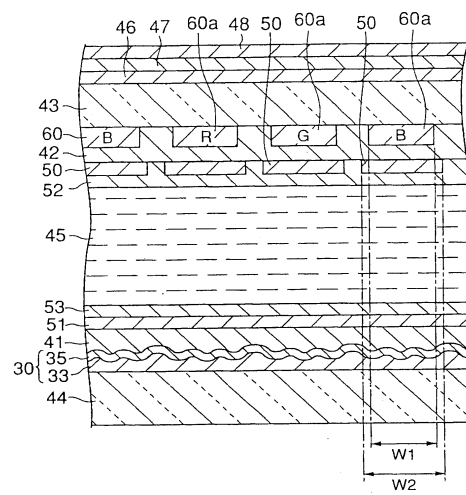
6



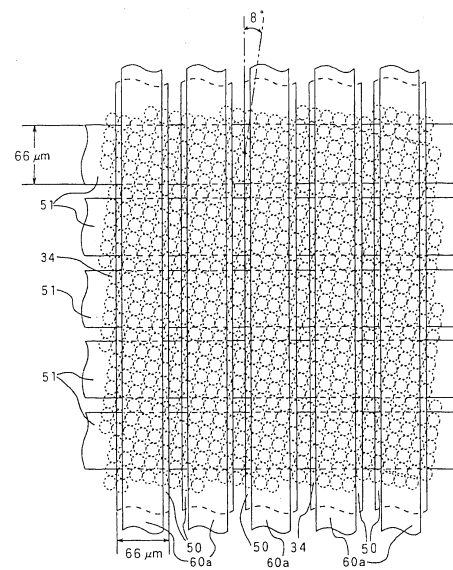
7



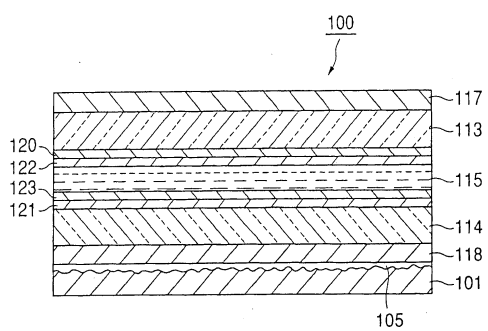
8



9



10



|                |                               |         |            |
|----------------|-------------------------------|---------|------------|
| 专利名称(译)        | 反光液晶显示器                       |         |            |
| 公开(公告)号        | <a href="#">KR100367897B1</a> | 公开(公告)日 | 2003-01-14 |
| 申请号            | KR1020000018578               | 申请日     | 2000-04-10 |
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| [标]发明人         | YOSHII KATSUMASA              |         |            |
| 发明人            | YOSHII,KATSUMASA              |         |            |
| IPC分类号         | G02F1/1335                    |         |            |
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| 优先权            | 1999105868 1999-04-13 JP      |         |            |
| 其他公开文献         | KR10200000071619A             |         |            |

#### 摘要(译)

提供了具有优异显示质量的液晶显示器，其具有重复相位。液晶层（15）位于一对基板（13,14）之间的间隔中。固定间隔放在一对基板（13,14）的每个相对侧，并且多个条纹几何透明电极（20,21）平行地形成，并且，并且，面对每个条形电极（20,21）之中是制成正射，间隔形成。并且反射器（1）设置在基板（13,14）的任意相对侧或外侧。该反射器（1）列举了多个正交2的凹槽（4）并且它连续地形成。如上所述，该多个凹槽（4）成一排2.5至40的双向相互交叉围绕正交条形电极（20,21）的延伸双向的角度。反射型液晶显示设备。

