

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

(51) 。 Int. Cl. <sup>7</sup>  
 G02F 1/1343 (11) 2002 - 0071764  
 (43) 2002 09 13

---

(21) 10 - 2002 - 0011895  
 (22) 2002 03 06

---

(30) JP - P - 2001 - 00063494 2001 03 07 (JP)

(71) 가 가  
 가 4 6

(72) 가  
 가 460

가 2 - 5 - 1

414 - 1 - 101

868 - 202

(74)

(54)

---

1		
2		
3	1	-
4	1	-
5		
6	5	-
7		
8	7	-
9		
10	9	
11		
12	11	
13		
14	13	
15	9	

SUB1, SUB2 :

GL :

DL :

GJ

G1

AS ·

TET

SD1 :

SD2 :

PSV :

PSV1 :

PSV2 :

PIX :

CT :

(外圍器)

가

가 )

가

가

가

가

가

1  
《 가 》

2 가 . 2 가 ,

2 , SUB1 , SUB1 SUB2

SUB1 , x y , y GL ,  
GL y x , DL ,  
AR ,

GL CL GL ( ) CL ,  
CL CT ,

GL ( ) ( )가 TFT , TFT , PIX가 ,  
PIX ,

PIX CL Cstg가 , Cstg  
TFT가 , PIX ,  
PIX , PX , CT , SUB1 ,

GL 1 ( ) , SUB1 1 ( ) , GTM ,  
DL SUB1 1 ( ) , DDRC , DTM ,  
SUB1 ,

GDRC, DDRC , 가 SUB1 , COG(Chip O  
n Glass)



AS GI GL Si(a - Si)  
AS가 , TFT , SD1 SD2  
AS GL MIS  
AS TFT GL CL DL  
GI DL SD1 DL SD2가  
AS GI y SD1 DL DL SD1  
Cr ,  
PIX SD2 AS ,  
PIX가 y ,  
PIX CL , 가 SD2  
SD2 ,  
PIX CL CT GI  
Cstg가 ,  
V" x PIX ,  
 , , (180°, - ) , , GL  
 , ,  
PIX , 1 y  
PIX ,  
TFT DL 가 , PIX , CT( SUB1  
가 ) LC ,  
PIX , ITO(Indium - Tin - Oxide)

PSV ORI2가 , LC

BM , , , TFT

BM SUB2 , y  
, x (R), (G), (B)

BM FIL OC가  
OC ORI2 . ORI2 SUB1

GI , PIX (顯在化) , PIX , PIX . PSV .

PIX ITO

PIX ,  
( ) . 1/2 2

2

5 , 6 5 - , 1

1 G PSV가 PIX PSV

PSV , PIX , GI TFT SD2  
CH2

X , 1 가 , PSV PI

3

7 , 8 7 V - V ( SUB2 , 5 ) .  
 5 PSV가 , GI CT가 , CT  
 , CT , GI CL PSV GI  
 , CH3, PSV CH3  
 , PSV PIX  
 ,  
 4  
 9 , 10 9 X - X , 15 9 - , 1 ( SUB2  
 , ) .  
 1 , , PSV가 SiN PSV1  
 PSV2 PIX CT PSV  
 ,  
 , CT , 10  
 .  
 ,  
 CT , PSV( PSV2 PSV1, GI ITO  
 CL , , PSV2 PSV1, CH4  
 ,  
 , CT y  
 x ,  
 CH4 , CL  
 , CL GL  
 ,  
 PIX , CL CL  
 PSV2 PSV1, GI CH5, TFT PSV2 PSV1  
 CH5' GI , SD2 CL  
 ,  
 ,  
 PIX PSV CT ,  
 ,  
 ,  
 CT , 15 CL CT 가 GL  
 , CT GL CL GL CT ,  
 GL , 가 ,  
 , EMI

, PIX , GL CT CT , EMI , DL CT  
 , PIX CT ,  
 5  
 11 , , 9  
 , 12 11 - .  
 9 , PIX가 GI  
 , GI TFT SD2가 ,  
 ,  
 6  
 13 , , 11  
 , 14 13 - .  
 11 , PIX가 PSV1  
 , TFT PIX PSV1 CH6 GI  
 SD2 ,  
 7  
 ,  
 ,  
 , ( ITO ) ,  
 , ( ) ,  
 ,  
 ,  
 ,  
 (57)  
 1.  
 ,  
 ,

2.

1 ,

3.

1 2 ,

가

4.

1

3

가

1 . 1

2

1 2

5.

4

6.

4

7.

4

,

,

8.

4

,

1

,

1

2

9.

4

,

,

1

2

1

10.

4

,

,

2

1

11.

1

,

,

12.

4

10

,

,

13.

5            10            ,

14.

9            10            ,            ,            1

15.

14            ,            ,

16.

15            ,            ,

17.

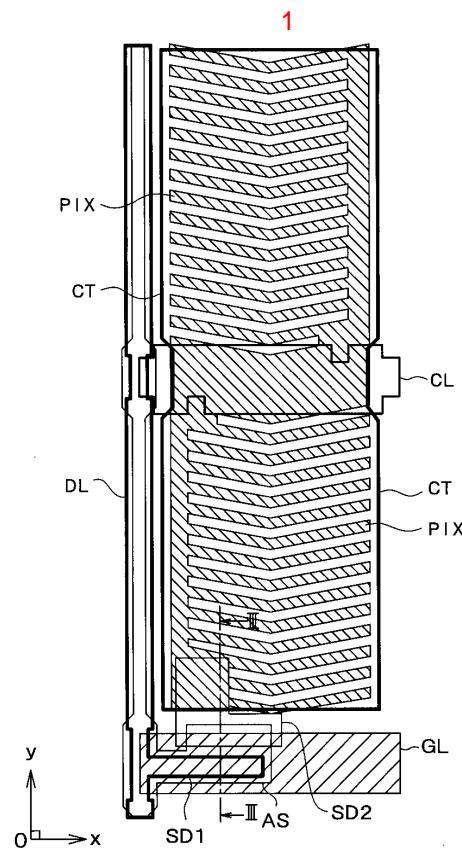
,            ,            ,            ,            ,

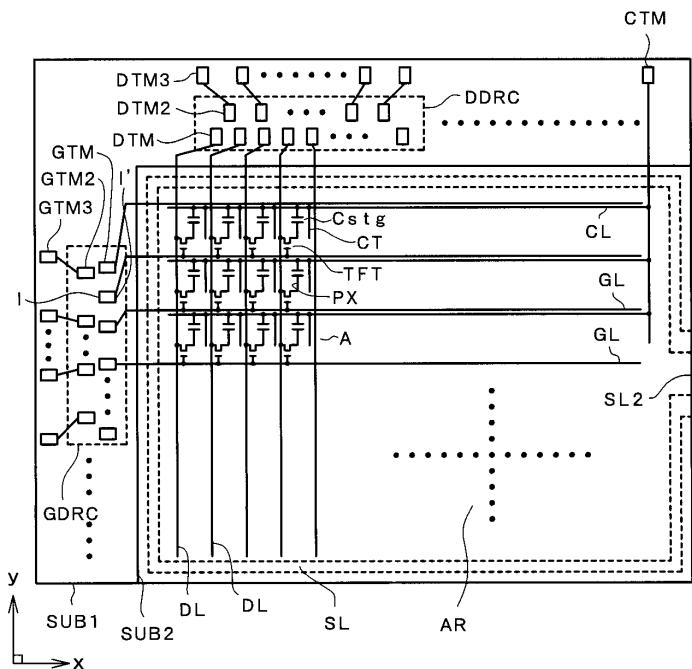
18.

17            ,

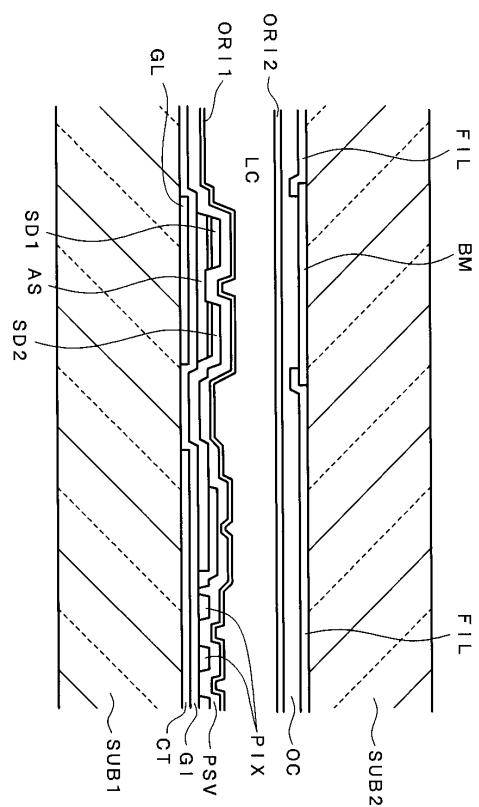
19.

18            ,            ,

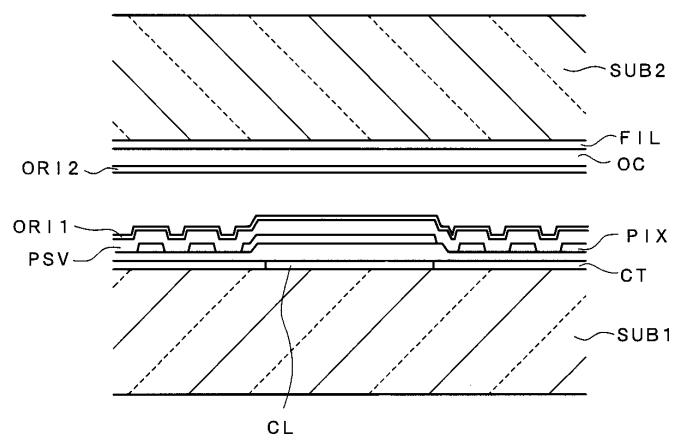


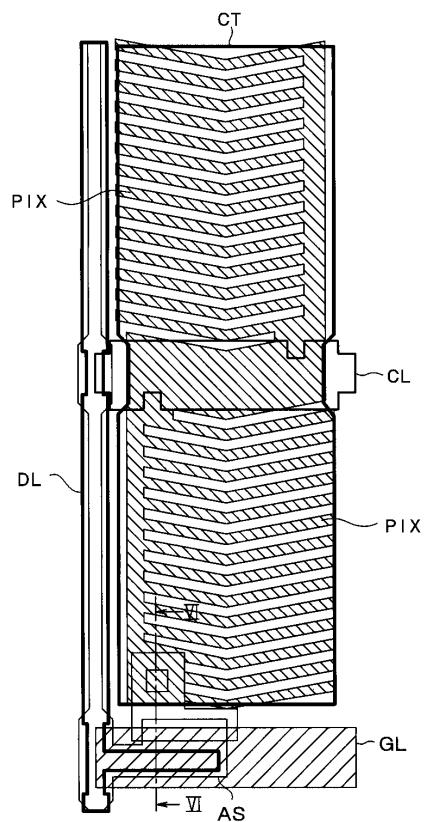


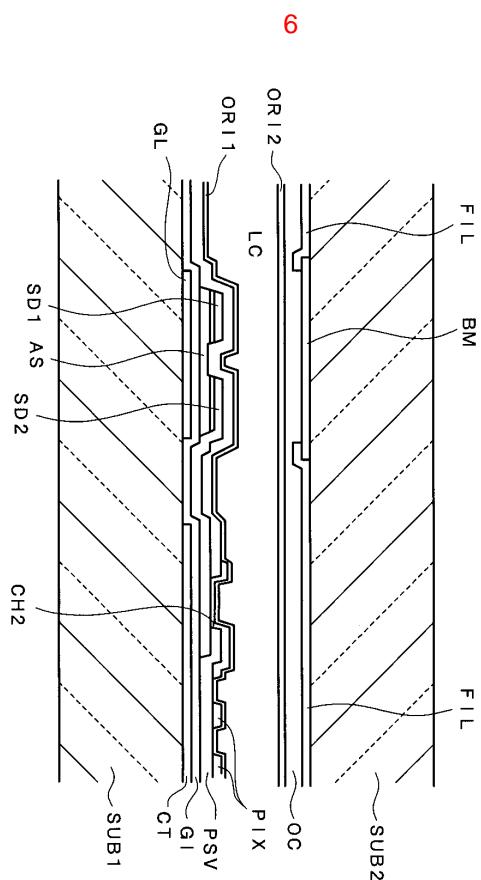
3



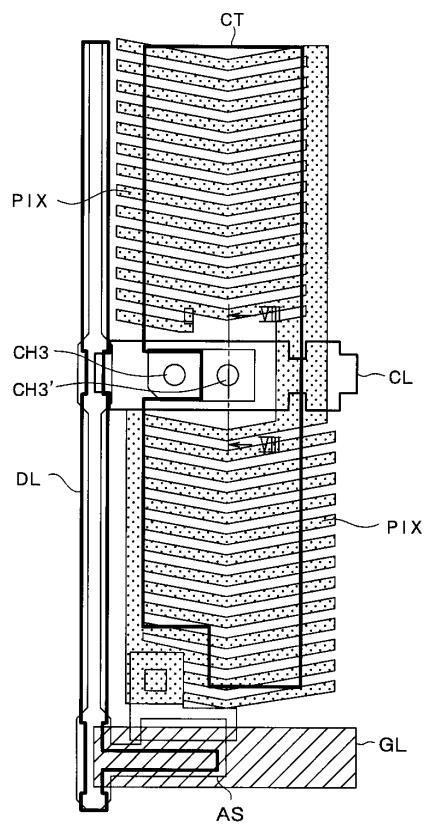
4



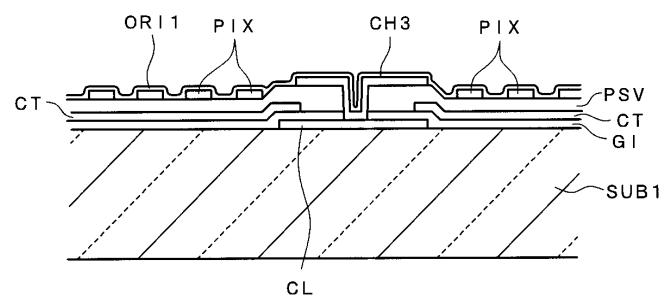




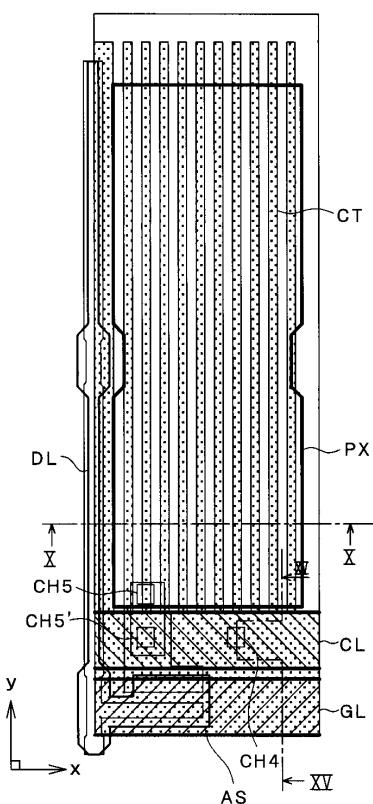
7



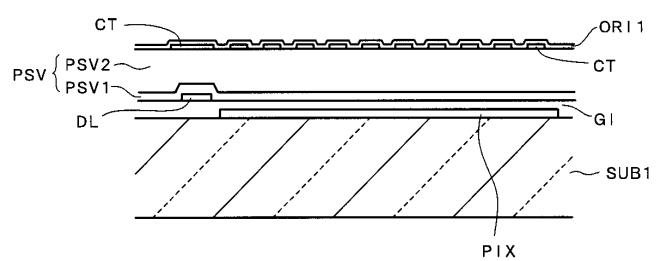
8



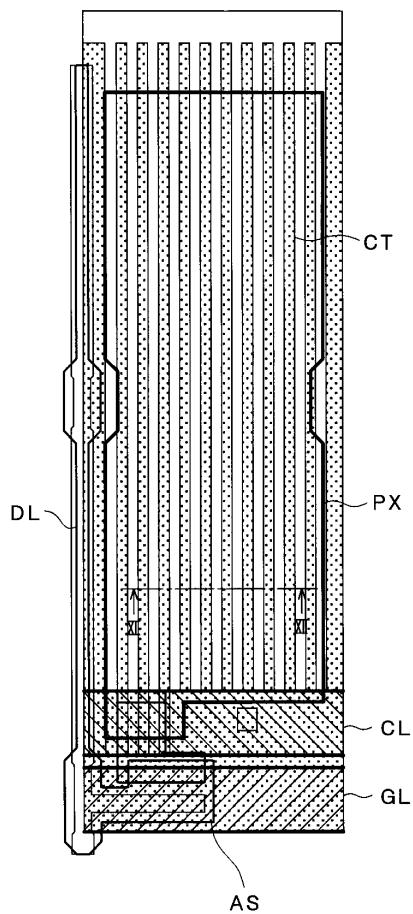
9



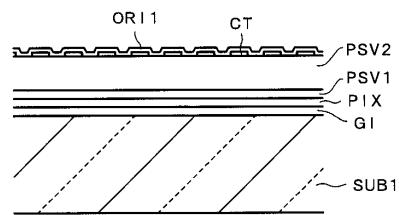
10



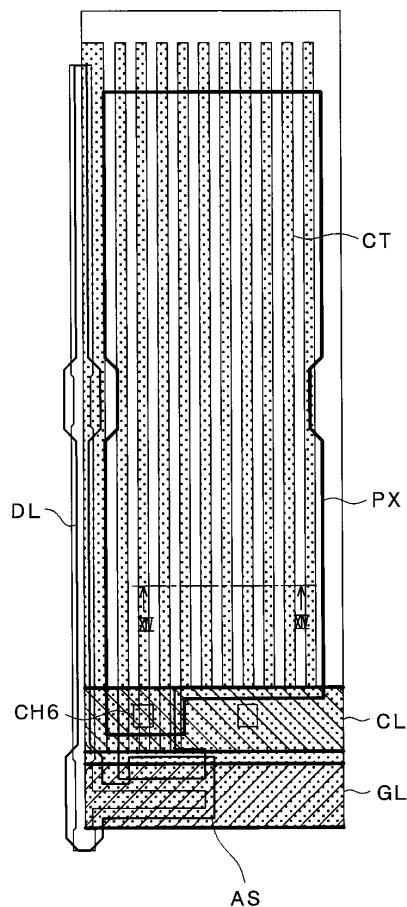
11



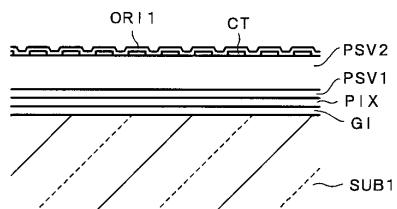
12



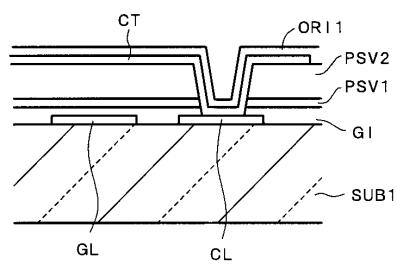
13



14



15



专利名称(译)	液晶显示器		
公开(公告)号	<a href="#">KR1020020071764A</a>	公开(公告)日	2002-09-13
申请号	KR1020020011895	申请日	2002-03-06
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA		
申请(专利权)人(译)	株式会社日立制作所		
当前申请(专利权)人(译)	株式会社日立制作所		
[标]发明人	KURAHASHI NAGATOSHI 구라하시나가또시 NAKAYOSHI YOSHIAKI 나카요시요시아끼 SASAKI TORU 사사끼도루 ANNO KOUICHI		
发明人	구라하시나가또시 나카요시요시아끼 사사끼도루 안노고우이찌		
IPC分类号	G02F1/1368 G02F1/1343 G09F9/30 H01L21/336 G02F1/1335 H01L29/786		
CPC分类号	G02F1/133553 G02F1/134363		
代理人(译)	CHANG, SOO KIL		
优先权	2001063494 2001-03-07 JP		
其他公开文献	KR100569052B1		
外部链接	<a href="#">Espacenet</a>		

**摘要(译)**

可以获得具有优异可靠性的液晶显示器作为不通过特殊配置进行的反射。一个侧电极，绝缘层和另一个侧电极层叠在每个基板之间，在每个基板中放置液晶，并且面对来自一个基板的一个基板的液晶侧的每个像素区域。并且通过一个侧电极用作反射膜并且形成配置的配置来完成。该构造形成为多个电极，所述多个电极建立在另一侧电极在一侧电极的形成区域中作为一个方向延伸并且与一个方向交叉的方向上。液晶，显示装置，反射，栅极，基板，电极。

