

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷ G02F 1/1339	(11) (43)	10-2004-0048172 2004 06 07
(21)	10-2002-0075956	
(22)	2002 12 02	
(71)	.	20
(72)		1 337
(74)		
	:	
(54)		

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6

- 1
- 2
- 3
- 4a 1 A
- 4b 4a IV-IV
- 5
- 6

7a
7b
8a 5 A'
8b 8 VIII-VIII

< >
105 : 110 :
140 : 170 :
180 : 190 :
195 : T :
P :

(Liquid Crystal Display device : LCD) ,
(array substrate) (color-filter substrate)
(liquid crystal display panel) .
 , .
가 가 , 가
 ,
가 ,
(Active-Matrix) (pixel)가 , (Thi
n Film Transistor : TFT) (TFT-LCD) .
1 2 (5) , 1 (5)
 , 2 .
(5) , (70) , (10)
(40) , 가 .
(10) 1 (11) (13) , (19)
(17) , (17) (13)
(23) .
(13) (19) (T)가 ,
(T) (13) (19) (matrix) (P : Pixel)
(27) .

(19a) , (T) (13) (13a) , (19)
 (27) (21) , (electron) (hole)
 (25) .

, (19) (19b)가 , (13)
 가 , (19b) (29) , (15)
 .

(15) (29) ()
 (5) , , (13) (19) ,
 (T) .

(40) 2 (41) , (10)
 (43) , (45) , (overcoat layer : 47) , (49) .

T) (43) (10) (13) (19) (
 (cover) ,
 (10) (27) . (43) 가 ,
 .

(45) (10) (P) (47) , , (43)
 , (black resin) , (Cr) (47) , (43)
 .

(49) .

(10) (40) (70)
 , (70) 1 2
 .

, (10) (40) 가 , (70) (10) (cell gap)
 , (40)
 .

(ball spacer) (patterned spacer)가 ,
 (random) .
 , 가
 (scratch) . 가
 , (ripple) .

(photolithography) (90)가 .
 (90) (10) (40) 가 ,
 .

, .

(70) (10) (40) ,
 (80) ,
 , .

3 , 가 , 1
 2 .

(10) , (40) .(st1)
 .

(90) .(st2)

ng) , (90) (mask) , (40) (49) (coati

가 , (49)

(90) 가 , (13) /

(19)

.(st3)

(polyimide)

(rubbing)

(80) .(st4)

(40)

(dispenser) (screen mask)

(80) (10) , (80) (40)

(80) (82) (L)

.(st5)

(80) , 가 가

(80)

V , 4a 1 A , 4b IV-I

(70) (10) (40) , (80)

(L) (80)가

(10) (40) (base)

가 , 1 , 2

(5) .(st6)

(pen) (scribe)

가 (break)

(70) .(st7)

(5)

.(st8)

(82) (86)

(40) (適下) , (80) st 4 ,

(170) st 5

가 ,
 , 1 2 ;
 1 2
 , 1 ,
 , 2 ,
 ,
 .
 5 (105) , 6 .
 (105) (110)
 (140) (170) 가 .
 (110) 1 (101) (113) ,
 (117) , (117) (113)
 (119) , (123) .
 (113) (119) (P)
 (127) , (113) (119) (113) (121) ,
 (113a) , (119) (119a) , (127) (T)가 .
 (125)
 (113) (119) () (119b)가 ,
 (115) (129) (115)
 (129) 가 (113) (119) (T)
) (115) , (119b) (129)
 (105) .
 (140) 2 (141), (110)
 (143) , (145) , (147) , (149) .
 (143) ,
 (110) (113) (119)
 (T) 가 (110) (127) .
 (145) (P) , ,
 (143) (145)
 (147) ,
 (149) .
 (110) (140) (170) (105)
 .
 , (170) 가
 (190)
 (110) (140) 가 ,
 (143) 가 , 가 , (113) / (119) ,
 (T) 가 .
 (110) (140)
 (180) , (170) (110) (14
 0) 1 2 .

(180) (L) .

(195) . ,

(110) , (195) (140) (pin) 가 (195) (L)

(195) .

가 (195) , (170)

(195) (190) 7a , 5 6

7 , (170)

(110) (140) .(st1)

(110) (140) .

(190) (195) .(st2)

(190) (195) (110) (140) (149)

(149) (190) (143) 가 (195)가 (195)

(L) .

.(st3)

(L) (180) .(st4)

가 (L) , (180) (1

10) (140) , (140) .

(L) st2 (195)가 (80)

(180) (180)

(195) , 가 (L) (180)

(182)

.(st5)

(180) , 가

가 (180)

8a , 5 (182)가 A' , 8b VIII - VIII .

(140) , (170) (110) (180) (180) , (195) (195) (195) (170) (195)가 , (195) (195) 가 .

(195) (180) (195) , 가 (時) (195) (180) , 가 (180) 가 . (L) . (195) (180) (180) .

(180) (195)가 (180) (182) , (182) (184) . (184) (182) (180) , (180) (184) , (195) (195)가 (182) , (180) (184) (195) .

가 (110) (140) 1 , 2 . (st6) 가 .

(105) (105) , (182) (170) (st7) (182) (186) , (182) (st8) .

9) , (105) , (115) (12) (170) , (170) .

가 7b . 7a , (180) st4 (110) (170) . (st5), (180) 가 (182) 7a (195) .

가

가

가

가

가

가

(57)

1.

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2.

1

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3.

1

2

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4.

3

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5.

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1

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1

2

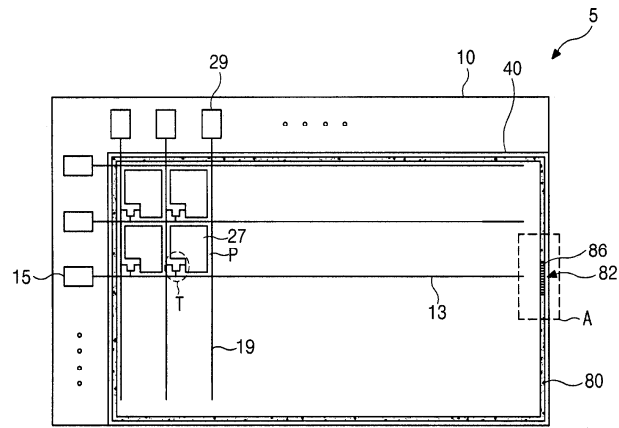
6.
5 ,
1 2
.

7.
5 6 ,
,
1 ;
,'
.

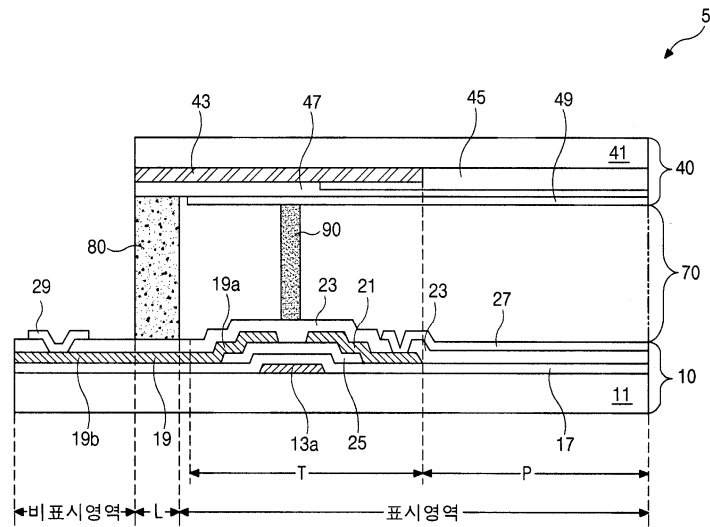
8.
6 ,
,'
,'
가
,'
,'
1 2 ;
1 2 ;

9.
1 ,
1 , ,
2 ,
,'
.

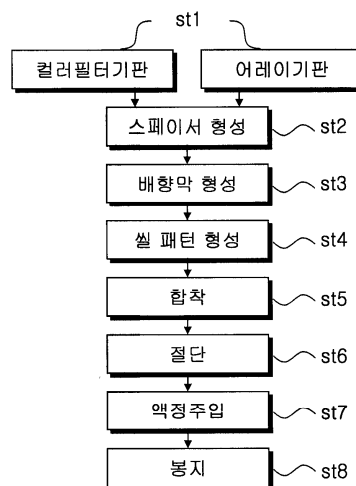
1

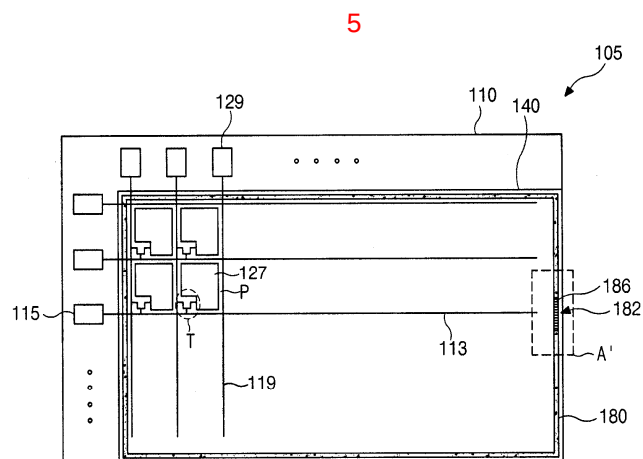
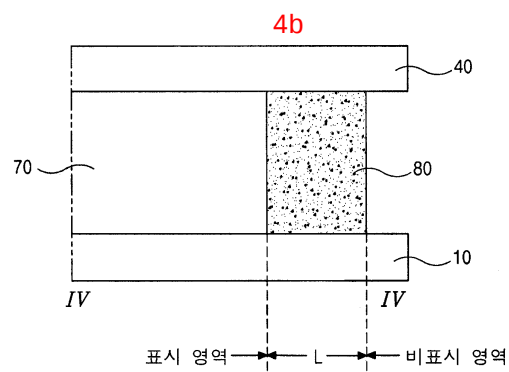
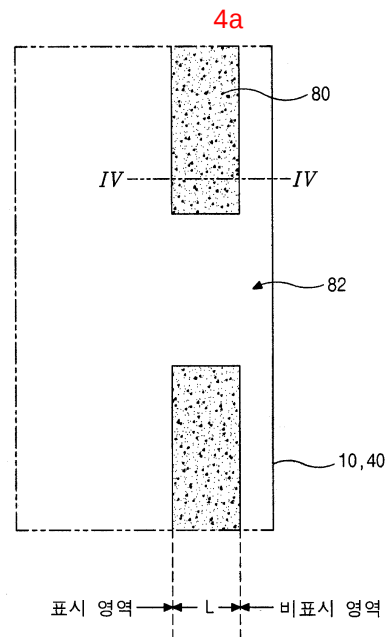


2

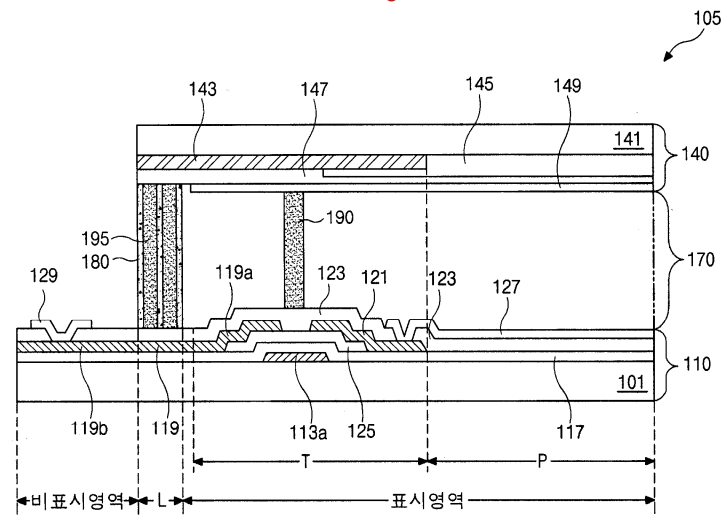


3

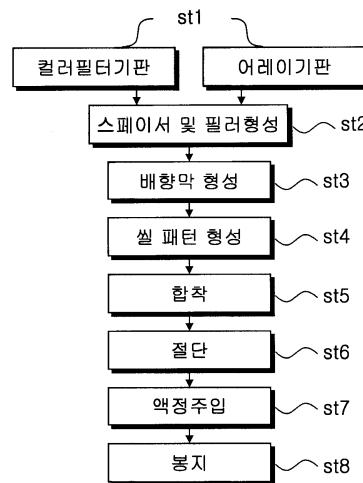




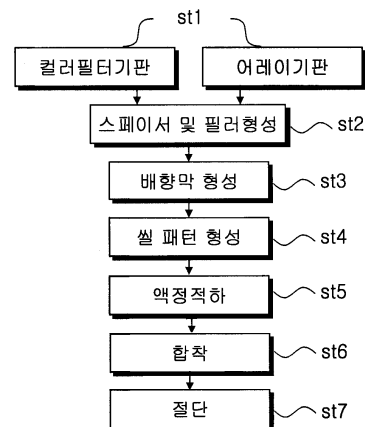
6

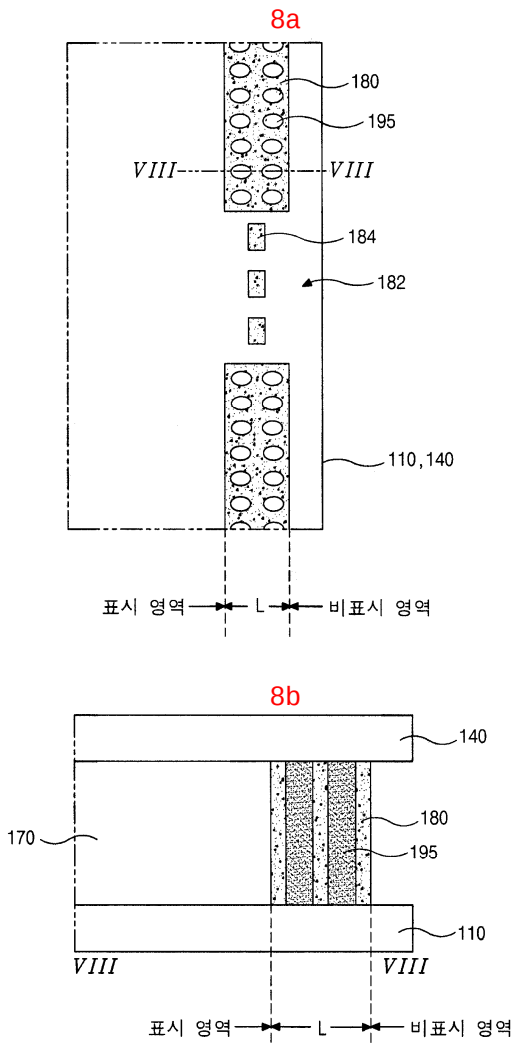


7a



7b





专利名称(译)	用于液晶显示装置的液晶面板及其制造方法		
公开(公告)号	KR1020040048172A	公开(公告)日	2004-06-07
申请号	KR1020020075956	申请日	2002-12-02
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	YOUN HAEJIN 윤해진		
发明人	윤해진		
IPC分类号	G02F1/1339		
代理人(译)	贞媛KI		
外部链接	Espacenet		

摘要(译)

本发明提供一种液晶显示器用液晶面板及其制造方法，包括由显示区域和非显示区域组成的阵列面板的多个填充物以及连接滤色器基板和显示区域的多个图案化间隔物阵列面板的内侧和滤色器基板以及沿着非显示区域边界在阵列面板之间形成的引脚配置和滤色器基板以及用于连接阵列面板的密封图案沿着非显示区域边界接受填充物。滤色器基板和液晶层被允许到阵列面板和滤色器基板之间的显示区域内侧。

