

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷ G02F 1/13	(11) (43)	2003-0081970 2003 10 22
(21)	10-2002-0020443	
(22)	2002 04 15	
(71)	.	20
(72)		1 409
(74)		
:		
(54)		

가 ,

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- 1 .
- 2 1 'A - A'' .
- 3 1 'B - B'' .
- 4 .
- 5 4 'C - C'' .
- 6a 6e 5 .

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1,51 : 2,52 :

4,54 : 6,56 :

8,58 : 10,60 :

12,62 : 14,64 :

16,66 : 18,68 :

20,70 :

가 , PC, (Thin Film Transistor : 'TFT')가

(10) 1 (20) , (4) (2) TFT , TFT (GP) (T
(DP) , (2) (4) (2) 1 2)

P1,TP2) .

TFT (2) (6) , (4) (10) , (20) (4)
(10) TFT (2)

(20) (4) (2) (20) TFT ()
() () (1) ()
) (20)

(GP) IC() () ()
(2) (GP) 2 (1) ()
(24) , (24) (12) , (12) (18) ,
(12) (18) (30) , (30) (24)
(26) (24) (2) ,
(1) (2) 1 (TP1)가 .

1 (TP1) (2) 1 (32) , 1 (32) (18)
(12) , (12) (18) , 1 (28) (18)
1 (36a) , 1 (32) (28)

(DP) IC() ()
(4) (DP) 3 (12) ()
(34) , (34) (18) , (18) (50)
(50) (34) (40) (DP)

[illegible]

TFT (52) (56), (54) (58) (96)
 (70) (70) (60) (60) , TFT (56) (64,66) TFT
 (58) (52) (54)
 (70) (70) (54) (52) (68) (68)
 (96) (60) (51) (70) TFT
 (51) () ()
 (51) () (70)
 (GP) IC(Integrated Circuit) ()
 (52) (80) (76) (GP) (74) (74) (74)
 (52) (51) (52) 1 (TP1)
 1 (TP1) (52) (52) 1 (TP1) 1 (TP1)
 (GP) (52)
 1 (TP1) (52) 1 (82) , 1 (82)
 (62) , (62) (68) 1 (68) , 1 (82)
 (62) (68) 1 (86a) , 1 (82) 1
 (78)
 (DP) IC(Integrated Circuit) ()
 (54) (DP) (84) (84) (DP)
 (100) (90) (TP2)가
 (54) (54) 2 (TP2)가
 2 (TP1) (54) (54) 2 (TP2) (TP2)
 (DP) (54) 2 (TP2)
 2 (TP2) (54) 2 (94) , 2 (94)
 (68) , 2 (94) (94) 2 (68) (92) (86b) , 2
 (86b) 2 (94)
 (DP), (GP), 1 2 (TP1,TP
 2) (104) 1 4 (102a,102b,102c,102d)
 1 (102a) (GP) (76) (104)가 ,
 (104)가 (80) 가 (104)가 , 1 (102a) (102b)
 (62) (68) 가 (80) (104)가 , 2 (62) (D
 1 (TP1) 1 (86a) 가 (102b) (102c) (104)가
 104)가 1 (68) 1 (86a) 3 (102c) (104)가
 P) (100) 가 (90) (104)가 , 3 (102c) (68) 가
 (100) (100) , 4 (102d) 2 (TP2) 2 (90)
 (104)가 , 2 (86b) 가
 (68) 2 (86b)

(104)가 1 4 (102a,102b,102c,102d) ,
 (80,86a,86b,100) 가
 (102a,102b,102c,102d) (104)가 (68), (76)
), (90), 1 2 (78,92) .

6a 6e 5 .

6a , (51) (sputtering) ,
 (Al) (Mo) 1 (82), (74) (56) .

6b , 1 (82), (74) (56) (51) (6
 2) (62) . 1 2 (62) (SiOx) (SiNx) . 1
 (62) 1 2 (Chemical Vapor Deposition) N P
 , 2 (Dry Etching)
 , 1 2
 (64) (66) .

6c , (64) (66) (62) CVD (sputteri
 ng) (Cr) (Mo) 2 (94),
 , (84) (58) (60) , (58) (60) (60) (66)
 (66) (64) (58,60) (56)

6d , 2 (94), (84), (58) (60) (51)
 (Acryl) , BCB(benzocyclobutene), PFCB(perfluorocyclobutane)
 (SiNx) (SiOx) ,
 (68), (100), (,
 96) , (80), 1 2 (86a,86b) , (80,86a,86b,96,100) (102a
 ,102b,102c,102d)가 (104)가 (102a,102b,102c,102d)

6e , (84) (sputtering) .
 - - (Indium - Tin - Oxide : ITO), - - (Indium - Zinc - Oxide : IZO) -
 - - (Indium - Tin - Zinc - Oxide : ITZO) .
 (78,92) (70), (76), (90), 1 2
 (76) (70) (68) (96) (60)
 (90) (62) (68) (80) (74)
 (78) (62) (68) (100) (84) . 1
) (78) 2 (92) (68) 2 1 (86a) 1 (82
 (92) (68) 2 (86b) 2 (94)

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 가
 , 1 2
 가

(57)

1.

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가

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2.

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7.

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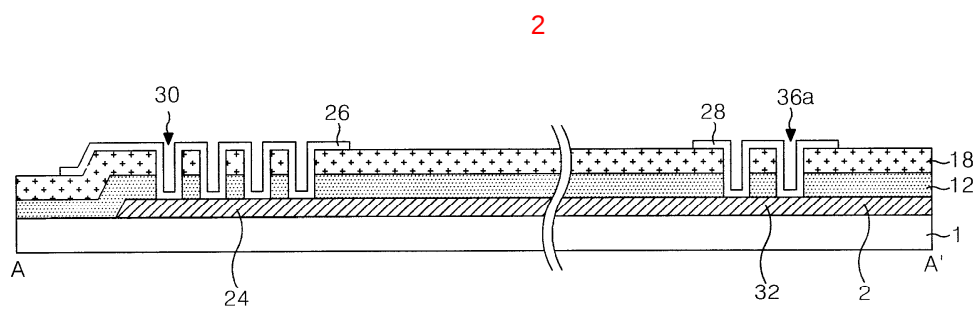
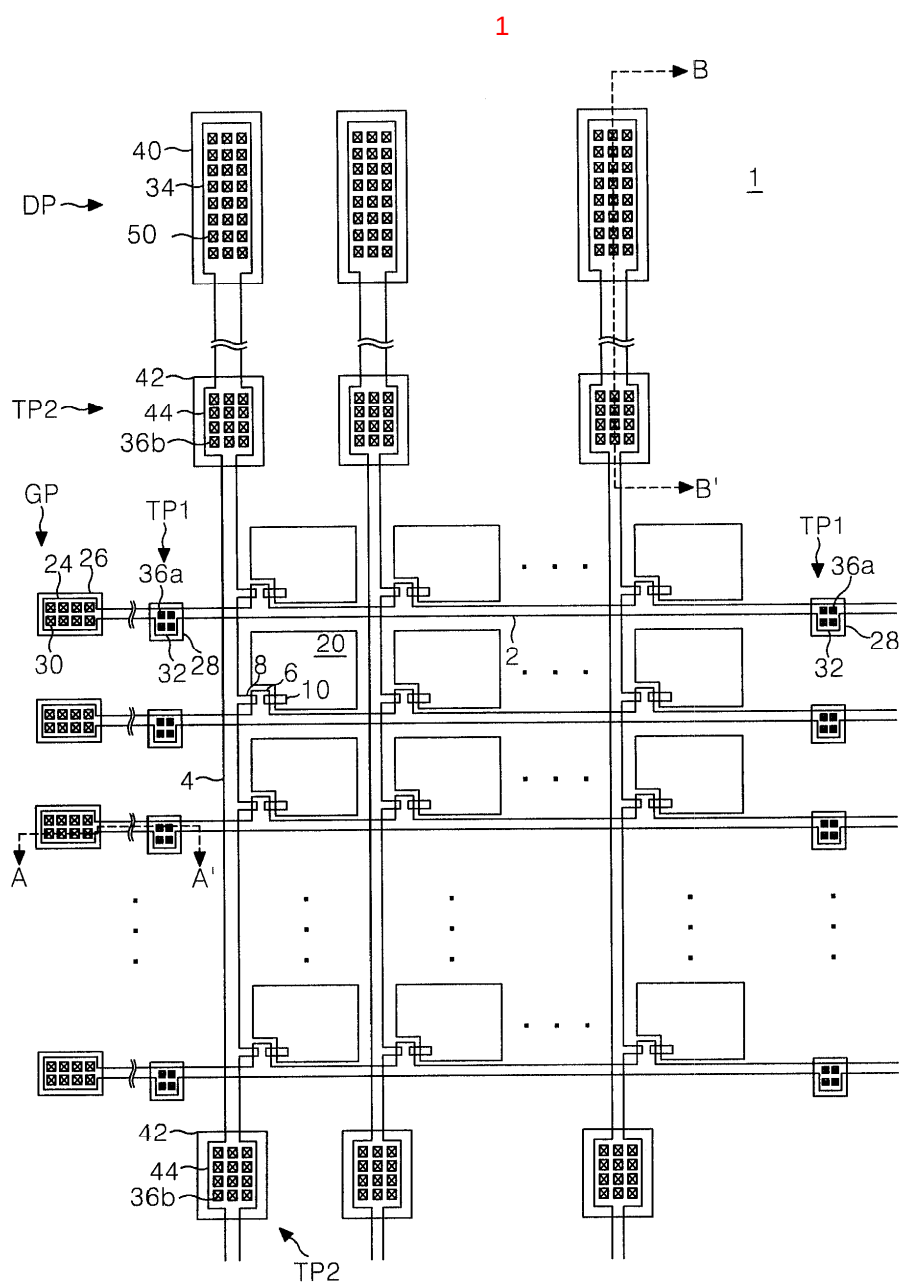
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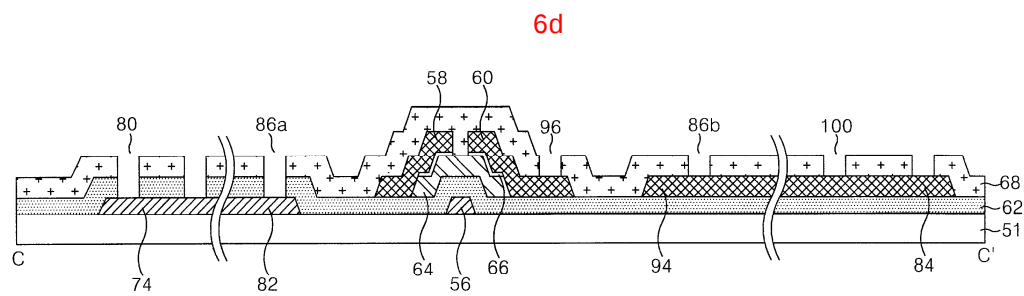
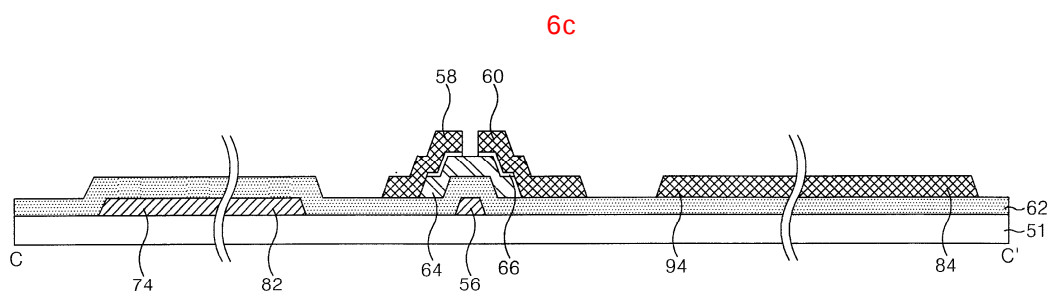
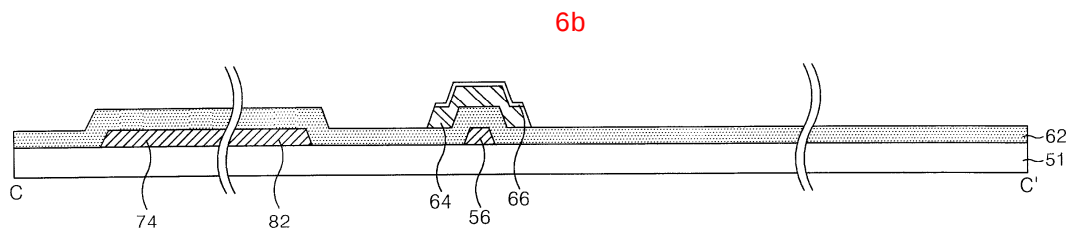
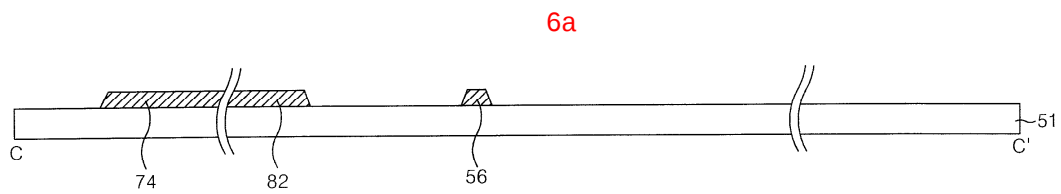
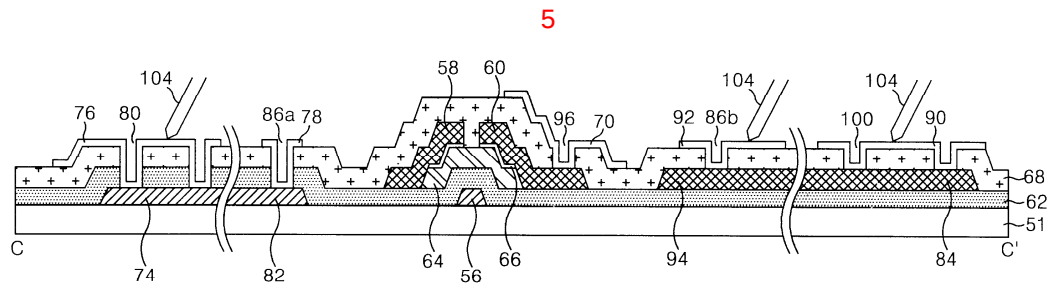
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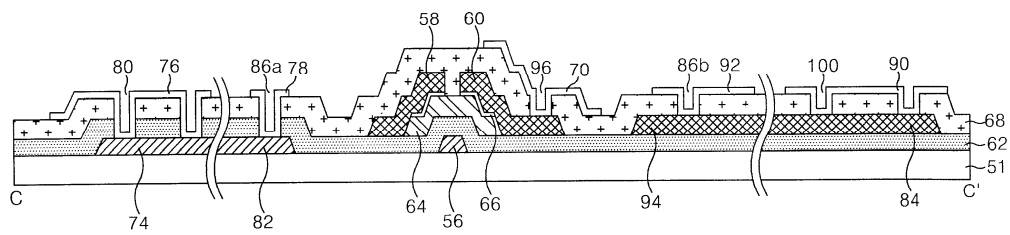
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6e



专利名称(译)	液晶显示元件		
公开(公告)号	KR1020030081970A	公开(公告)日	2003-10-22
申请号	KR1020020020443	申请日	2002-04-15
[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	LEE JUBOK		
发明人	LEE,JUBOK		
IPC分类号	G02F1/13		
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其他公开文献	KR100520824B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种能够在测试过程中防止透明导电膜断开的液晶显示装置。根据本发明的液晶显示装置包括第一测试焊盘部分：用于检查数据线的电特性，它形成在数据线和数据线的两个侧端点以及相互交叉的栅极线第二测试焊盘部分：用于检查栅极线的电特性，在栅极线的两侧端点形成第一透明导电图案：通过第一测试焊盘部分与第一接触孔和第二透明导电图案电连接通过第二测试焊盘部分和第二接触孔电连接。并且第一透明导电图案和第二透明导电图案大于测量插孔的直径，用于检查栅极线和数据线的电特性，或者除了第一和第二接触孔之外的区域的宽度是相同的。

