

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

(51) 。 Int. Cl. <sup>7</sup>  
 G02F 1/13 (11) 2002 - 0056621  
 (43) 2002 07 10

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(21) 10 - 2000 - 0086012  
 (22) 2000 12 29

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(71) .  
 , 20

(72) 1148 - 4 904 1003

(74)

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(54)

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가

가

가 가

, , , , 1  
 2 , , 1, 2 /  
 가 .

1  
2  
3  
4 3  
5a 4 - '  
5b 3 - '  
6 1  
7a 6  
7b 7a - '  
8a 2  
8b 8a - '

61a, 81 : 1 61b, 83 : 2  
61c, 85 : 3 63 : 1  
65 : 2 67 : 3  
69 : 89, 89a : 1, 2  
100a, 300a : 101, 301 :  
102, 302 : 63a, 81a : 1  
63b, 83a : 2 85a : 3

,

, 가 CRT , 가 TV

, CRT 가 , 가 , 가 , 가 . CRT 가 .

TV (超薄形)  
CRT

1) , (Color Filter) 가 , (2) 가 , (3) 가 , (4) 가 , (2)

1 (5) , (6) (1) TFT (7) (8) (4) 가 , (2)

(11) TCP(Tape Carrier Package) (12) (9) , PCB(10) (1)

TFT  
(Thin Film Transistor) 가 .

3 (unit)  
(Driver) 가 , PCB(Printed Circuit Board)  
(13)

2

2 (23) , (21) (21) , (21) 가 , (25) 가 .

al) , (23) (25) (21) (23) 가 , (25) (23) (Scan sign)  
가 .

(Thin Film Transistor: TFT) 가 , (23) (25) (23) (25)

, (21) (23) (25) (Test) (Shorting bar)  
가 .

, IPT(In Processing Test) / (Line defect), / (Point defect)  
/ IPT

3

3 , , 1 (31a) , (EVEN) 가 1 (Dp1,Dp2,...,Dpn) 2 (ODD)  
 b) , 1 (31a) 2 (31b) 1 (33a) 2 (33b)

(EVEN) (ODD) (Gp1,Gp2,...) 3 (33c) , 4 (31d) , 3 (33c) 3 (31c) 4  
 가 3 가 4 (33d) ,  
 (100) (G1,G2,...,Gm)  
 (D1,D2,...,Dn)

4 3 1 , 5a 4 - - -

4 5a , , (100a) , (100a) 1 (101) , (33a) 1 (31a) 1 (101) , 1 (33a) 1 (33a)  
 (101) , 1 (33a) , (102) , (102) , (37)

, 4 " 31b" 2

, 5b 3 - - , , 3  
 5b , , (100a) , (100a) 3 (33c) , (102) , (101) , (33c) 3 (101) , (33c) 3 (102) ,  
 (33c) (102) (101) (37)

가 2 1 (33a) , 1 (31a) 2 (31b)  
 가 2 (33b) 가 3 , 가 3 (33c) , 1 (31a) 2 (31b)  
 3 (31c) 4 (31d) 가 4 (33d) 가

, (Point defect) , IPT / (Line defect),

) 가 , 가 / ( ) .

, , , 가 .

가  
가 가 .

2 , , 1  
가 1, 2 / .

1  
2 , 3  
1, 2 3 , 2  
/ , 가 .

1  
가 / , , .

6 1 .

6 , (61a) , ( EVEN ) 1 ( Dp1,Dp2,...,Dpn ) ( ODD ) ( Dp2,Dp4,... ) 2 ( Dp1,Dp3,... )  
1 (61a) 2 (61b) / ,  
가 1 (63) .

,

(Gp2,Gp4,...)

61d) / 4 (61d) , 3 (Gp1,Gp3,...)) 3 (61c) , 3 (

가 3 (67) . 2 (65) , 4 (61d)

,

가 , /

,

IPT

가 , / 2

(65) 3 (67) 가

,

7a 6 1 , 7b 7a

7a 7b , 1 (63) (200a) , (200a) 1 1 (200a) 1

(61a) 1 (63a) , (201) (201) (63a) (63a) (200a) 2

(61b) 2 (63b) , (63b) (63b) (63b) (63a) (63a) 2

1 (63a) 2 (63b) (63b) (202) , (69)

1 (63a) 2 (63b) (63b) (69)

(69) , TCP(Tape Carrier Package)

,

1 (61a) 1 (63a) , 1 (63a) , 1 (61a) 2 (61a)

61b) 2 (63b) (201) (201) (63a) (63a) 2

(61b) (63b) (201) (201) . . . .

,

1 (63b) / (63) (69) 1 (63a) 2 (61a) 2 (61b) 가 (61b) 가 (69)

(61a) ,

TFT - LCD가

1 (61a) 2 / (61b) , / ,

가 . .

,

8a 2 ,

2 (R), (G), (B) 1  
 (83) , (B) (81) , (G)  
 2 3 (85) 3 (81a) 3 (85a) 2 (83) 2 (83)

1, 2 (81a,83a) 3 (85a) (85a) . (Passivation)  
 , 1 (81) 3 (85) 1 (81a) 1 (81)

, 1 (81) 2 (83) 1 (81a) 2 (300a) 1 (301) 1 (81)  
 2 (83) . 2 (85) 3 (85a) 1 (81) 3 (85a) 2 (89a)

2 (89a) 3 (85a) 3 (85) /  
 2 (83) 2 (83) 3 (85a) 2 (83) 가 3 /

8b 8a - ' , (300a) 1 (81a) , 1  
 (81a) (85a) 2 (83a) 2 (83a) (83a) 3

3 (85a) (81a,83a) 3 (85a) (302) 1 (302) 1, 2  
 (81a,83a) 3 (85a) 가 1 (89)

, 2 R, G, B /  
 가

, / ,  
 가 ,  
 , / ,  
 가

(Margin) 가 가

(57)

1.

;

1

2

,

1, 2

/

가

2.

1 ,

1

1

,

2

2

,

1

2

.

3.

2 ,

1

2

.

4.

3 ,

1

,

2

.

5.

2 ,

2

1

2

가

6.

1 ,

1

2

.

7.

6 ,

1

1

,

2

2

.

8.

1 ,

4

3

9.

8 , 3 가 가 4

10.

; 1 ; 1 ;

2 2 ;

3 3 ;

1, 2 3 /

가

11.

10 , 1 1 ,

2 2 ,

3 3 ,

1, 2 3

12.

10 , 1, 3 2

13.

11 , 1 2, 3

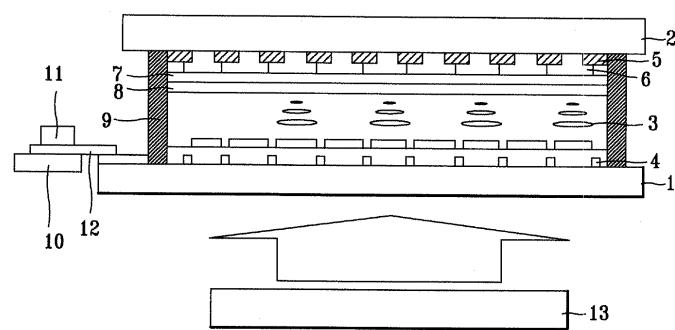
14.

11 , 3 1, 2 3  
가

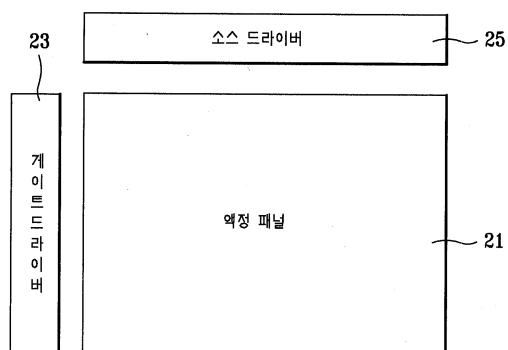
15.

11 , 3 3

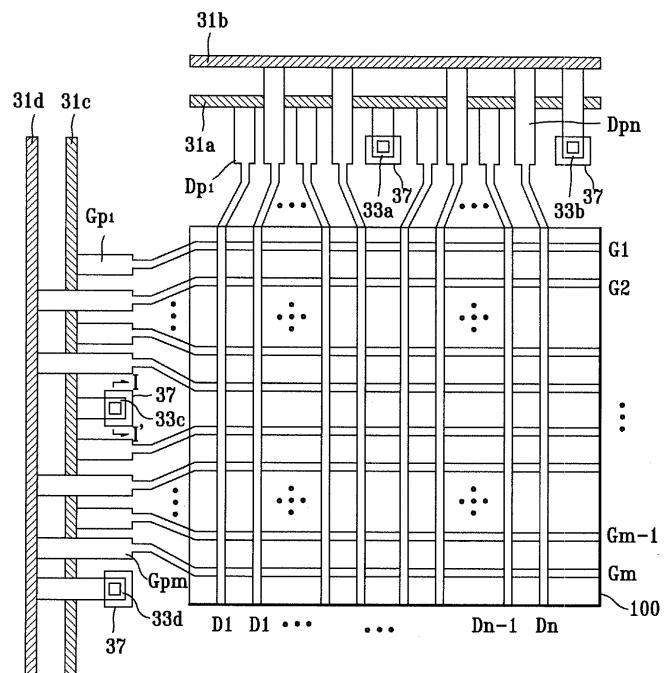
1



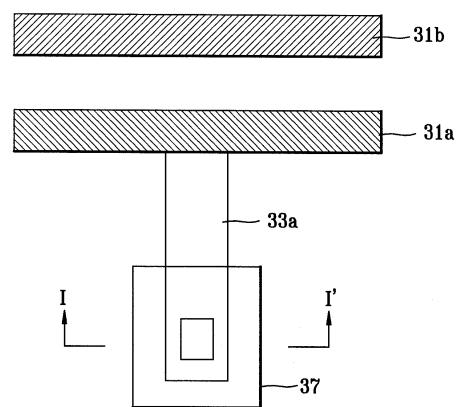
2



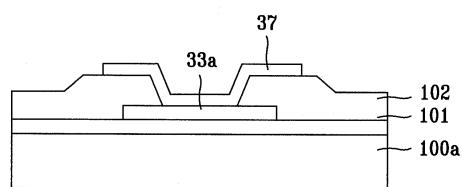
3



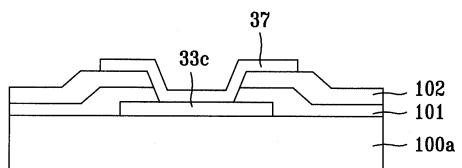
4



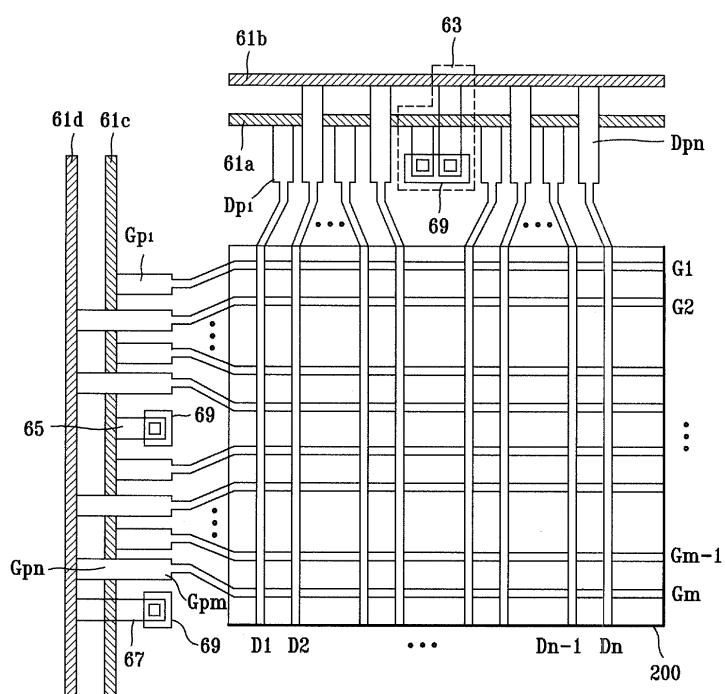
5a



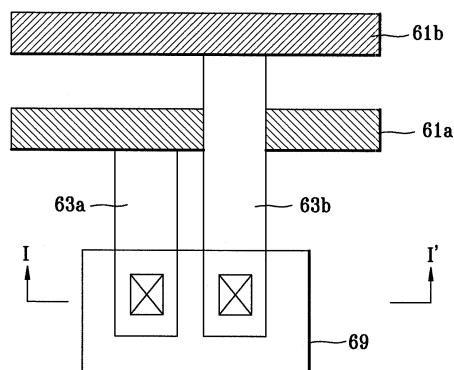
5b



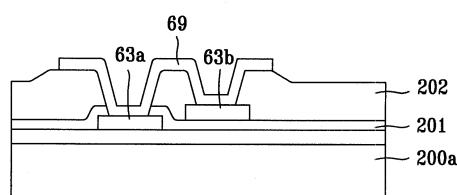
6



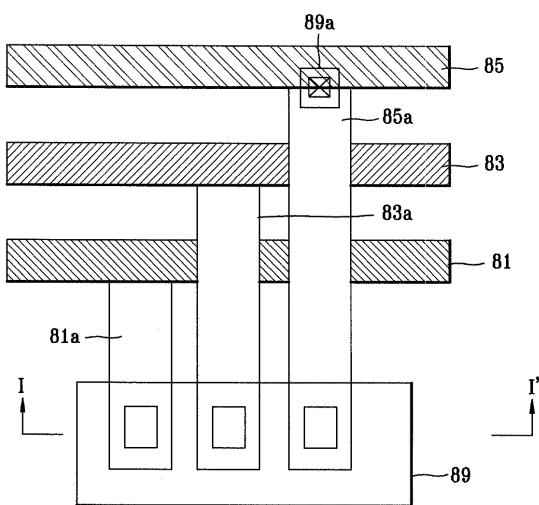
7a



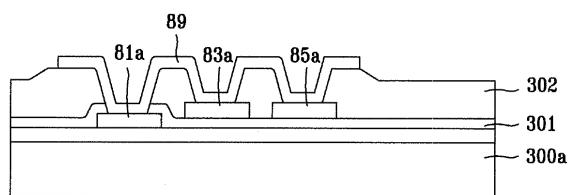
7b



8a



8b



专利名称(译)	液晶显示器的测试垫		
公开(公告)号	<a href="#">KR1020020056621A</a>	公开(公告)日	2002-07-10
申请号	KR1020000086012	申请日	2000-12-29
[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	KIM IKSOO 김익수		
发明人	김익수		
IPC分类号	G02F1/1345 G02F1/13		
CPC分类号	G02F1/1345 G02F1/1309 G02F2001/136254		
代理人(译)	金勇 新昌		
其他公开文献	KR100769160B1		
外部链接	<a href="#">Espacenet</a>		

### 摘要(译)

本发明涉及一种测试垫，其授权奇数数据焊盘中的电信号，并通过定位在一个地方授权的测试焊盘并实现低电阻来提供能够使测试更加正确的液晶显示器的测试焊盘。短路棒电信号到偶数据垫。并且，本发明的液晶显示器的测试焊盘形成在液晶面板中，被定义为单元区域和焊盘区域以及连接在多条数据线之间的第一短路条到奇数计数数据布线和第二短路Bawa连接甚至数据布线，以及垫区域的一个位置。并且包括第一测试焊盘和授权用于第二短路棒中的开/关测试的信号电压的测试焊盘可以包括连接到第一短路棒的第一导电图案，连接到第二短路的第二导电图案条，和透明导电膜，电连接第一导电图案和第二导电图案。短路f和测试垫。

