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(43)

2002 - 0047535
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10 - 2000 - 0076006
2000 12 13

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1

1

2

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1

4a

,

1

2 1 - '

3

4a 1

4b 4a

5a 4b - '

5b 4b - '

5c 4b - '

6a 6c 1

7 2

8a 7 - '

8b 7 - '

9 3

41 : 42 :

45 : 47 :

100 : 100a :

,

.

가
 , CRT(cathod ray tube)
 , 가 CRT (flat panel display)
 , 가
 (liquid crystal display : LCD), (e
 lectro luminescent display : ELD), (field emission display : FED), (
 plasma display panel : PDP) 가 , , ,
 , , , , (cost)
 CRT 가 CRT
 LCD 가 (trace) (LCD)
 , TFT - LCD 가 , 가 ,
 , (parameter)
 가
 ,
 1 , 2 1 - '
 1 2 , (C) (P)
 (C) 1 (1) (G1,G2,...,Gn) (D1,D2,...,Dn)
 2,...,Gn) (D1,D2,...,Dn) (3) 가 (G1,G
 (P) IC (G1,G2,...,Gn)
 (Gp1,Gp2,...,Gpn) , IC (D1,D2,...,
 Dn) (Dp1,Dp2,...,Dpn)
 , 2
 (3) 가 R(), G(), B()
 , 2
 2 (P) 1 (1) (C) (D1,D2,D3)
 (Dp1,Dp2,Dp3)가 (2)
 (Dp1,Dp2,Dp3) (4) (Dp1,Dp2,Dp3)
 (6) IC TCP COF

Package) (P) 50 μ m (D1,D2,D3) (D1 D2) (Pitch) ,
가 (6) TCP(Tape Carrier
(" W") .

, 200PPI(Pixel Per Inch)
가 50 μ m 42 μ m 가 2 200PPI
가 .

, 가
, (Double Bank) .

, 3 , (Dp1,Dp3,...,Dpn - 1 ;n=2,4,6,...)
, (Dp2,Dp4,...,Dpn) ()
(P) .

, (G1,G2,...,Gn) (D1,D2,...,Dn) ,
(D1,D2,...,Dn) (Dp1,Dp2,Dp3,...,Dpn - 1,Dpn)
.

.

, 1 (Single Bank) , (Pitch) 가 200PPI
가 .

, 3 (Double Bank) , (Modu
le) .

, (Compact) 가가 가
.

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, 1 ,
1 1 2
, 1
, 1
, 1
1 2 .

가 ,

가

1
가

가

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()가

1

2

1

2

가

1

2

가

4a 1 (" A")

5b 4b - ' , 5c 4b - ' 5a 4b - ' 4b 4a

1 4a , (41) , (C) (G1,G2,...,Gn)

(C) (P)
(G1,G2,...,Gn; n=2,4,6,...) ,
(Gp1,Gp2,...,Gpn)

, (G1,G2,...,Gn) (D1,D2,...,Dn) ,
 (D1,D2,...,Dn) (D1,D3,...,Dn - 1)
 1 (Dp1,Dp3,...,Dpn - 1) , (D2,D4,...,Dn) 1
 (Dp1,Dp3,...,Dpn - 1) (D1,D2,...,Dn) 1
 (Dp1,Dp3,...,Dpn - 1) 2 (Dp2,Dp4,...,Dpn) ,
 TCP(Tape Carrier Package) COF(Chip On Film)
 (51) ,
 " 51a" 1 , (61)
 " 51b" 2 ,
 (61) " 51c" 3 .
 4b , (D2) (C) ,
 (D2) (61) (D1) (P)
 , (61) 1 (Dp1) .
 4a 1 (Dp1,Dp3,...,Dpn - 1) 2 (Dp2,Dp4,...,Dpn) ,
 , 1 (Dp1,Dp3,...,Dpn - 1)
 (D1,D2,...,Dn) 2 . (Pitc
 h) 가 가 .
 , 1 (Dp1,Dp3,Dpn - 1) (D1,D3,...,Dn - 1)
 , (D1,D3,...,Dn - 1) (100) 1 (51a) 가 , 2
 (Dp2,Dp4,...,Dpn) (D2,D4,...,Dn) (100a) (C) , (6
 1) (D2,D4,...,Dn) (100a) (overlap) 1
 (Dp1,Dp3,...,Dpn - 1) 1 (Dp1,Dp3,...,Dpn - 1)
 .
 , (D2,D4,...,Dn) (100a) (61) 2 (51b)
 , (61) 3 (51c) .
 , 1, 2, 3 (51a,51b,51c) (47) .
 5a 5c .
 5a 5c , 1 (41) (Gn)
 (61) , (61) 1 (41) (43) ,
 (43) (Gn) (D2)
 (D2) (D1) (Dp1) .
 (D2) (Dp1) (100) 1 (45) , (45)
 2) (100a) (Dp1) (61) 1 (51a) , (51b) (D
 (61) 3 (51c) . 2

1 6a 6c

6a 1 (41) (G1,G2,...,Gn) (71),
(61)

(61) (P) (P) (C)

6b (G1,G2,...,Gn) (61)
(G1,G2,...,Gn) (71) (72) (S/D)

(D1,D2,D3,...,Dn) / (S/D)

(D1,D2,D3,...,Dn), / (S/D)
(D1,D3,...,Dn - 1) (100) ,
(100a) (61) (61) 가

6c (G1,G2,...,Gn) (D1,D2,...,Dn)
(47) (D1,D3,...,Dn - 1) (100)
1 (51a) , (D2,D4,...,Dn) (100a) (61)
2 (51b) , (61) 3
(51c) 1

- 2 -

7 2 , 1

1 (61) (61) (D1,D3,...,Dn - 1) 1
(Dp1,Dp3,...,Dpn - 1) 가 , 2 (61) 1
(Dp1,Dp3,...,Dpn - 1)

(61) 1 (Dp1,Dp3,...,Dpn - 1) 2 (Dp2,Dp4,...,Dpn) 1 (Dp
1,Dp3,...,Dpn - 1)

2 1 (Fine Pitch)
(61) 1 2

8a 7 - ' , 8b 7 - ' .

8a 8b , 1 (41) (C)
(g1,G2,...,Gn) , (P) (61)

(61) (42) , (42)

(D1) (45) (D1) (100)
 1 (51a) (61) (D2) 2
 (51b) (61) 3 (51c)

- 3 -

9 3 .

, 1, 2 ()
 , 3 ,

TCP(Tape Carrier Package) COF(Chip On Film)

3 , ,
 .

(Fine Pitch)
 가 .

, 가 .

, (Fine Pitch) 가 가 .

, 가 (Compact) 가 .

(57)

1.

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1 ;

1

2

2.

1 , 2 ,

1 ,

3.

1 , 2 ,

1 ,

4.

3 , 1

5.

3 ,

6.

2 3 ,

7.

2 3 ,

8.

2 , 1

9.

2 ,

10.

1 , 1 2

11.

1 , 가

12.

1 , .

13.

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, 가

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14.

13 ,

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15.

13 , 1 2

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16.

13 , 가

가

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17.

13 , 가

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18.

17 ,

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19.

1 ;

1 ;

1 , 1

2

20.

19 , 1

21.

19 , 1 2 ,

가 1 , 가

3 , 2 , 가

1, 2, 3 1 ,

3 2 ,

22.

19 ,

23.

20 , ,

24.

21 , 1, 2 3

25.

1 ;

가 ;

가 ;

26.

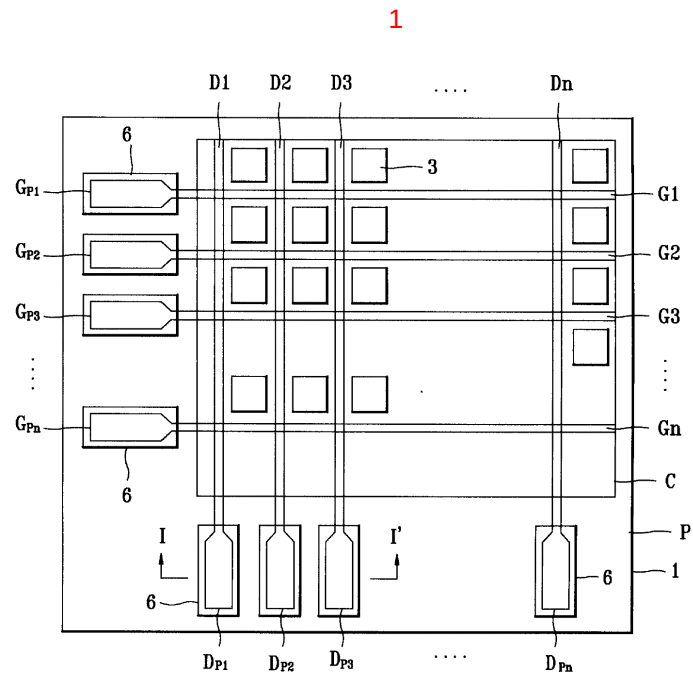
25

가

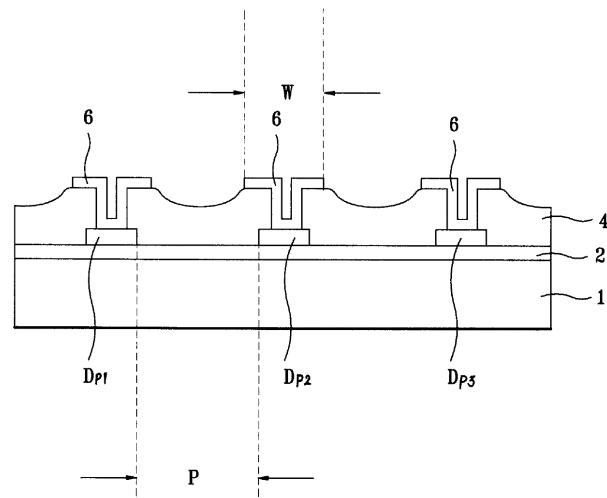
가

27.

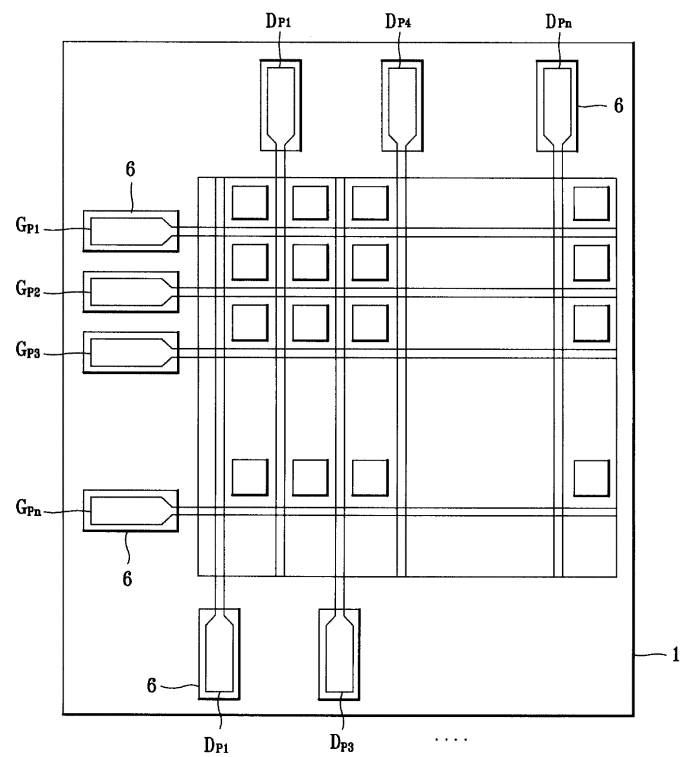
25



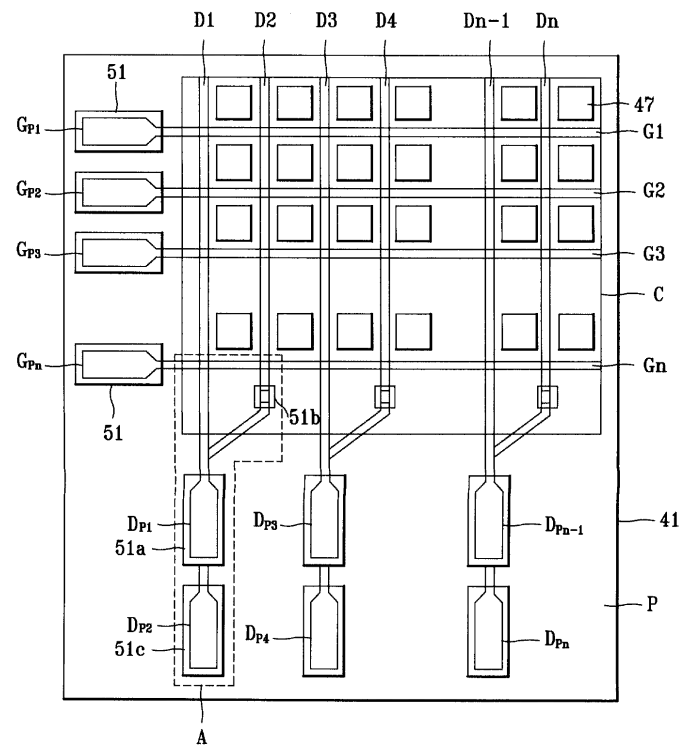
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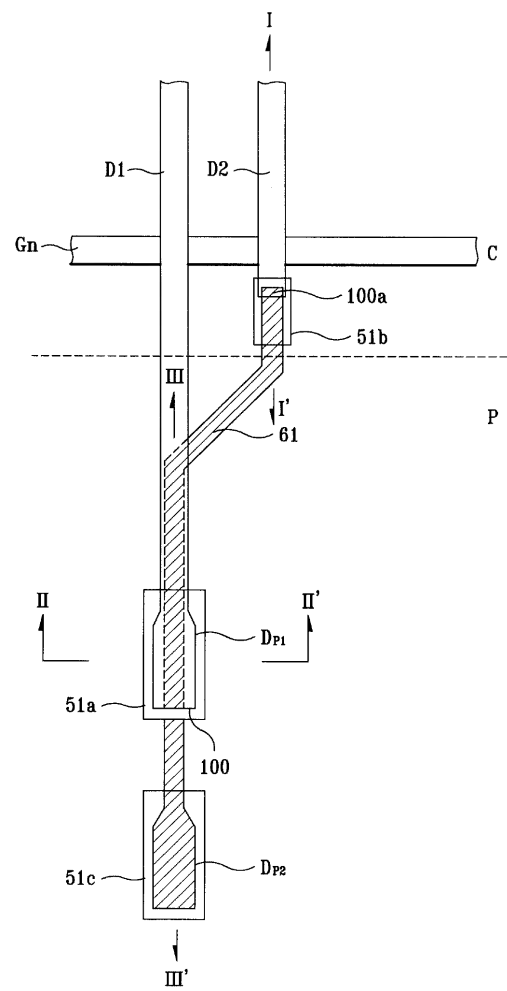
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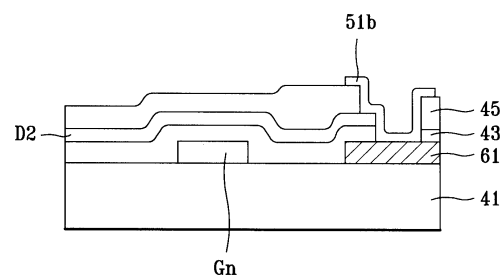
4a



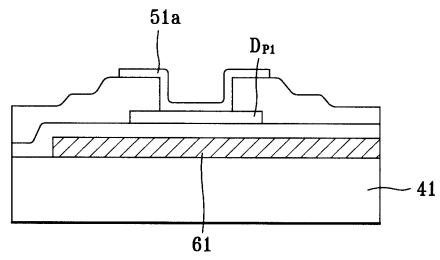
4b



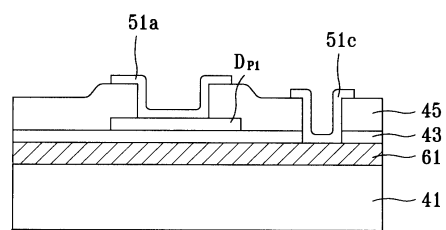
5a



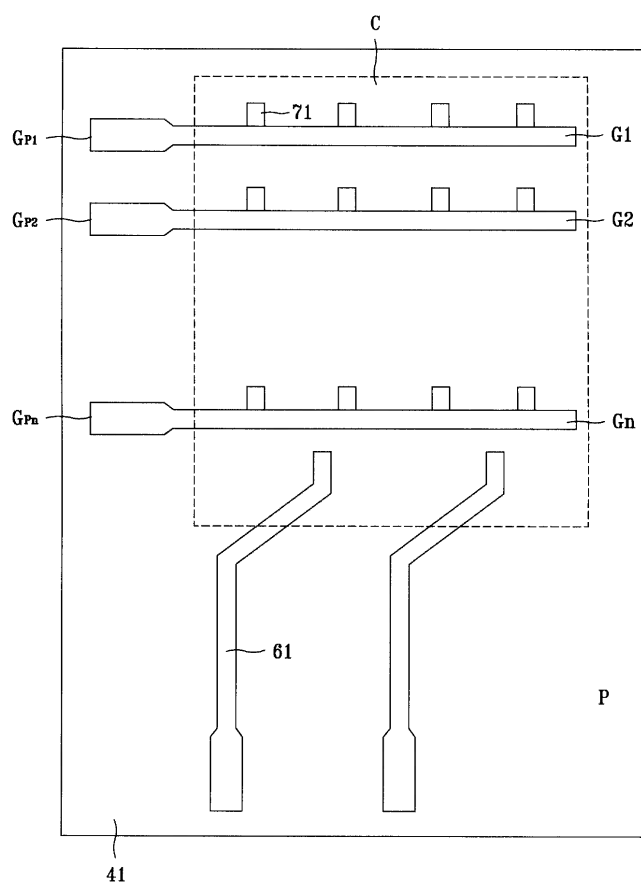
5b



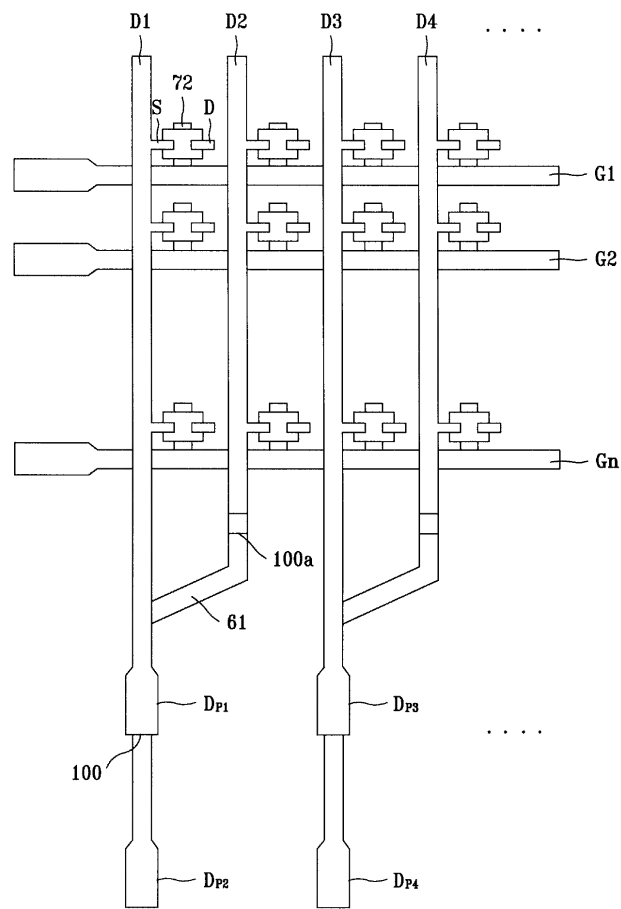
5c



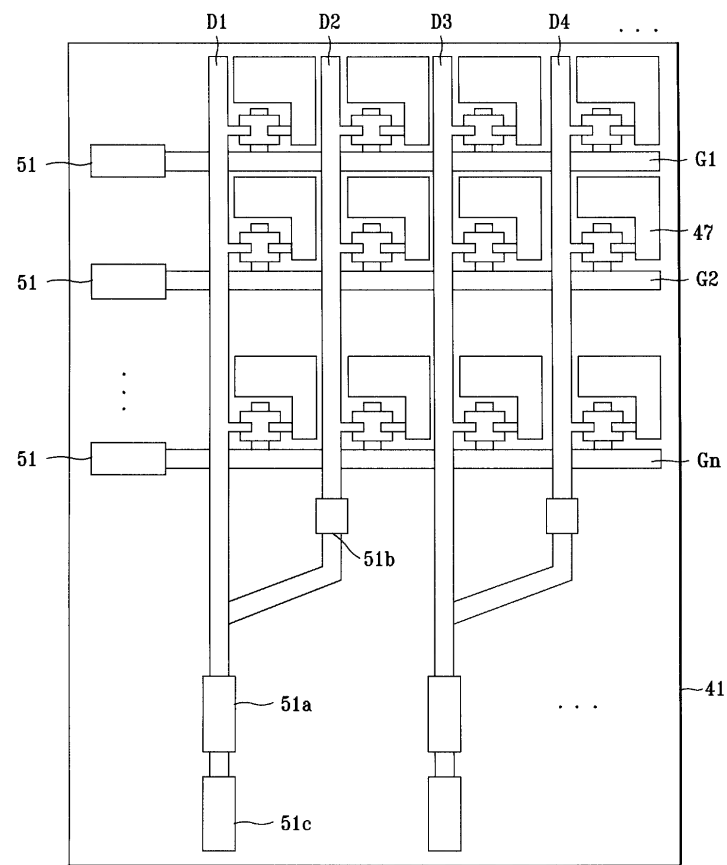
6a



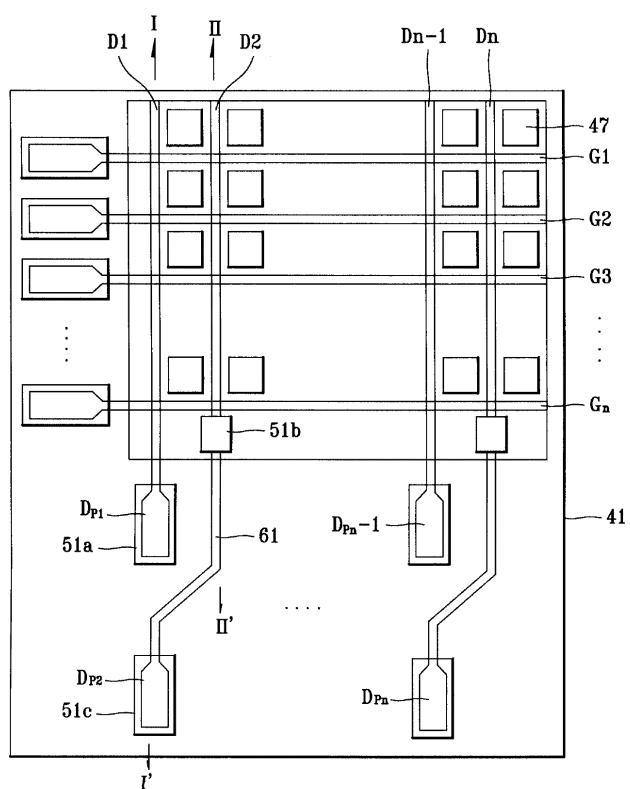
6b



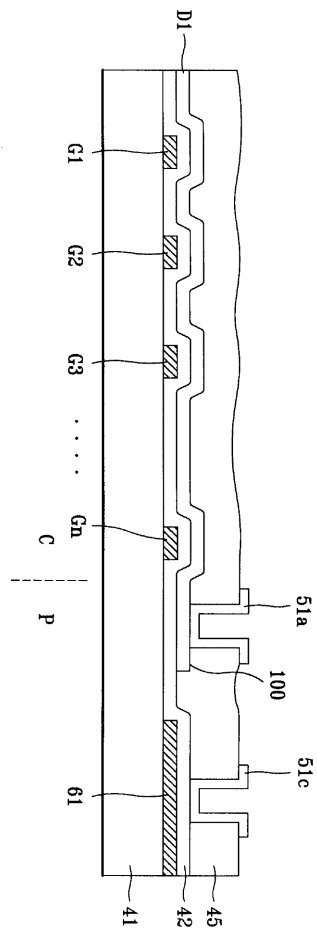
6c



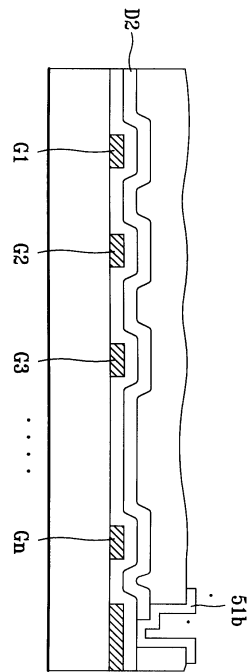
7

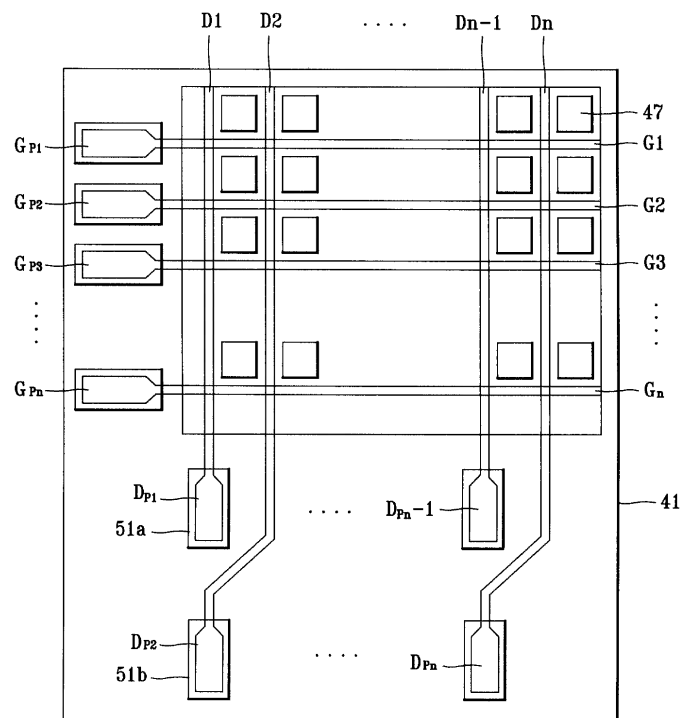


8a



8b





专利名称(译)	液晶显示面板及其制造方法		
公开(公告)号	KR1020020047535A	公开(公告)日	2002-06-22
申请号	KR1020000076006	申请日	2000-12-13
[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 WOOHYUN 김우현 YOO HONGSUK 유홍석		
发明人	김우현 유홍석		
IPC分类号	G02F1/1362 G02F1/1368 G02F1/1345 G09F9/30 G02F1/133 G09F9/35		
CPC分类号	G02F1/13458 G02F1/1345		
代理人(译)	金勇 新昌		
其他公开文献	KR100390456B1		
外部链接	Espacenet		

摘要(译)

本发明涉及提供满足高分辨率的大面积液晶显示面板及其制造方法，降低了像素间距。并且，本发明的液晶显示面板形成在绝缘基板中，被定义为单元区域和焊盘区域以及多个栅极布线和数据线以及交叉布置在单元区域中并限定像素区域的焊盘区域。并且当在数据线之间连接到从奇数计数数据布线延伸并连接到偶数数据布线的第二焊盘时，它包括与第一焊盘成一直线的第二焊盘沿着纵向方向布置在第一焊盘的下部中数据线。垫和接线。

