

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl. <sup>7</sup>  
G02F 1/133

(45)  
(11)  
(24)

2002 09 12  
10 - 0352566  
2002 08 30

(21)  
(22)

10 - 2000 - 0004419  
2000 01 29

(65)  
(43)

2000 - 0057830  
2000 09 25

(30)

1999 - 022517

1999 01 29

(JP)

(73)

가 가

5 7 1

(72)

5 7 1 가 가

5 7 1 가 가

(74)

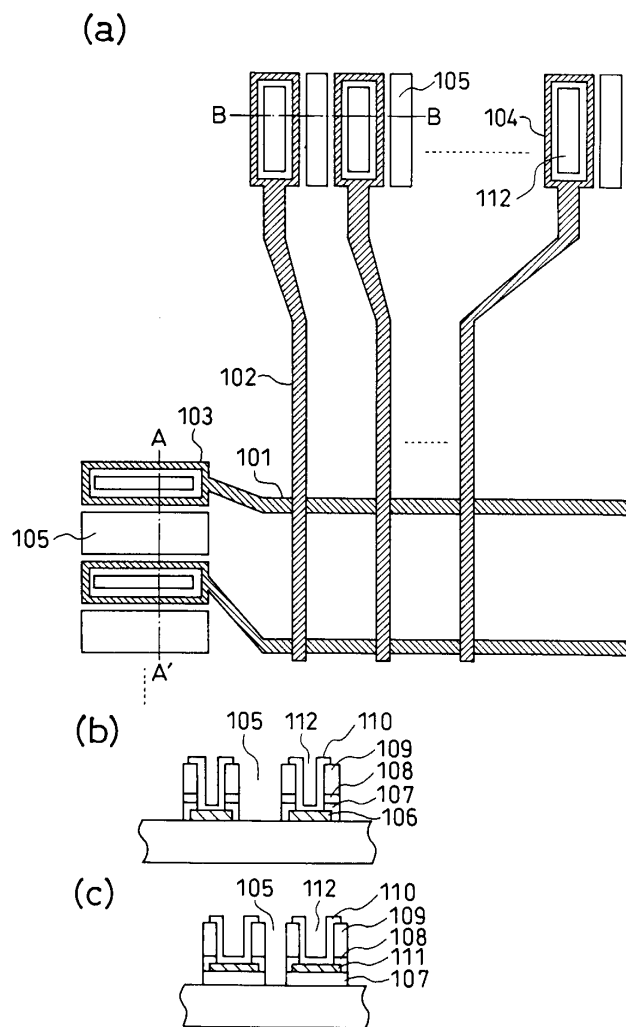
:

(54)

TAB , , ACF

, ACF

TAB .



, TFT , , TAB

1a 1b 1 1a , 1b 1c A  
- A' B-B'

21a 2b 1 2a , 2b  
A-A'

3a, 3b, 3c                      2                      ,    3a                      ,  
 3b              3c    A - A'    B - B'                      .

4a, 4b, 4c                      3                      ,    4a                      ,  
 4b              4c    A - A'    B - B'                      .

5a, 5b              TEG                      .

6a, 6b                      가                      .

7a, 7b              TEG                      .

8              TEG                      .

9              TEG                      .

10              TEG                      .

11a, 11b                      .

12a, 12b                      .

13a, 13b, 13c                      .

14a, 14b                      5641974                      .

15a, 15b, 15c, 15d                      9 - 323423                      .

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101, 301, 401 :

102, 302, 402 :

103, 303, 403 :

404, 304, 404 :

105 :

106, 306, 406 :

107, 307, 407 :

108, 308, 408 :

109, 309, 409 :

110, 310, 410 :

111, 311, 411 :

11a, 11b  
11b TFT 가 . , 11a ,

(TFT) (1101) ( CF  
) (1102) 가 , (TN) .  
TFT (1101) (1106) 가 , (1106)  
(TFT) (1109) .  
(1107) TFT , 가 (1108)  
, TFT .

TFT (1101) (1110)가 ,  
(TAB: taped automated bonding) (1103) .

가 , TAB(1103) (1104) . CF (1102)  
, RGB 가 .

12a, 12b

, TFT (1215) TFT(1203)가 , TFT(1203)  
(1201) (1206), (1206) (1209),  
(1209) (1202) (1208), (12  
07), (1210), (1204)  
(1207) (1205) .

TAB

13a, 13b, 13c , 13a , 13b  
13c A - A' B - B' .

(1303) (1306) ,  
(1312) , (1310) ,

(1304) (1311) , ,  
 (1312) , (1310) , ,  
 .  
 , 가 (ACF) 가  
 가 TAB .  
 TFT , 200 400nm SiN ,  
 .  
 , 5,641,974  
 .  
 , , 2  
 4 $\mu$ m .  
 14a 14b .  
 (1410) (1411)  
 (1410) , (1404) .  
 , (post baking) .  
 , (1405) , TFT (1407) .  
 5,641,974 , ,  
 .  
 가 , 가 , 가  
 가 , 가 .  
 9 - 323423  
 2 . 15a, 15b, 15c, 15d  
 .  
 ( 15a).  
 , ( 15b).  
 , ( 15c).  
 , ( 15d).  
 , 가 ,  
 .  
 6a, 6b TAB(608) (601)가  
 , 2 4 $\mu$ m .  
 , 2 4 $\mu$ m ,  
 (TCP) , TCP  
 .

5,641,974

가 .

9 - 323423 2

TAB

TAB

가

가,

(510) , 5a 5b (503) TEG (502) (510) (504) (ACF) (506) ,

L

8

가 40 $\mu$ m  
가 15 $\mu$ m

가 가  
가 40 $\mu$ m

9

TAB

가 40 $\mu$ m  
80 $\mu$ m 100k

TAB

가

가 , TCP

TCP , 가 , 6 ,

50 100 $\mu$ m 가 50 $\mu$ m  
(positioning) ,

가

가 , (505) (504) 10 50 $\mu$ m, 3 20  
(504) (505) 5b

7a 7b (704)  
(703)

(706) 가 TAB

S1 S2 , 10 S1/S2

0.01 0.3 , 0.05 0.3 , 0.3  
가 가

0.01 가 , (704)  
가

ACF , 7b

2a 2b 1

(TFT )(201), (CF )(202),  
TAB(203)

TAB(203) 2 2 (204) , TAB

TAB TAB (209) (210) 가 ,

TAB(203) ACF(205) TFT (208)

TFT

9 - 323423

3 $\mu\text{m}$  . TFT

T

AB

1 TAB

0) (103) (106), (107), (108), (109) (110)  
 , (106) (110) (112)

(103) 70 × 200 $\mu\text{m}$  , 100 $\mu\text{m}$  ,  
 50 × 150 $\mu\text{m}$  .

80 × 200 $\mu\text{m}$  (105)

가 10 $\mu\text{m}$ 가 , ACF (112)  
 (105)

(104) (111), (108), (109), (110)  
 (111) (110) (112)

(104) (111) 70 × 200 $\mu\text{m}$  , 50 $\mu\text{m}$  ,  
 (112) 50 × 150 $\mu\text{m}$  . 30 × 200 $\mu\text{m}$  (105)

TAB (ACF)

5 $\mu\text{m}$  , 10,000/mm<sup>2</sup> . TAB

(105)

3 $\mu\text{m}$  , 100

TCP

3a, 3b, 3c TAB

1

0) (303) (306), (307), (308), (309) (310)  
 , (306) (310)

(306) (310) 1

10 × 10 $\mu\text{m}$  (305) (304) (306)  
 (311)

TAB

0.1 , TCP 100 ,



4a, 4b, 4c

TAB

(407), (408), (409), (410), (403), (406),  
(410) (405)

1

TAB

30 × 20μm

TAB

0.6

TAB

100

가

0.01

0.3

, 1

3

CP

TCP

0.01 0.3  
가

가

(57)

1.

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3.

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4.

<sup>2</sup>  
0.01      ,  
0.3

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5.

4      ,

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6.

1      ,      ,

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7.

2      ,      ,

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8.

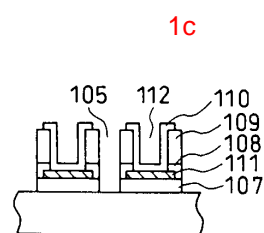
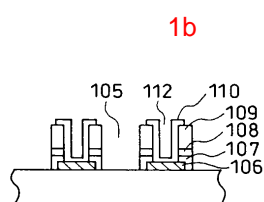
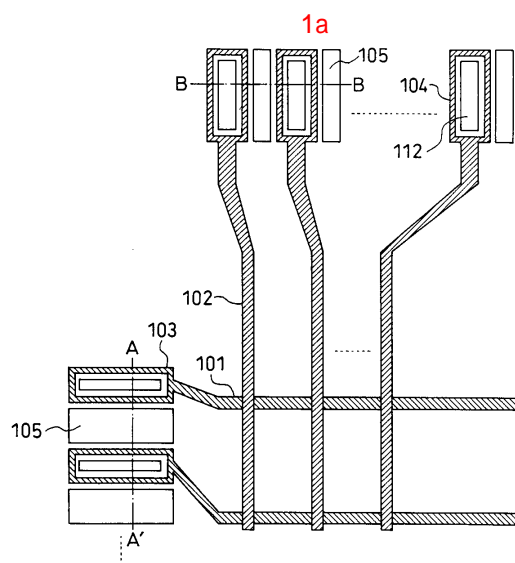
9.

10.

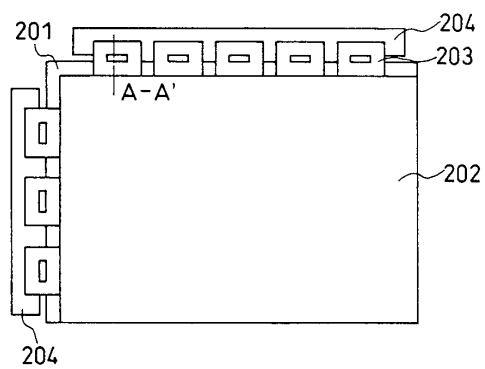
11.

12.

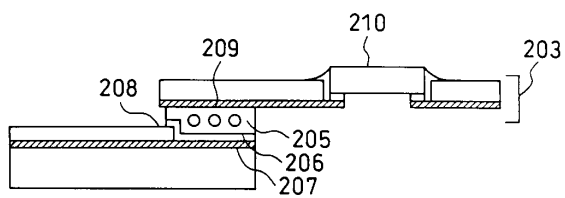
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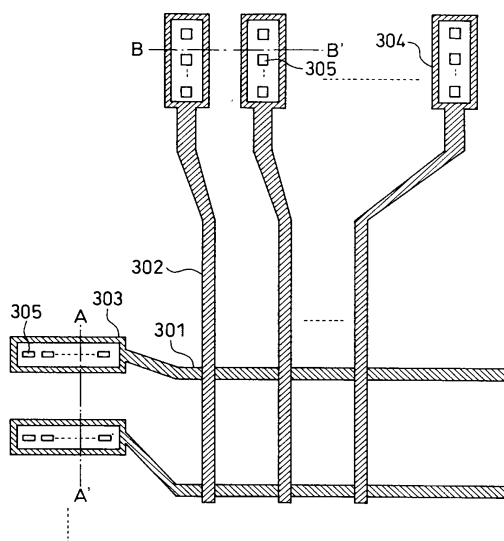
2a



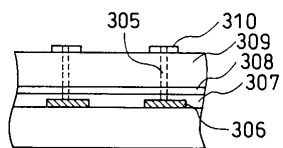
2b



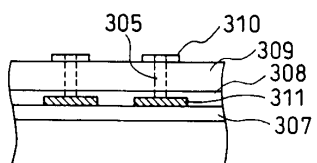
3a



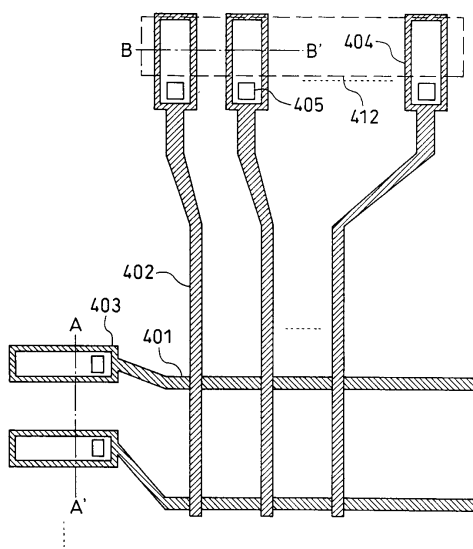
3b



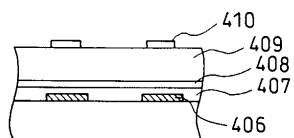
3c



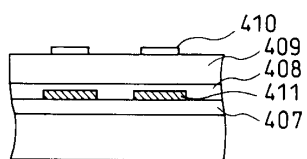
4a



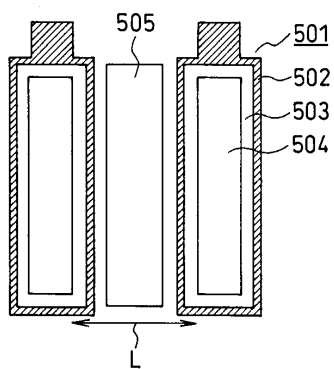
4b



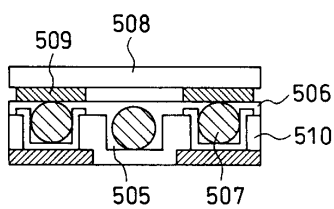
4c



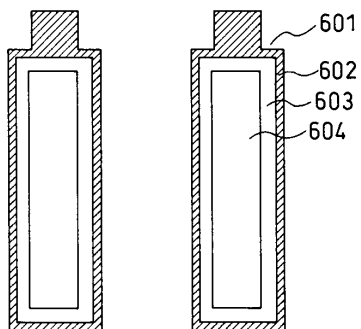
5a



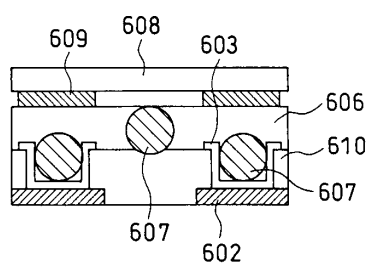
5b



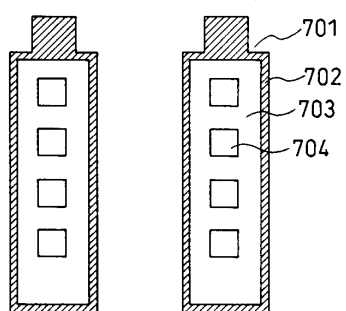
6a



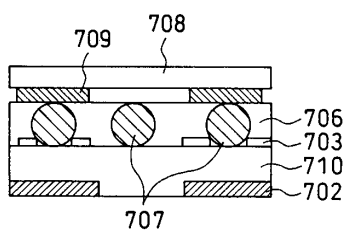
6b



7a

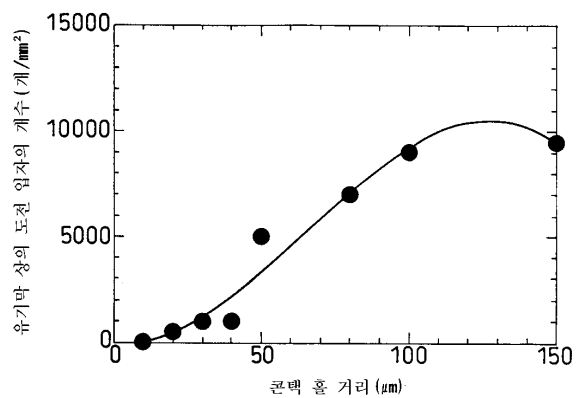


7b

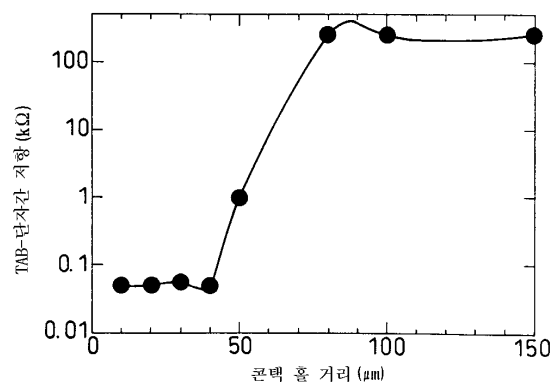




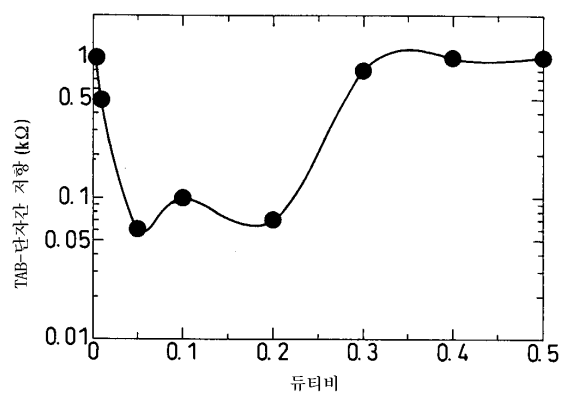
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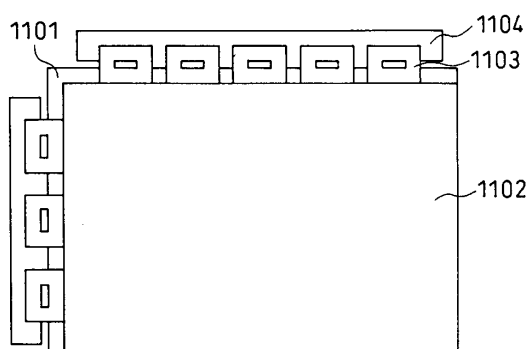
9



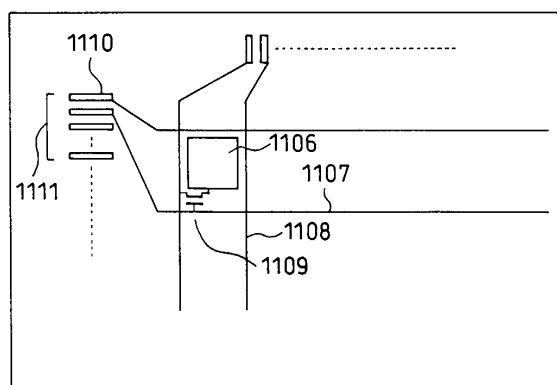
10



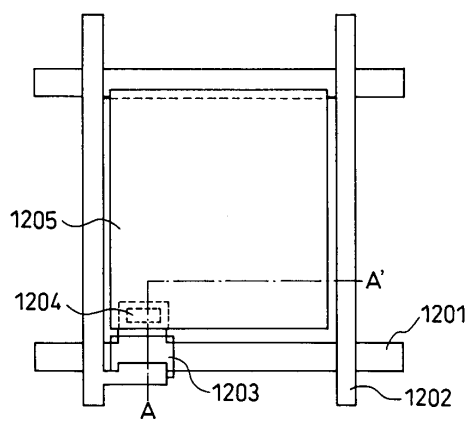
11a



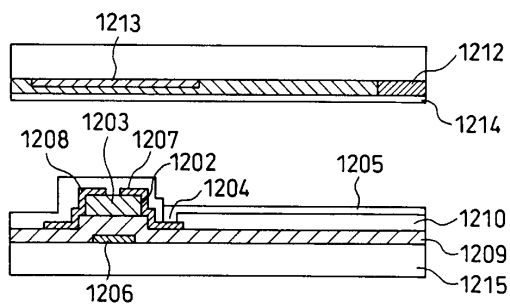
11b



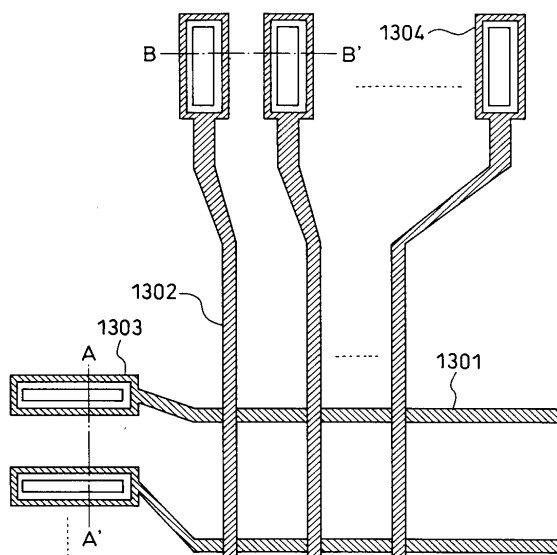
12a



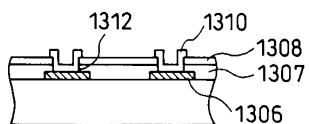
12b



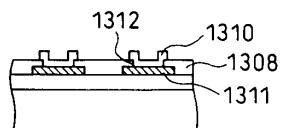
13a



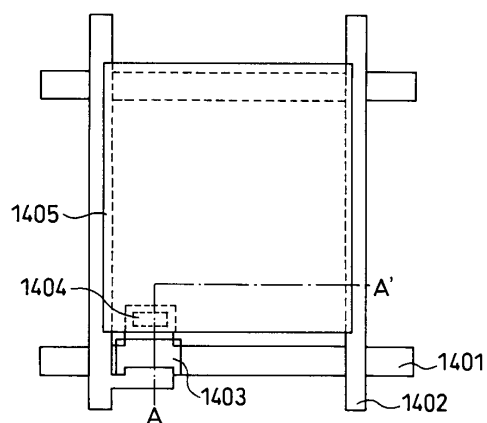
13b



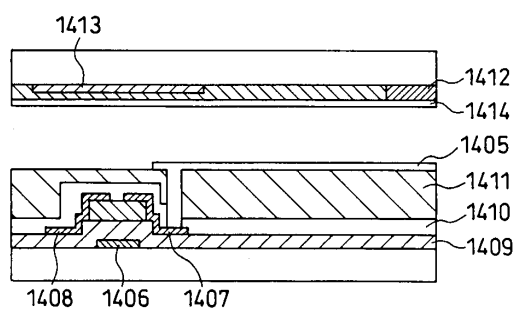
13c



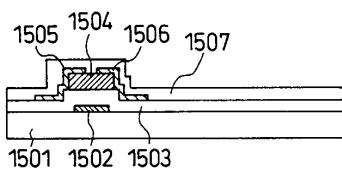
14a



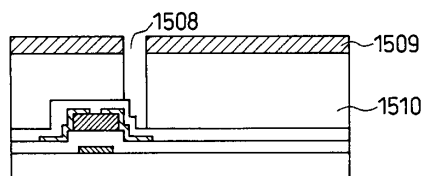
14b



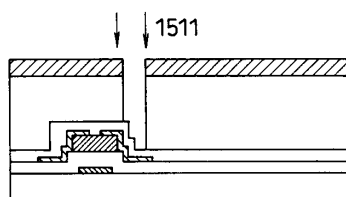
15a



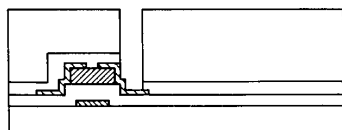
15b



15c



15d



专利名称(译)	有源矩阵液晶显示器		
公开(公告)号	<a href="#">KR100352566B1</a>	公开(公告)日	2002-09-12
申请号	KR1020000004419	申请日	2000-01-29
申请(专利权)人(译)	日本电气有限公司sikki		
当前申请(专利权)人(译)	日本电气有限公司sikki		
[标]发明人	SAKAMOTO MICHIAKI 사카모토미찌아끼 SUGITANI CHOEI 스기타니쵸에이		
发明人	사카모토미찌아끼 스기타니쵸에이		
IPC分类号	G02F1/133		
代理人(译)	CHANG, SOO KIL		
优先权	1999022517 1999-01-29 JP		
其他公开文献	KR1020000057830A		

#### 摘要(译)

在有源矩阵液晶显示器中，它形成在相邻的虚设接触孔的端子之间。由于ACF的导电填料残留在有机层和端子上而导致的TAB底部金属层的不良连接被阻止。在端子的上层透明电极和底部金属层之间形成连接的接触孔形成多个微通孔。即使在上部透明电极上有足够的ACF导电填料，也可以形成TAB连接线和良好的连接。液晶显示器，TFT基板，虚设接触孔，扫描线，TAB。

