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2003 02 12

(21) 10 - 2001 - 0046647
(22) 2001 08 01

(71) 3 416

(72) 108 303

(74)
:

(54)

가

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2 1 -

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(Liquid Crystal Display device)

(Cathode Ray Tube type display device)

CRT

가 가

가 " (Liquid Crystal)" -

1 가

1 (3), (5), (10) (1), (gate tape carrier package; 4),
(data tape carrier package; 6)

(1) TFT (Thin Film Transistor substrate;1b), () (color filter substrate; 1a)

TFT (1b) (7), (8), (9), ()

(7) (7) (7a), (7b)
(7c)

(7b) (8) (7) (column) (7)

(7a) (9) (7) (row) (7) (7c)

(Indium Tin Oxide) ()

TFT (1b) (1a) (1a)

RGB () ()

(1a) TFT (1b) (1a) TFT (1b) (Liquid Crystal;)

가 가 (1) (7) (7a)

가 가 (7) (7b) - 가 (7)

(9) (1) 가 가 (8) - 가 (3)

(9) 가 가 (5)

(5) (1) (8) (9) 가 가 (3)

(1) (8) (8) (9) (9) (3) (5)

(8) (9) (8) (9)

(5) (1) (8) (9) (3) (3)

(5) 가 가 (1)

" (Tape Carrier Package; TCP)"

(3) (3) (5) (5) (1) (1)

(3) (5) (1)

4a (4) IC , 4b ,

6a (6) IC , 6b ,

(2) (4) (6) 2 3 (8)

(9) (3) (5)

(2) (2) 가 ,

가 (2) 3 가 (11) 가

가 11a (2) 가

, 가 (11) (8) (4) 가 가
, (9) (6) 가 가
.

, 1 가
.

, 2 가
.

1 2 가 ,
, IC , 가 IC ,
IC , IC 가
가

, 가 가 2 , 가 가
, 가 2 가 가
가 2

가

9 , (970) ((200), (955) (960) . (300)
(500) (200) (260), (100)

(260) TFT (210), () (220) .

7 , TFT (210) , (214),
 (212), (216) () (218), (218)
 (214) (240a) (240), (212)
 (230a) (230) (216) () .

(220) RGB 가 RGB ,
 TFT (210) (220) (260)

(218) (260) TFT (210)
 (column) .

(218) 가 가 -
 가 .

7 9
 (300) (500) ,

(300) (500) (260) (260)
 (260) 가 (260)

(500) (100) (260), (300)
 4 7 9 (100)가 .
 4 , (100) (110), IC(122,124),
 (130), (135) .

(110) (110) 2 , 1 (101) 2 (102)
 (110) 2 ,

(122,124) (110) 1 (101) 2 (102) , IC
 , (110) 1 (101) 2 (102) 가 (110)
 (110)

(110) 1 (101) 2 (102)
 (152,154)가 .

(110) (152,154) 1 (101) 2 (102)
 IC(122,124)가 (152,154)가 (110) 1 (101) 2 (102)

1 (101) IC 1 IC(122) 2 (102) IC
 2 IC(124) , 1 IC(122), 2 IC(124) ()
 ()가 .

1 IC(122) 2 IC(124) (110) 1 (101) 2
 (102) (130) .
 (130) (110) .

1 IC(122), 2 IC(124)
 () , (130,150)

1 IC(122) 2 IC(124) (110) 1 (101)
 2 (102) (135) .
 (135) (110)
 1, 2 IC(122,124)

142,144 (110) 180° (110)

(100) 7 (135)
 (130) (410,420) .

(100) 8

(100) (135)
 가 .(1)

2 IC(122,124)가 (100) 가
 2 (240) 2 (230) 가 .(2)

(240) 4 , (230) 8 ,
 (240) 2 가 (100) 가 가 ,
 (230) 4 가 (100) 가 가 .

가 가 (240) (100)

가 , (100) , (100)
 , , 가 .(3)
 , 5 (100) 1 (101) 2 (102)
 (156)
 (156)
 (100) 1 (101) 2 (102) (156)
 (100) 1 (101) 2 (102) 가 .
 , (100) 1 (101) 1 IC(122), (13
 0) (135) (100) 2 (102) 2 IC(124),
 (102) (130), (135) , 1 (101) 2
 (rework)가 .
 , 6 (100)가 .
 6 (100) (170,180), 2
 (170,180) (158)
 , (170,180) (172,182), IC(174,184),
 (176,186), (178,188)
 , (172,182)
 (172,182) 가 IC
 (174,184)가 .
 , (172,182) IC(174,184)
 (176,186) , IC(174,184) (178,188)
 , (176,188) (172,182)
 , (178,188) (172,182)
 , (240) (230)
 (170,180) 2
 , 2 (170,180) 1 (170) 2
 (180)
 1, 2 (170,180) 2 (158) 1, 2
 (158) 가 . (

, (158) 1, 2 (17)0,180
 1, 2 (170,180)

(158) 가 가 1, 2 (170,180)

(158) 1, 2 (170,180)

1, 2 (170,180) 가 가 , 가
 1 (170) 2 (180)가

1 (170), (158), 2 (180)
 (178,188) (176,186)

, 1, 2 (170,180) (178,188) 가 가
 8

, (200) (955)가

(955) (850), (850)
 (800), (800)
 (700,600), (800) (800)
 (900) (950)

, (950) (200)가 (950) (960)
 (970)가

(57)

1.

2

가 ;

가 IC ;

IC

가

;

IC

가

2.

1

3.

2

4.

2

5.

가 가

가 가

가

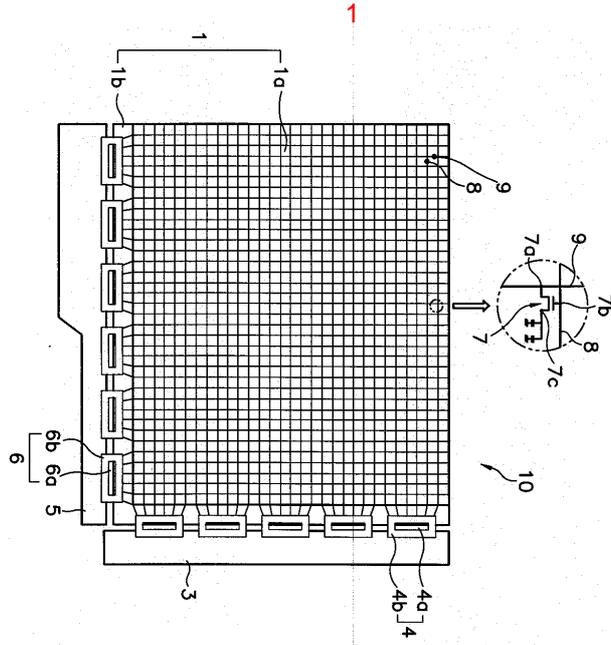
가 ;

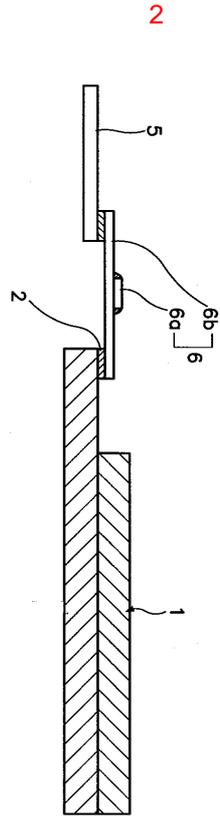
2

가

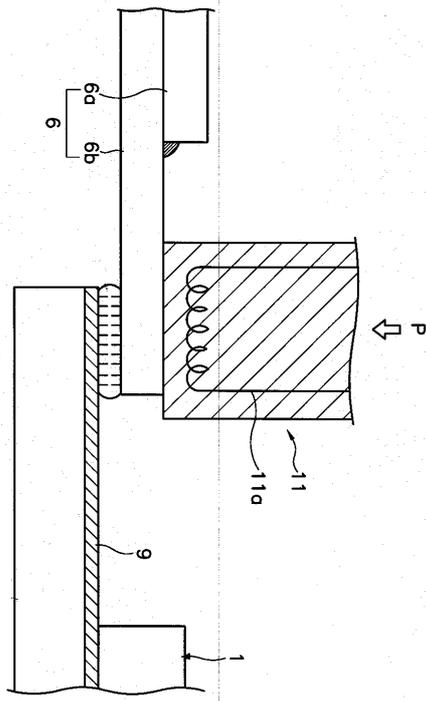
2

가

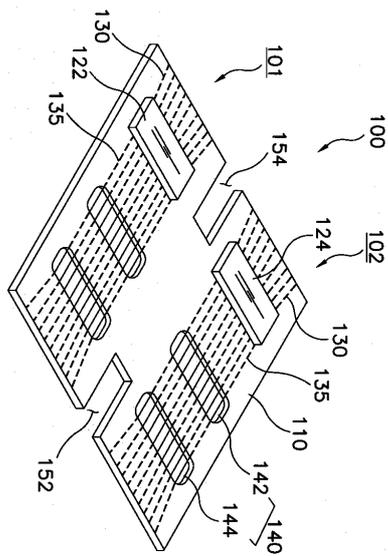




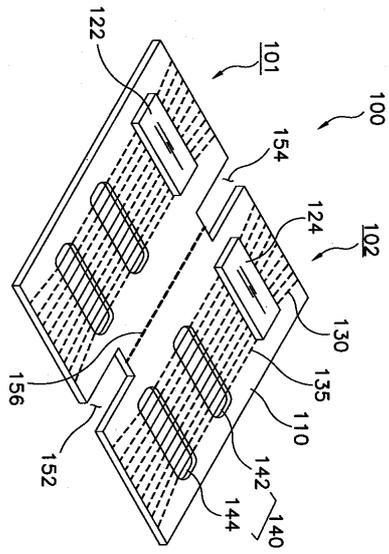
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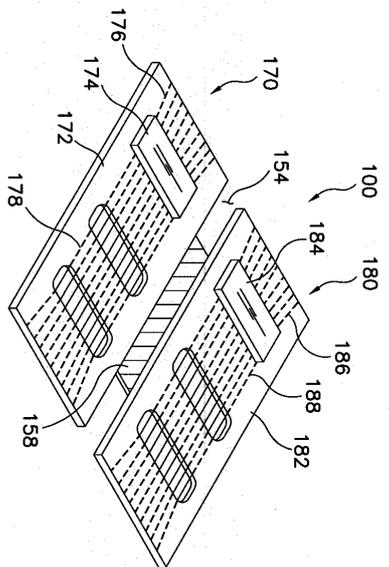
4



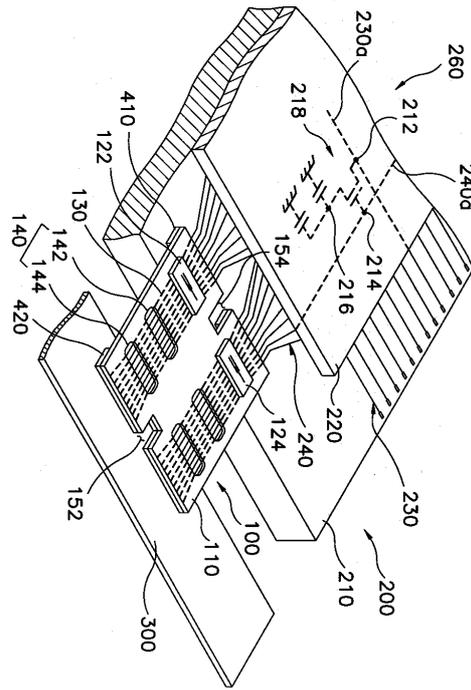
5



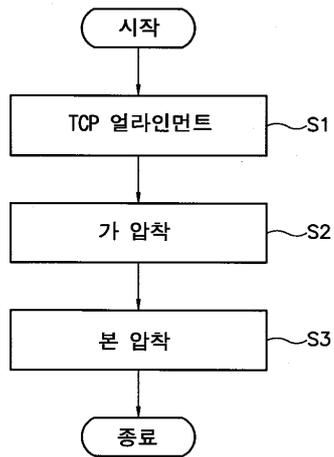
9

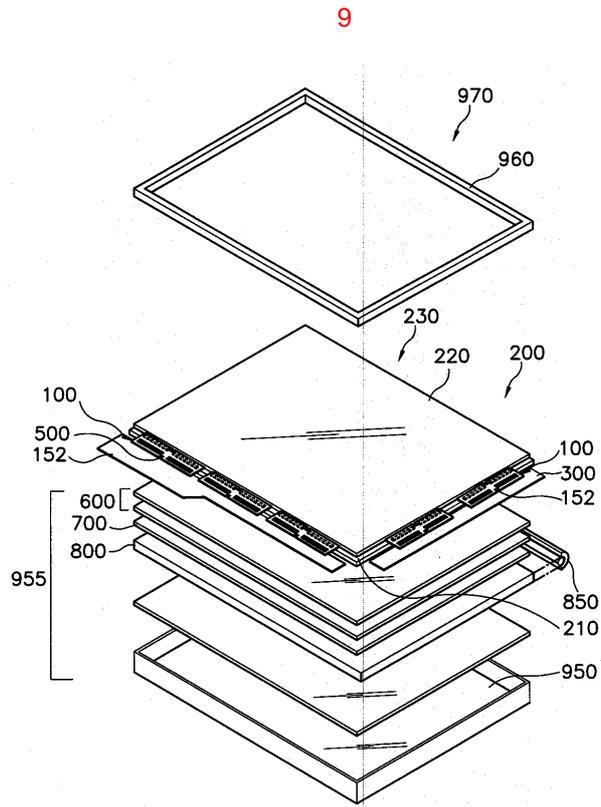


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专利名称(译)	带载封装和具有该带载封装的液晶显示装置		
公开(公告)号	KR1020030012569A	公开(公告)日	2003-02-12
申请号	KR1020010046647	申请日	2001-08-01
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	CHOI JOONHOO 최준후		
发明人	최준후		
IPC分类号	G02F1/1345		
代理人(译)	PARK , YOUNG WOO		
外部链接	Espacenet		

摘要(译)

公开了带载封装和具有该带载封装的液晶显示器。改变带载封装形状的工艺数量，其作用是电连接LCD面板和驱动印刷电路板，并压缩LCD面板和带载封装的压缩，以及带载封装和驱动印刷电路板最小化。因此，它具有根据处理频率降低的转向时间的减少以及相应地提高生产率的优点。液晶显示器和带载封装。

