

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl.⁷
G02F 1/1333

(45)
(11)
(24)

2004 11 08
10-0456143
2004 10 28

(21) 10-2001-0086966
(22) 2001 12 28

(65)
(43)

10-2003-0056687
2003 07 04

(73)

20

(72)

3 806

1 1604

1413

109 810

191-11

1 101 901

(74)

:

(54)

가

가

8

1
2 1 A
3
4 3 B - B'
5
6
7 1
8 7 C
9 8
10 8
11 8
12 2
13 12
14 12
15 3
16 4

17 16
< >
2, 32, 52, 72, 102, 132, 152, 172 :
4, 34, 54, 74, 104, 134, 154, 174 :
6, 86, 106, 186 :
8, 38, 50, 82, 80, 138, 182 :
42, 62, 142, 162 :
44, 64, 144, 164 :
46, 66, 146, 166 : 48, 68, 148, 168 :
108, 130 : 186 :

(Back Light Unit)

가 가
,
(Printed Circuit Board; 'PCB')
, PCB TCP(Tape Carrier Package; 'TCP')가 PCB
, TCP
가
가
1 2 , (4) , (4)
(4) 가 (2) .
(4) , (4)
, , / /

가 (4) (12) (4)

(2) 가 가

(4) , PCB(6) (4) PCB(6) (4)

(8) PCB(6) (2) PCB(6) (8)

(8) PCB(6) (2) (Noise)

3 4 (42), (44) (46)

3 4 (48) (34) , (34) (48) 가

(32) (48) (ITO; 40) (38)가 가 (32)

(48) (38) (32) (40), (38) (40)

(38) (48) (40) (38)가 (40)

(40) (32) (48)

5 (54) , (54)

5 가 (52) (54)

(54) (62), (64), / (66) (54) (58)

(54) (58) 가 (70, 72) (54) (60) (68)

(52) (48) 가 가

(52) (58) (52) (50) (58)

(58) (52) (50) 가 (50)

(58) (50)

6 PCB(86) (78) PCB(86)

(72) 1 (82) , (78) PCB(86) (72)

2 (80) (72) PCB(86) (78) (72)

1 2 (82) PCB(86) (80) (78) (72) (72) PCB(86) (78) (72)

(72) 1 (82) (72)

(78) PCB(86) 2 (80) (72)

(72) (78) 2 (80) (72)

(78) (72) 가 (78) 2 (80) (72)

(78) (72) 가 (78) 2 (80) (72)

(78) 가 . , (72) (78)
 가 .

7 17
7 8 , 1 (104) ,
(104) 가 (102)
(104) (104)
, , / /
, 가 (104) (10
) (112)

(102) 가 가
(Printed Circuit Board; 'P
CB')(106) . PCB(106)
(104) , PCB(106) (104)
(104) , 1 PCB(106) (102) PCB(106)
(Clip)(108) , PCB(106) (102)
(108) 9 (102) (104)
1 (126) 2 (128) , 1 (126) 1
2 (120, 122) , 2 (128) 가 PCB
(124) 1 2 (120, 122) 1 2 (120, 122) (102)
(120, 122) 1 2 (120, 122) (102)
PCB (124) PCB(106) , PCB (124)
PCB(106) , PCB (124) PCB(
106)가 (104) (Hook)(110)가 , PC
B(106) (108) PCB (124) 1 2 (120, 122) (102)
108) PCB (124) 1 2 (108) (102)
(104) 10 (108) (126a) 2 (128a) , (102)
(125) , PCB(106) PCB (127)
(125) (102) 1 (126a) 1
2 (120a, 122a) , (102) 1 (126a)
3 (123a)
PCB (127) 2 (128a) 1 PCB (124a) , 1 PCB
(124a) 2 (128b) 2 PCB (12
4b)
(125) (102)
CB (127) PCB(106) (102)
(104) 11 (108) (102)
(126b) 2 (128b) , (102)
(129) , 2 (128b) 가 PCB
(124c)
(129) (102) 1 (126b) 1
(123b) , (102) 1 (126b) 2
3 (120b, 122b)
PCB (127) 2 (128b)
(129) (102) PCB (124c)
(129)
(Noise)
12
12 2 (142), (144)
(146) (148) (132) , (134)
(148) 가 (148) (148) (140)
(132) (130) , (130) (132) (148)
(132) (138)
(148)
(137, 139) (140) 가
(148) (130)
(130) 13 (148) 'U'
(130) 'T' , 'U' (Bending)

2 (181) (186) 3 (195) (176) 2 (191) ,
(178) (172) (178) (178) (17)
7), 2 (181), (186) , (172) 1 (182)
(172) 4 PCB(186) (186) (172)
(178)

가

'U'

가

가

(57)

1.

가

가

가

2.

1

3.

1

가

1

1

1

4.

3

1

2

가

5.

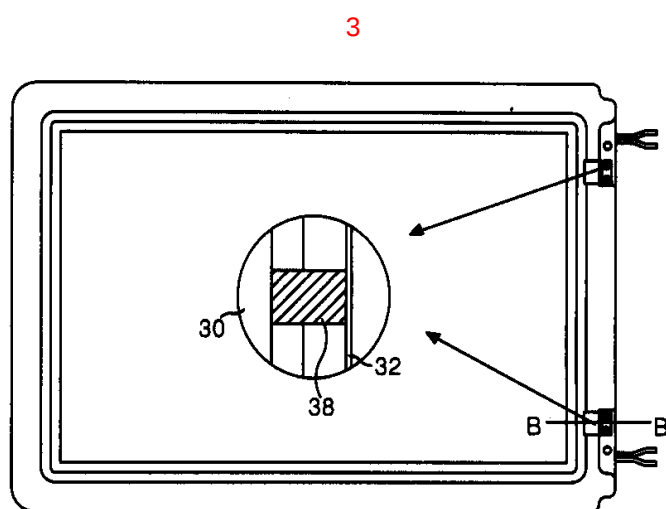
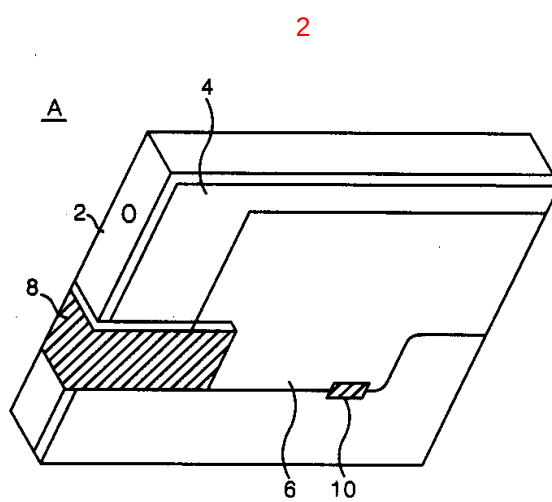
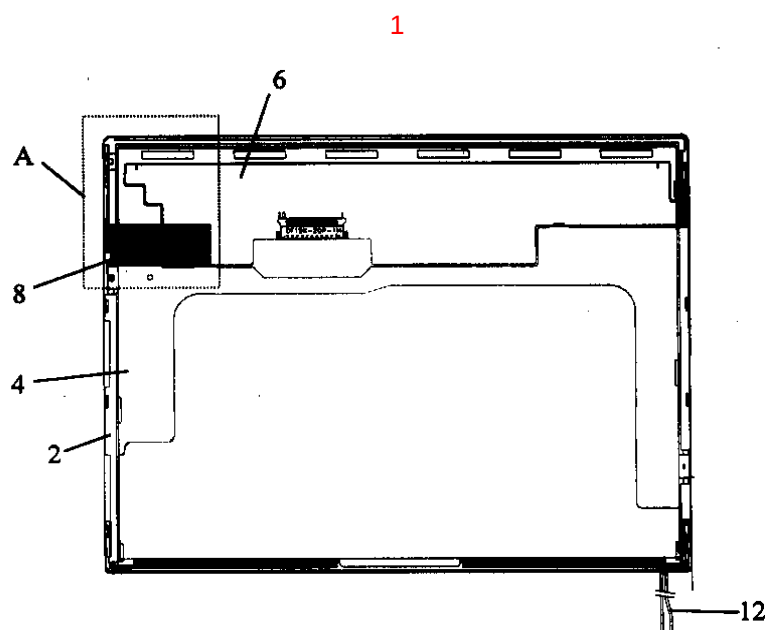
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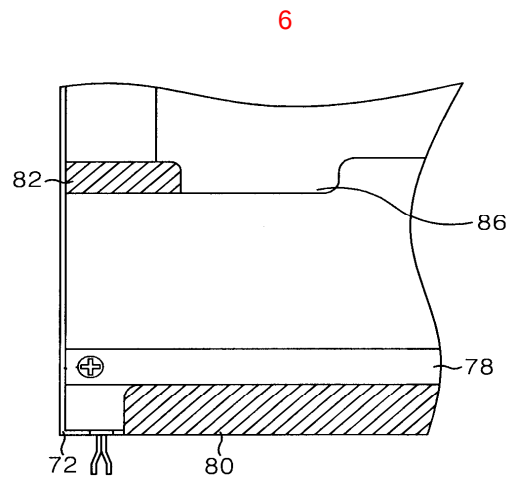
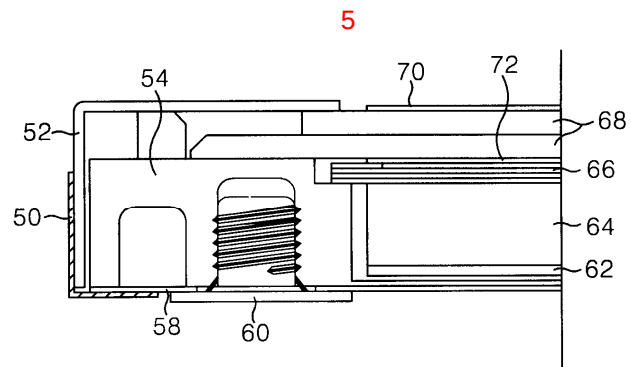
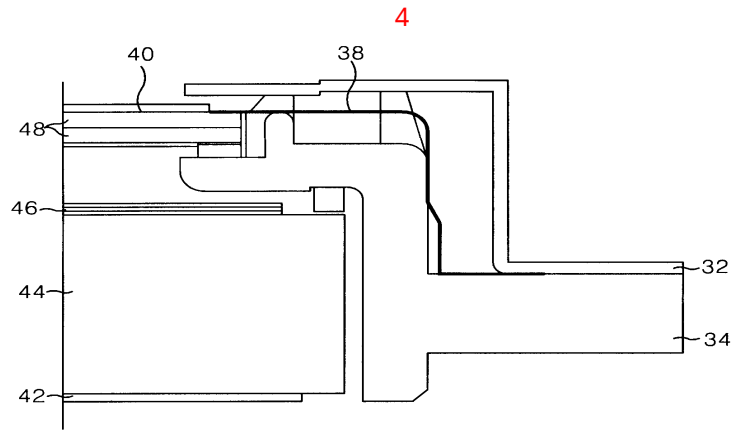
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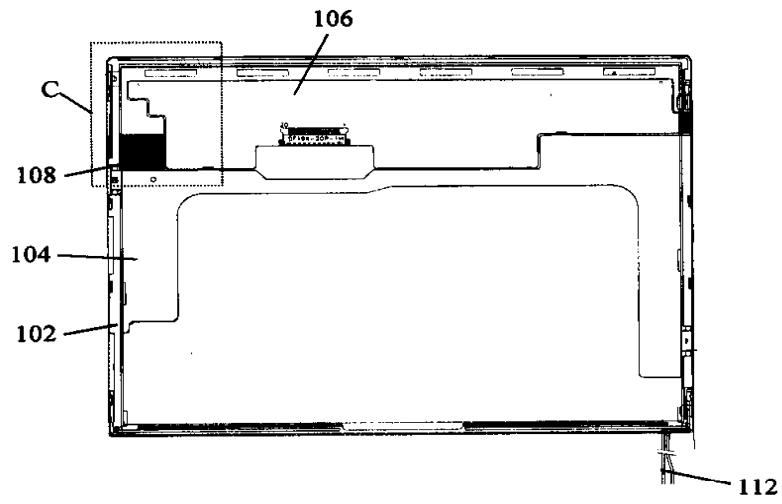
6.

- 1 , .
- 7.
- 1 , .
- 8.
- , 가 , , 가 .
- 9.
- 8 , 가 .
- 10.
- 8 , / 가 'U' ,
가
- 11.
- 가 , , , .
- 12.
- 11 , 가 .
- 13.
- 11 , 가 .
- 14.
- 13 , 가 .
- 15.
- 가 , , , .
- 16.
- 15 , 'L' .
- 17.
- 15 , .
- 18.
- 15 , , 1 가 1 ,
2 가 2
- 19.
- 17 18 , 1

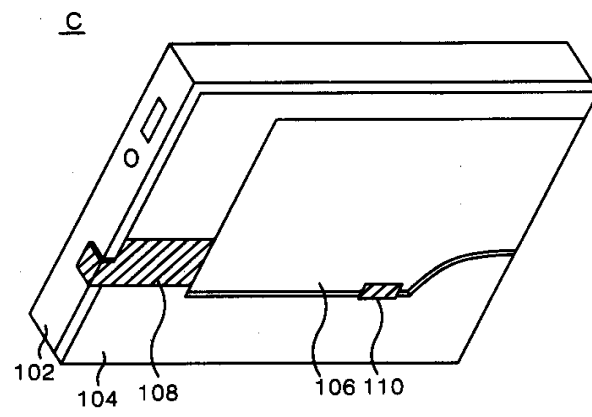




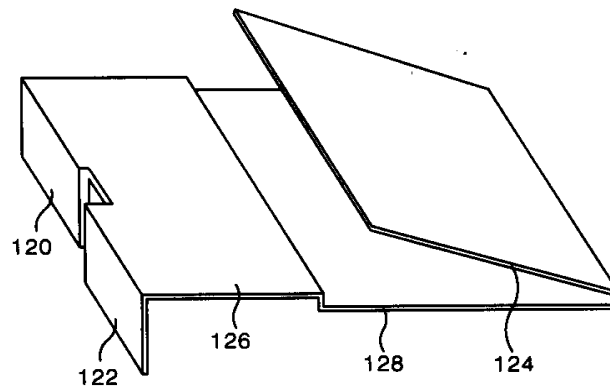
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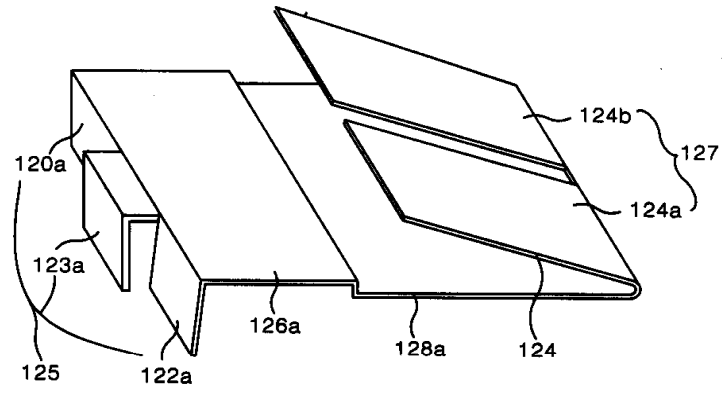
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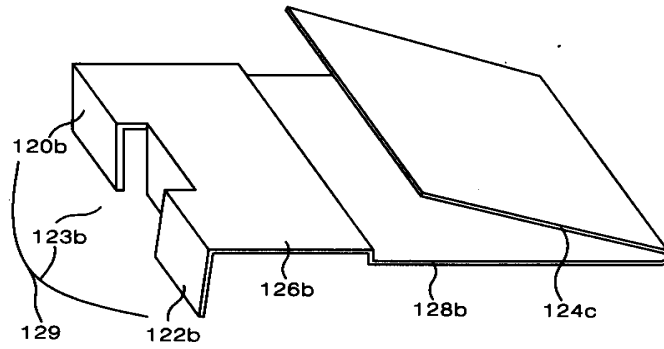
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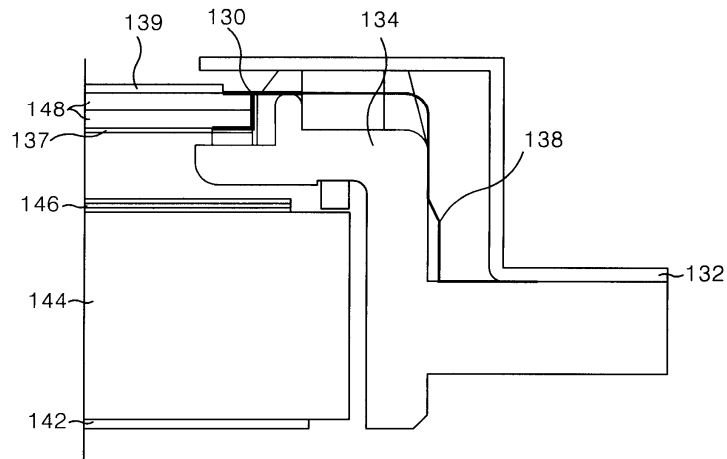
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11

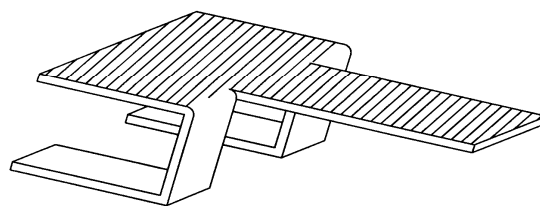


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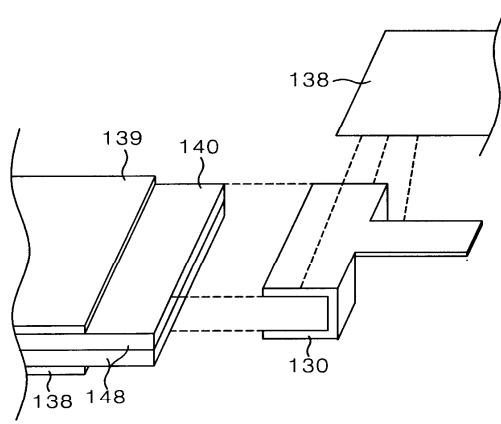


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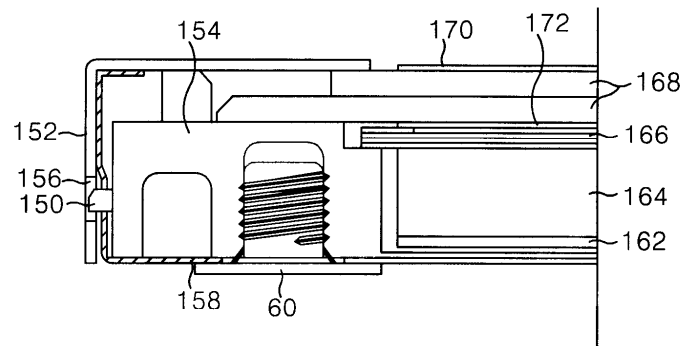
130



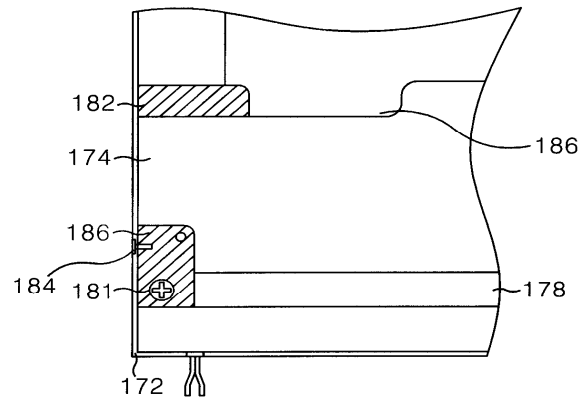
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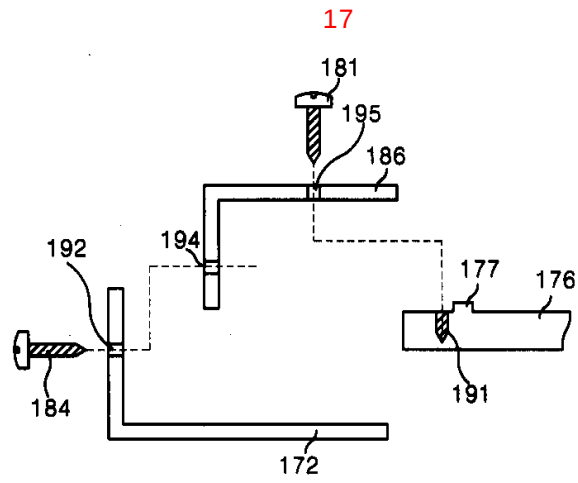


15



16





专利名称(译)	液晶显示器		
公开(公告)号	KR100456143B1	公开(公告)日	2004-11-08
申请号	KR1020010086966	申请日	2001-12-28
[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	JANG MYONGGI 장명기 YOU DONGJAE 유동재 PARK CHUL 박철 KIM JONGHOON 김종훈 PARK YOUNGWOO 박영우		
发明人	장명기 유동재 박철 김종훈 박영우		
IPC分类号	G02F1/1333		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR1020030056687A		
外部链接	Espacenet		

摘要(译)

用途：提供LCD（液晶显示器），以防止静电通过顶壳释放静电而损坏安装在印刷电路板上的驱动电路。组成：LCD包括一个液晶面板，一个液晶单元排列成矩阵形式，一个印刷电路板（106），用于向液晶面板提供驱动信号，一个顶壳（102）围绕液晶的侧面在印刷电路板上的接地电极和壳体之间插入接地夹（108）。LCD产生的静电通过印刷电路板连接和第一和第二顶壳连接放电到顶壳。

