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(22) 2001 03 03(65)
(43)2001-0087323
2001 09 15

(30) 2000-61110 2000 03 06 (JP)

(73) 가 가
가 4 6
가 가
2306

(72) 가 5-14-9

(74)

:

(54)

(11) (11) (9)

(4A) (12) (4B) (11, 12) (4A)가 (4B) 가

0) (NR) (AR) (NR) (SL) (AR) 가

(100A)

1

1A 1B 1 , 1A ,

1B . , 2A ,

2A 2B 2 , 2A ,

2B . , 3A ,

3A 3B 3 , 3A ,

3B .

4
 5
 6A 6B
 A (4A) 6B (4B)
 7
 8 1
 9 1 8
 A-A
 10 2
 11A ~ 11E 5
 12
 13
 14A 14B 13
 < >
 1 : 2 :
 3 : 4 :
 4A : 4B :
 11 : 12 :
 41 : 51, 52 :
 55, 56 : 71, 72 : ()
 90 :
 100A, 100B, 100C, 100D : 560 :

가

가

()

가

2

가

2

13

(1)

(4)

(1)

(4)

(3)

(3) 가

3A

(3)

3B

14A

14B
(4A)

13

4B

2

(4A) (

4B)

(11)

(12)

(4B)

(90)가

(11, 12)

(90)

가 (55) (SL) (560) (55) (560)

(55) (560) (())(71, 72) (71, 72) (

(80) (NR) (AR) (NR) (4A)가

(SL) 가 14B (560) (AR)

(4B) (NR) (560) 14B (100')

(100')가 , (AR)

(4A) (4B) (4A) (4A)

(100') 가 (560) (4A) (4A)

(4B) (71) (100') (SF) (SF) (11) () (CL) 가 (11)

(4A) 1 (CL) 2

가 , 가

14 14B 가 (

) ()

가

가

가 ()

가

가

가

가

가

2

가

가

가

()

가

가

가

가

가

가

가

가

1A	1B	1	1A	1B
14A	14B	(ITO)	(PET)	(4A)
B)	(12)	(11)	(12)	(4B)
	(90)가	(90)	(11, 12)	(4

(11, 12) (SL) (55) (560)
 (55) (560) (71, 72) (NR) (71, 72) (AR)
 (80) (NR) (SL) (AR) 가
 (100A) (90) (90) (AR)
 (100A) (100A) (90) (1
 00A) 가 (SL) 가 (S
 L) (AR) (100A) 가
) 가 (100A) (4B) (4A) 1A (560
 (4A) (100A) (4A) (100A) (4A) (4A) (4A)
 , ,) 가
 , 1A 1B (100A) 1A 1B
 2A 2B 1A 1B 2 (2A 2B
 가 1A 1B (100A) (SL) (AR)
 (100B) (100B) 가 (SL) (AR) 1
 (560) (4A) (100B) (4A) (100B)
 (4A) (4A) (가) 가 3A 3
 B 3A 3B 1A, 1B, 2A 2B 가 (SL) (100C) (AR) (SL)
 (4B) 가 (4B) (가) (1
 (72) V 3A (4A) (4A) (100C) (4A) (100C) (4A)
 00C) 가 (560) (4A) (4A) (100C) (4A) (가)
) 가 1A, 2A 3A
 4 4 (100D) (NR) (101)
 (4B)

(560) (4A) (4A) (4A) (4A) (4A) (100D)
 가 (가)
 5 2 (4A) (11)
 (PET) (ITO)
 (4B) ITO (22)
 (4A) (11) (55)가
 (11) (53, 54)가 (55)
 (4B) (22) (53, 54) (43, 44)가
 (4A) (4A) (53, 54) (T1, T3) (43, 44)
 (T2, T4) (43, 44)
 (x : X, y : Y) (11), (22) (x, y)
 6A 6B 6A (4A) 6B (4B) ITO (41)
 (41) (4A) PET (51) (41)
 (1) (55) (Y1, Y2)가 (51) (X1, X2)가 (51)
 (56) (2) (51) (56) ITO (55)
 (Y1, Y2) (X1, X2)
 (4B) 6B (42)
 (42) (52)
 (4A) (4B) (51) (52) (41)
 (4A) (T1) (T2) (4B) T2 T4
 (Y1, Y2) (X1, X2) (4A) (41)
 (4B) (42)
 (51) (52)
 (x, y)가
 7 (4A) 6A 6B (4B) 5
 (4B) (22)
 (T1) (T3) (4B) (4A) (T2) (4B) (4A)
 (4A) (51) (x, y)가 (22)
 8 1A 1B 1C 1D 1
 가
 2 (1D)
 3 3A 4 (4A)
 3B 4
 (1) 4B 1.5mm (2) (3A) (3B)
 (3) (4) (1)

(2) 가
 (4) (3) (3A) 2.0mm
 9
 A-A (3) 1 (2) (5) 8
 (3A) (1) (1)
 (4)
 가 PDA 가
 가
 10 (1) (1) (3) 2 (1) (3)
 (1) (1) (3) 가 (1) (4) (1)
 (1) ()
 2 (1A, 1B) (2) (2) (2)
 (1C) (3A) (1) (3B) 가 (3) (3) (2)
 (1) (5) (2) (1) ()
 110 (2) (3) (12) ()
 (1) 가
 11A ~ 11E (1)(2) (18) (19) 5)
 (4) (15) (4) (20)
 (1) (18) (21) (22) ()
 19) (2) (4) (3A)(4) (3B) ()
 3A) (23)
 12 (PDA) (500) (520) (490)
) (470) (460) (540) (480)
 (470) (610) (600) 가 가
 (480) (460) (470) (530)
 (480) (570)가 (560)
 (490) (560)
 가
 (PDA)
 가

(57)

1.

가 , 2
가

2.

1 , 가

3.

1 , 가

4.

1 3 ,

5.

가 , 2
가

6.

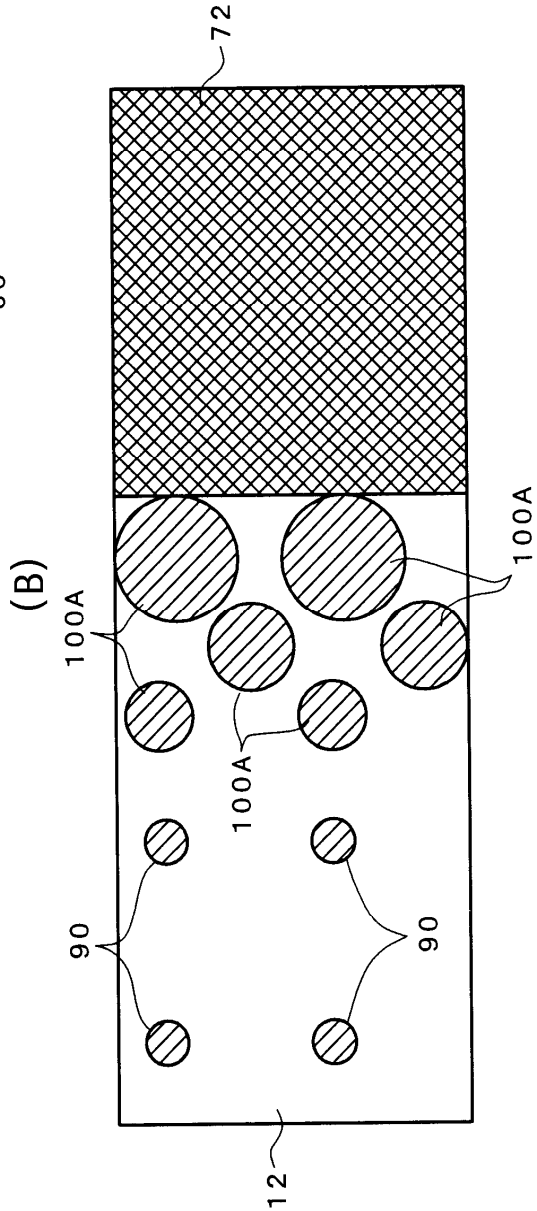
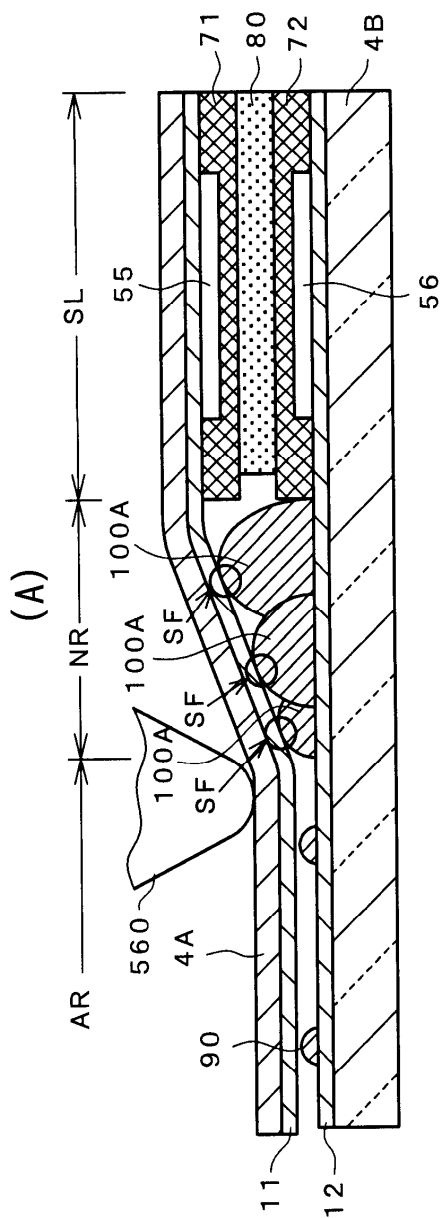
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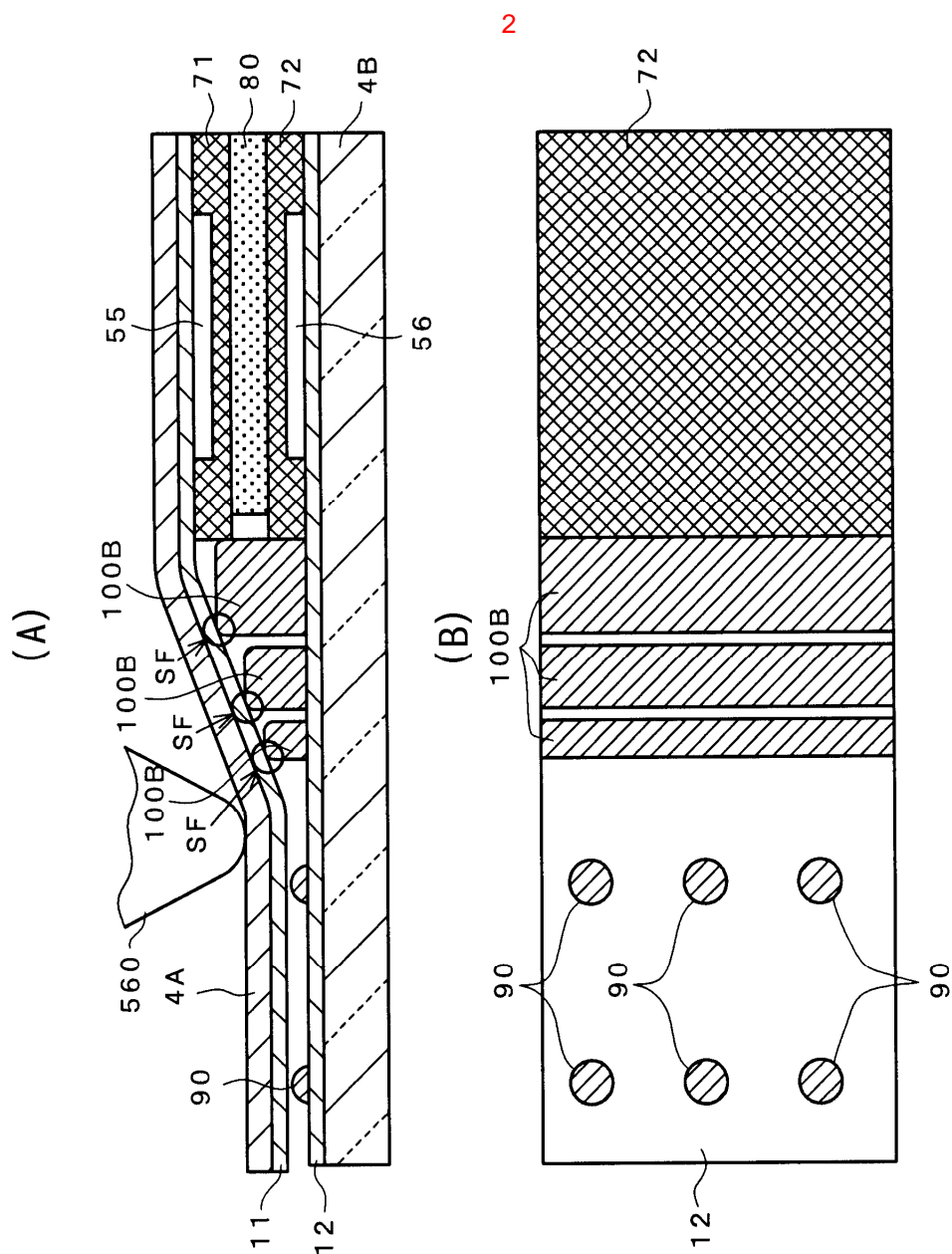
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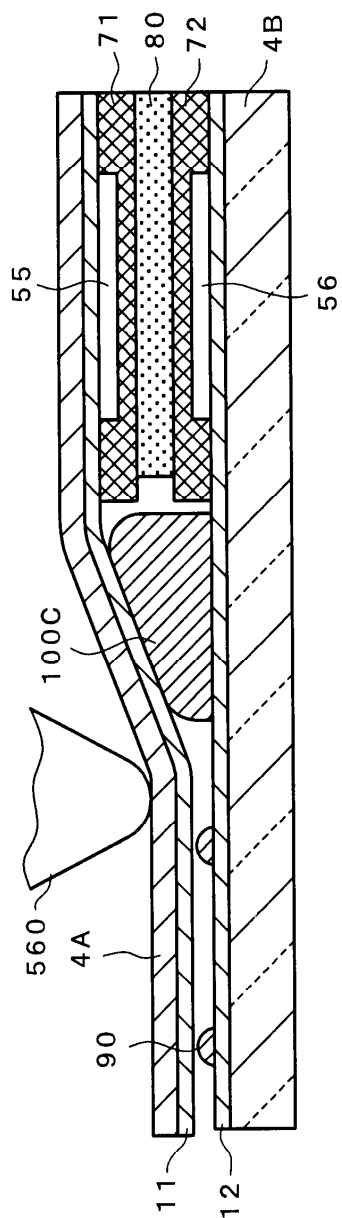
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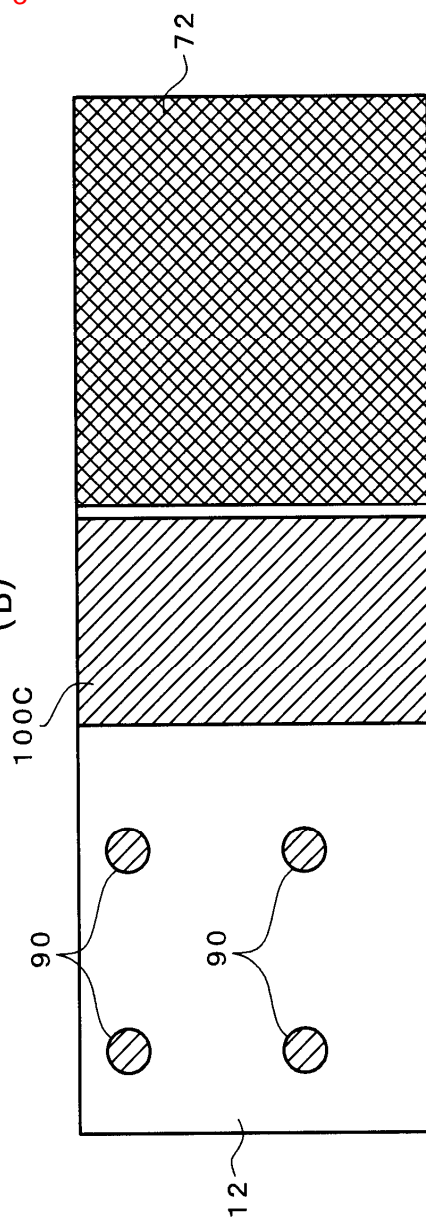




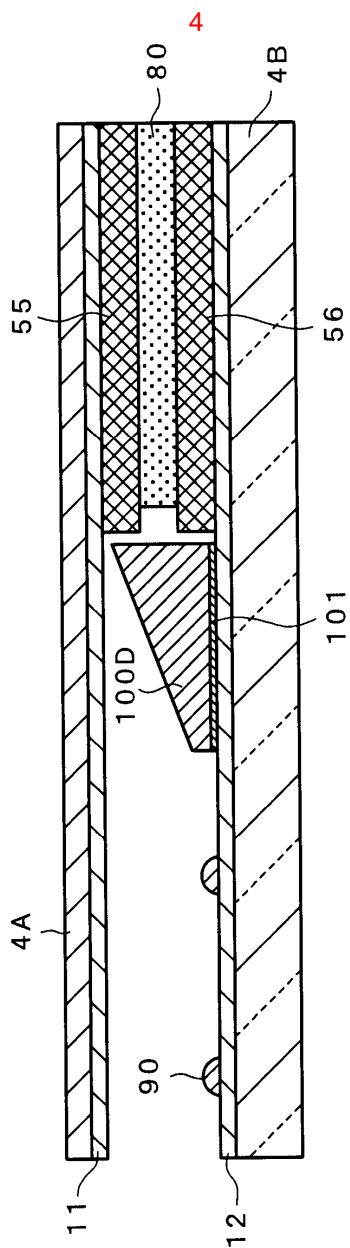
(A)

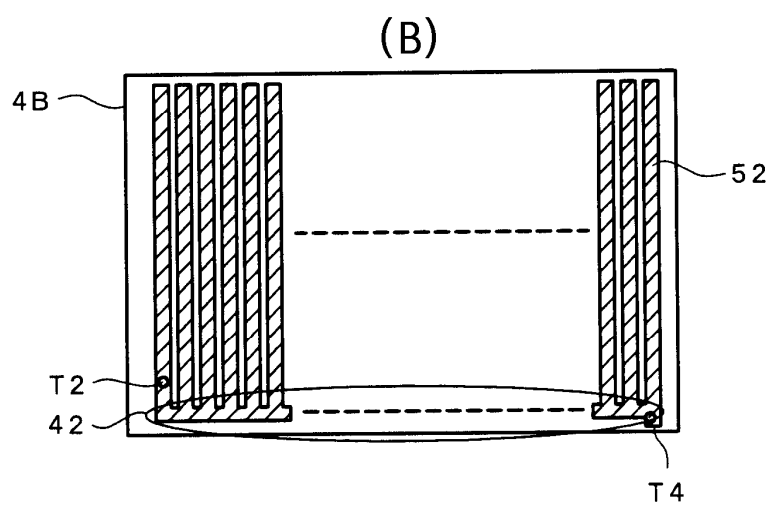
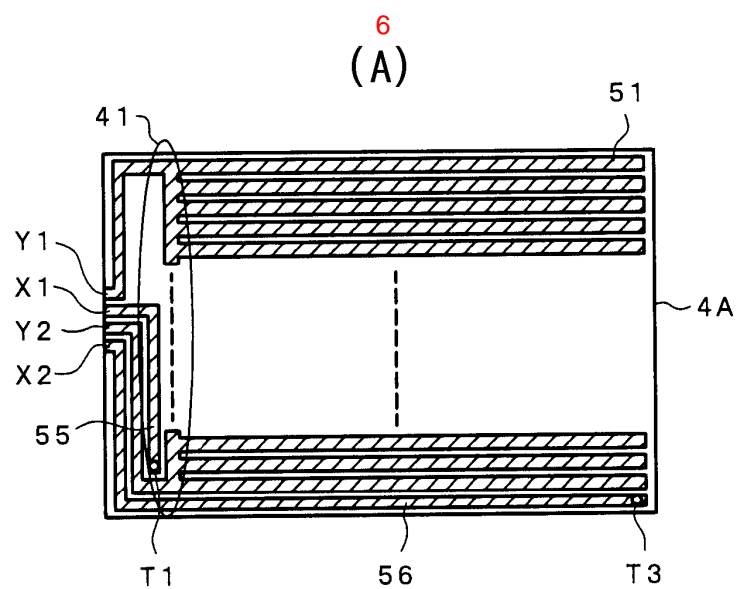
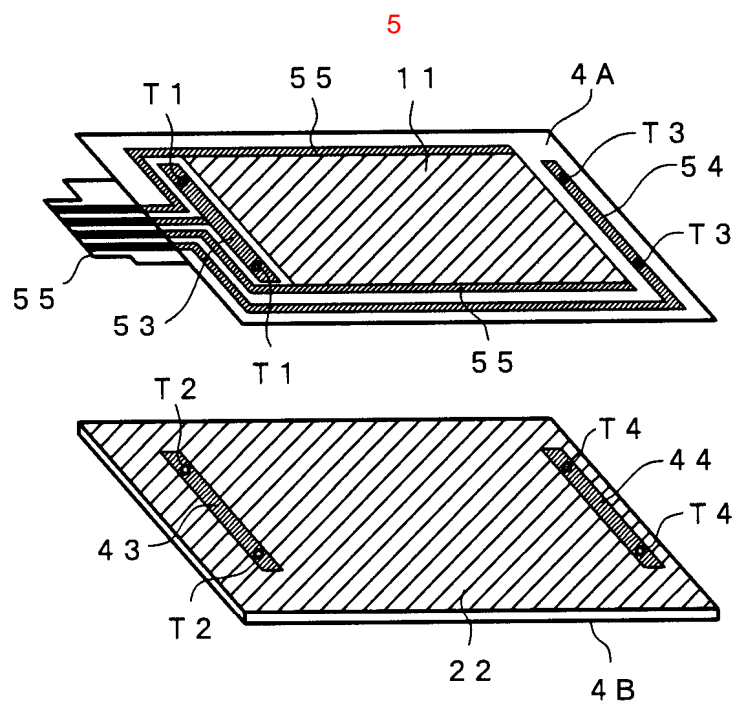


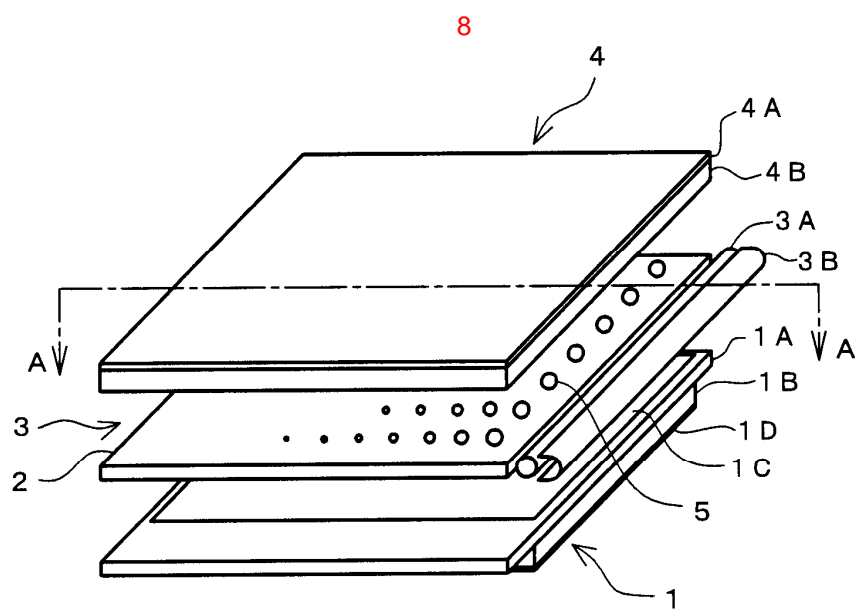
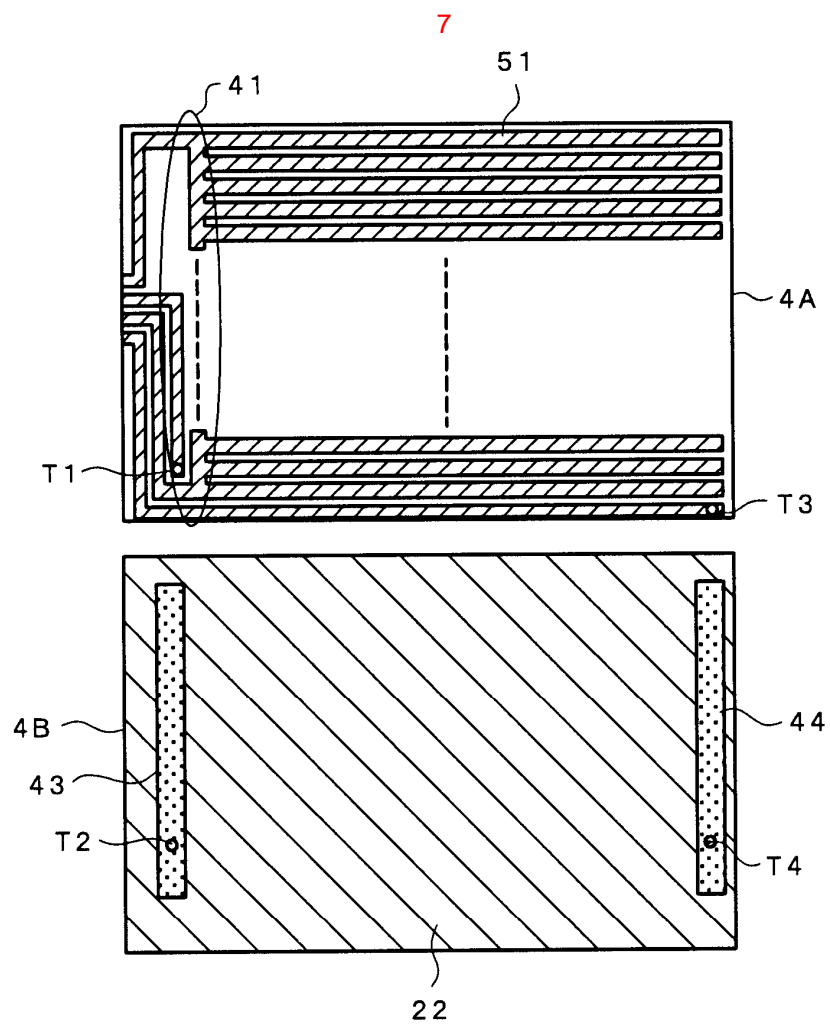
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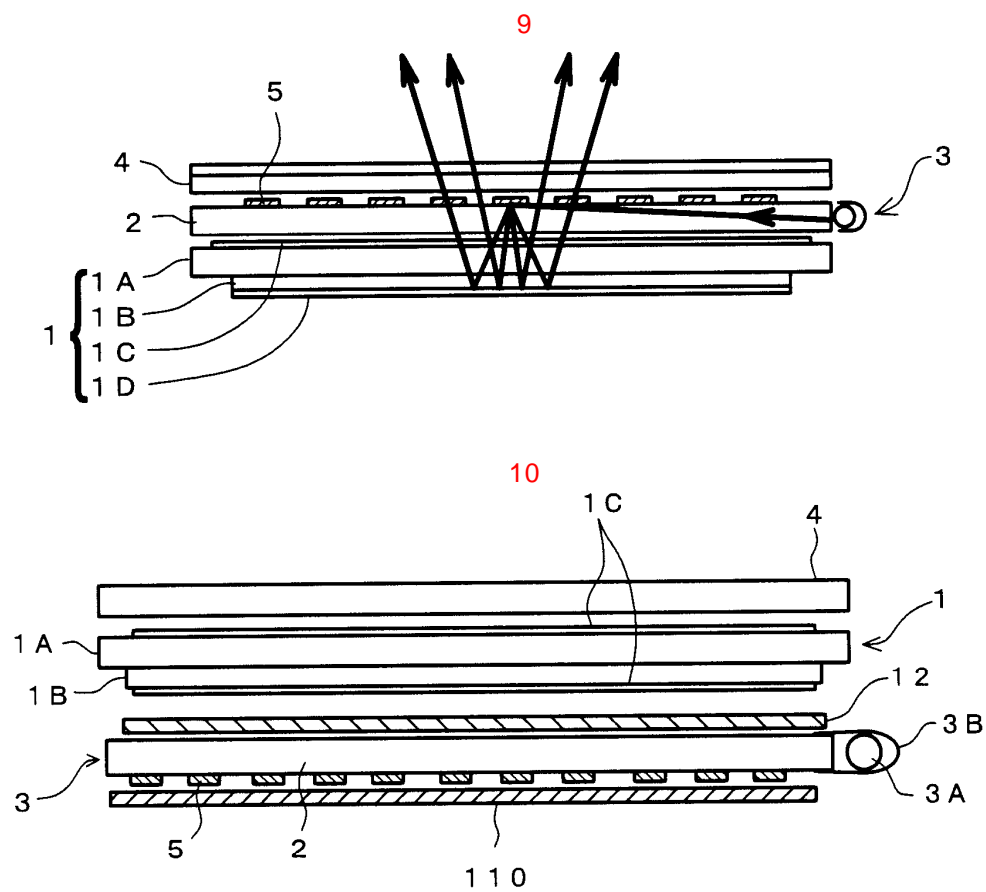


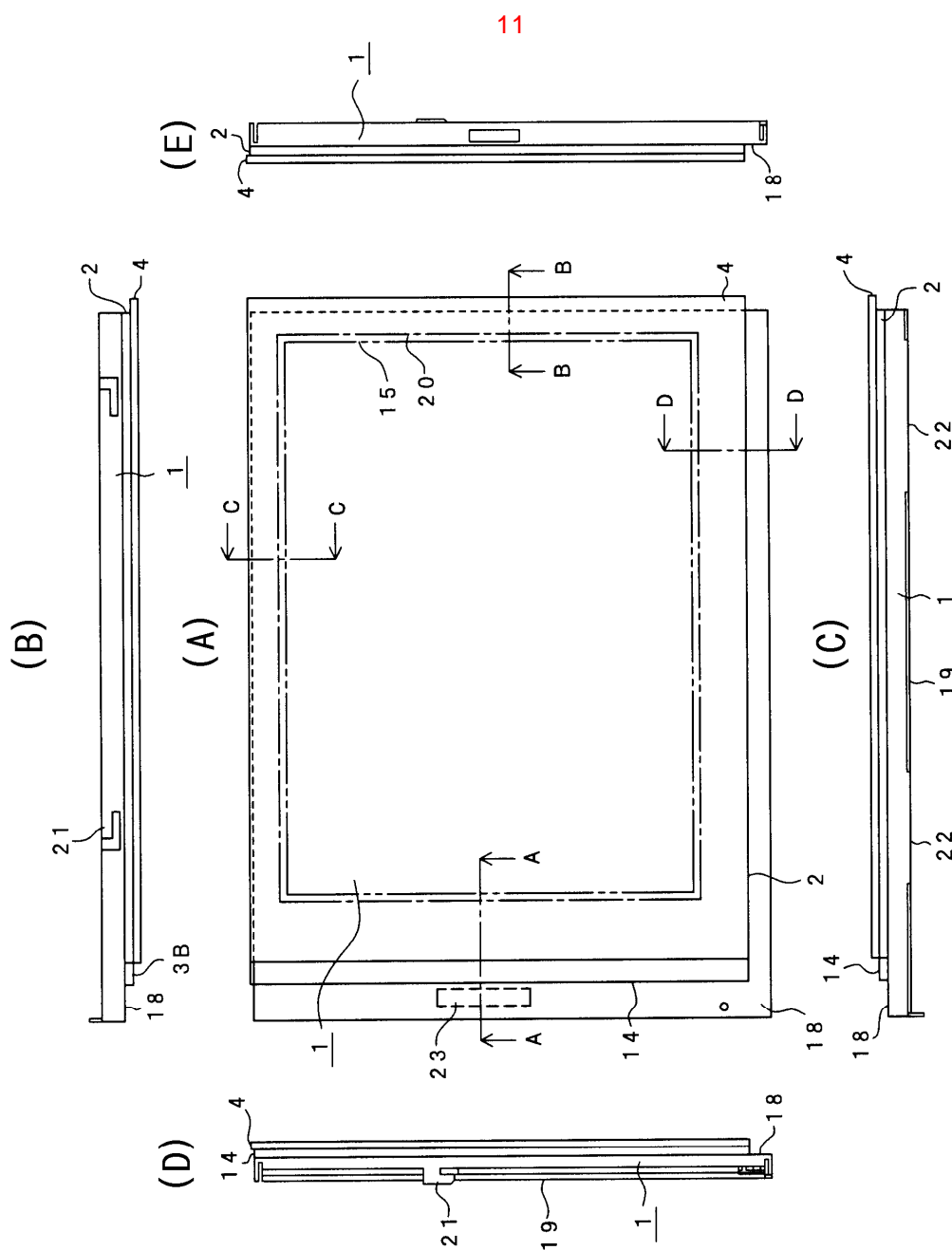
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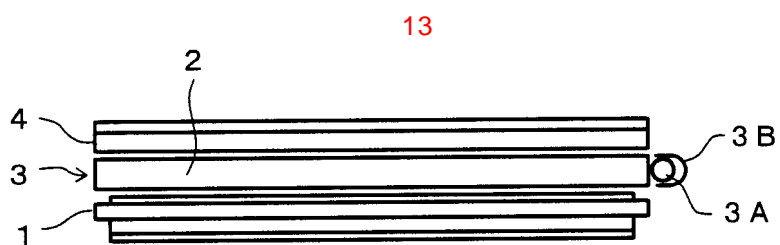
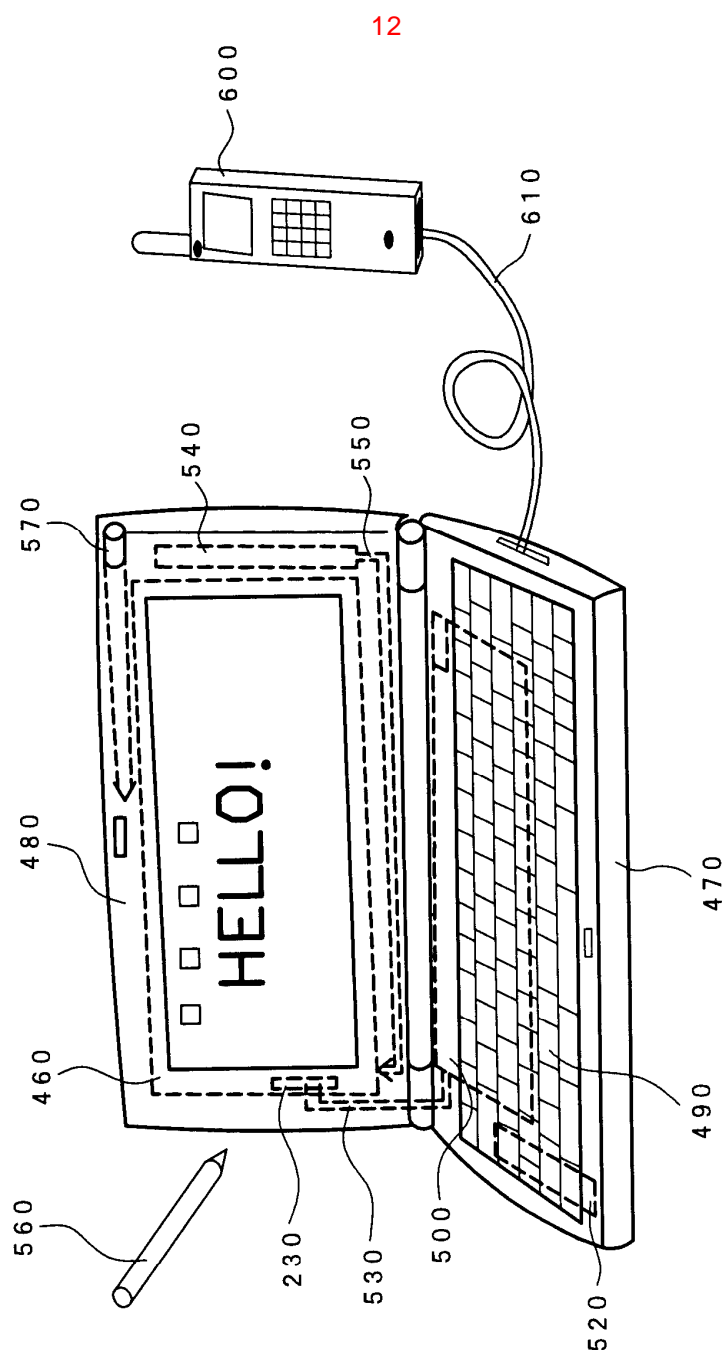




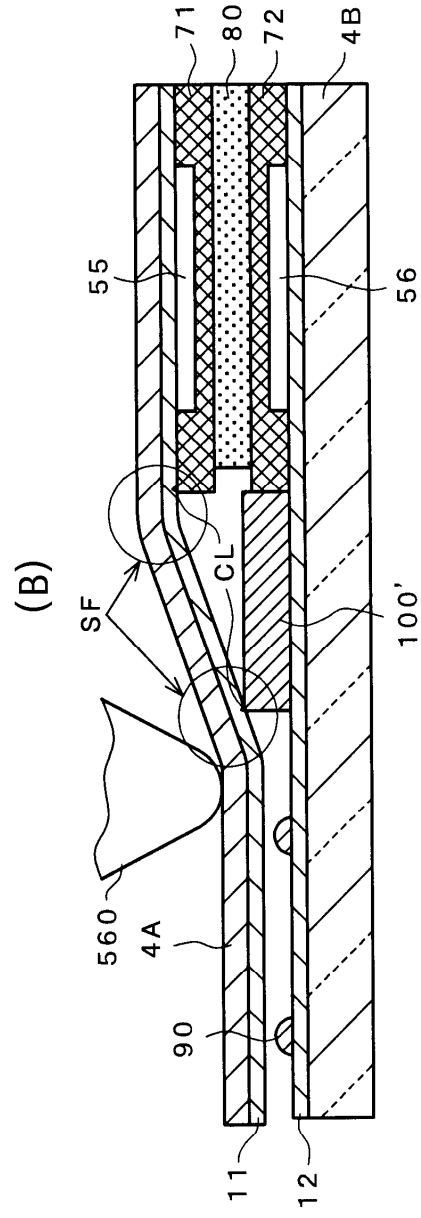
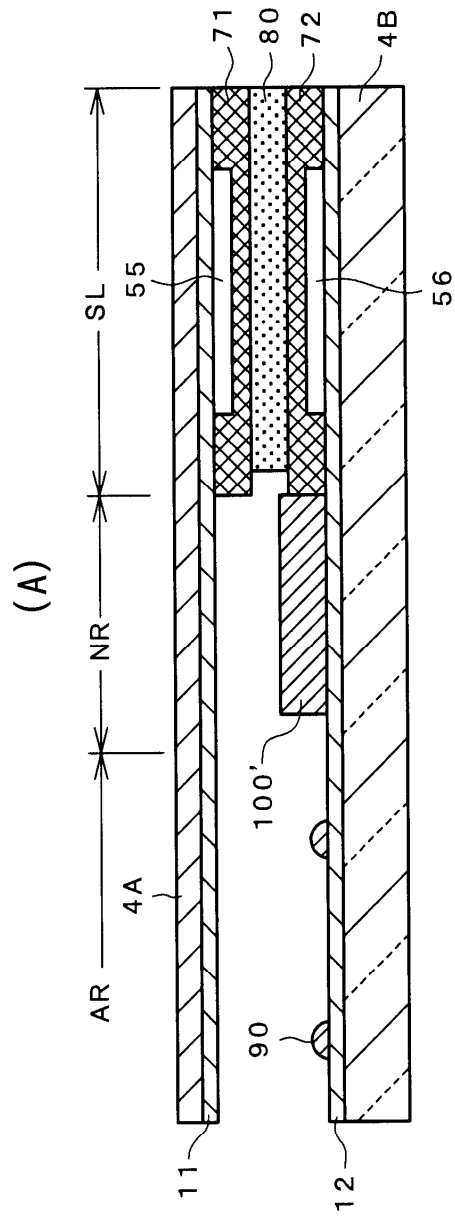








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专利名称(译)	触摸屏和屏幕输入型液晶显示器		
公开(公告)号	KR100411503B1	公开(公告)日	2003-12-18
申请号	KR1020010011048	申请日	2001-03-03
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA 日立CHIBA电子		
申请(专利权)人(译)	株式会社日立制作所 日立千叶电子学的斯可否让这个夏		
当前申请(专利权)人(译)	株式会社日立制作所 日立千叶电子学的斯可否让这个夏		
[标]发明人	SUZUKI SHIGEKI		
发明人	SUZUKI,SHIGEKI		
IPC分类号	G02F1/1333 G06F3/045 G06F3/033 G02F1/133 G06F3/041		
CPC分类号	G06F3/045 G06F3/03547 G02F1/13338		
代理人(译)	李钟IL		
优先权	2000061110 2000-03-06 JP		
其他公开文献	KR1020010087323A		
外部链接	Espacenet		

摘要(译)

本发明涉及触摸屏和绘图输入液晶显示器。并且，通过重复的按压输入操作来防止高电阻膜（11）的破裂，并且限制了坐标检测的故障。为了实现上述目的，使用触摸板提供可靠性的技术板（4A）在基板薄片（4B）上的按压输入操作中具有弯曲的输入单元作用区（NR）并且其面向输入从密封区域（SL）到输入区域（AR）的单位作用区域（NR）和高度逐渐减小的应力松弛构件（100A）包括大屏幕输入型液晶显示装置是板（4A）在软膜构件的内表面中形成相位降解膜（11），并且在输入区域（AR）附近呈现的硬片的内表面中形成低电阻膜（12）的薄片基板（4B）它通过点间隔物（90）的介质在每个电阻膜（11,12）的相对之间进行焊接。

