

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02F 1/133(11)
(43)2001 - 0087323
2001 09 15(21) 10 - 2001 - 0011048
(22) 2001 03 03

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

(71) 가 가
가
가 가 4 6
가 가
2306

(72) 가 5 - 14 - 9

(74)

:

(54)

				(11)	
	.			(11)	
(4A)	(12)	(4B)	(11, 12)		(9
0)	(AR)		(4A)가	(4B)	
(NR)	(NR)	(SL)	(AR)	가	
(100A)					.

1A 1B 1 , 1A ,
1B .

2A 2B 2 , 2A ,
2B .

3A 3B 3 , 3A ,
3B .

4 4 .

5 .

6A 6B , 6
A (4A) 6B (4B) .

7 .

8 1 .

9 1 8
A - A .

10 2 .

11A ~ 11E 5 .

12 .

13 .

14A 14B 13 .

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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) 가
3A (3) 3B

14A

14B
(4A)

13

4B

2

(4A) (4

B)

(11)

(12)

(4B)

(12)

(11, 12)

(90)가

(90)

가

(SL)

(55)

(560)

(55)

(560)

(55) (560) () (71, 72) (71, 72) ()
(80) .

(SL) (NR) (AR) (NR)
가 14B (560) (4A)가
(4B) .

(100')가 (NR) (560)
 , 14B (AR)
(100')

(4B) (100') (4A) (4B)
(71) 가 (560) (4A)
(100') (SF) (4A)
(4A) (SF) (11) () (CL)
가 .

(CL) 1 (11)

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가 ,

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14

14B

가

(

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()

가

가

가

가

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가

가

2

가

가

가

()

가

가

가

가

가

가

가

가

1A 1B 1 1A 1B

14A 14B (PET) (4A) (4B) (4B)

(ITO) (11) (12) (11, 12) (90)가 (90)

(11, 12) (55) (SL) (560) (55) (560)

(55) (560) (71, 72) (71, 72) (80) (SL) (NR) (AR)

(NR) (SL) (AR) 가 (100A)가

(100A) (90) (90) (AR)

(100A) (100A) (90) (90)

A) 가 (100A) 1B (SL) 가 (SL)

(100A) (AR) 가 (100A)

가 (100A) (4B) 1A (56)

0) (4A) (100A) (4A) (100A) (4A) (4A)

(, ,) (4A)

가

, 1A 1B (100A)

1A 1B

2A 2B 2 2A 2B

1A 1B

1A 1B (100A) (SL) (AR)

가
(100B)

(100B) 가 (SL) (AR)

1

(560) (4A) (4A) (100B) (4A) (100B)

(4A) (4A) ()

가

3A 3B 3 3A 3B

1A, 1B, 2A 2B

(100C) 가 (SL) (100C)

(4B) 가 (4B) (AR) (SL)

(72) V 가 (100C)

3A (100C)

0C) 가 (100C)

(560) (4A) (4A) (100C) (4A) (100C)

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

가

4 4 1A, 2A 3A

(100D)

(4B) (NR) (101)

가 가

(560) (4A) (4A) (4A) (4A) (100D)

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

가

5

2 (4A) (11)

(PET) (ITO)

(4B) ITO (22)

(4A) (11) (11) (55)가

(()) (55) (53, 54)가 (55)

(4B) (22) (53, 54) (43, 44)가

(4A) (4A) (53, 54) (T1, T3) (43, 44)

(T2, T4) (53, 54)

4) (43, 44)

(x : X , y:Y) (11),(22) () (x,y) →

6A 6B 6A

(4A) 6B (4B)

6A (4A) PET ITO (41)

(41) (51)

(41) (Y1, Y2)가 (41)

(1) (55) (51) () (51)

(2) (56) (X1, X2)가 (5

5) (56) (51) ITO

(Y1, Y2) (X1, X2)

(4B) 6B (42)

(42) (52)

(4A) (4B) (51) (52) (

1) (4B) (42) (51) (x, y)가 (52) (4A) (T1) (Y1, Y2) (T2) (X1, X2) (4B) (4A) T2 T4 (4)

7 (4A) 6A 6B (4B) 5 (4B) (22) (4A) (T1) (T3) (4B) (4A) (T2) (T4) (4A) (4A) (51) (22) (x, y)가 (4A)

8 1A 1B 1C 1D 1 (1D) 가

2 () , 4B () , 3B () , 3A () , 4 () , 4A () (1) 1.5mm (2) (3A) (3B) (3) (4) (1) (2) (3A) 2.0mm (2) (4) (3) (5) (3A)

9 - A (4) (3A) (3) (2) (1) (5) (1) 8 A

가 PDA 가 가

10 (1) (1) (3) (1) (3)
 (1) (1) (3) 가 (1)
 (1) () (4) (1)

2 (1A, 1B)
 (1C) (1) (2) (2)
 (3A) (3B) 가 (3) (3) (2)
 (1) (5) (1)

(2) (2) (1)
 (110)

(3) (12) ()
 (1) 가

11A ~ 11E 5
 (1)(18) (19))
 (2) (4)
 (15) (4) (20)

(1) (18) (21) (22)
 (19) (2) (3A)(3B)
 (3A) (2) (4) (4)
 (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

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(PDA)

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가

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(57)

1.

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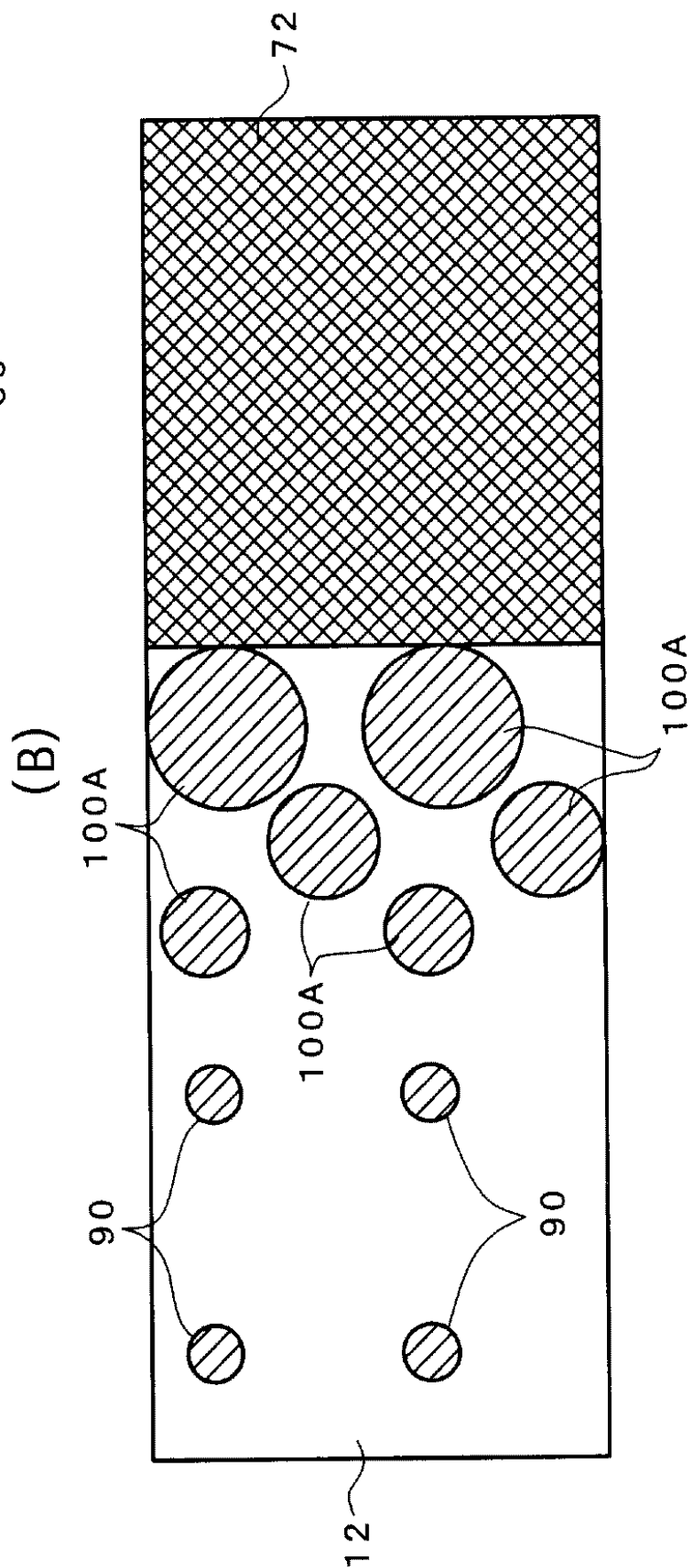
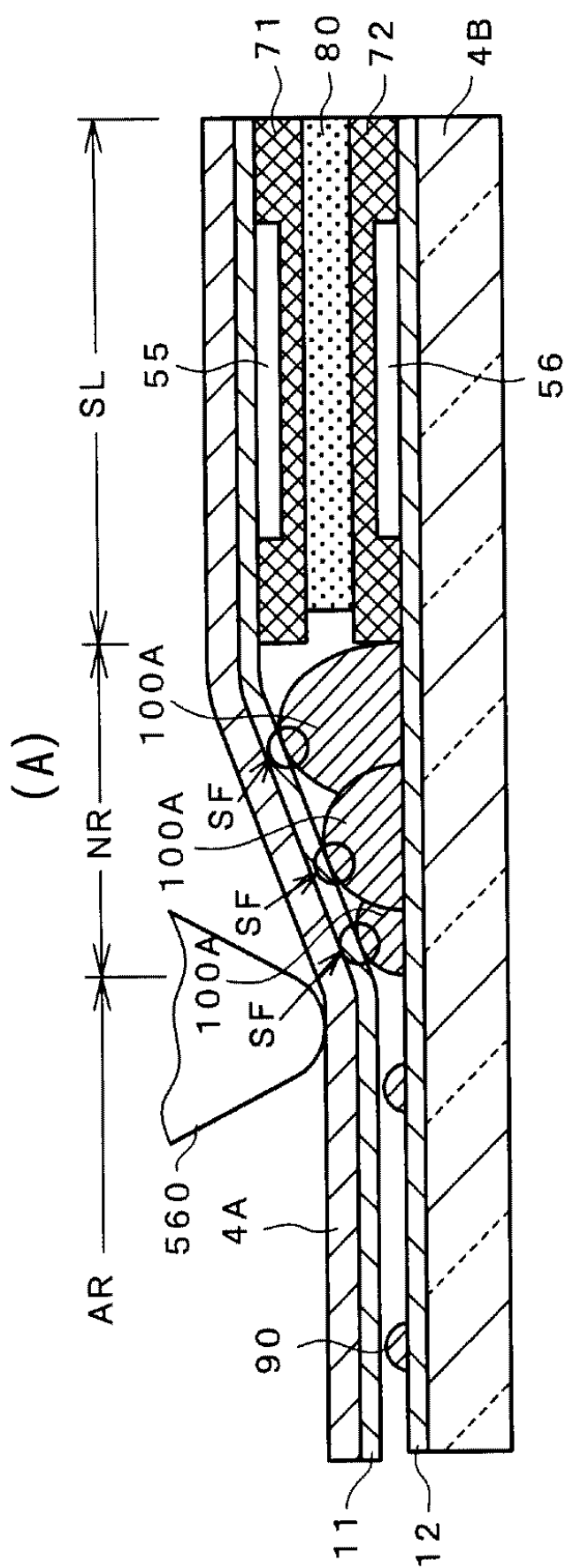
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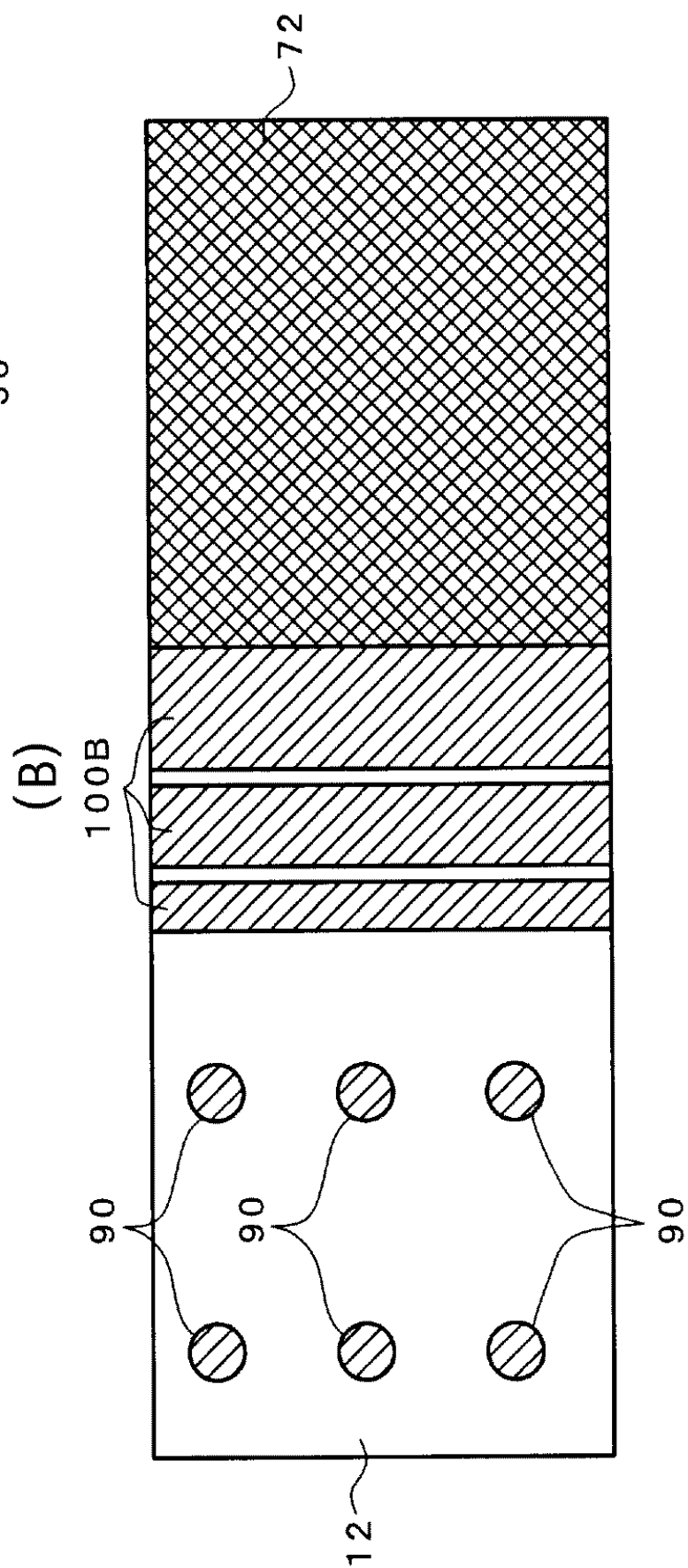
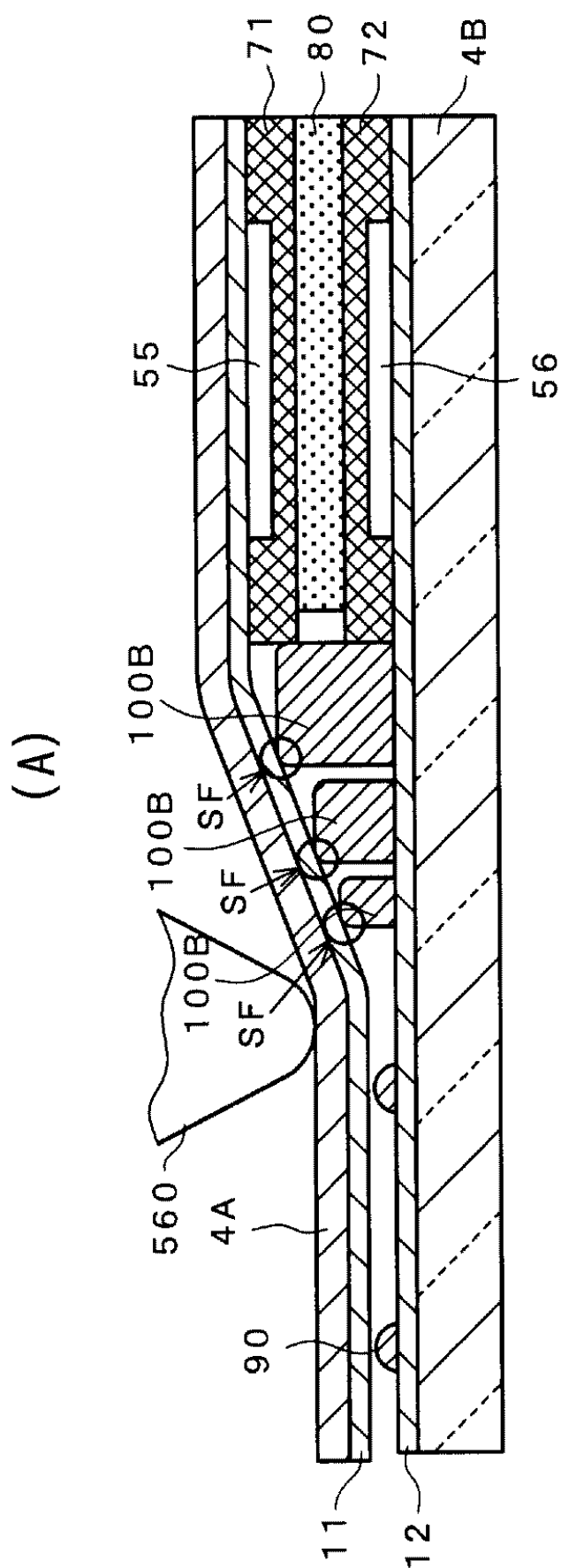
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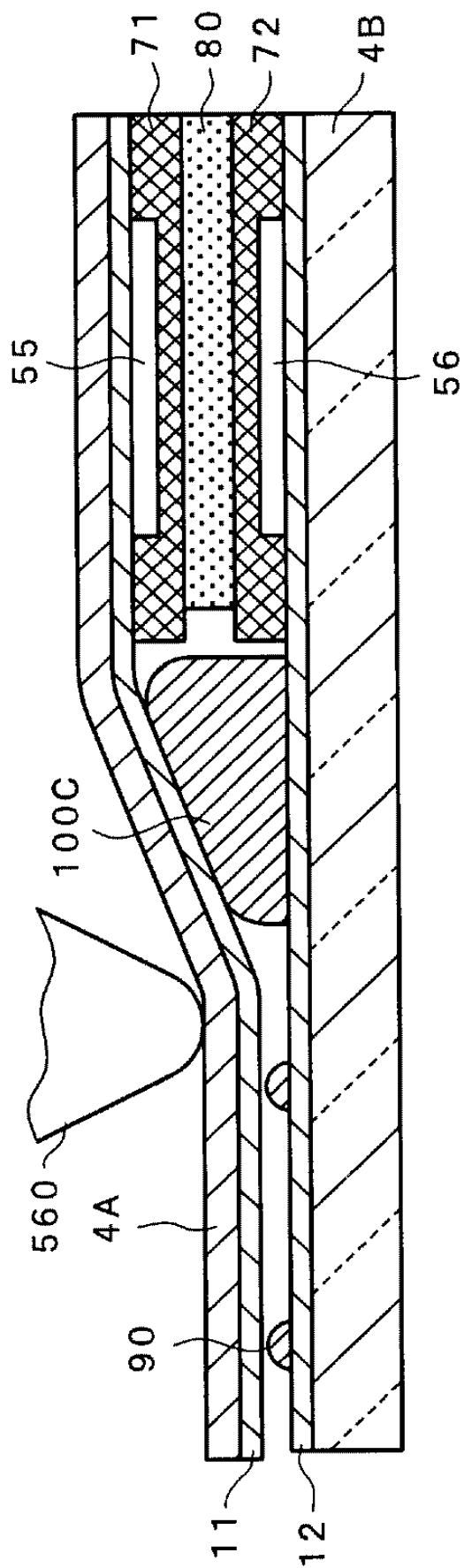
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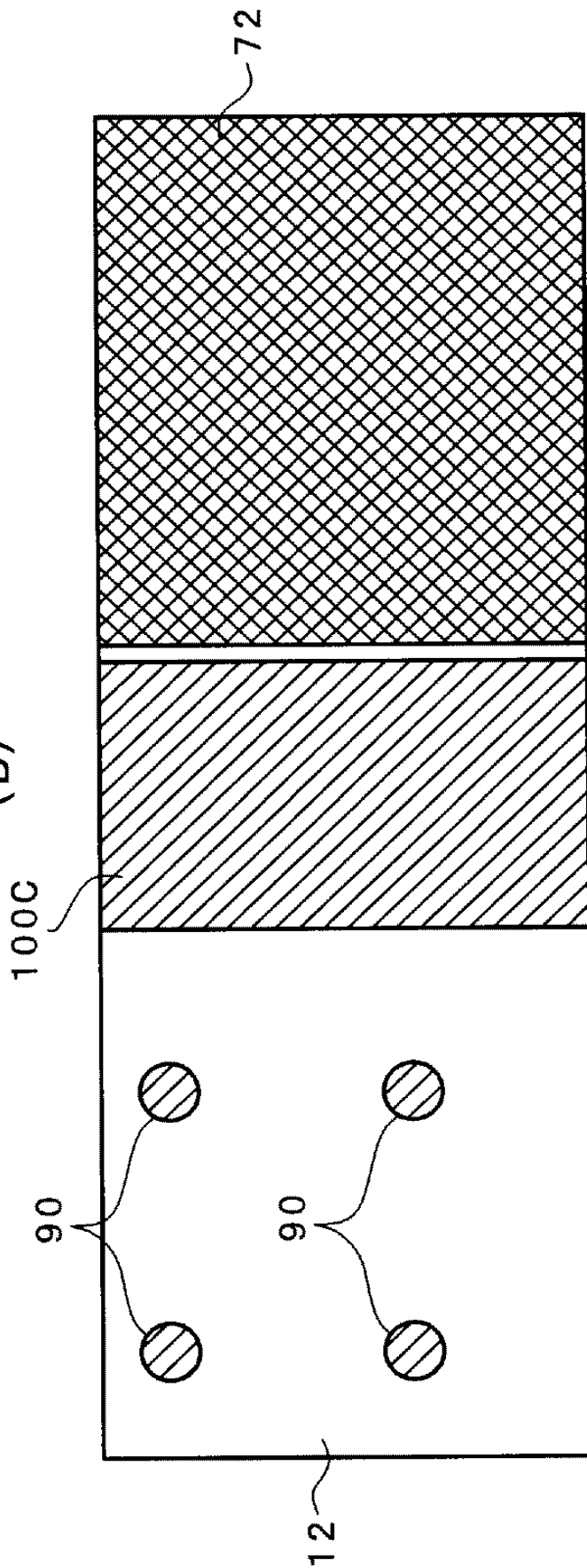




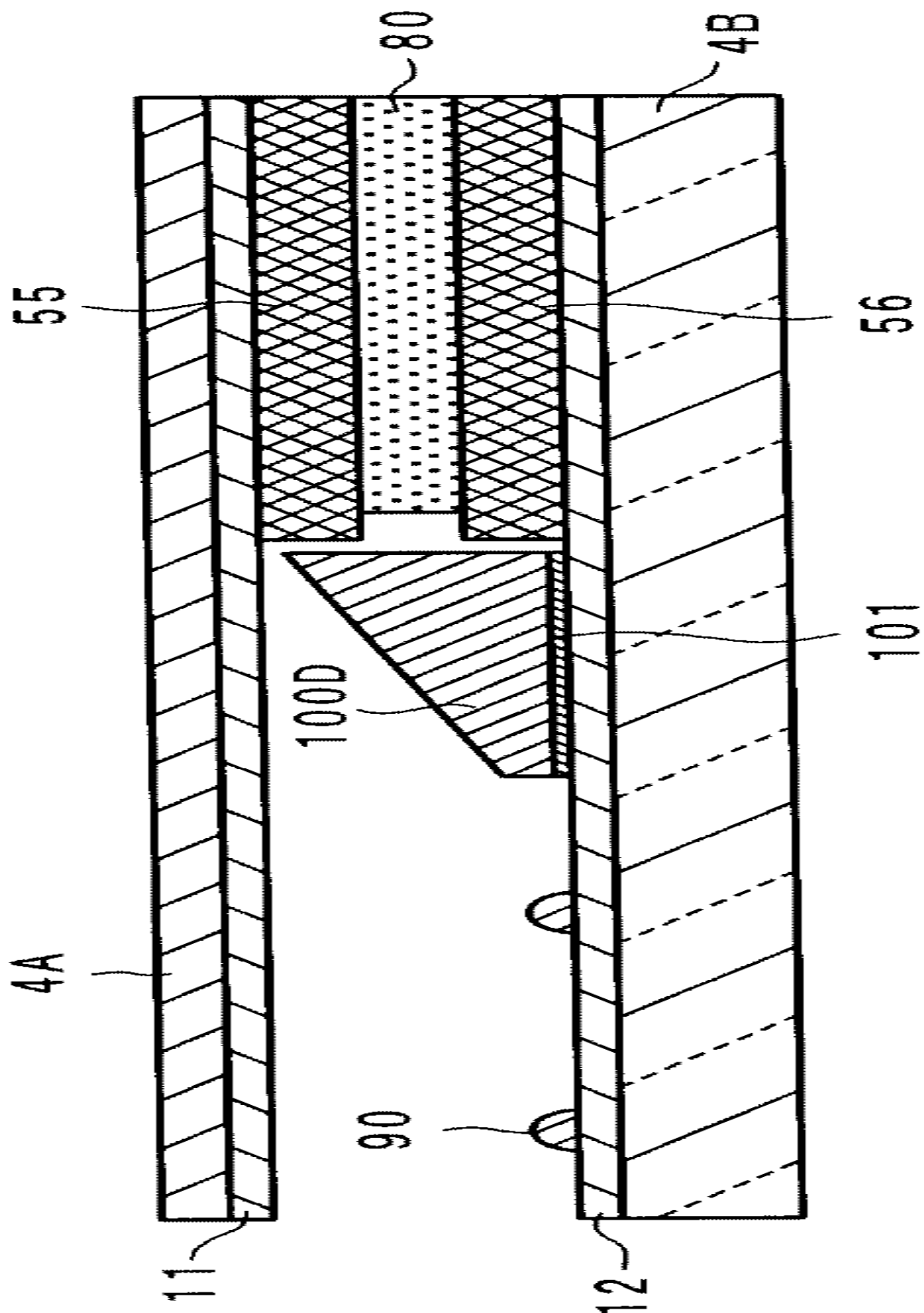
(A)



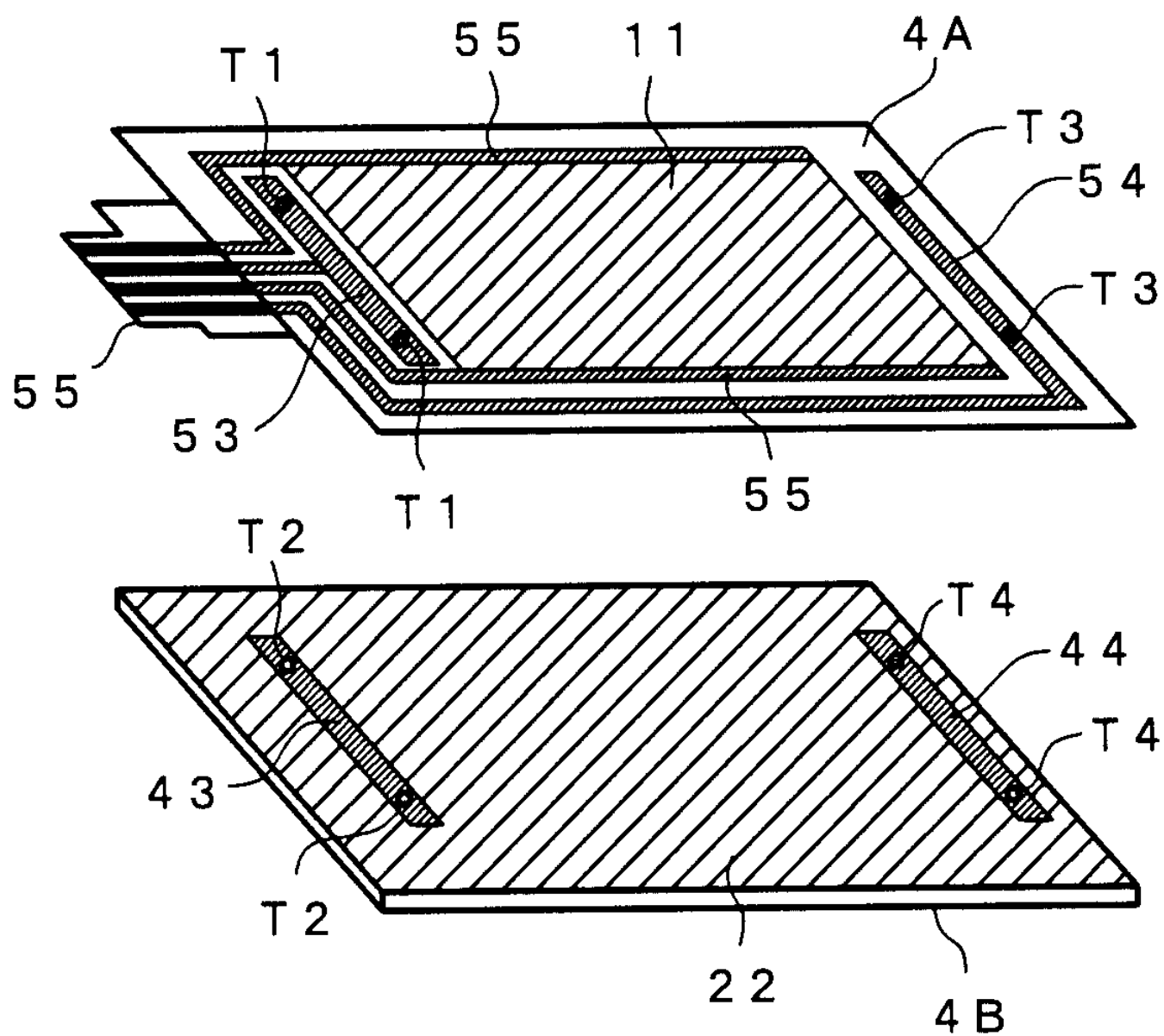
(B)



4

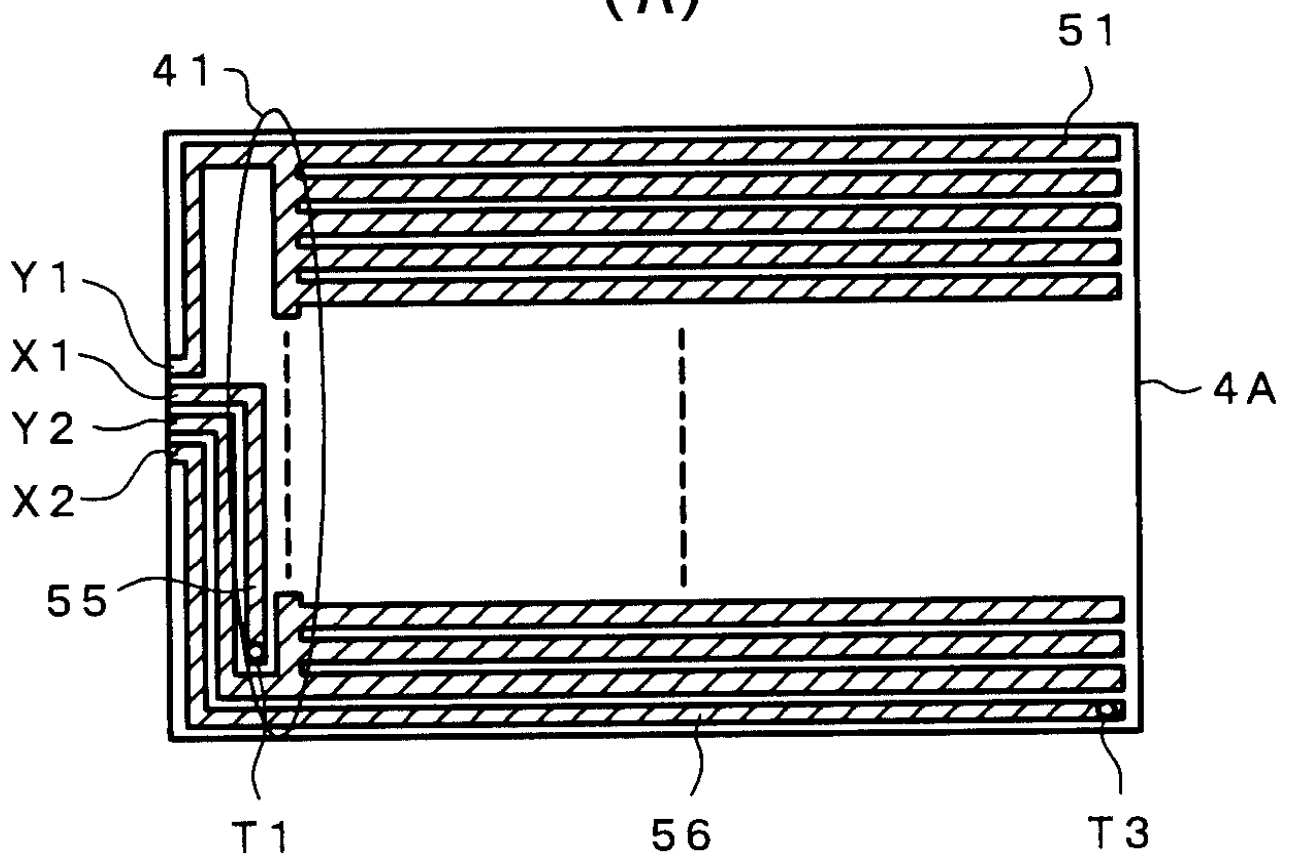


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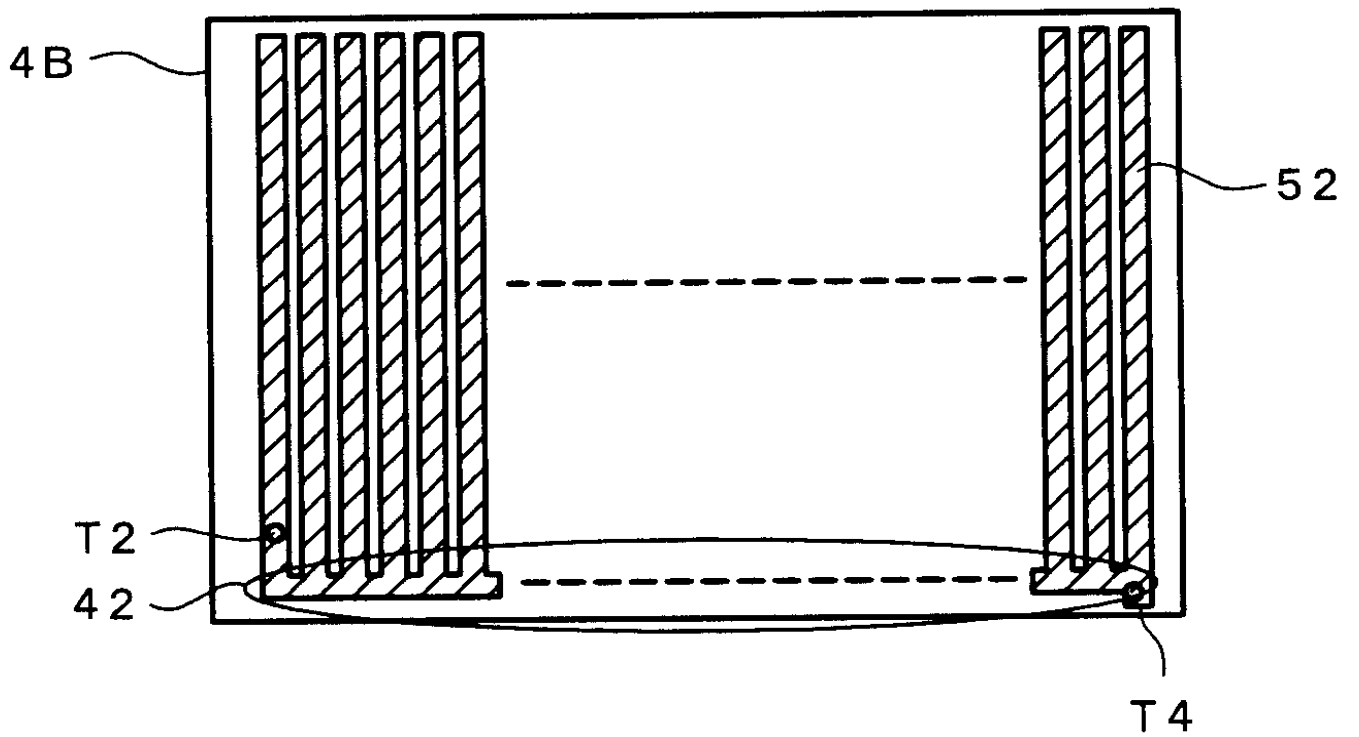


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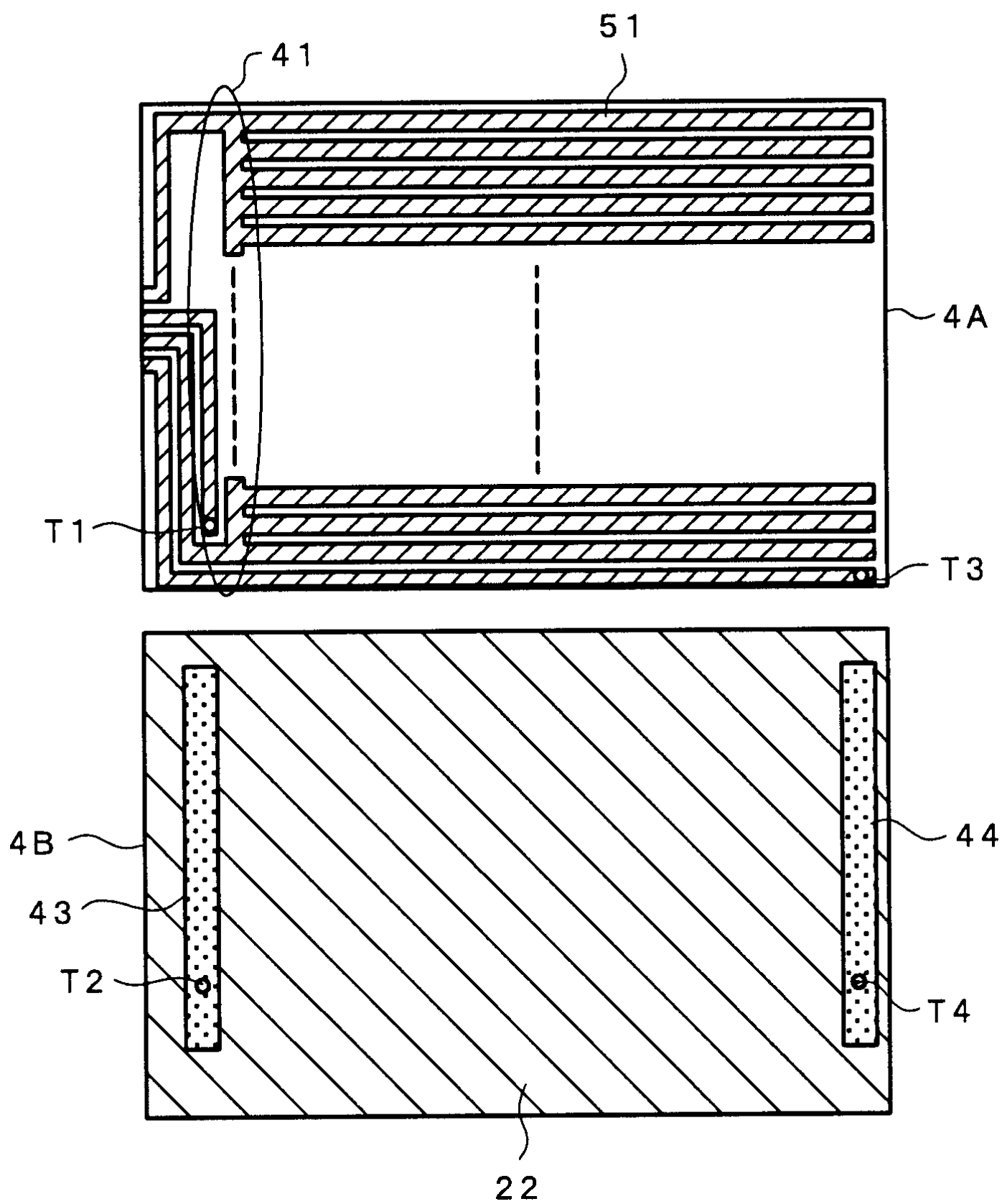
(A)



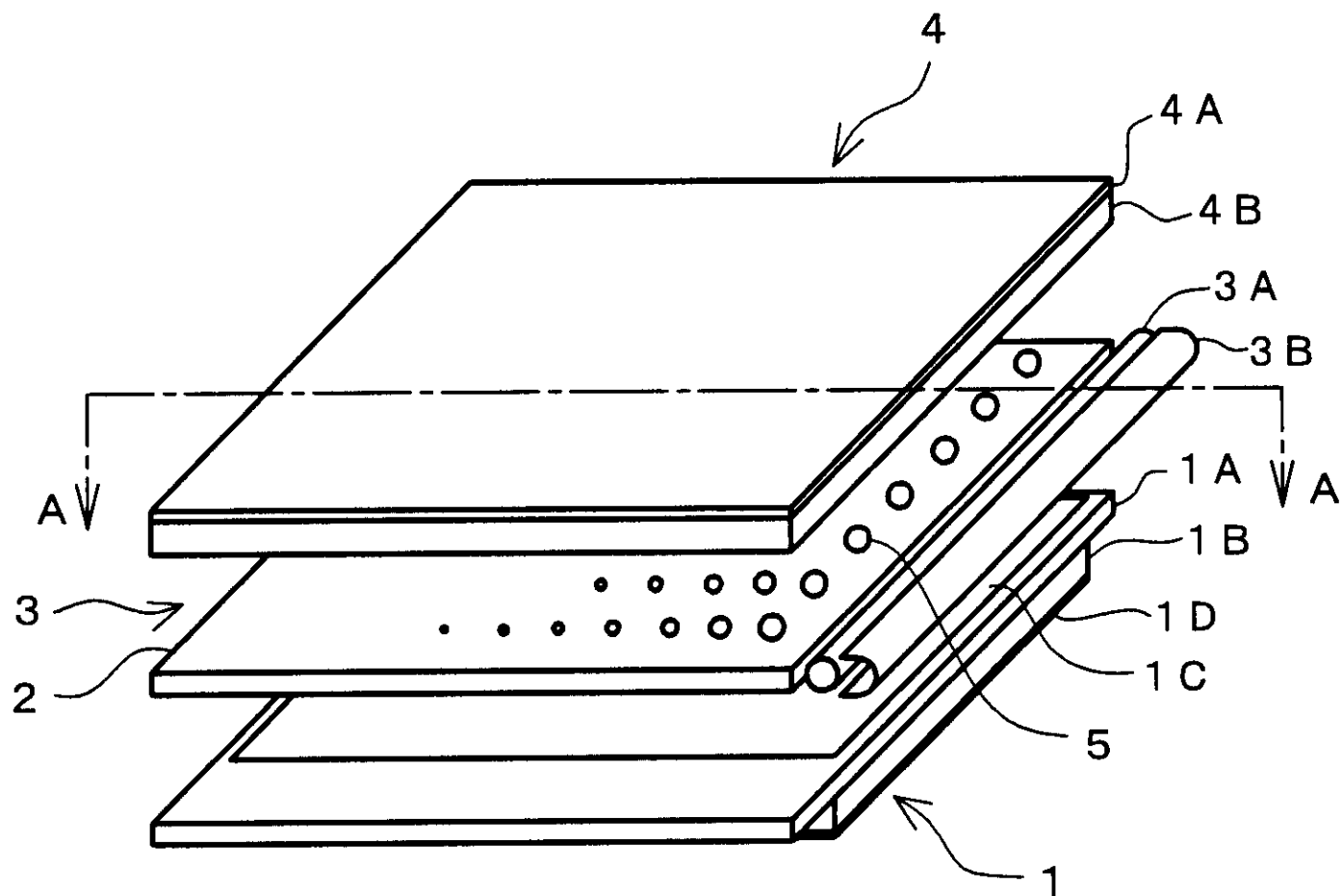
(B)



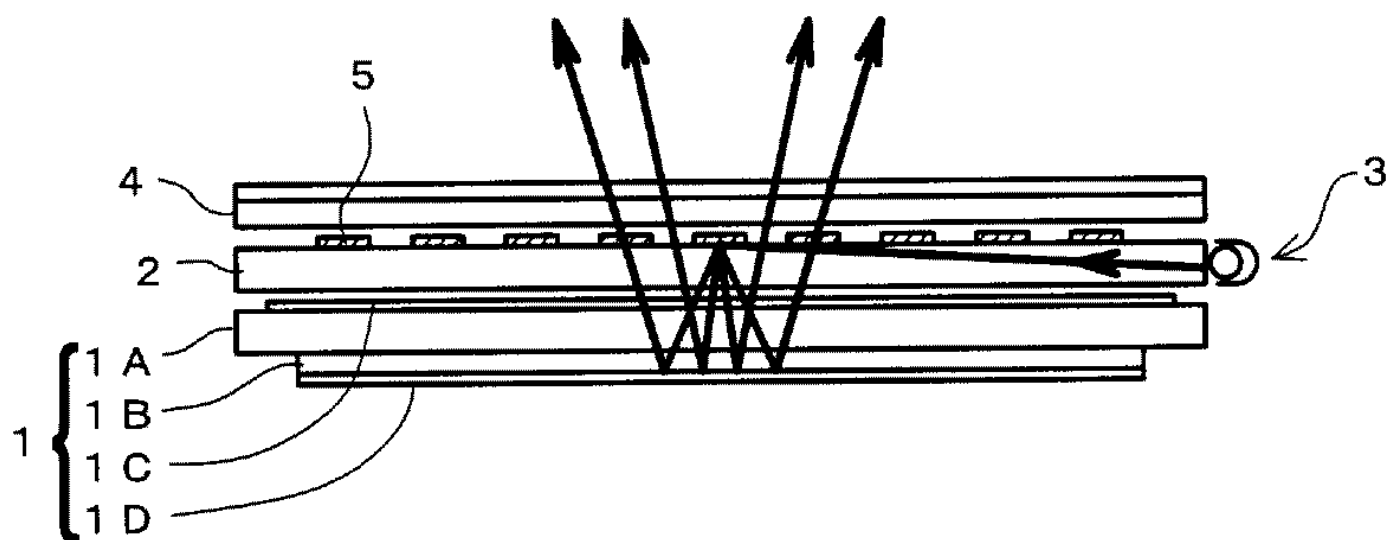
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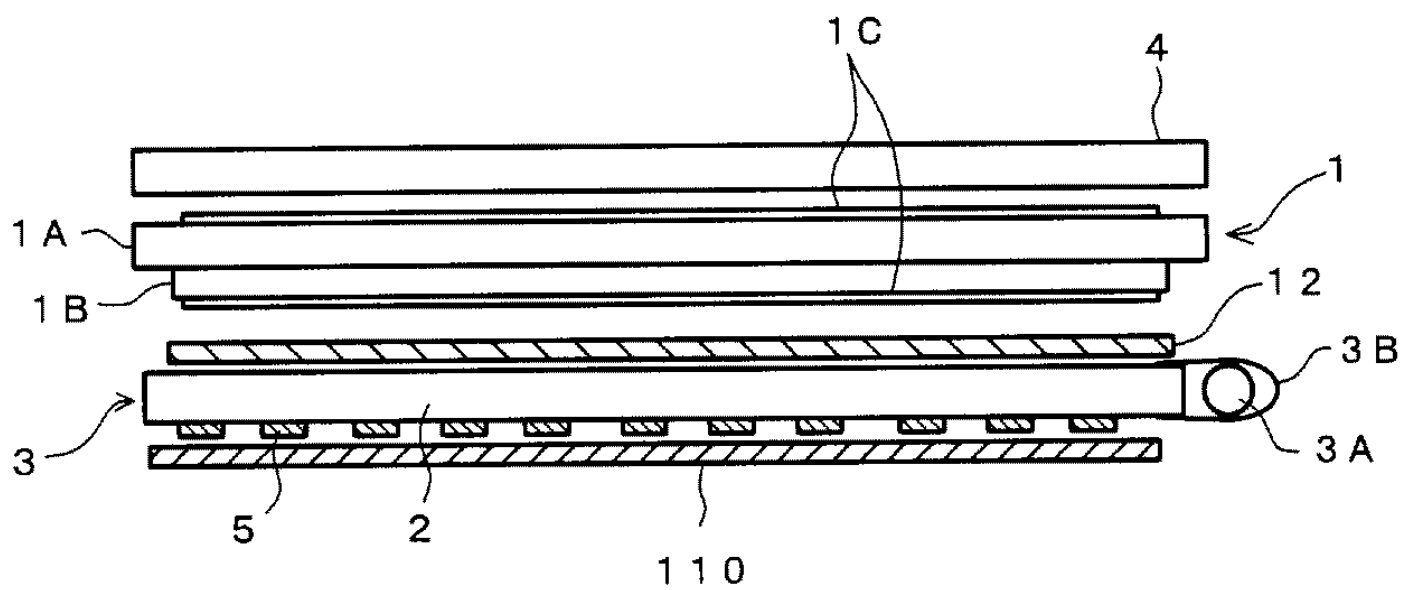
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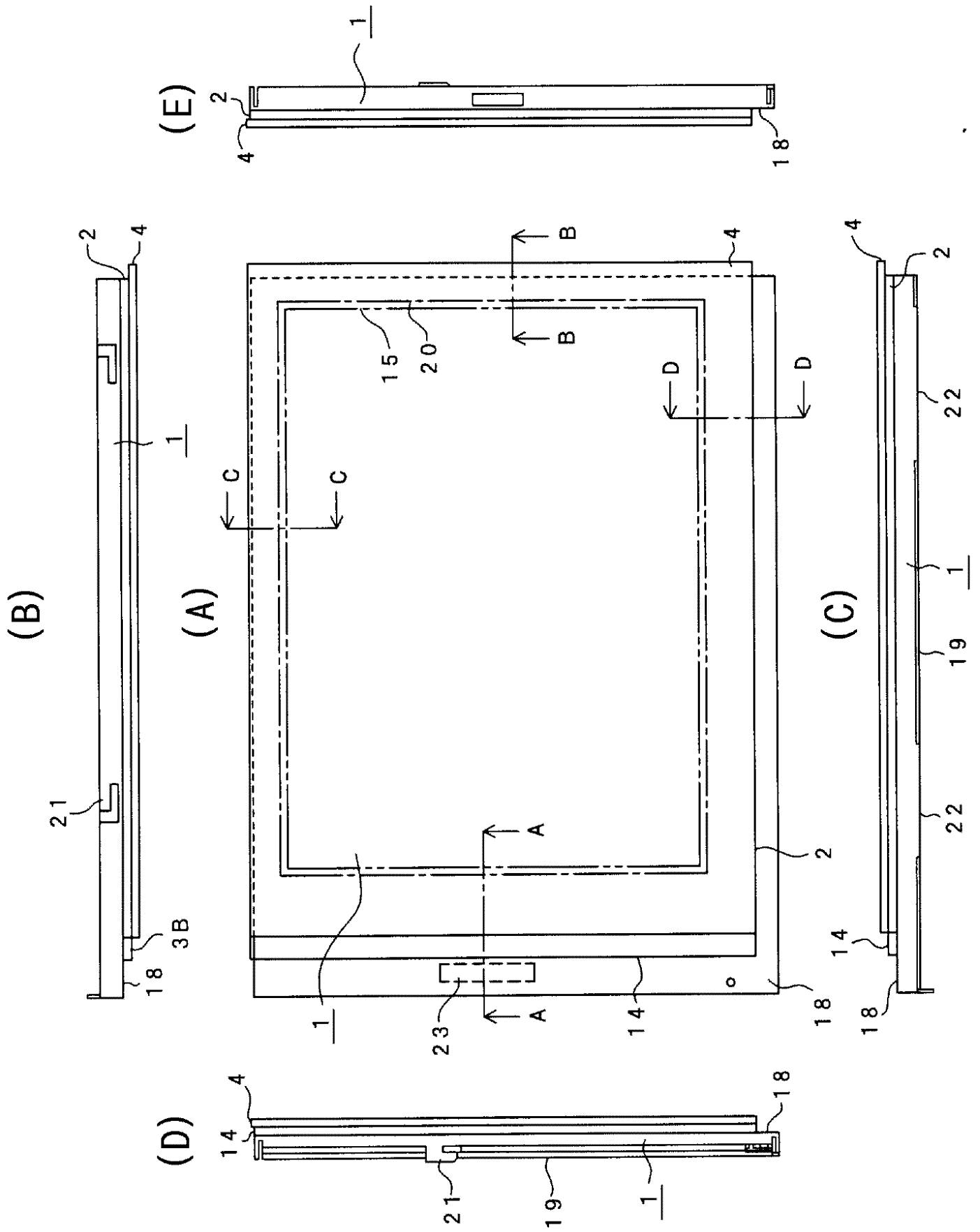
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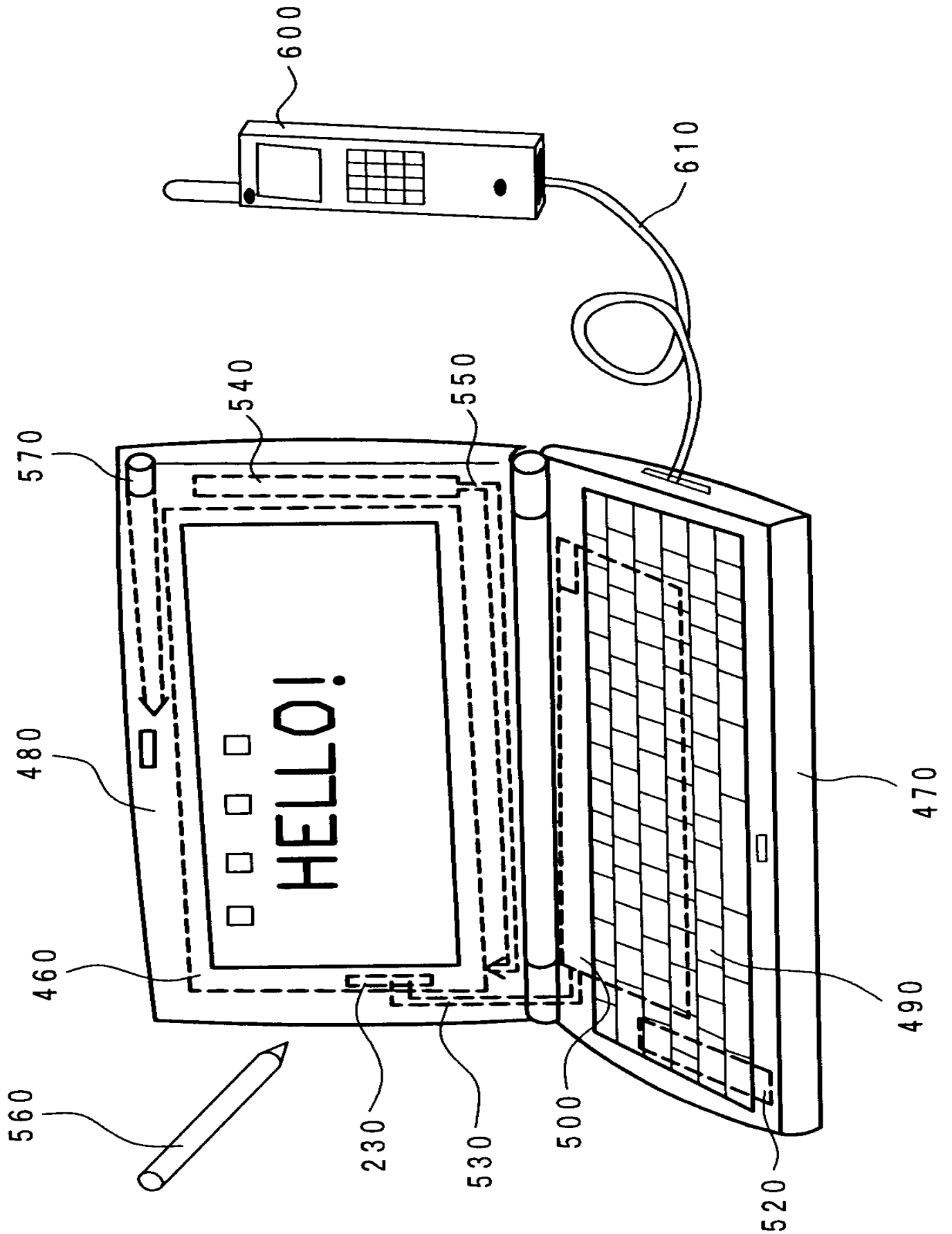
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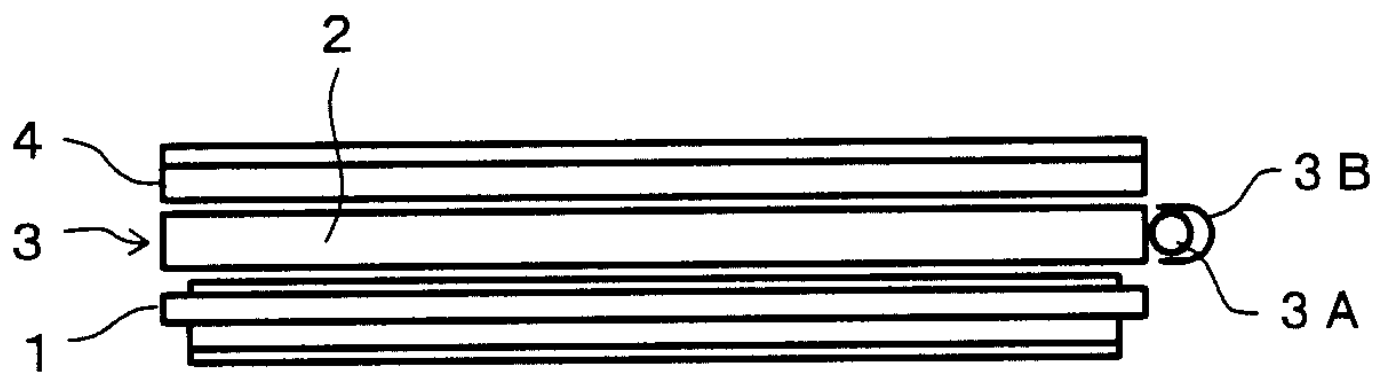
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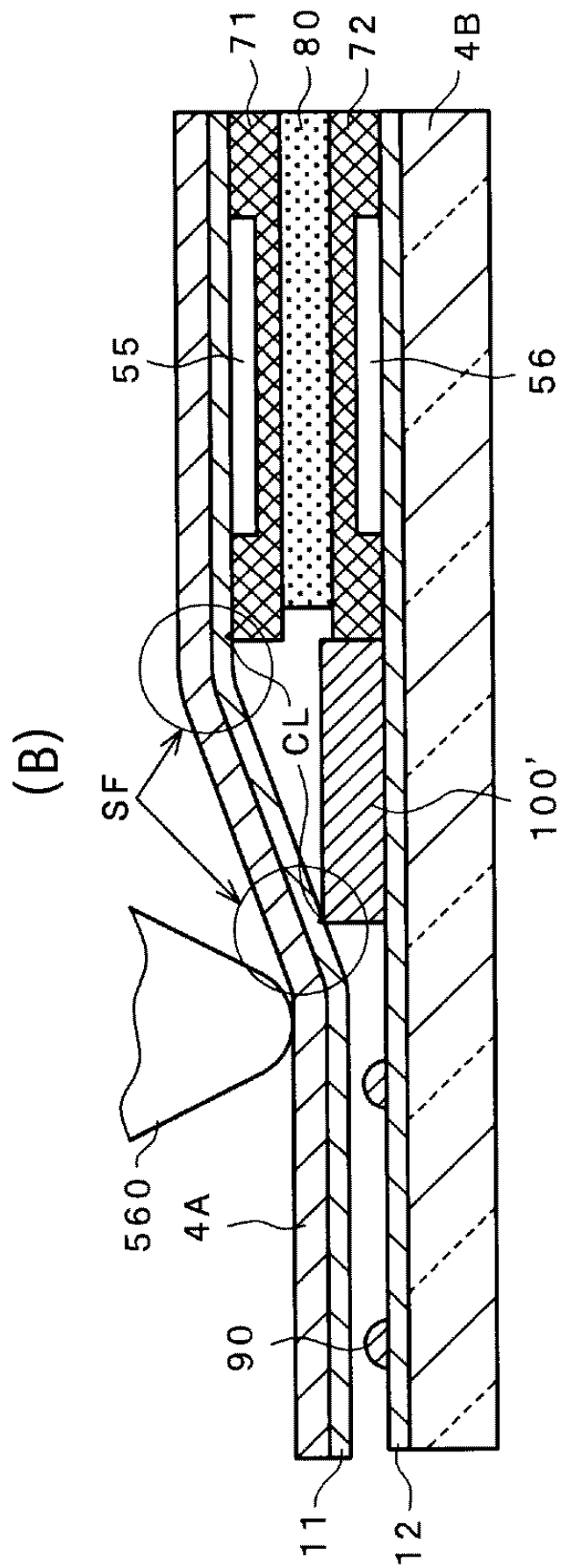
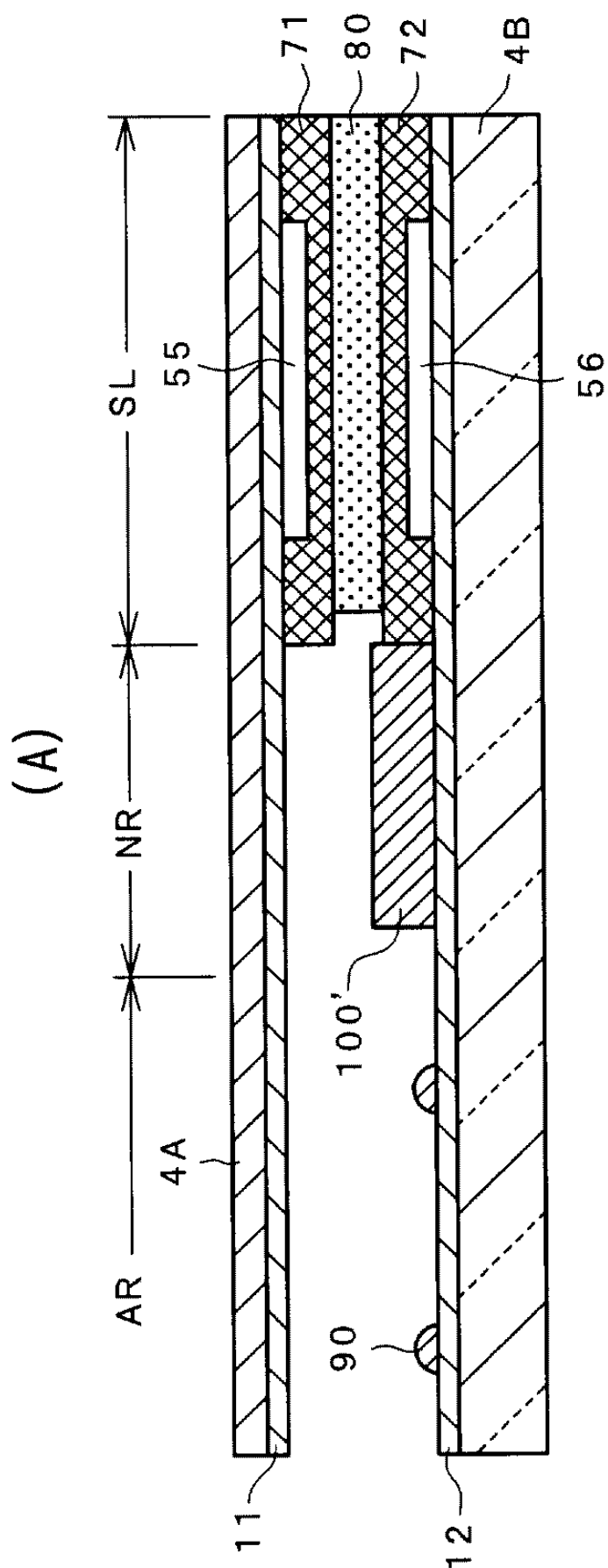


12



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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	KR1020010087323A	公开(公告)日	2001-09-15
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	G02F1/13 G02F1/1333 G06F G06F3/045 G02F1/133 G06F3/033 G02F 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	KR100411503B1		
外部链接	Espacenet		

摘要(译)

本发明是为了防止通过反复利用触摸面板和绘图输入型液晶显示装置进行的按压输入操作而使相位电阻膜11破裂的情况，并抑制坐标检测的故障。为了实现上述目的，每个电阻膜包括上板4A和下板4B，上板4A具有在软膜构件的内表面上形成的上下膜11，下板4B具有下电阻膜12在硬板的内表面上形成。通过在（11、12）的相对侧之间接合点间隔件90，通过围绕输入区域AR的按压操作来将上板4A弯曲到下板4B侧的输入部操作区域。NR）和高度减轻部件100A，该高度减轻部件100A的高度从输入部操作区域NR中的密封区域SL侧到输入区域AR侧逐渐减小，并且提供了使用触摸面板的高度可靠的屏幕输入液晶显示器。提出了用于提供设备的技术。

