

(19)
(12)

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(A)

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(43)

2001 - 0098477
2001 11 08

(21) 10 - 2001 - 0018602
(22) 2001 04 09

(30) 2000 - 109665 2000 04 11 (JP)

(71) 가 가
가 가 6 7 35

(72) 가 가 6 7 35 가 가
가 가 6 7 35 가 가

(74)
:

(54)

	EL	가	,	,	가	,	
	.	EL	(2)	(1)	.	EL	(2)
	(5)	-	가	(5)	가	EL	(2)
	.	(end - sealing)	가	가	가	.	
(6)	-	가	-			.	E
L	(2)	-	(5)	.		EL	가

1 EL
2 1 EL EL
3 1 EL EL
4 2 3 EL
5 4
6a 6b 4
7a 7c 4
8a 8b 4
9 EL
10 9
11 EL
12 11 (film - like)
13 EL 가
14

*

1. 2. EL
3. 4.
5. 6.
7.

EL

(d) 가 가 가 , (pitches)
 , EL 가 13 (L) (,
), 가 L 2 가 , 가
 , 가 .
 , (b) EL (a) 가 ,
 (c) , (d) ,
 .
 EL , EL 가
 (a) - (d) .
 , , 가
 , 가 EL , 가
 .
 , 가
 , 가
 , 가 ,
 가 , 가 ,
 .
 , 가 .
 , 가
 , 가 ,
) , , 가 ()
)
 가 가 ,
 가 .
 가 EL (, EL) , 가 EL
 . - 가
 - 가

가 , EL EL - .

EL 가 , - 가 EL

가 , , ,

가 , , ,

EL

1 EL , (2)가 (1) (1) (rear surface)(

2 3 EL EL (2)

2 EL (2) 4 () (3) , (

) (4)

EL (2) (space) EL (2)

(3) ITO(indium - tin oxide) (4)

(3) , (1)

(1) EL (2) (2) (3)

(4) , (1) EL (2)

(4) (4) (1) EL (2)

(4) EL (2)

3 , (5) EL (2) EL (2) ()

(5) EL (2) (4) (3) ()

(6)가 .

4 EL (2) (5) EL (2)
 (3) (1) 가 (4) (4) (((2)
 (h)) () ((h)) (7) (3) (4)
 (7) (, (organic hole transport layer) ,)
 (3) (4) (3) (8) .
 (5) (1) (5) EL (2) (3)
 가 (4) ((h)) (through - hole) (a1) 가
 , (a2) 가 EL (2) (3) ()
 (a1,a2) (binder) (conductive paste)(
)(9)가 (a1) (9) (5) , ,
 4 (10a,10b) .
 (2a) (9) (5) (10a,10b) (11a,11b)
 . 3 , (6)가 () , (10b,11b)
 (6) (wiring)() .
 5 (5) (10a,11a) .
 (a1,a2) (10a,10b,11a,11b) , (1) - (5)
 .
 (1) 6a , (5) (21) (22) (a1,a2)
 , 6b , (a1,a2) (23)
 (sandblast) ((24)) (a1,a2)
 .
 (2) 7a , (a1,a2) (9) , (21)
 (9) (polishing) .
 (3) 7b , (21) 가 (25)
 , 가 (26) .
 (4) 7c , (a1,a2) (27) , (a1,a2)
 (26) 가 (28) (29) (28) 3
 (6) .
 (5) 8a (27) , (a1,a2) (25)
 (26) 8b , (25) , (26) , (28) , (29) 4 (25)
 (10a,10b,11a,11b) .
 4 , (5) (12) (5) (1)
 0a,11a) (3) (4) EL (2) .

(5) EL (2) 가 (15) 가 , , 가 (10a,11a) , 가 (5) 가 (5) EL (2) , 가 (15) .

3 , EL (5) - (13) (5) - (13) 가 , 가 .

EL (5) (6) 4 (5) (10a) , 4 (2) (3) (10b), (silver paste)(9) EL (2) (4) (11b), (5) (silver paste)(9) (11a) , (1) .

가 EL . EL (2)가 EL (1) , .

, 가 EL (2) .

3) (1) EL (2) (EL (2) ((10a, 10b, 11a, 11b) - (13)), EL (2) 가 (5), EL 가 .

(3) (5) (a1, a2) (3) (4) (, (6)가 (3) (4) EL (2) .

9 (1) 6 EL (2) EL (2) (5) 5 (5) 가 (EL (2)) (5) , 가 .

10 9 (5) EL (2) (3), (4) (10a) . (5) EL (2) (3) (4) (2) (4) (10a, 11a) ((3) (4)), EL (11a) (4 h) .

10 , , 가 9
 , (5) (10a, 11a) EL (2) (3) (4)
 , (5) 가
 , 가
 (5) (12) , (5)
 , (5)
 (1) , (PMMA(poly
 methyl methacrylate))
 , 11 (film - like) (14)
 12
). , (5) (12) , (14) (5)
 , (5)
 EL (2) EL (2) 4 (3) 4 (4) ,
 (3) , (4) (1) 가 (4) EL (2)
 (3) (4) (1) 가 (3)
 , (gold bump) (5)
 (3)
 , EL 가 (1)
 , EL (1) EL 가
 , 가
 (3) (4) (7) XY -
 TFT(thin film transistor)가
 EL (2) (3)
 EL (2)
 (4)

가
EL , EL 가 가

(57)

1.

가
가

2.

1 ,

(film - like)

3.

1 ,

가

4.

3 ,

5.

3 ,

가

6.

3 ,

EL ,

가

EL

가

가

EL 가 ,

- 가
EL .

-

7.

6 ,

.

8.

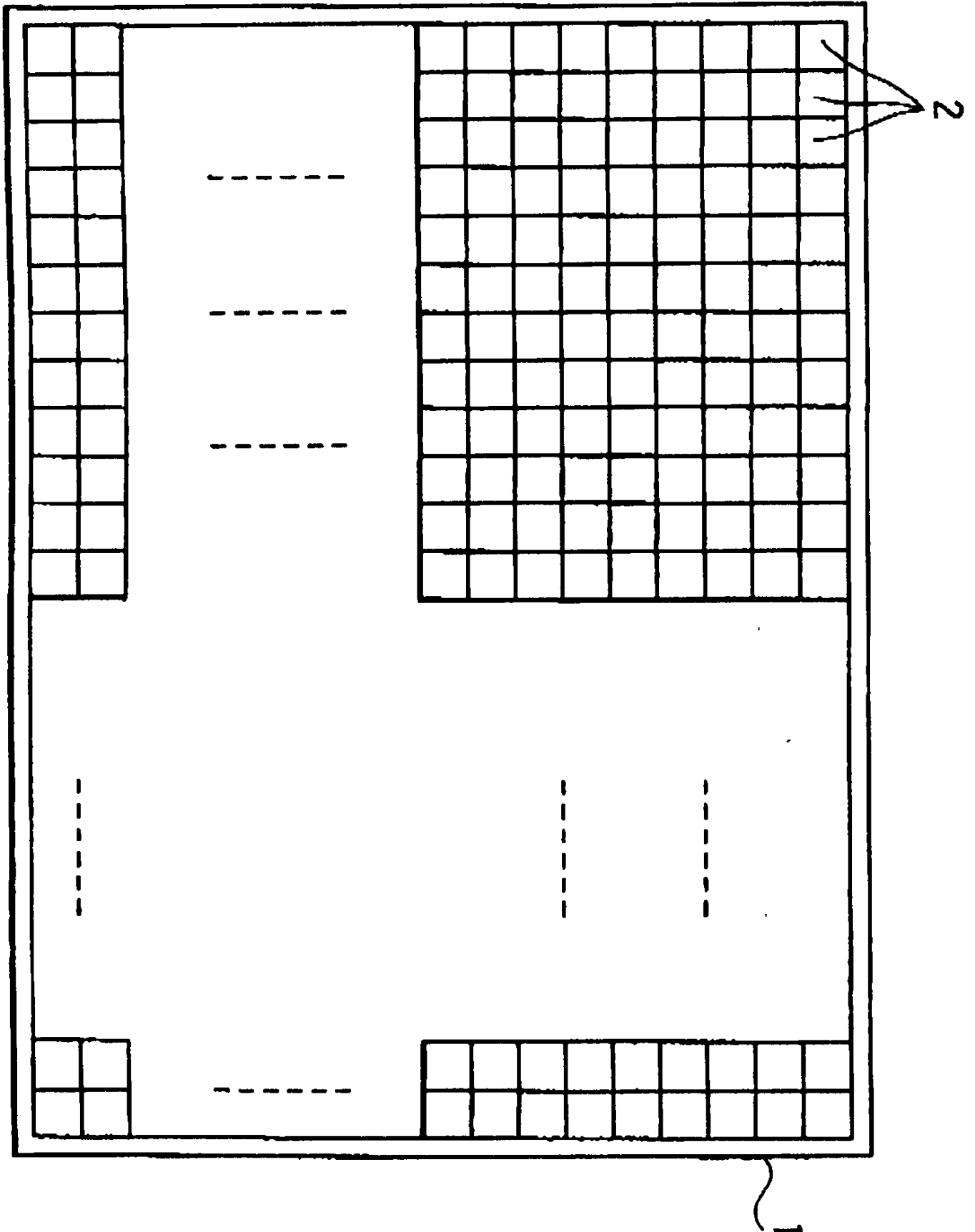
6 ,

가 .

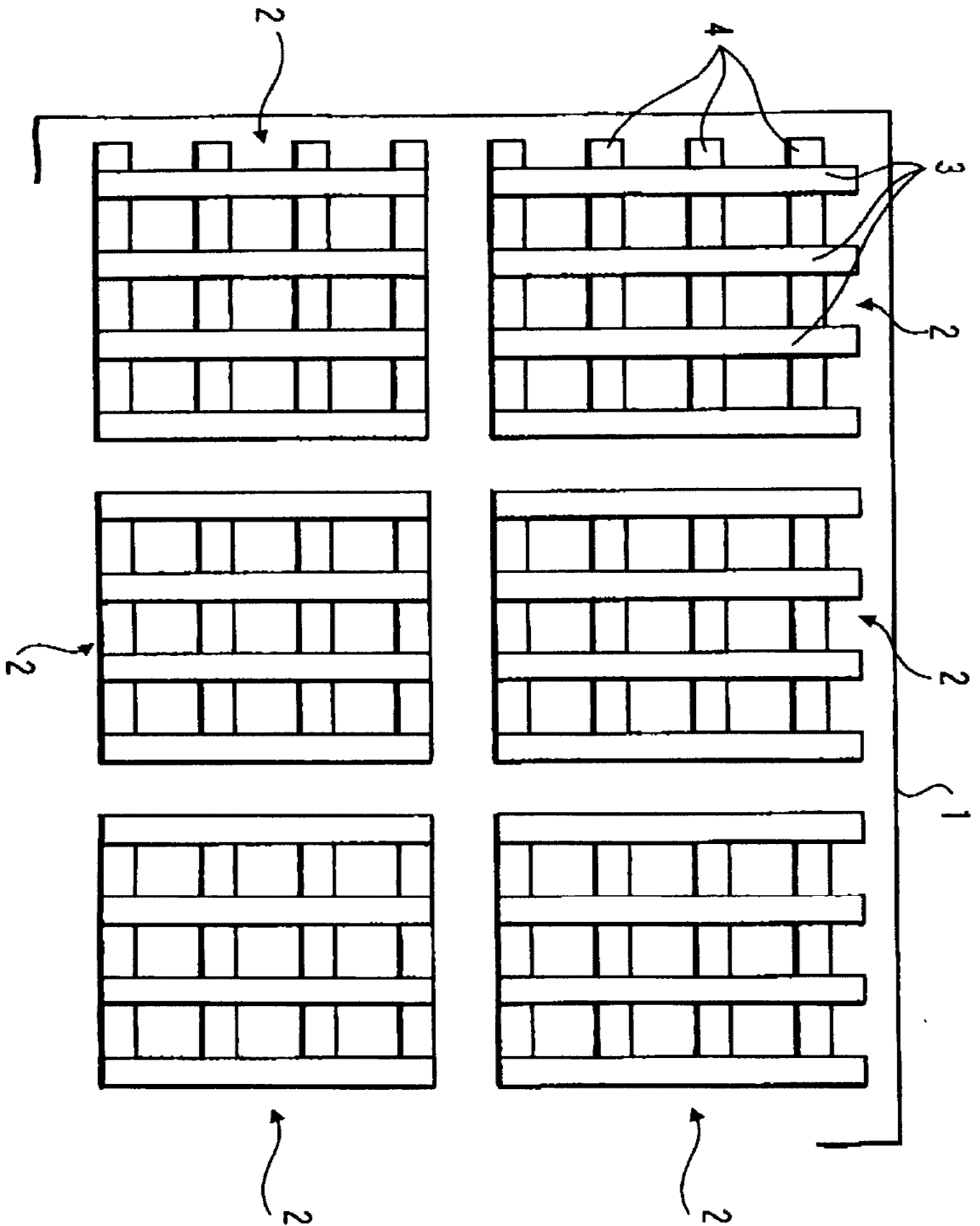
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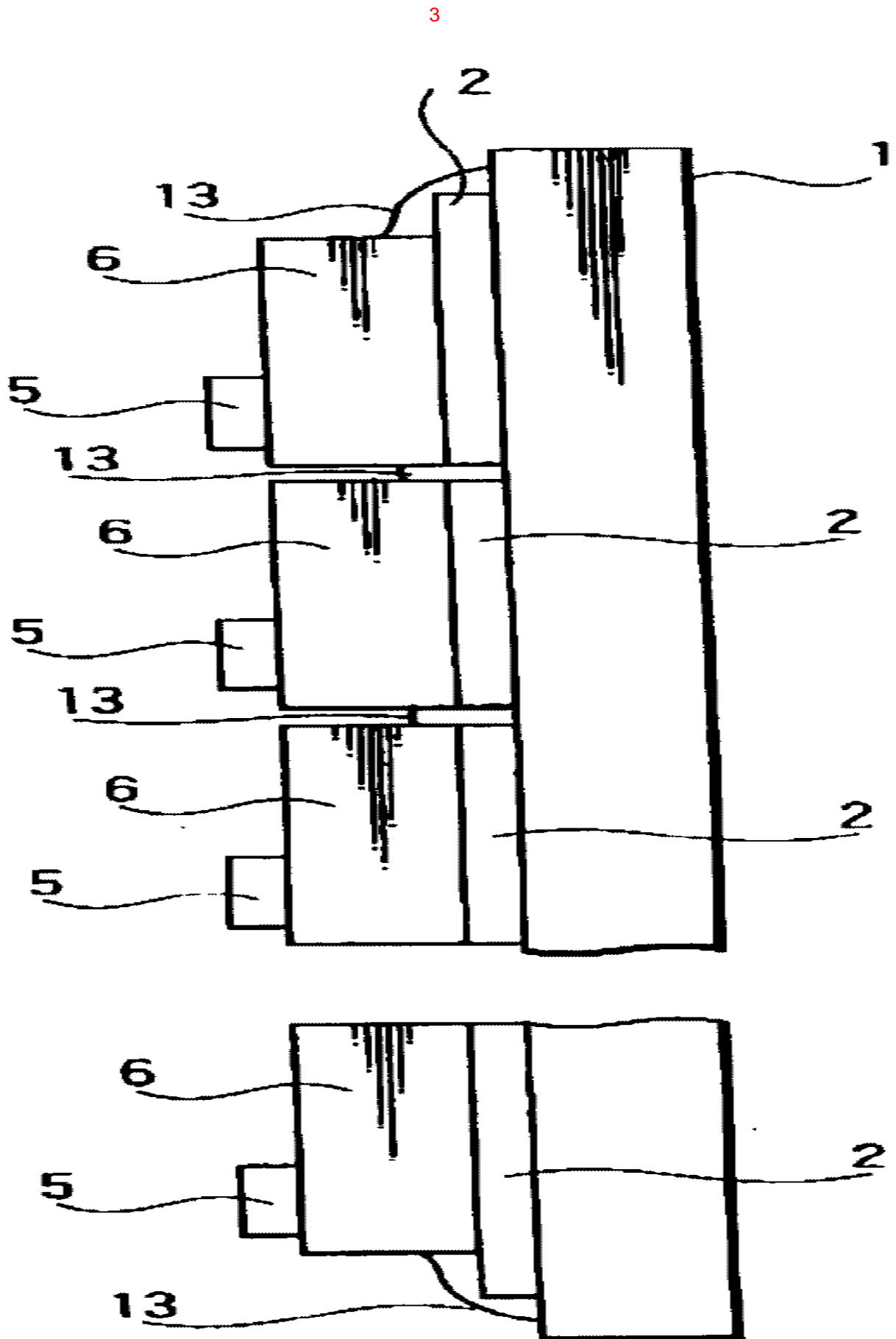
가 .

1

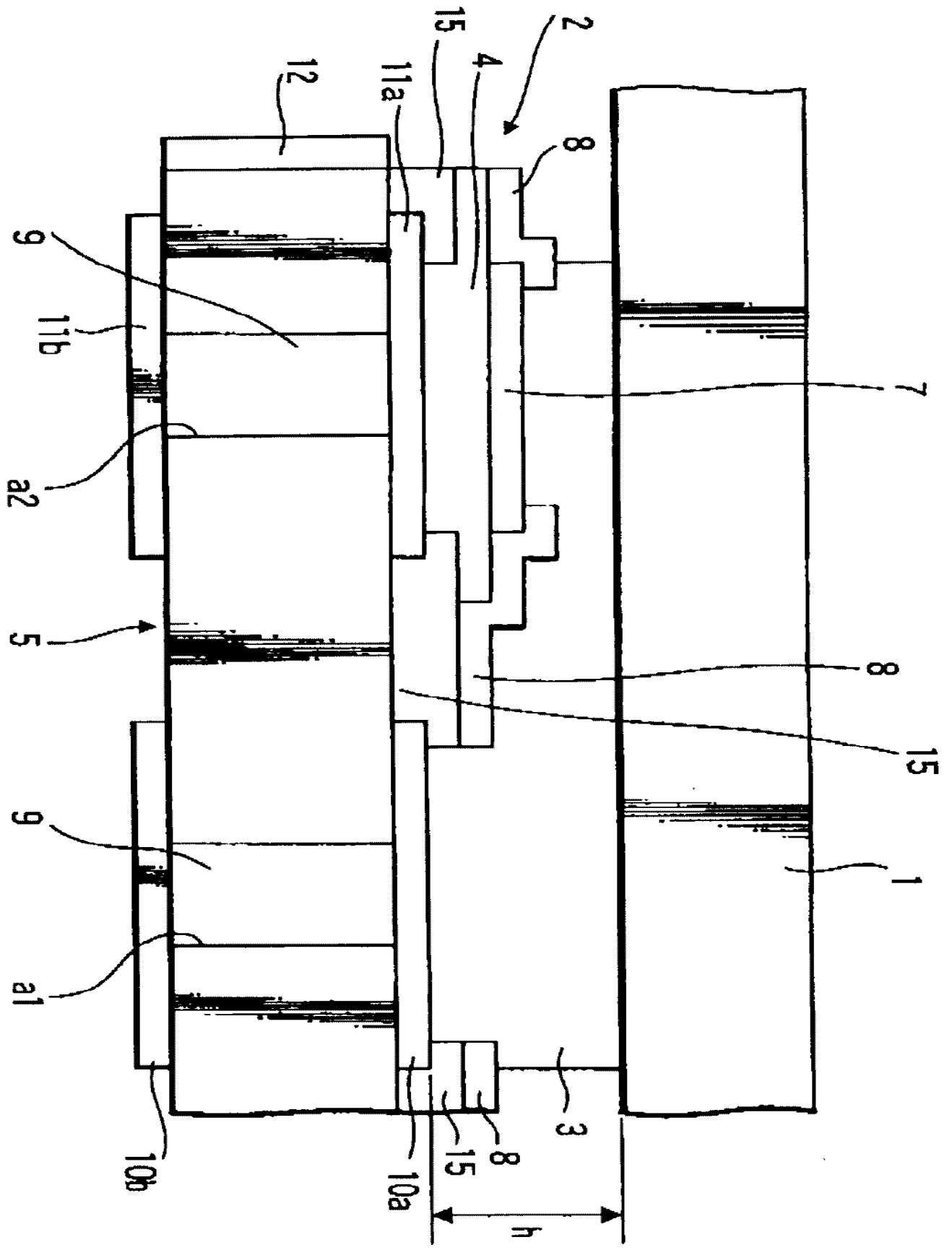


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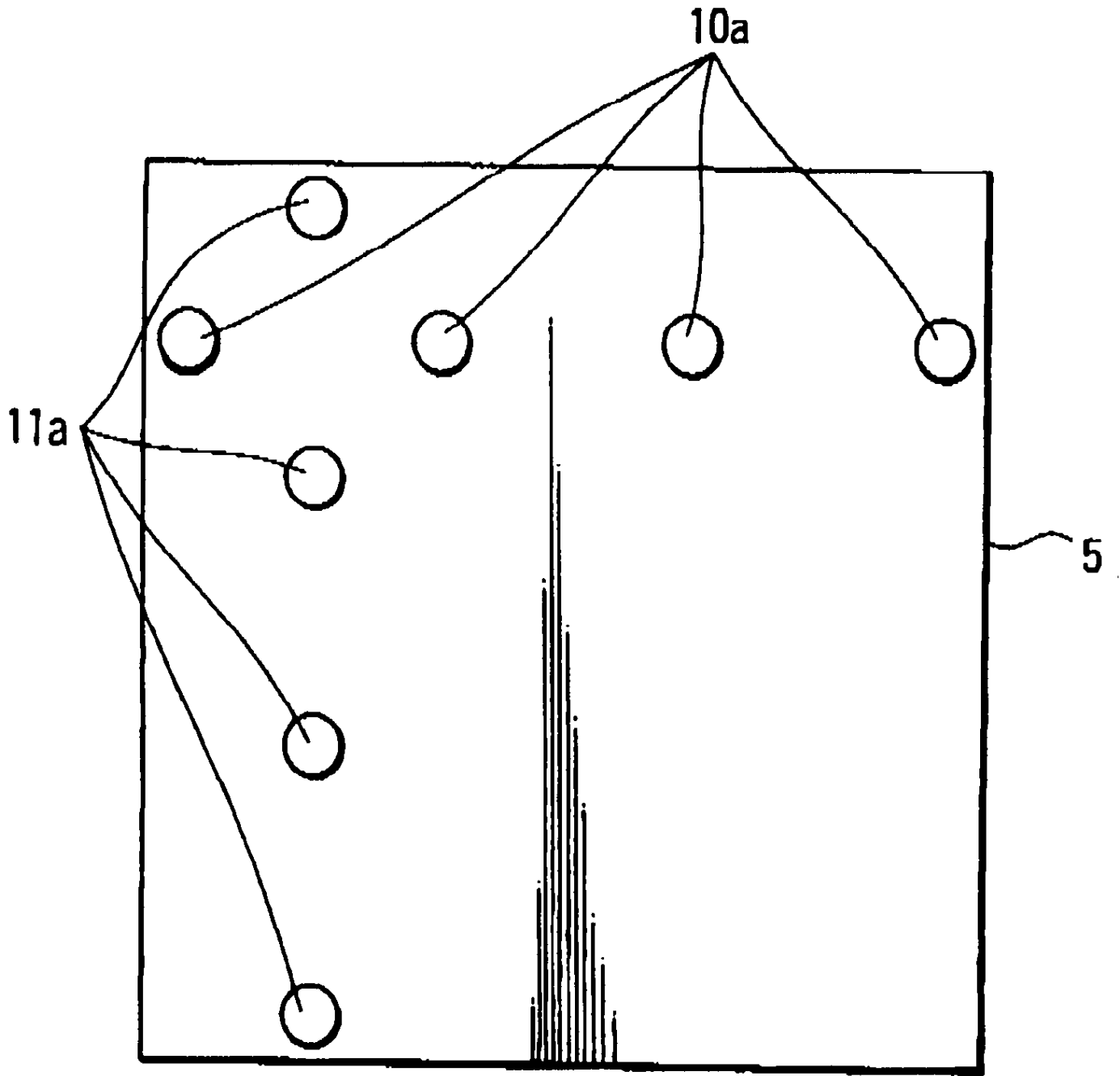




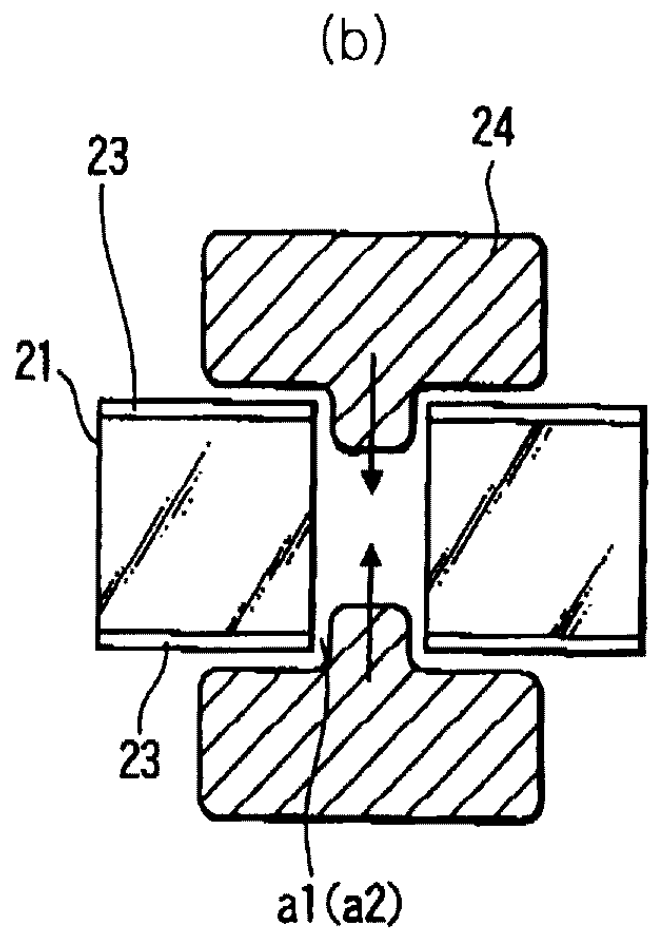
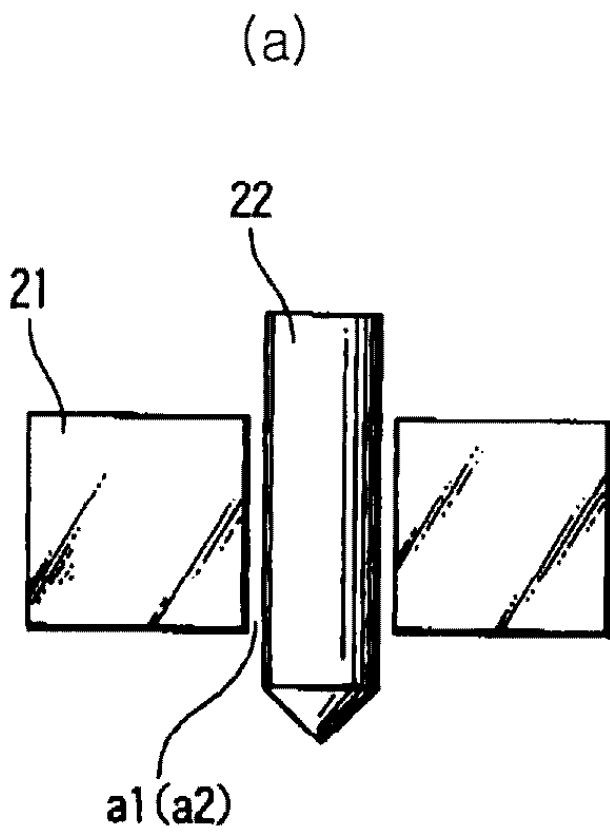
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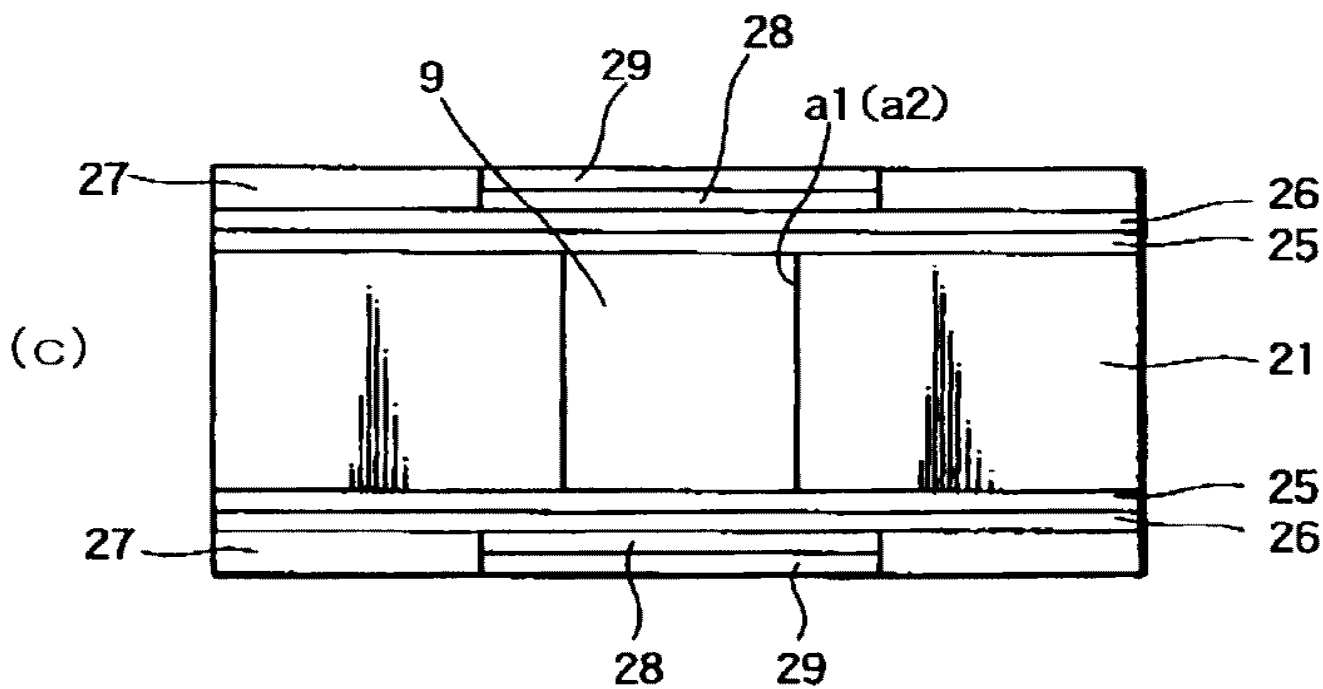
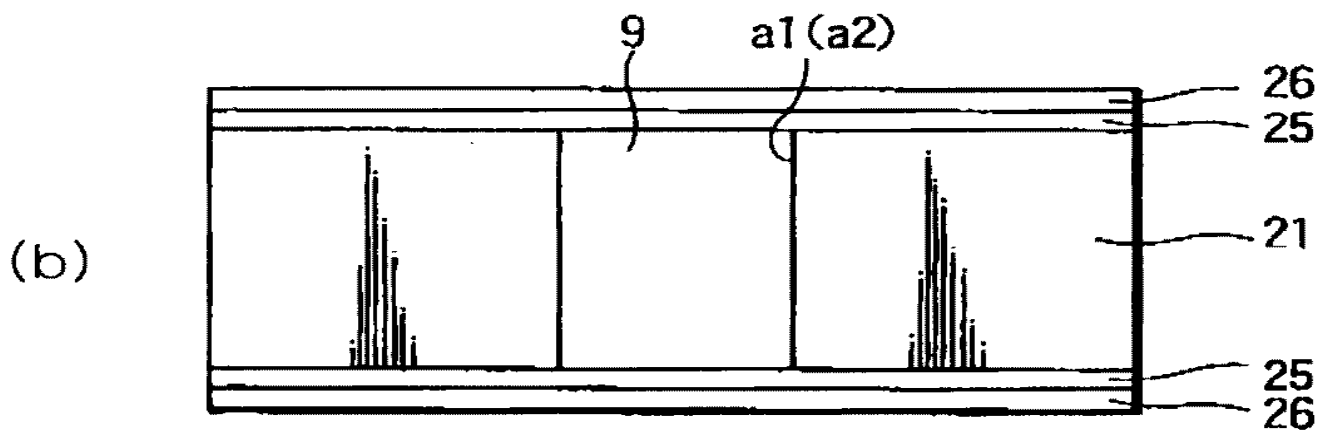
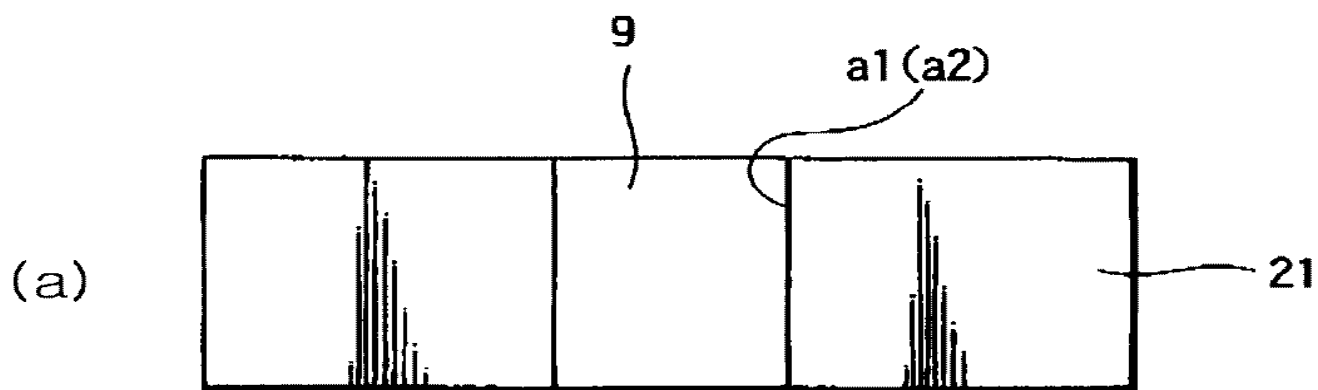
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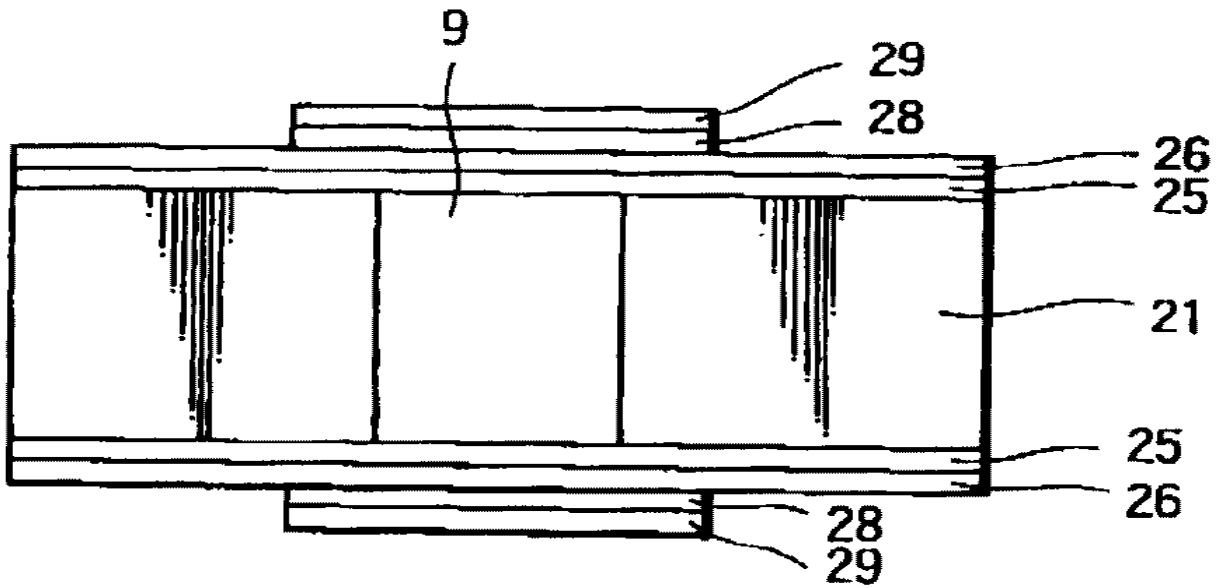
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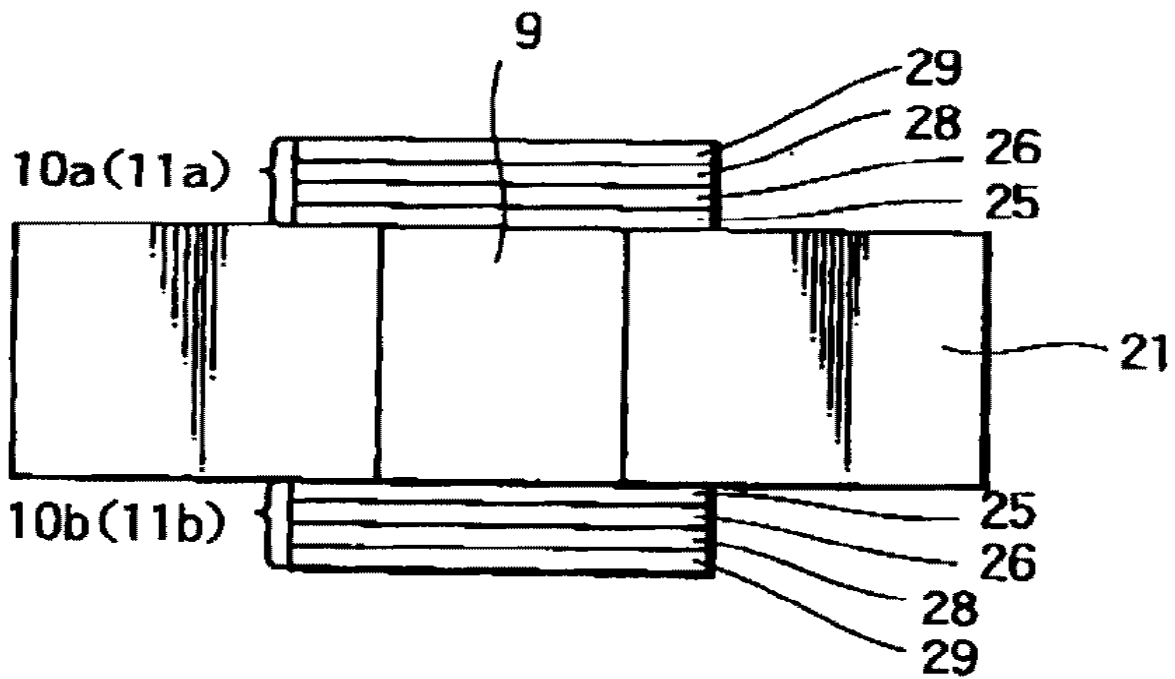
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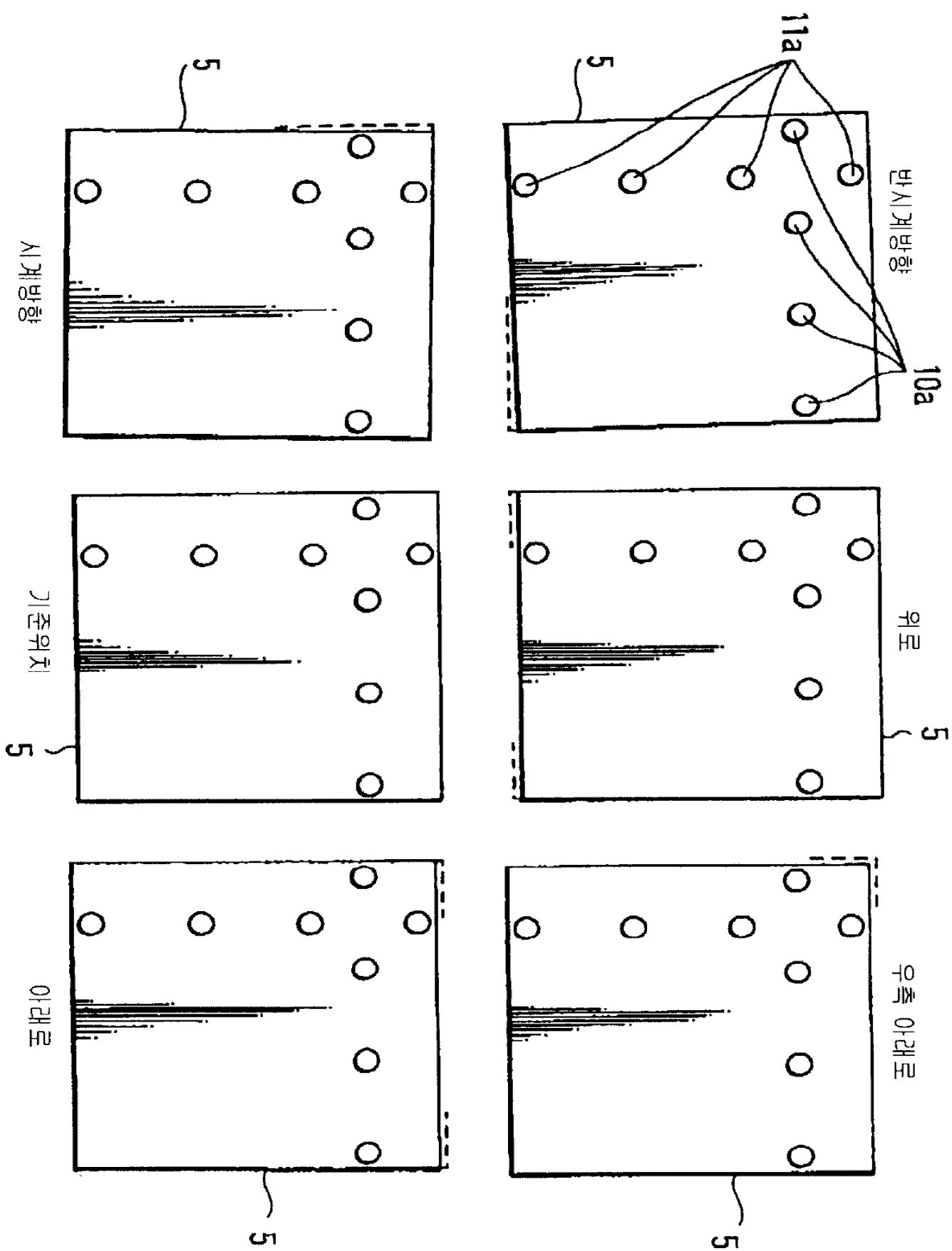


(a)

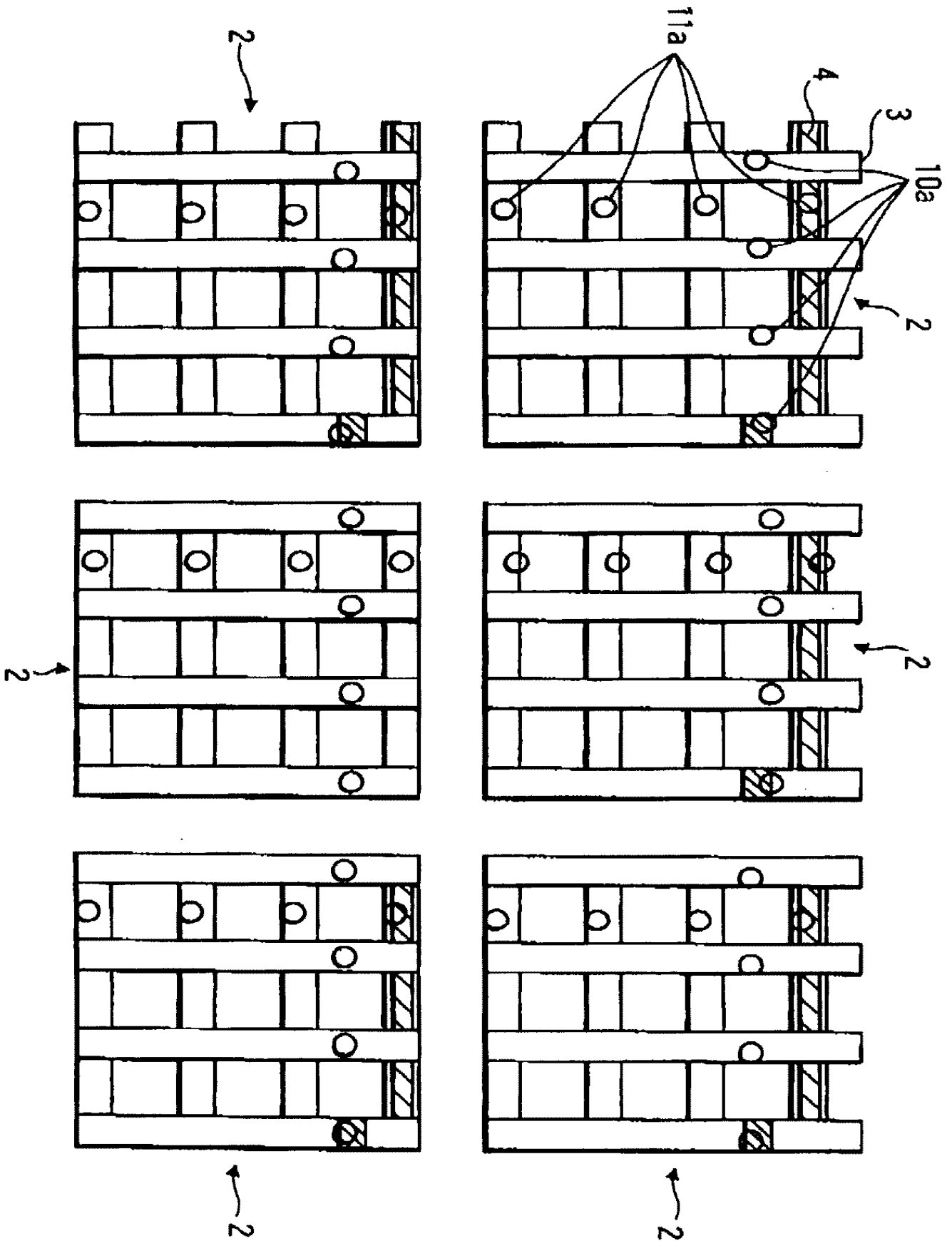


(b)

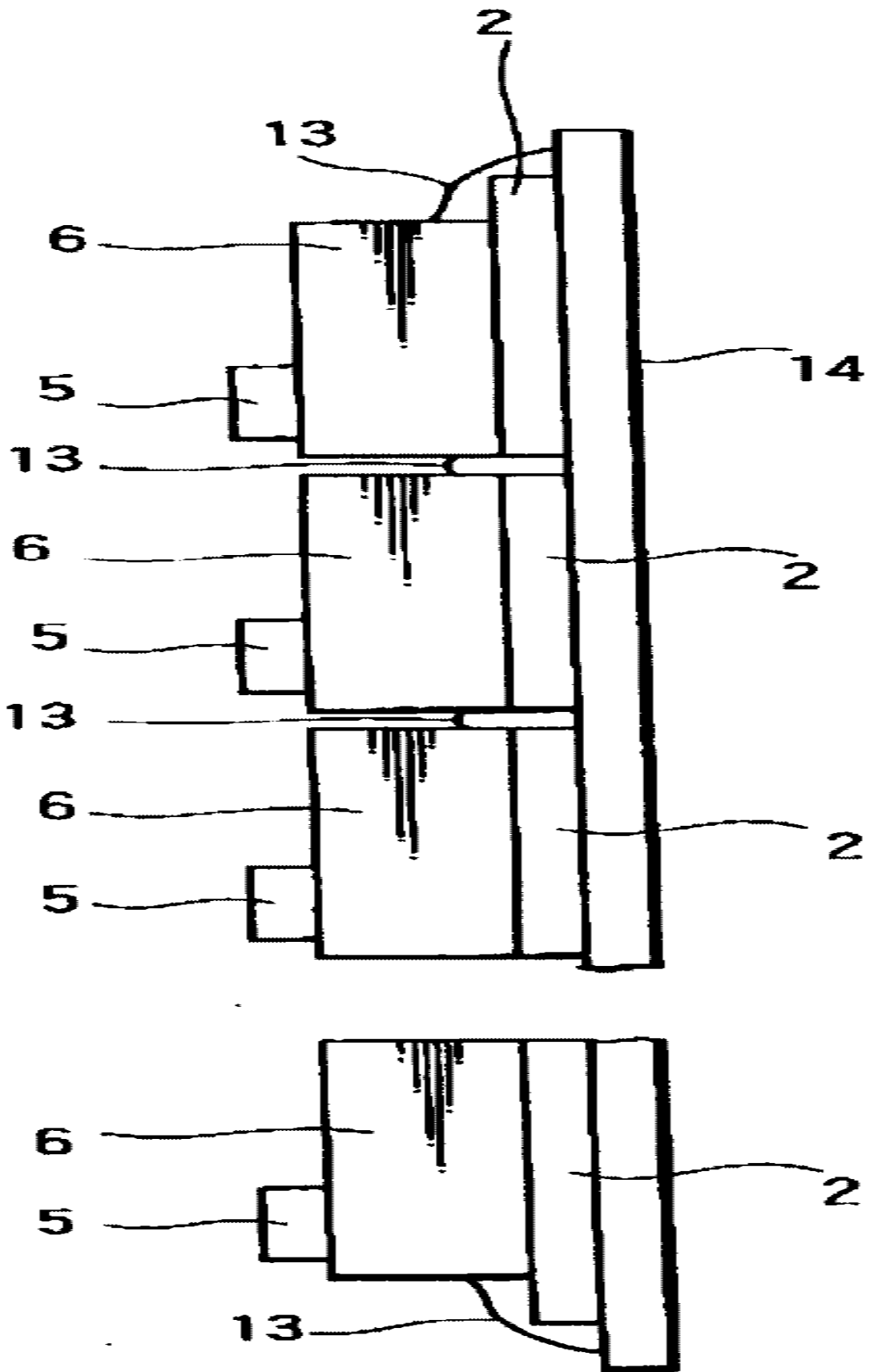




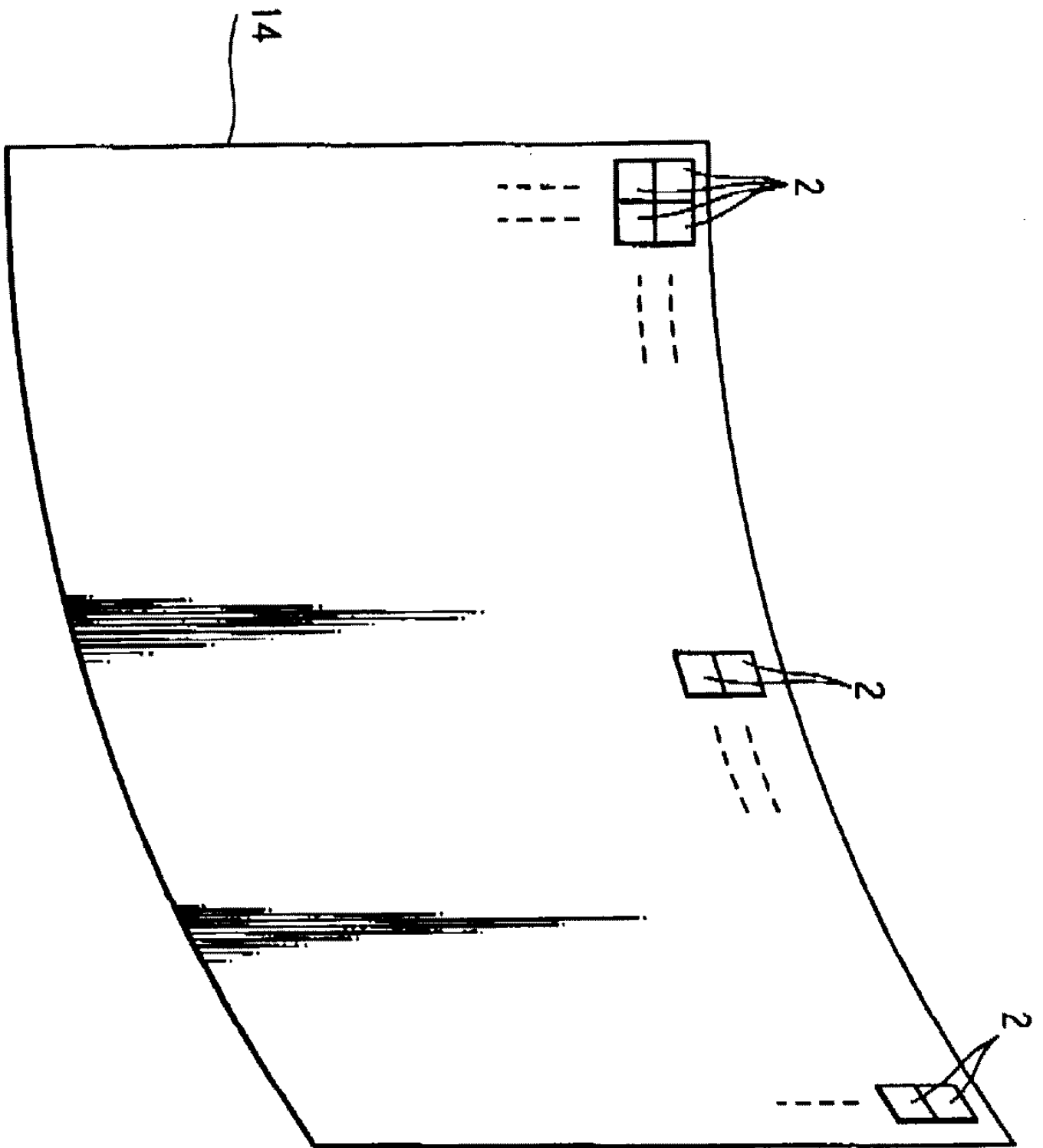
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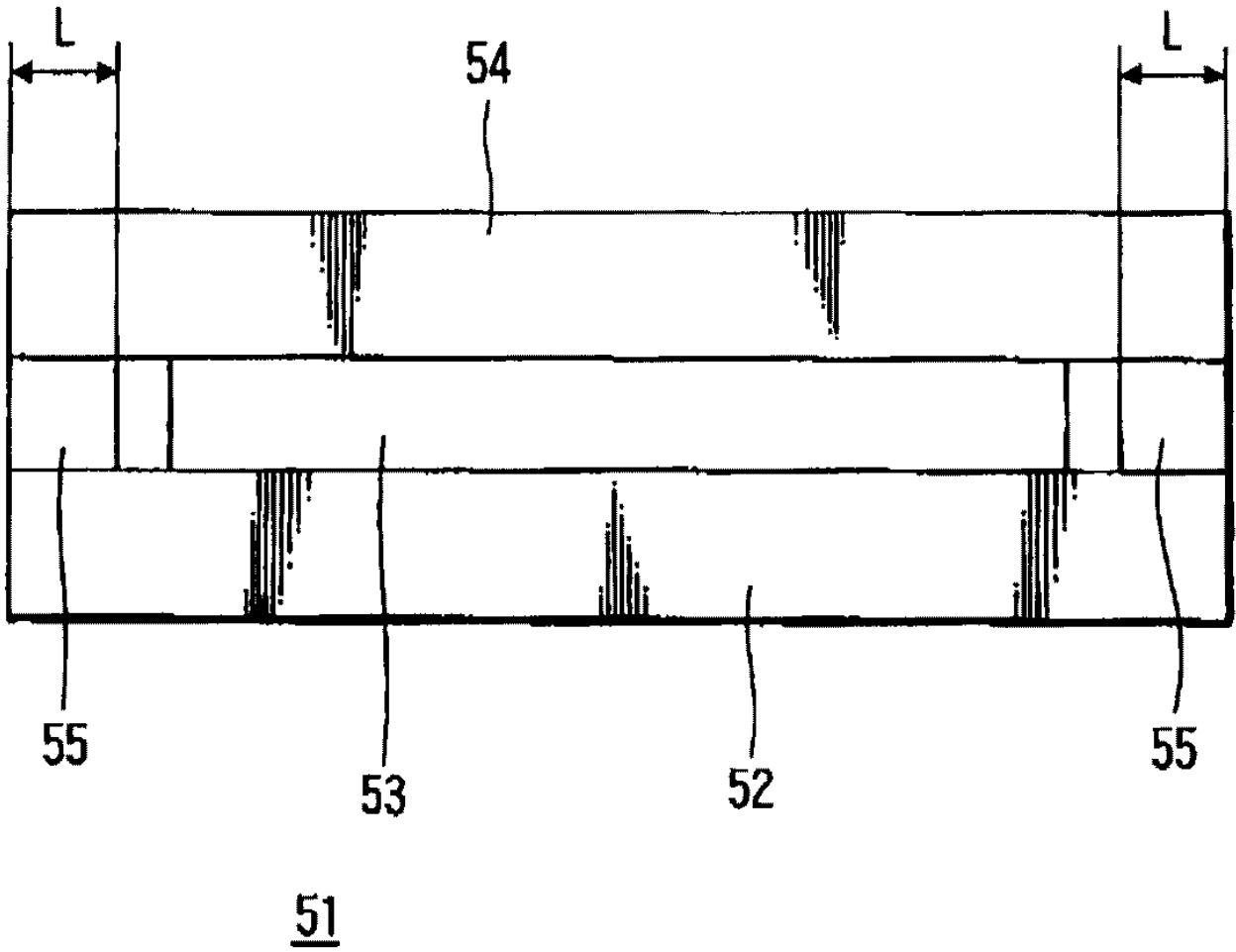


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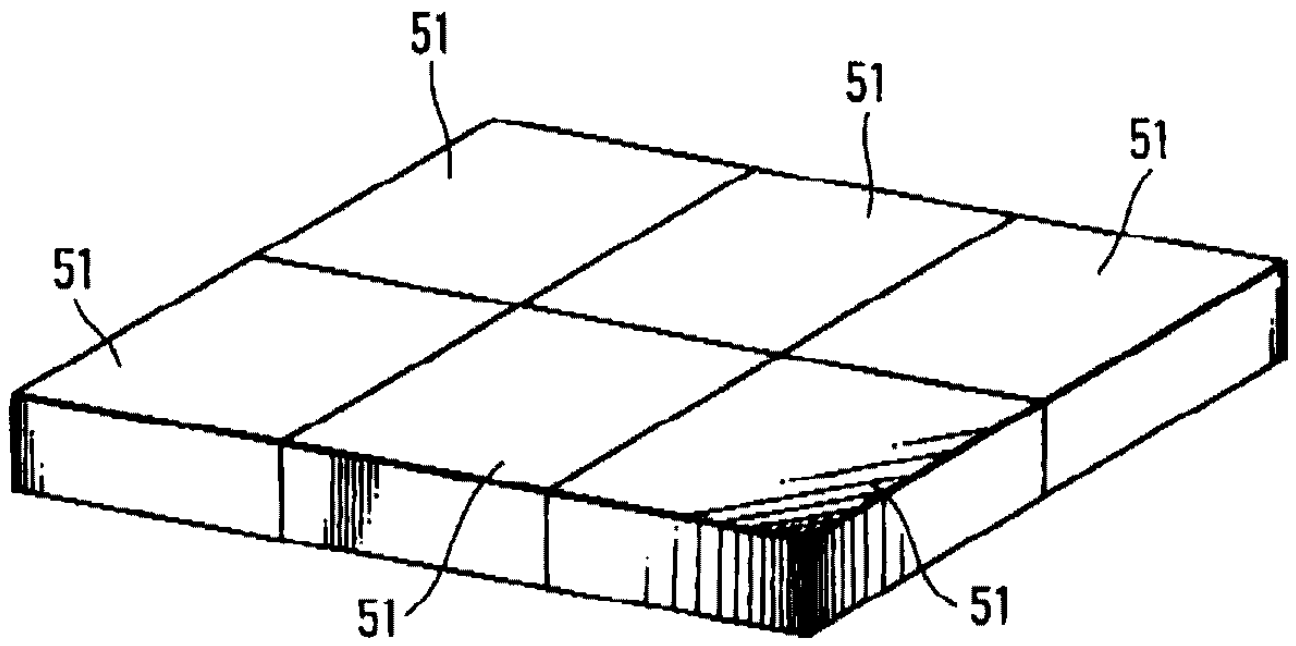


12





14



专利名称(译)	直视式显示设备		
公开(公告)号	KR1020010098477A	公开(公告)日	2001-11-08
申请号	KR1020010018602	申请日	2001-04-09
[标]申请(专利权)人(译)	索尼公司		
申请(专利权)人(译)	索尼公司		
当前申请(专利权)人(译)	索尼公司		
[标]发明人	SUZUKI YOSHIO 스즈키요시오 MATSUDA YOSHINARI 마츠다요시나리		
发明人	스즈키요시오 마츠다요시나리		
IPC分类号	H01L51/50 G09F9/00 G09F9/30 G09G3/20 G09G3/30 H01L27/32 H05B33/12 H05B33/14 H05B33/00		
CPC分类号	H01L27/3288 H01L27/3293		
优先权	2000109665 2000-04-11 JP		
其他公开文献	KR100777375B1		
外部链接	Espacenet		

摘要(译)

并且可以实现有机EL显示具有大屏幕，并且组装工作可以简化，因此能够降低制造成本，并且周期性布置在整个屏幕上可以在制造之后被保持，在透明基板和高分辨率之间的边界可以防止图像质量的劣化。在单个透明基板1上形成多个有机薄膜EL元件2。的有机薄膜EL元件(2)的电路板5被安装到所述驱动电路，用于向信号电极并在此扫描电极提供信号紧密耦合到每个所述有机薄膜EL元件的(2)。电路板5由具有端部密封特性的材料制成，并且具有在与信号电极和扫描电极相对的位置处开口的通孔。通孔填充有具有端部密封特性和导电性的材料。信号通过具有端部密封特性和导电性的材料从驱动电路6提供给信号电极和扫描电极。有机薄膜EL元件2在未用端子密封材料粘接到电路板5的部分处被覆盖。截面侧视图示出了显示单元的布置的示例，其中有机薄膜EL元件形成一个单元。 1 - 1 -

