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2001 11 23

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(30) 2000 - 121605 2000 04 21 (JP)

(71) 가 가  
가  
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(72) 5 - 7 - 1 가 가

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2	-	(in - phase)		1	
3	-	(in - phase)		2	
4	3	E - E			
5	-	(in - phase)		3	
6	5	F - F			
7	-	(in - phase)		4	
8	7	G - G			
9		1	-	(in - phase)	
10	9	A - A	1		
11	9	B - B	1	-	(in - phase)
12		2	-	(in - phase)	
13	12	C - C	2	-	(in - phase)
14	a	b			
15	a	e			
16	a	e			
17		3			
18	17	D - D	3		(103)
19	17	E - E	3		(103)
20		4			
21	20	F - F			
22					
23		5			
24	a	l			
25	a	m	12	C - C	2



(9) (22) , (10) , (3) (4) ,  
 (9) (18) (500c, 500d) (12)  
 (22) (14) (12) (9)  
 (22) (501) 가  
 (500c, 500d) (22)  
 (500c, 500d)

3 2 - (in - phase) (502)  
 (1) , (2) , (3) , (4) , (5) , (6) ,  
 (7) , (500) 4 3 X - X (500)  
 (502) (16) , (12) , ( ) (13) , (14) (17)  
 (11) (15) (500) (14)  
 (500) (11) , (22) , (9) (10)  
 (3) , (9) (18) (20) (5  
 00) (500) (500)  
 (500)가 (500) (

5 3 - (in - phase) (503)  
 (1) , (2) , (3) , (4) , (5) , (6) ,  
 (7) , (500) (503) , (1) (500)가  
 6 5 Y - Y (500) (503) 6 ,  
 ( ) (13) , (14) (17) (16) , (12) ,  
 (15) (500) (14) (11)  
 (9) (10) (3) , (9) (22) , (18)  
 (500) (22) (500)가  
 (500) (20)

(500)가 가 가 3 4  
 가 가 (500)가 가 (500)가

7 4 - (in - phase) (504)  
 (1) , (2) , (3) , (4) , (5) , (6) , (7)  
 , (500a, 500b) (504) , (5) (500a, 500  
 b)가 8 7 Z - Z (500a, 500b) (504)  
 8 (504) (17) , (14) (16) ,  
 (12) , ( ) (13) , (15) , (14) (11)  
 (15) (500a, 500b) 8 , (504)  
 (11) , (22) , (5, 5') , (2) , (10) ,  
 (9) (4) , (9) (18)

(20) (500a, 500b) (500a, 500b)  
3 4 (500) (9) 가  
(500a, 500b)가 가 (500a, 500b)가

6 - 175156

가

가

(island manner)

10 - 96955

가

가

1

(2)

(2)

2

1

2

2

10 - 228023

(wall)

가

1

2

1

2

1

1

2

가

가

가

가

가

1 2 , 1 2

가 , 가

1 2 , 1 2

가

1 가 1 , 2 1

가

가

가 1

1 가

가

9 1 - (in-phase)

(101) (1) , (2) , (3) , (4) , (5) , (6) , (7) , (100) (101) (5) 가 (3) TFT (101) (1) (7) (2) (1) (4) (2) (5) (2) (4) (4) (100) (3) (4)

10 9 A - A' 1 (101) 10 (20) (14) (16) (17) , (12) (13) (13) , (14) (15) , (14) (11) (13) (13) (14) (12) (13)

(14) (3) , (10) , (5, 5') (20) (2) , (22) , (4) , (9)  
 (11) , (9) (18) (4)  
 (3) (9) (10) (5, 5') (2)  
 (10) (22)

가

11 9 B - B 1 - (in - phase)  
 (101) 11 , (12) , (13) , (15) , (14) (11) (15)  
 (3) (100) (100)  
 (11) (15)

11 , (3) , (10) , (9) (11)  
 (22) (10) (22)  
 (3) (11) (22)  
 (3) (100)  
 (100) 10% 가 4.5 $\mu$ m 0.7 $\mu$ m  
 0.2 $\mu$ m  
 5.0 $\mu$ m

12 2 - (in - phase) (102)  
 (102) 1 , (102) (1) ,  
 (2) , (3) , (4) , (5) , (6) , (7) ,  
 (100a, 100b) 2 (100a, 100b)가 (5, 5')  
 1

13 12 C - C 2 - (in - phase)  
 (100a, 100b) 13 , (102) 1  
 (14) (17) (16) ,  
 12) , ( ) (13) , (15) , (14) (11)  
 (15) (5, 5') (100a, 100b)  
 가 (12) (13)  
 (100a, 100b) 13 , 1 (5, 5')  
 (4) , (10) , (2) , (22) , (9)  
 (11) (5, 5') (4) (9) (18)  
 (9) (22) (10) (100a, 10  
 0b) (5, 5') 가 (11) (22)  
 (5, 5')  
 (100a, 100b) 10%

14 a b W(h) (100) W(sp) (100) 14 a b W(sp) W(h) W(sp)

15 a e , (9) (3) 15 b (10) (3) (9) 15 c (10) (10) (3) 15 d (22) (3)

16 a 16 e

16 a (9) (10) 16 b (10) 가 (9) 가 (5) 16 c (5) 16 d (22) (10) (5) 16 e (3) (22) 가

17 3 (103) (1) (2) (3) (5) (6) (7) (3) (200) (21) (103) (5) 가 (1) TFT (103) (7) (2) (6) (1) (2) (3) (2) (21) (3) (200) (3)

18 17 D-D 3 (103) 18 (20) (14) (17) (14) (12) ( ) (13) (15) (4) (200) (14) (11) (13) (14) (1) (12) (13) (14) (10) (5, 5') (2) (22) (9) (11) (9) (18) (5, 5 ) (2) (10) (22)

(20)

가

19 17 E - E 3 (103) (200)  
 19 , (17) , (14) , (12) , (  
 )(13) , (15) , (4) , (200) , (11) ,  
 (200) (15) (200)  
 (200) (200) (15)  
 (200) (11) (15)

19 , (11) , (22) , (10) ,  
 (3) , (9) , (18) (22) (10)  
 , (3) 가 (11) (22)  
 , (3) (100) (100)  
 (100) (3) (20) (100)  
 (100) 10%

20 4 (104) (104)  
 3 , (1) , (2) , (3) ,  
 (5, 5') , (6) , (7) , (200a, 200b) , (21)  
 (104) (3)  
 (5, 5 ) 가 TFT (104)  
 (7) (1) (1) (2)  
 (3) (2) (2) (21)  
 (5, 5 ) (200a, 200b)가

21 20 F - F (200a, 200b) 21 , 3  
 , (17) , (14) , (12) ,  
 ( ) (13) , (15) , (4) , (100a, 100b) , (11) ,  
 (13) (14) (12) (13) (14)  
 (103) , 21 ,  
 3 , (11) , (2) , (22) , (5,  
 5') , (2) , (10) , (9) , (18) (5, 5 )  
 (9) (2) (10) (22)  
 (22) (10) (200a, 200b) (5, 5 )  
 (11) (22) (20)  
 , 가 (200a, 200b) 10%  
 00a, 200b) (200a, 200b) 10%

가 ( ) (13) (12) 22 (200a, 200b) ( ) (12) (13) (1)

23 5 (17) (16) (14) (13) (12) (200c, 200d) (22) (2) (10) (3) (4) (9) (18) (22) (10) (200c, 200d) ( ) (200c, 200d) (12) (15)) (3) (12) (12) 가 (3) (12) 가 (200c, 200d) (3) (200c, 200d) 가 (3)

9 B-B' 24 a l

24 a (9)(L1) (Cr) (L2) 가 24 b 가 24 c SiO<sub>2</sub> SiNx ( ; L3)(10) 24 d (10) (22) SiNx (L4), a-Si n<sup>+</sup>-aSi (L5, L6) 24 e (3) a-Si, n<sup>+</sup>-aSi (L5, L6) 24 c e SiO<sub>2</sub> SiNx , 3 P-CVD 가

24 f 24 h 24 g 24 f h 가

24 i (22) (SiNx) (10) 가 24 j (3) 가 24 i j CVD 가

24 k IT0 가 24 k l IT0 24 l IT0 가

25a m 12 C-C 2 25 a (Cr) (L1) 25 b 25 a b 가

25 c (9) ( ) (10) (SiO<sub>2</sub> SiNx : L3)  
 25 d (10) (22) (SiNx : L4)  
 (a-Si, n<sup>-</sup> - aSi : L5, L6) 25 e (9)  
 (a-Si, n<sup>+</sup> - aSi) 25 c e  
 , SiO<sub>2</sub> SiNx , 3 P-CVD ,  
 가 .

25 f (22) (10) 가 . 25  
 f 가 .

25 g (L7) , 25 h (5)  
 , 25 i , 25 g i  
 가

25 j (22) (SiNx : L8) , 25 k  
 (5) (22) 25 i k  
 CVD 가 .

25 l IT0 (11) : L9 가 . 25 m  
 , IT0 가 . 25 l m  
 , IT0 , IT0  
 가 .

6 (in - phase) 가 26 27  
 , 26 (105) (1) , (2) , (3)  
 (4) , (5) , (6) , (7) , (300)  
 (5) 가 TFT (105)  
 (1) , (7)  
 (1) (4)  
 (5) (2) (4)  
 (4) (300) (3)

27 26 G - G 1 (in - phase)  
 (101) (100) , 27 (20)  
 (17) , (16) , (14) , (12) , ( ) (13)  
 (15) , (11) (15) (11)  
 (15) (11) ,  
 (22) , (10) , (3) , (9) , (18)  
 (300) (22) (300)

(22) (300) (11) (300) (22) 가 (300)  
 가 , , 가

1 , 28 6  
 가  
 , 22 23 ,  
 , 가 가 가  
 , 가 , 가

(57)

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 가 1 ,  
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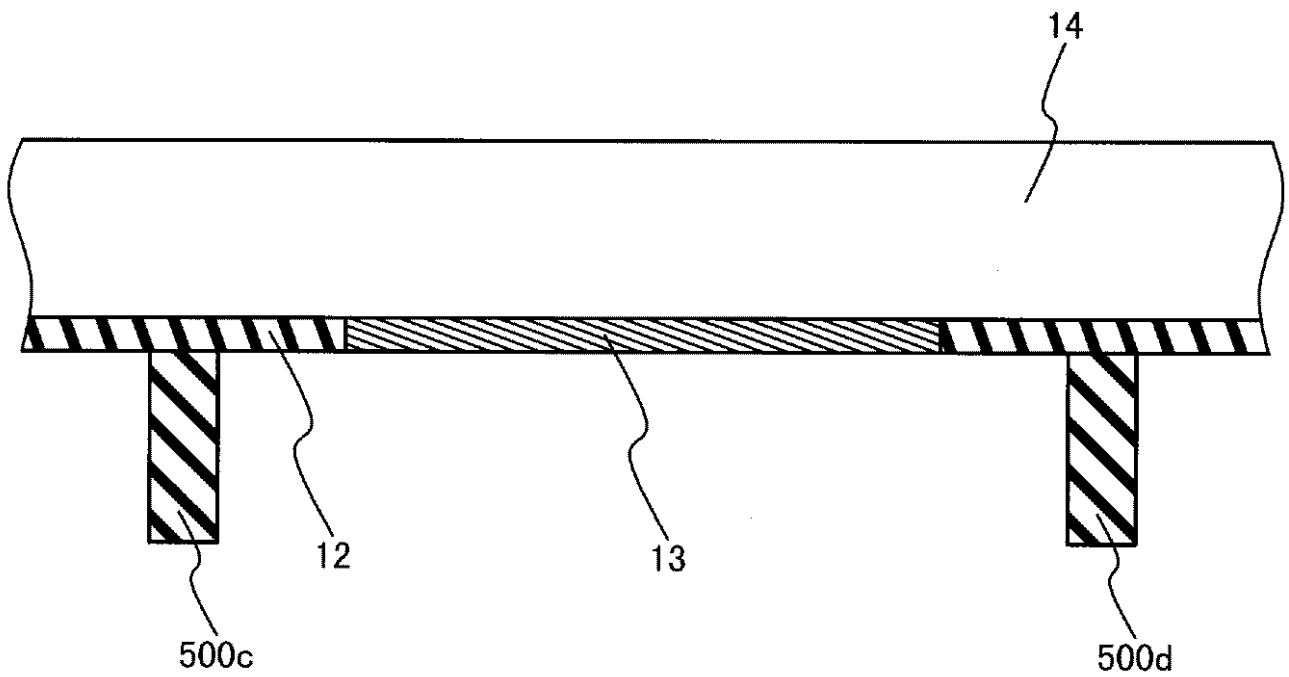
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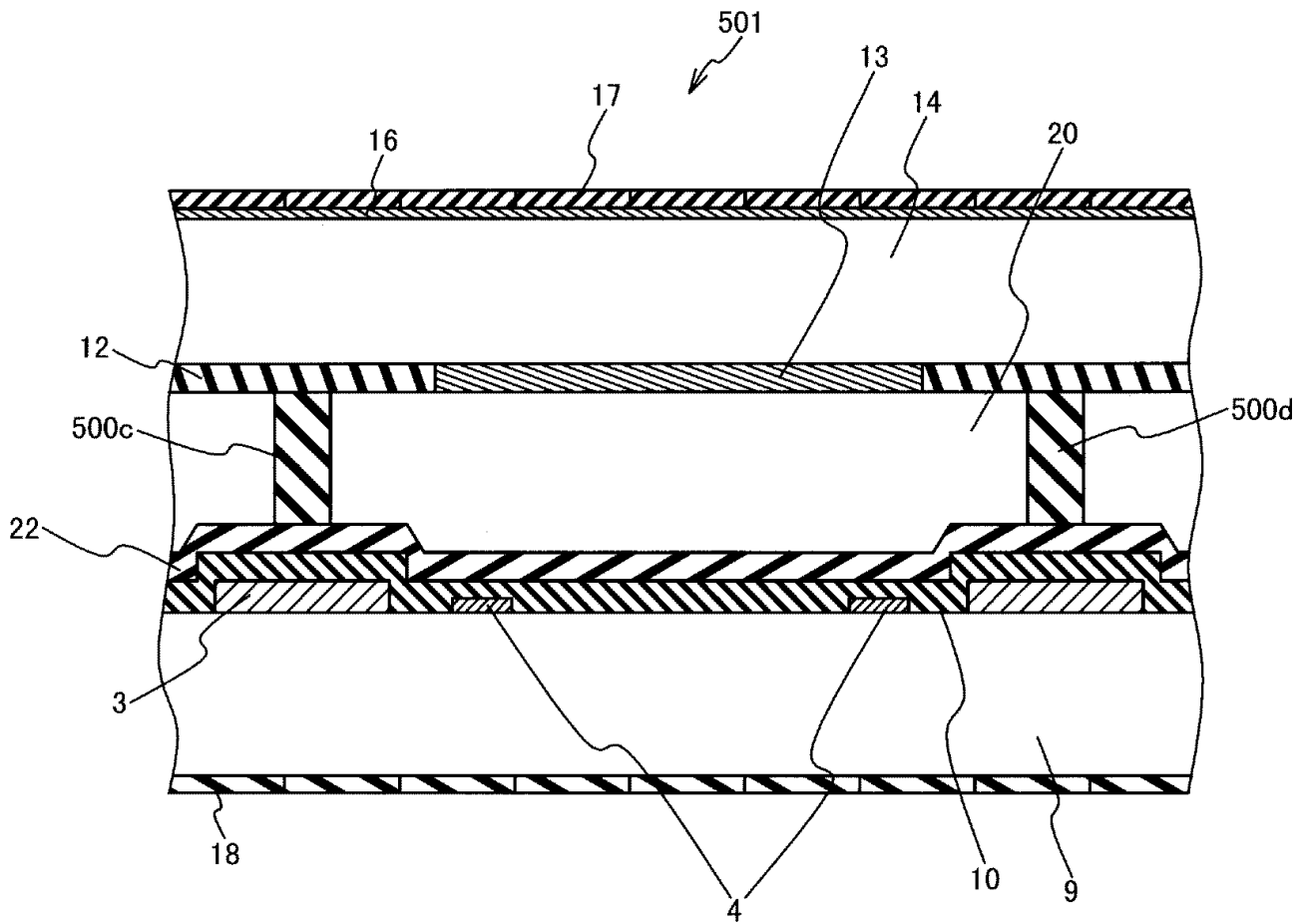
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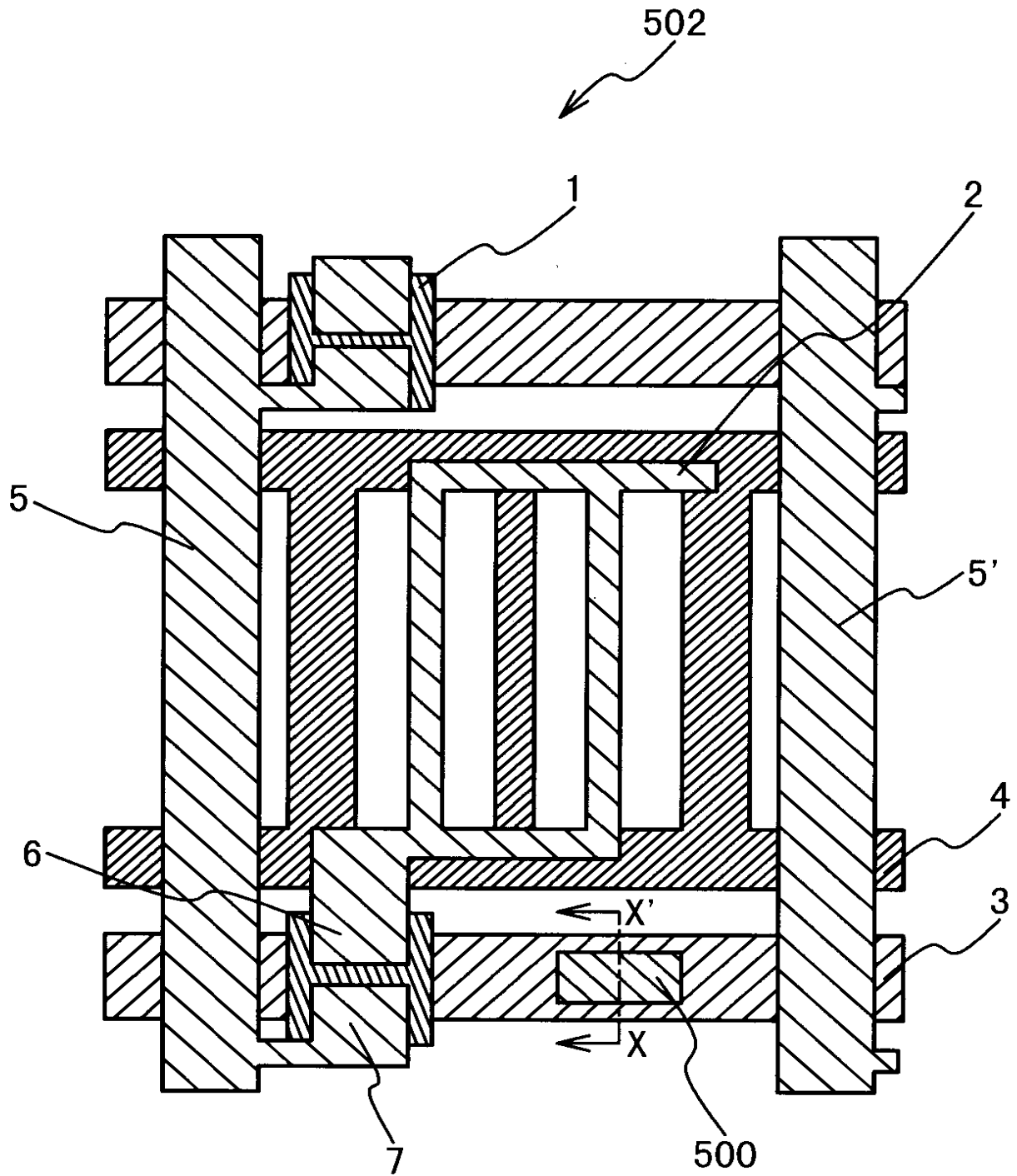
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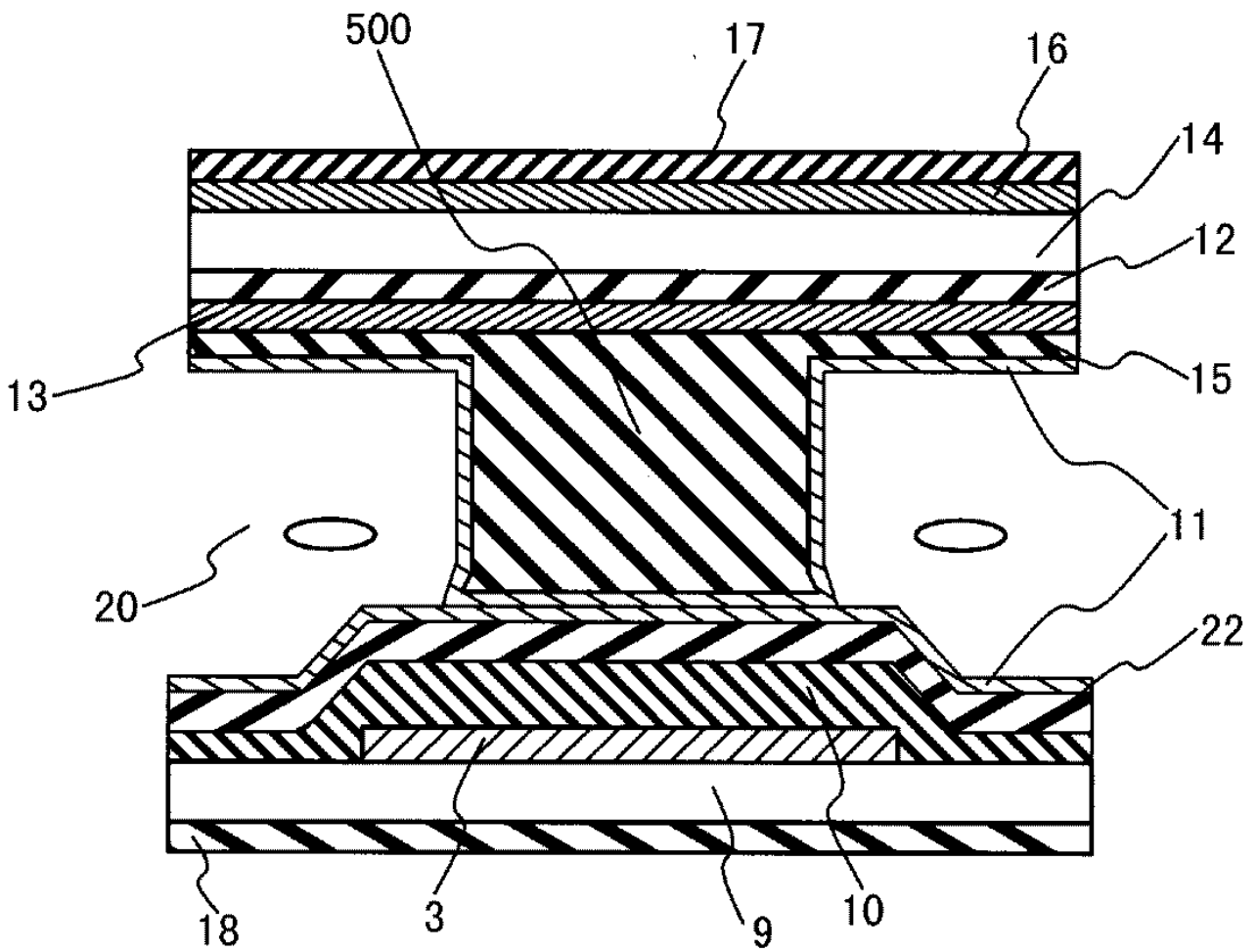
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# 종래기술

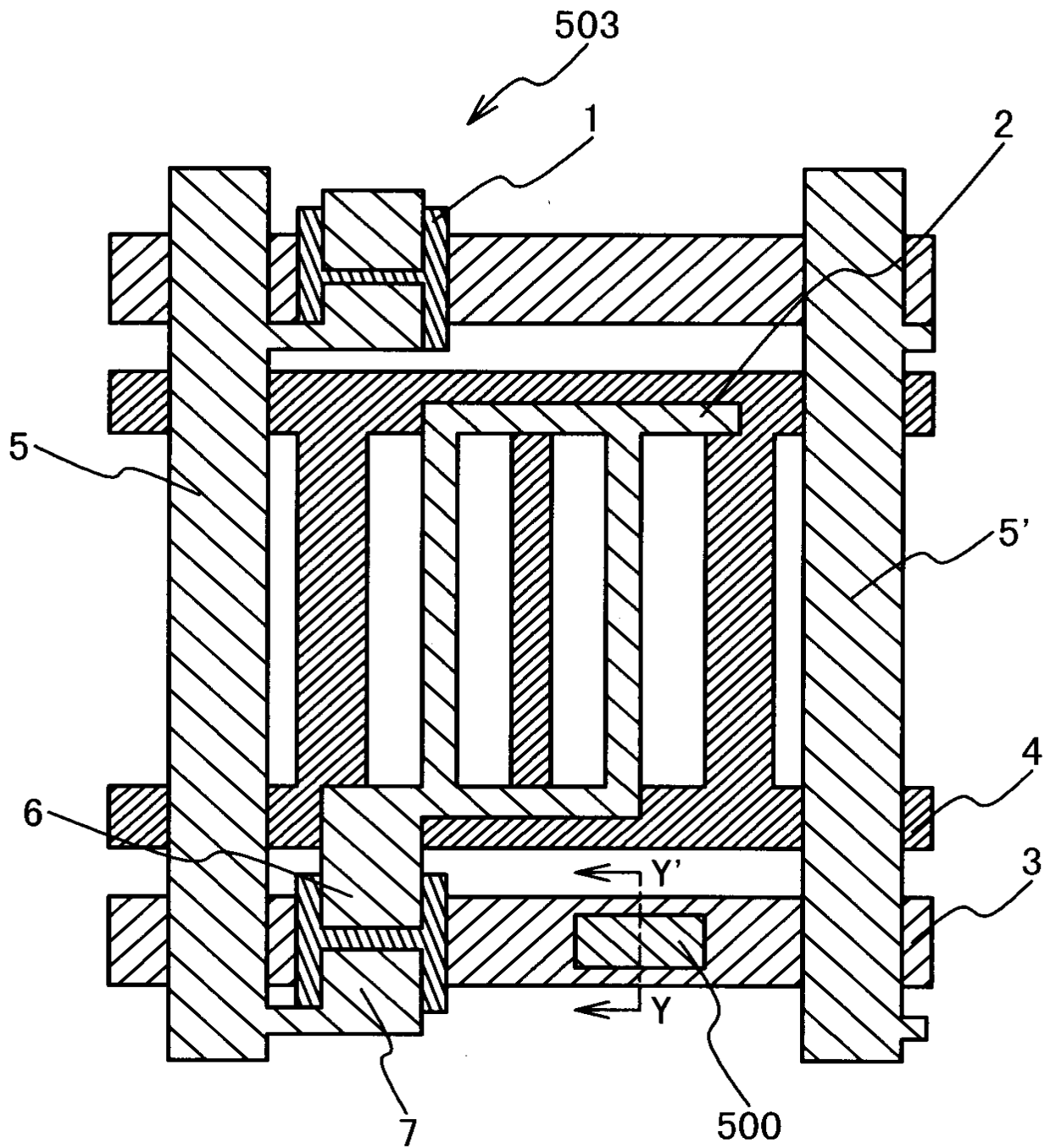


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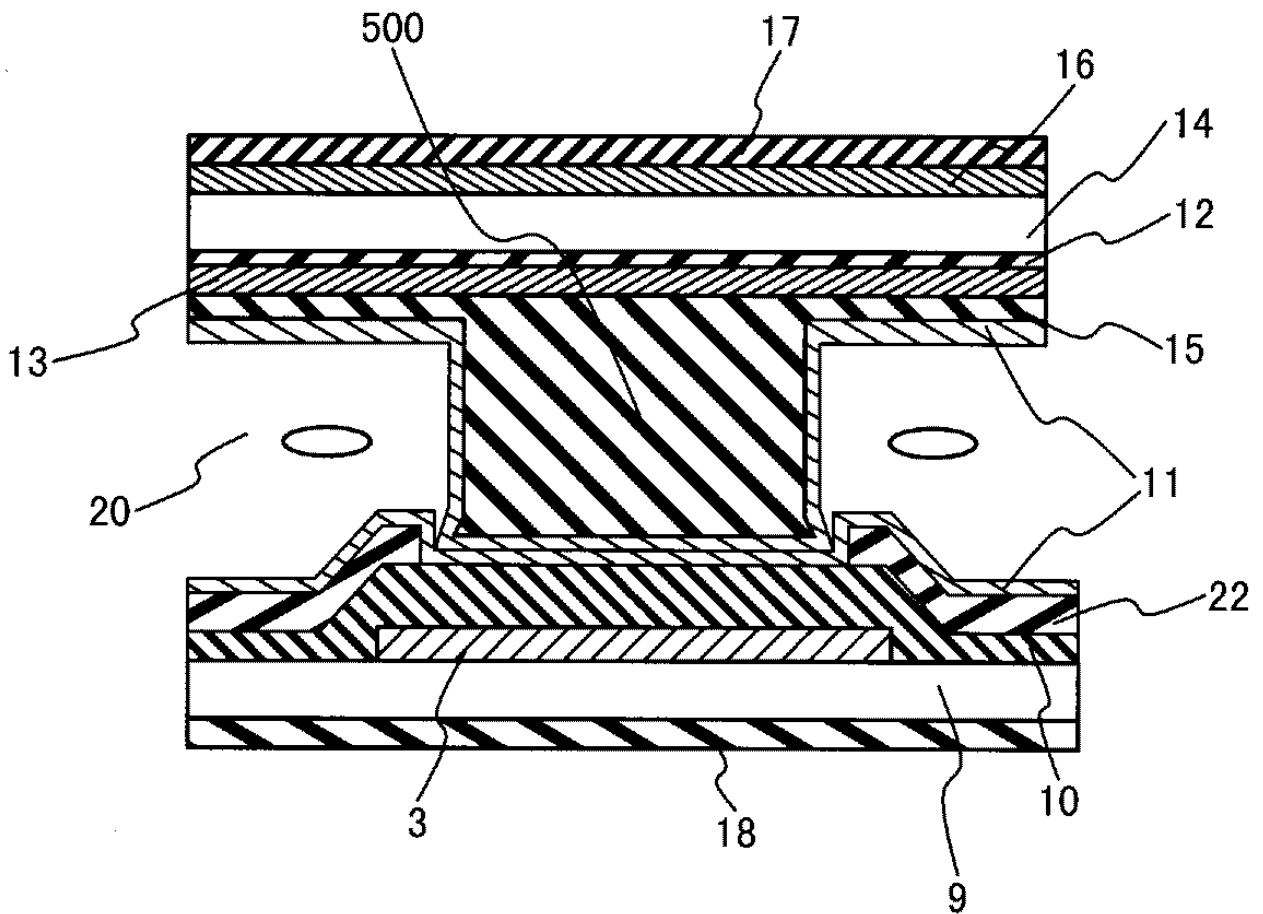


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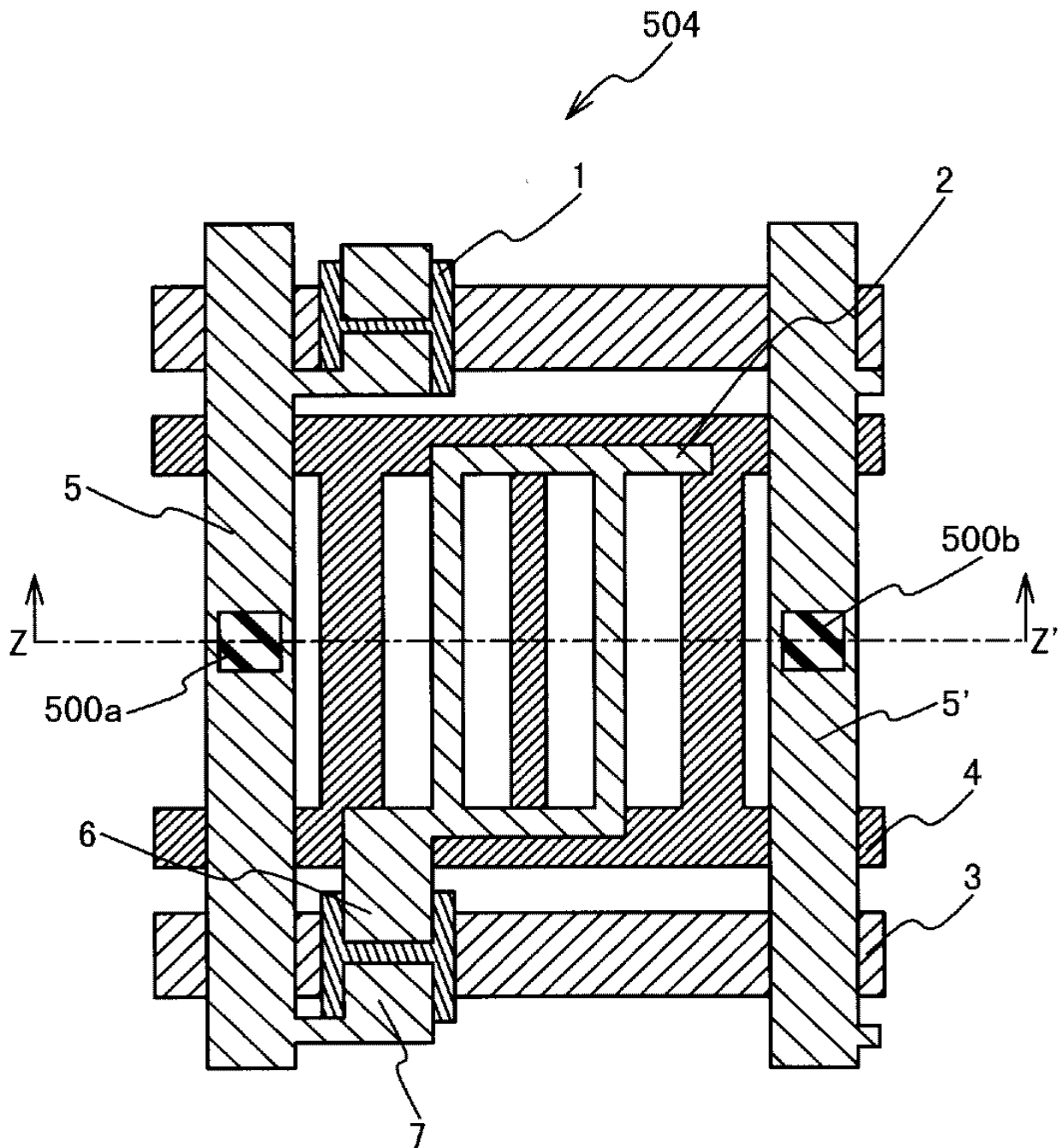
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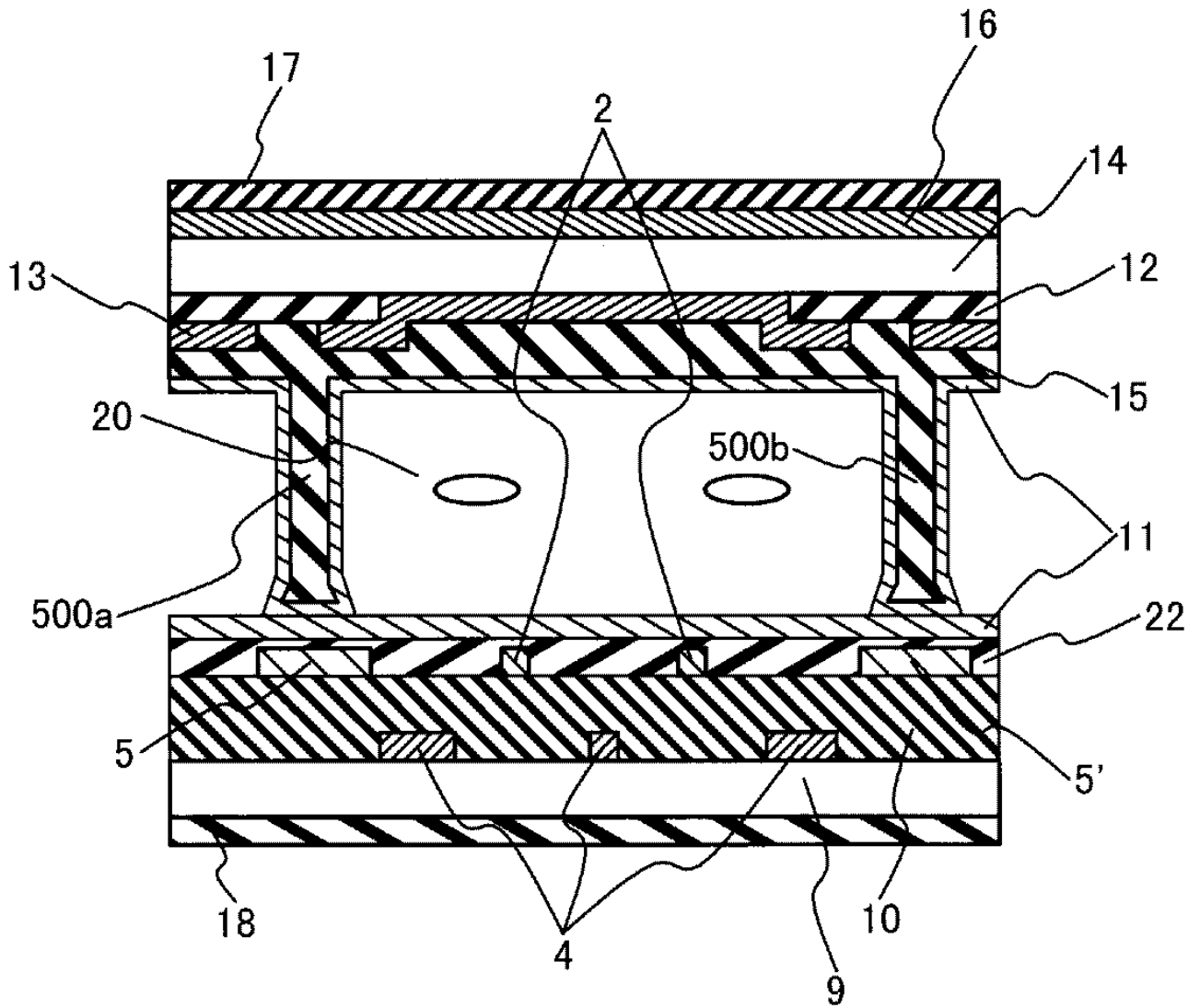
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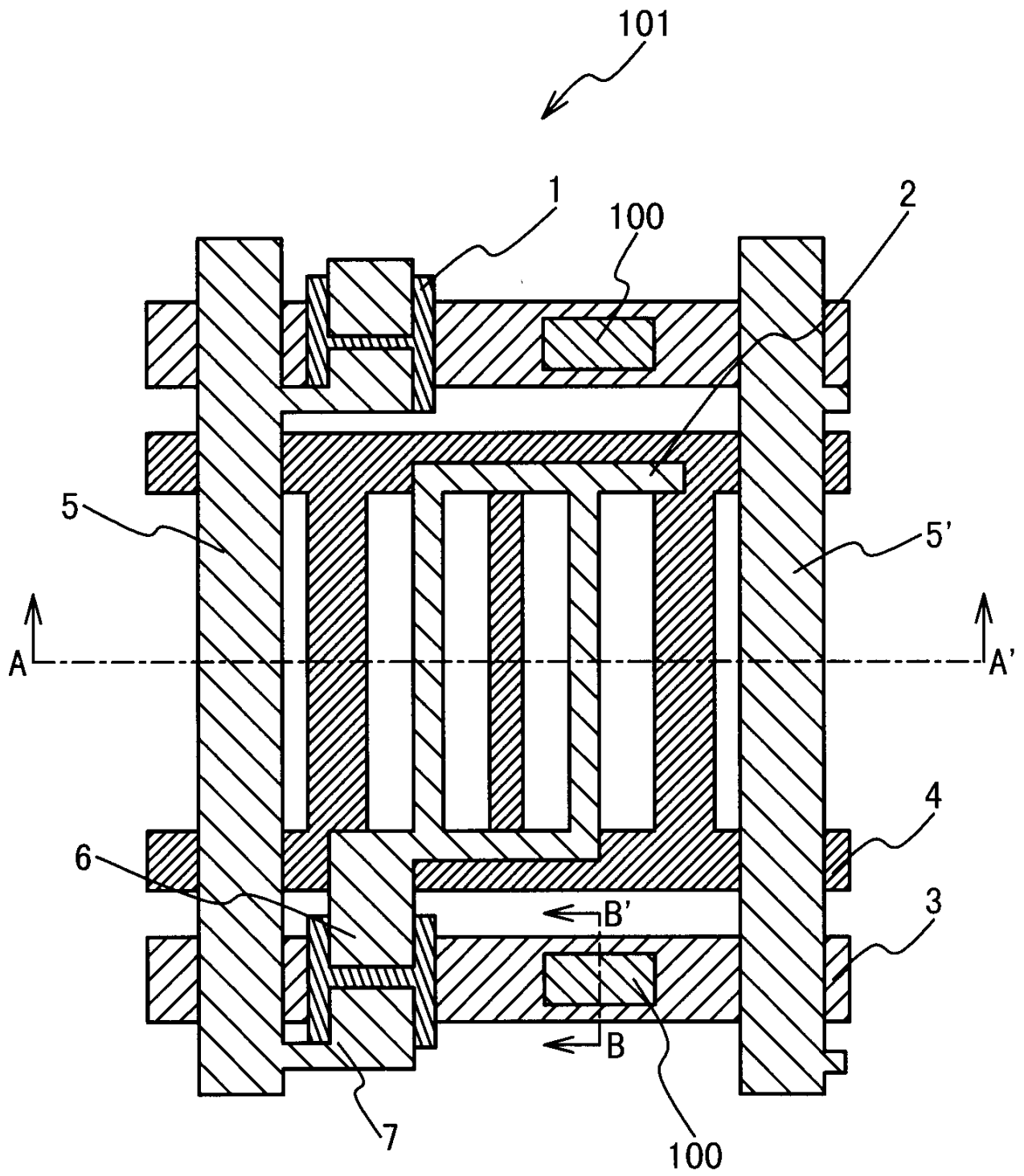
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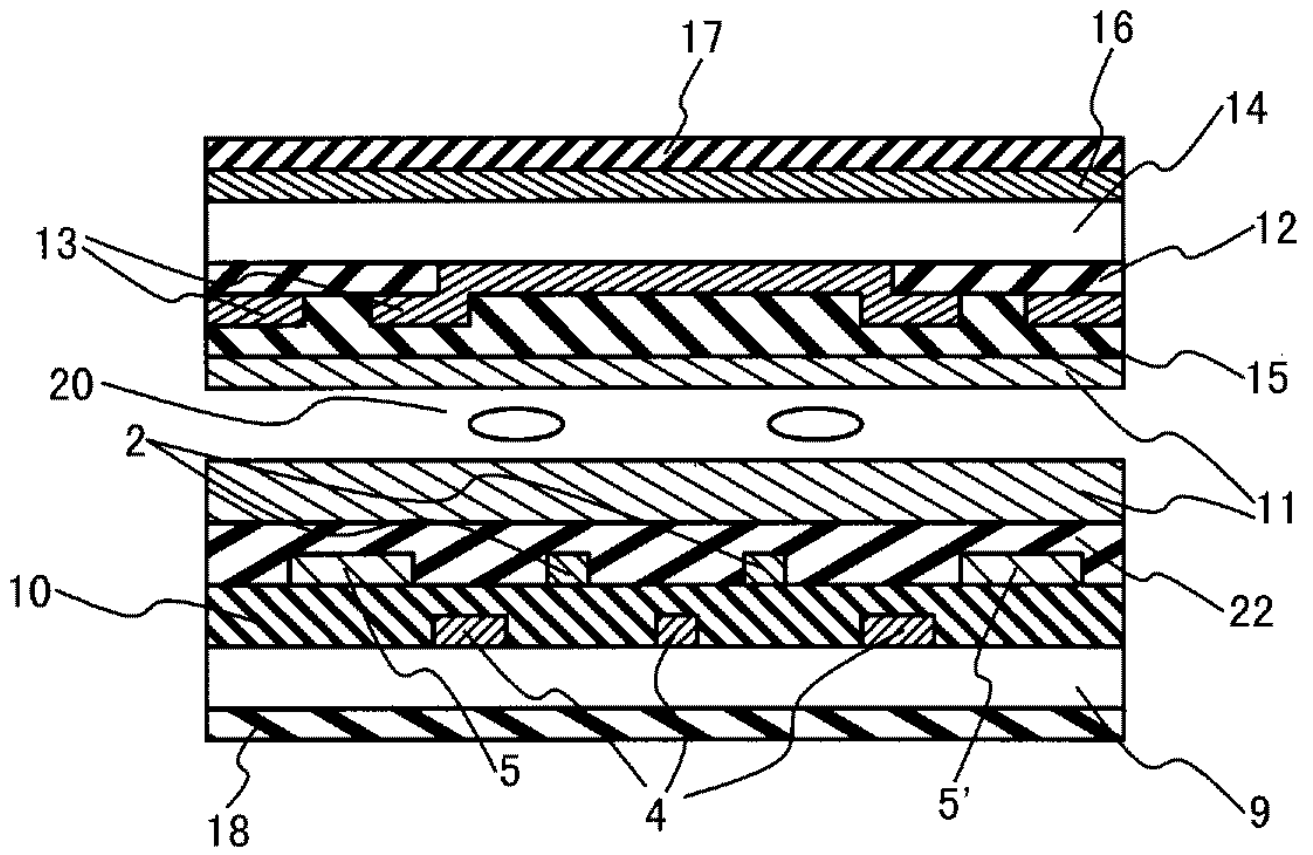
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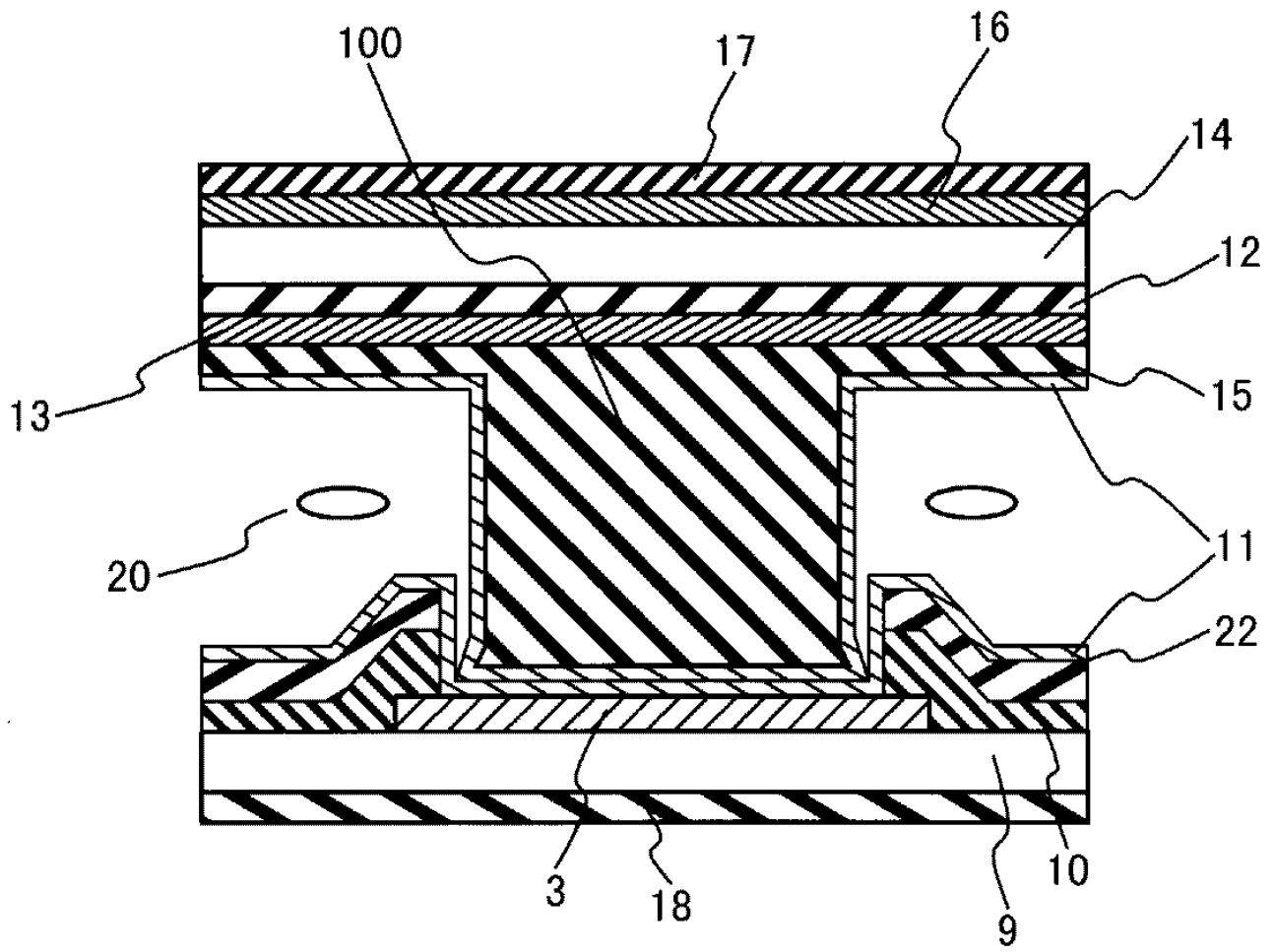
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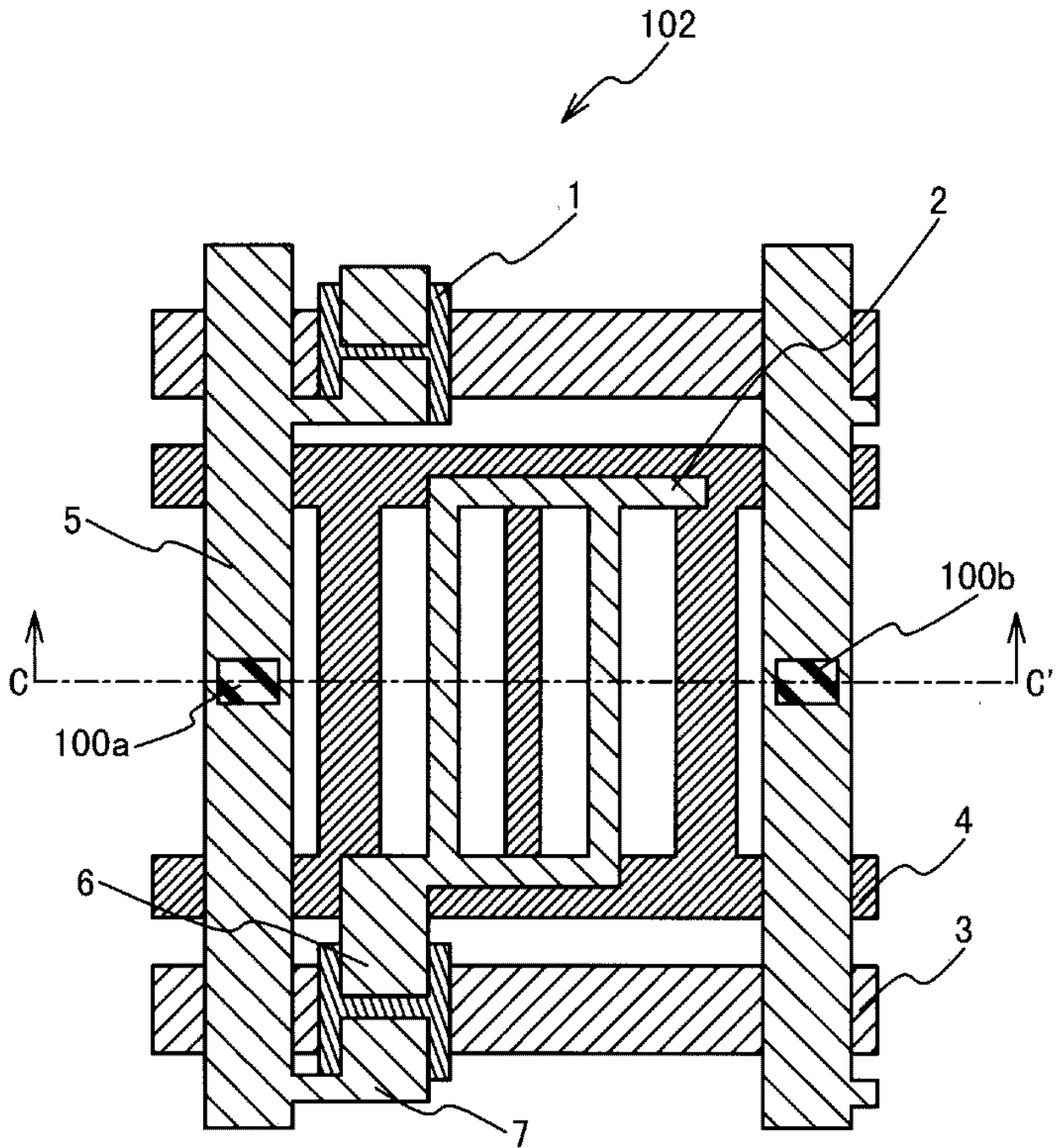
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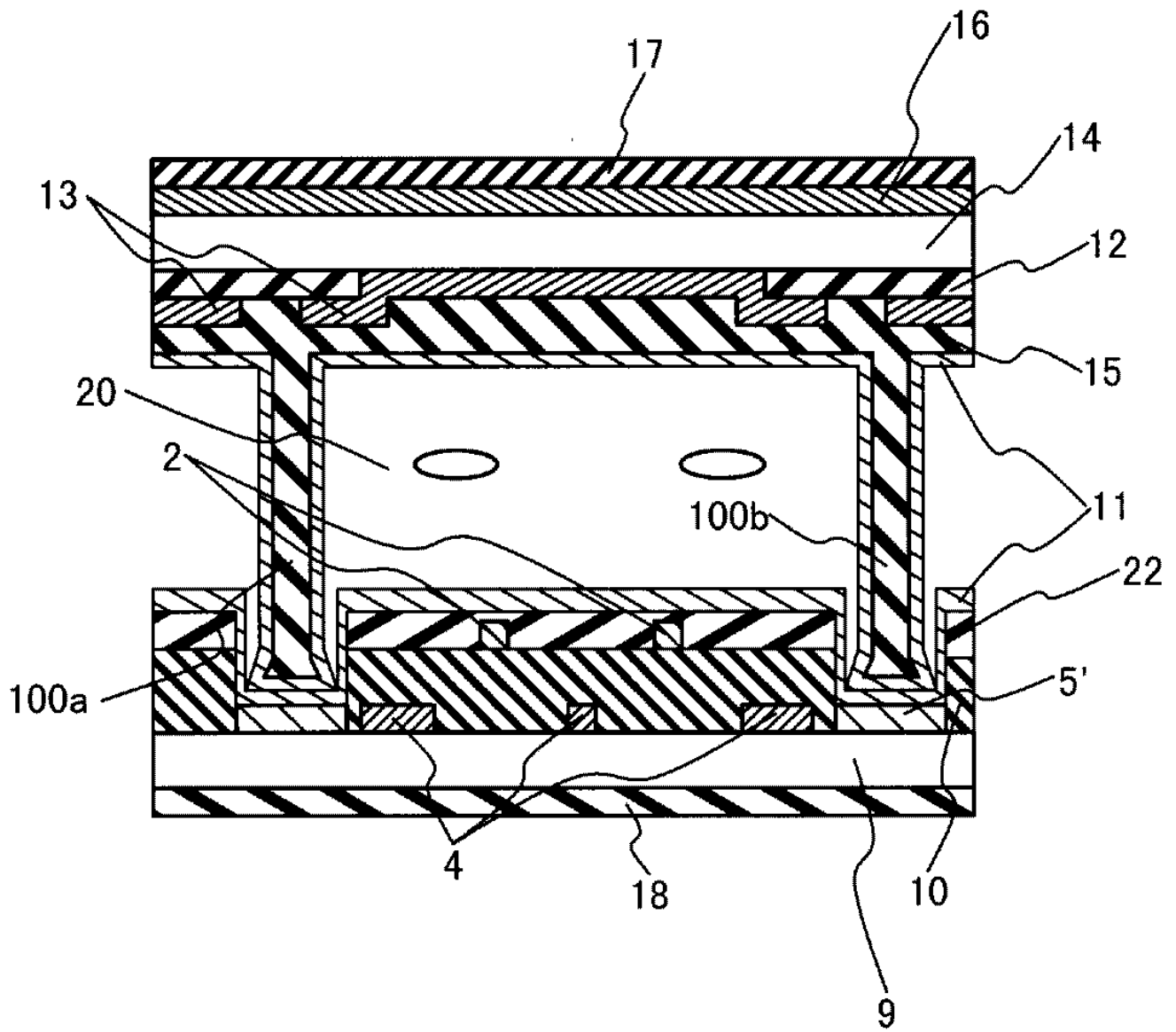
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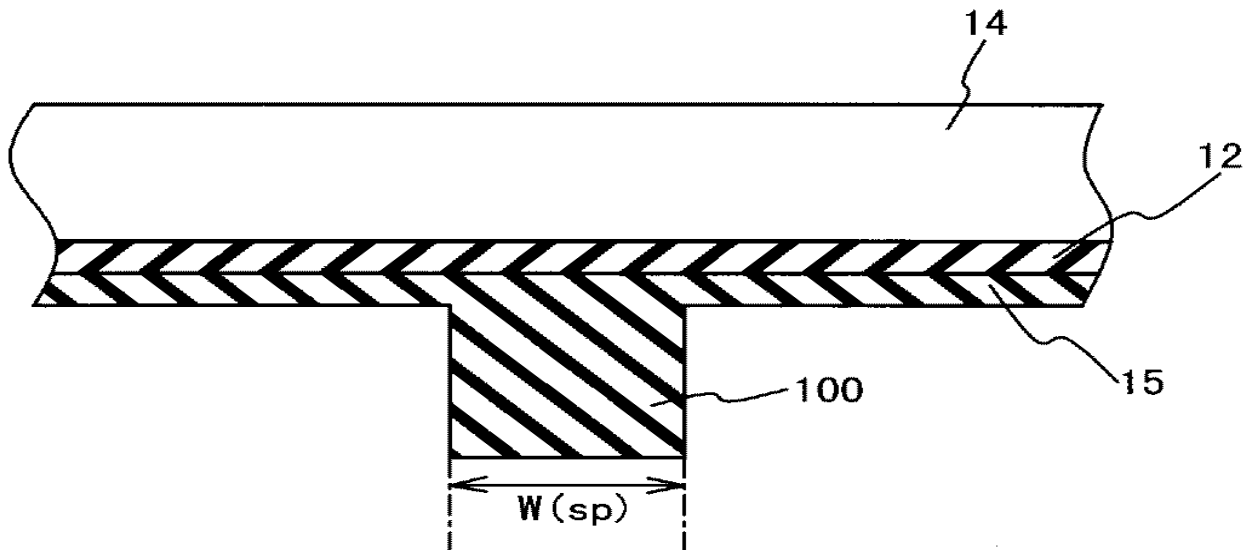


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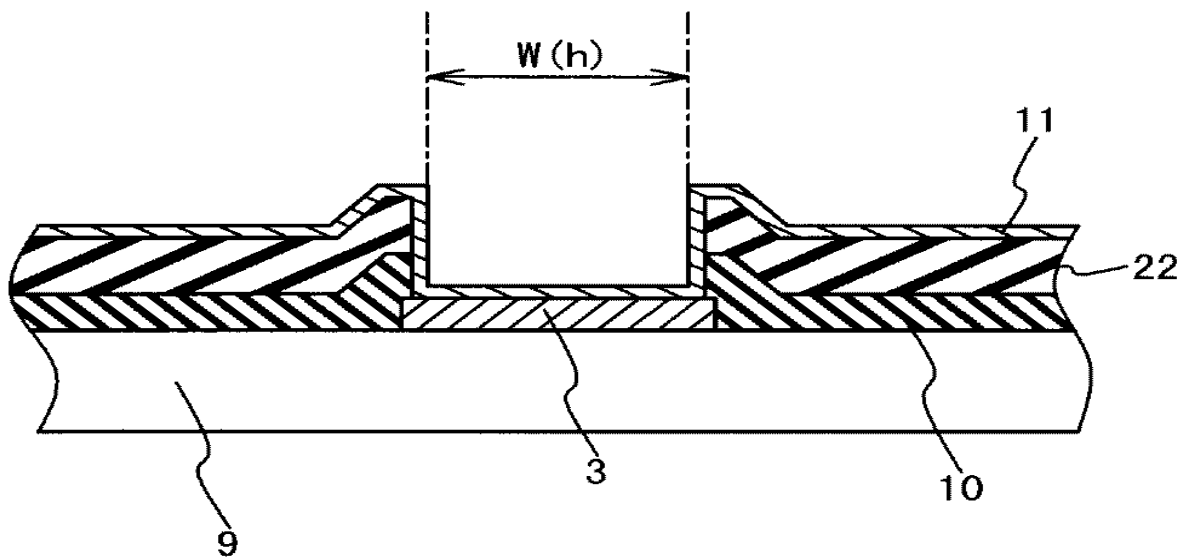


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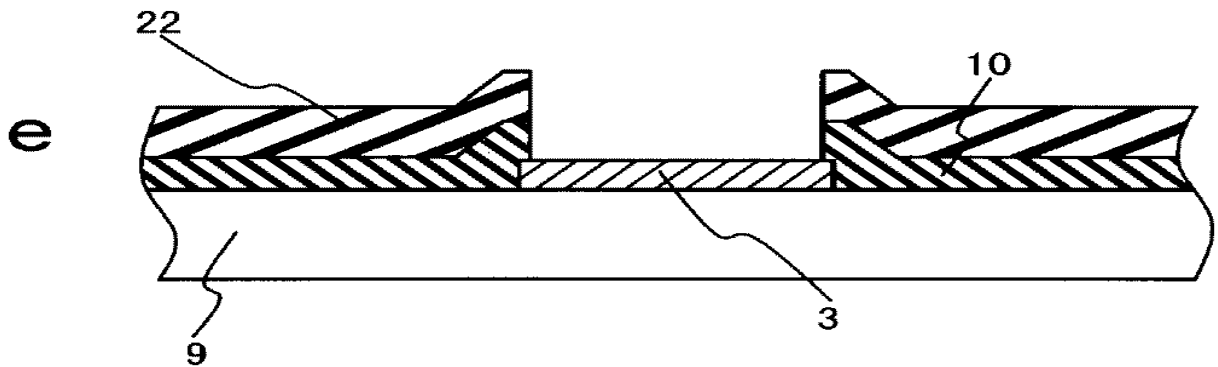
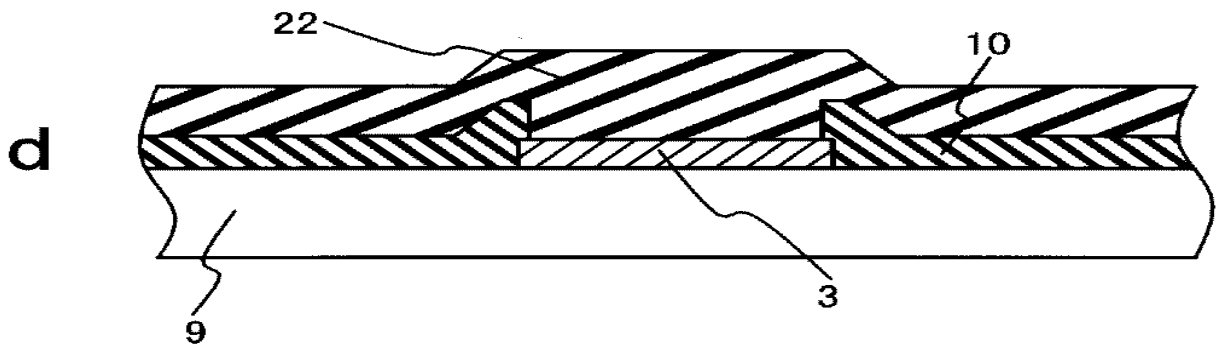
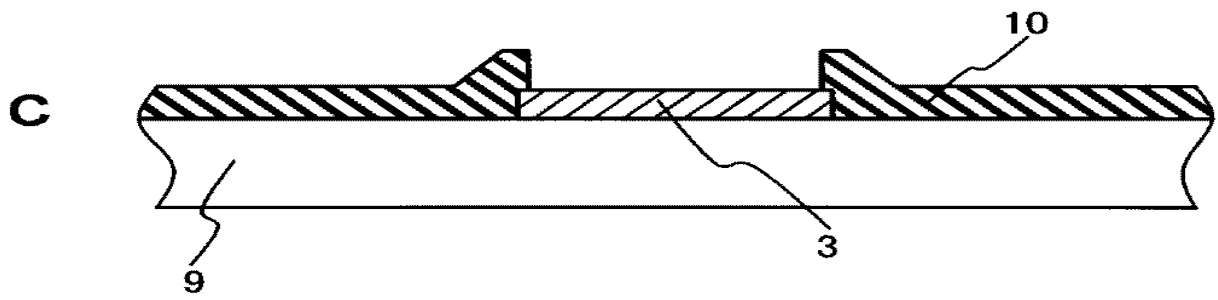
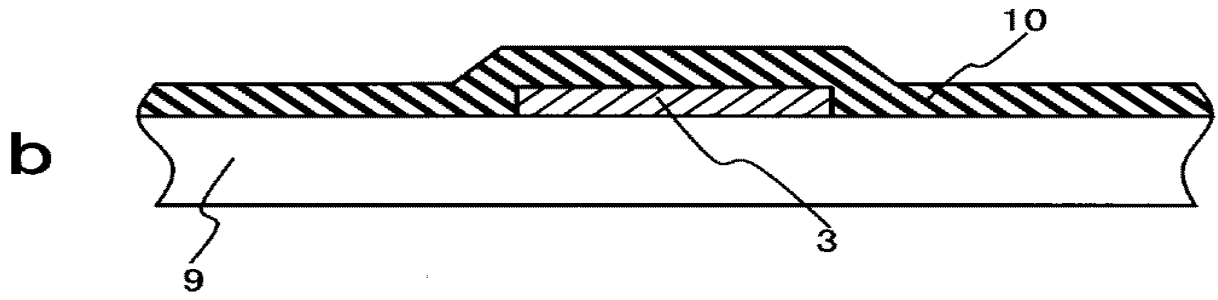
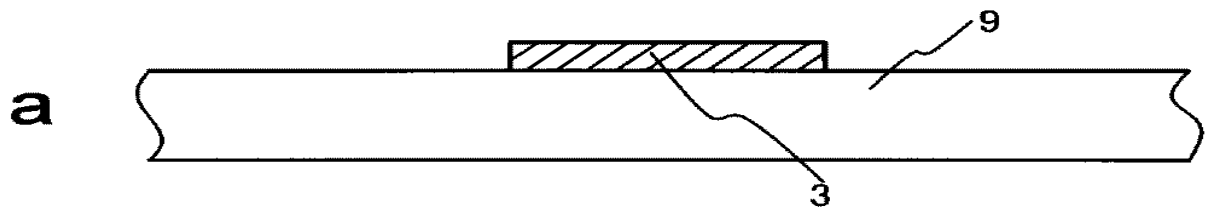
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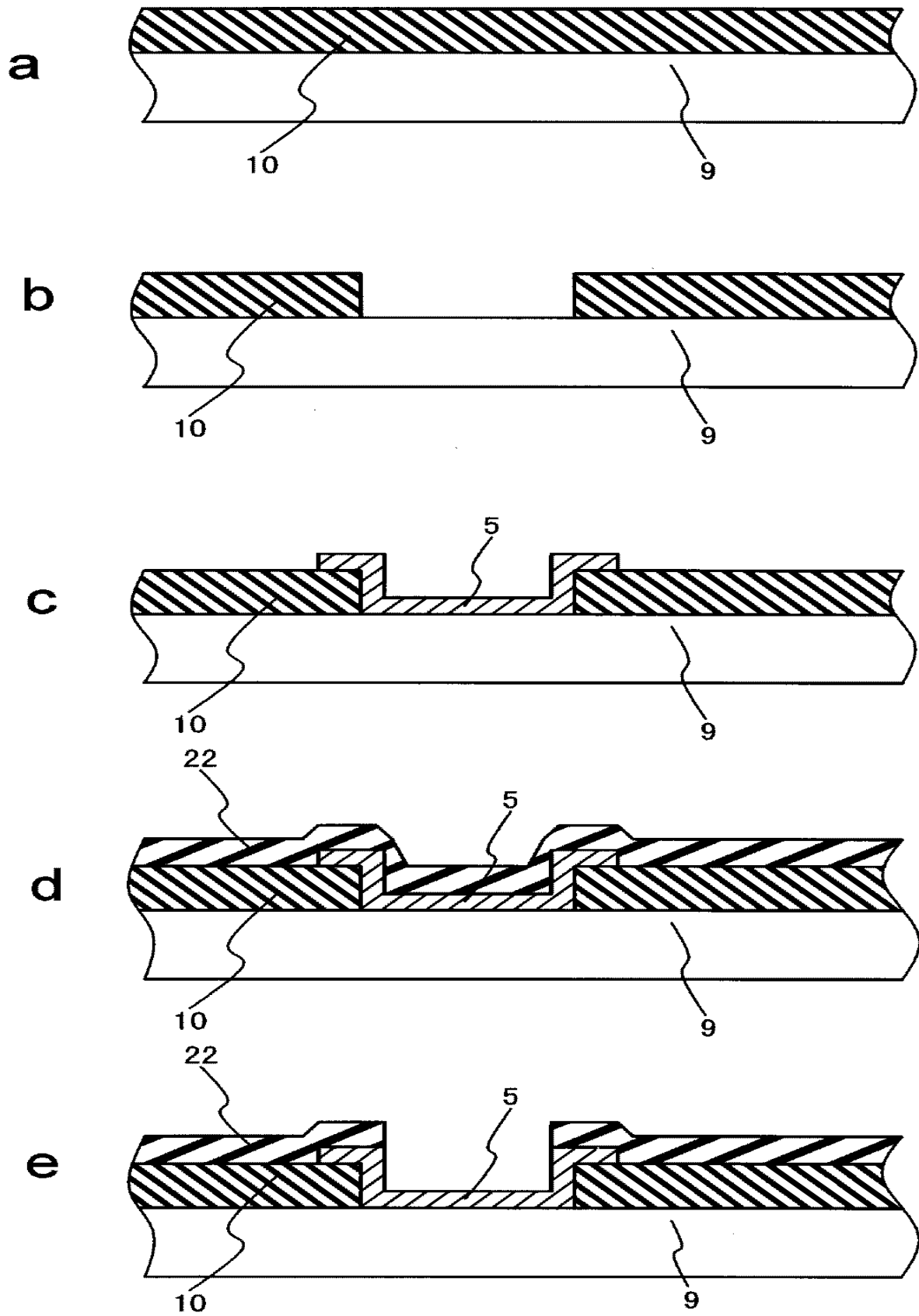


**b**

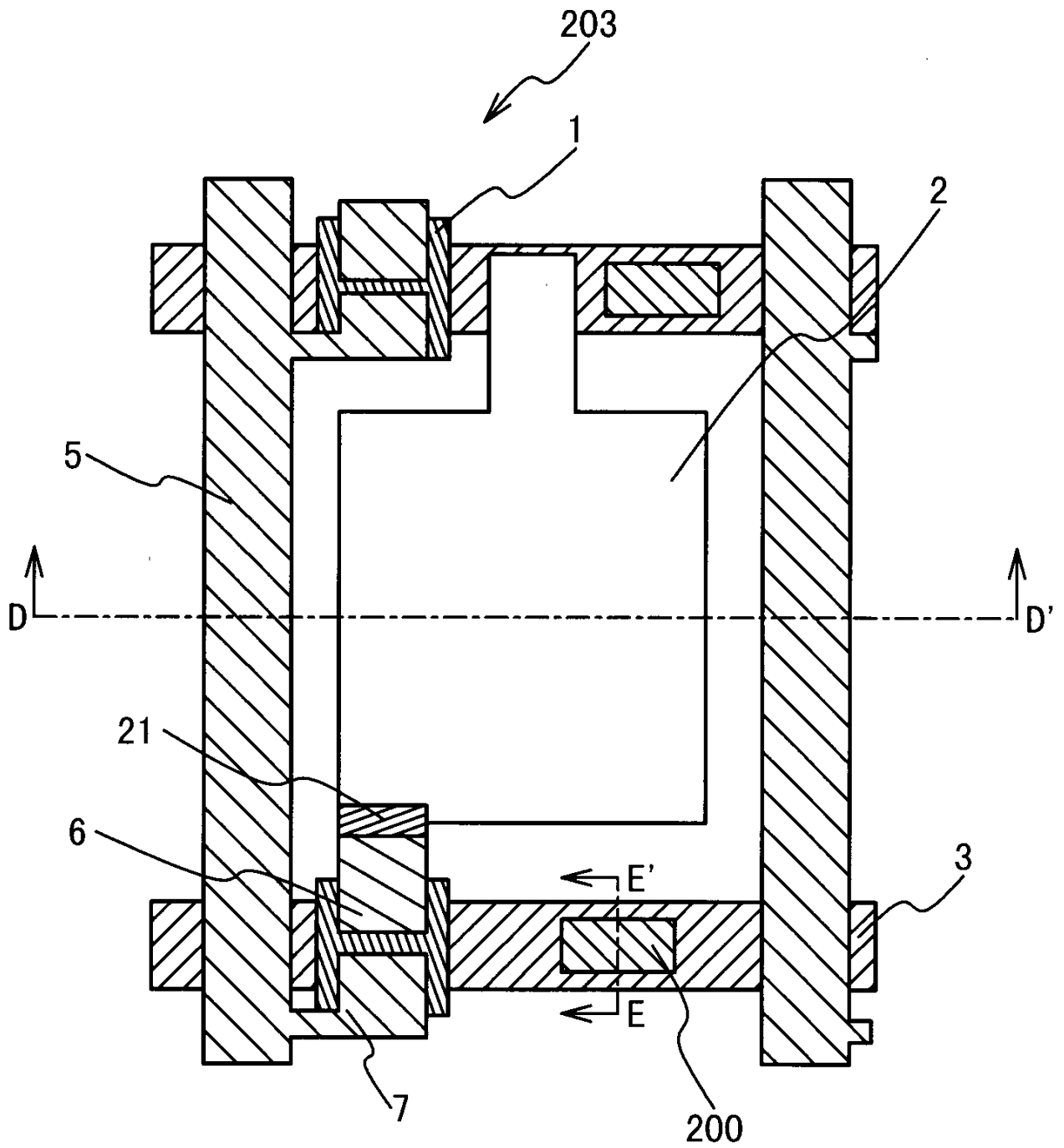


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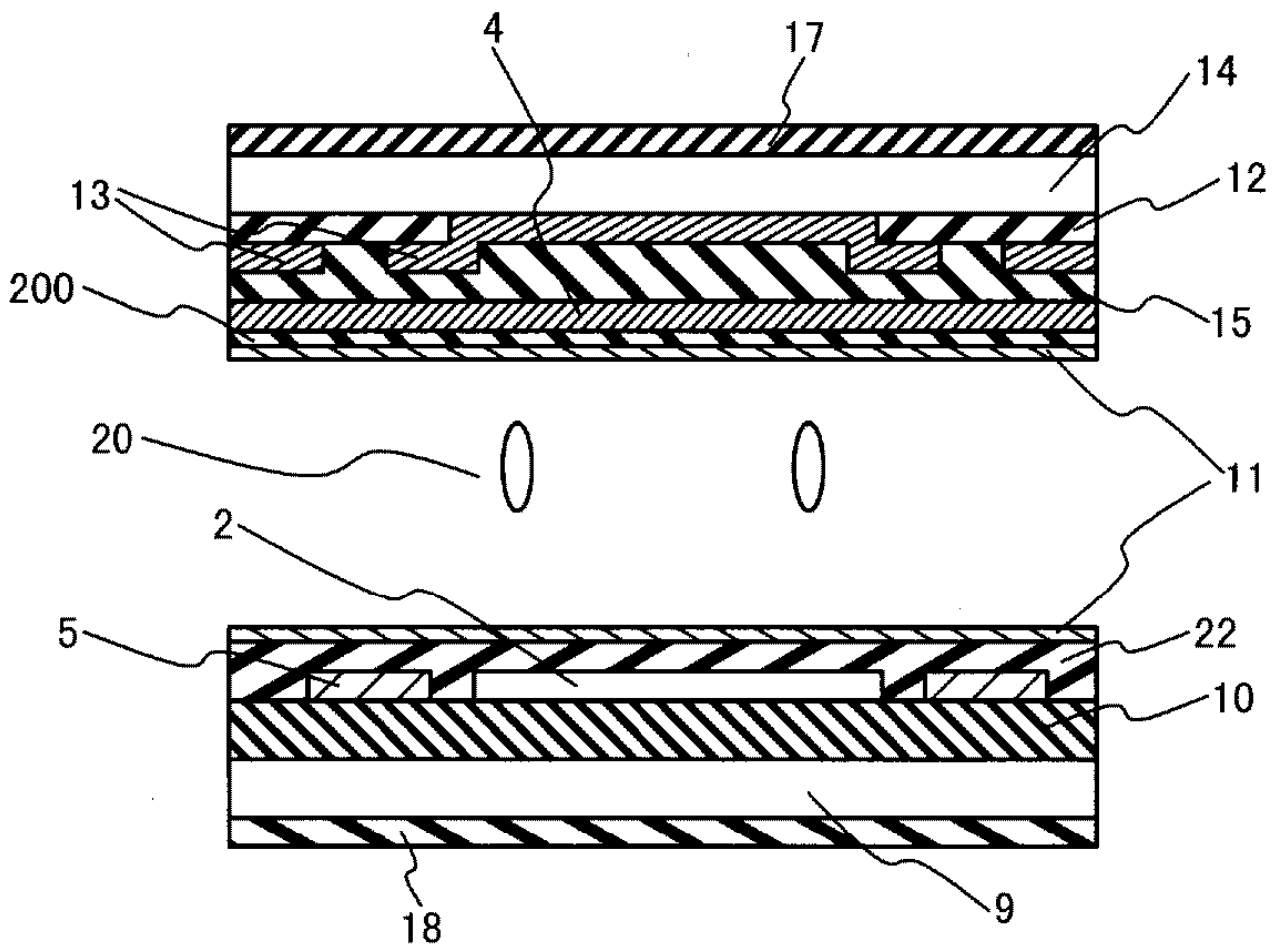




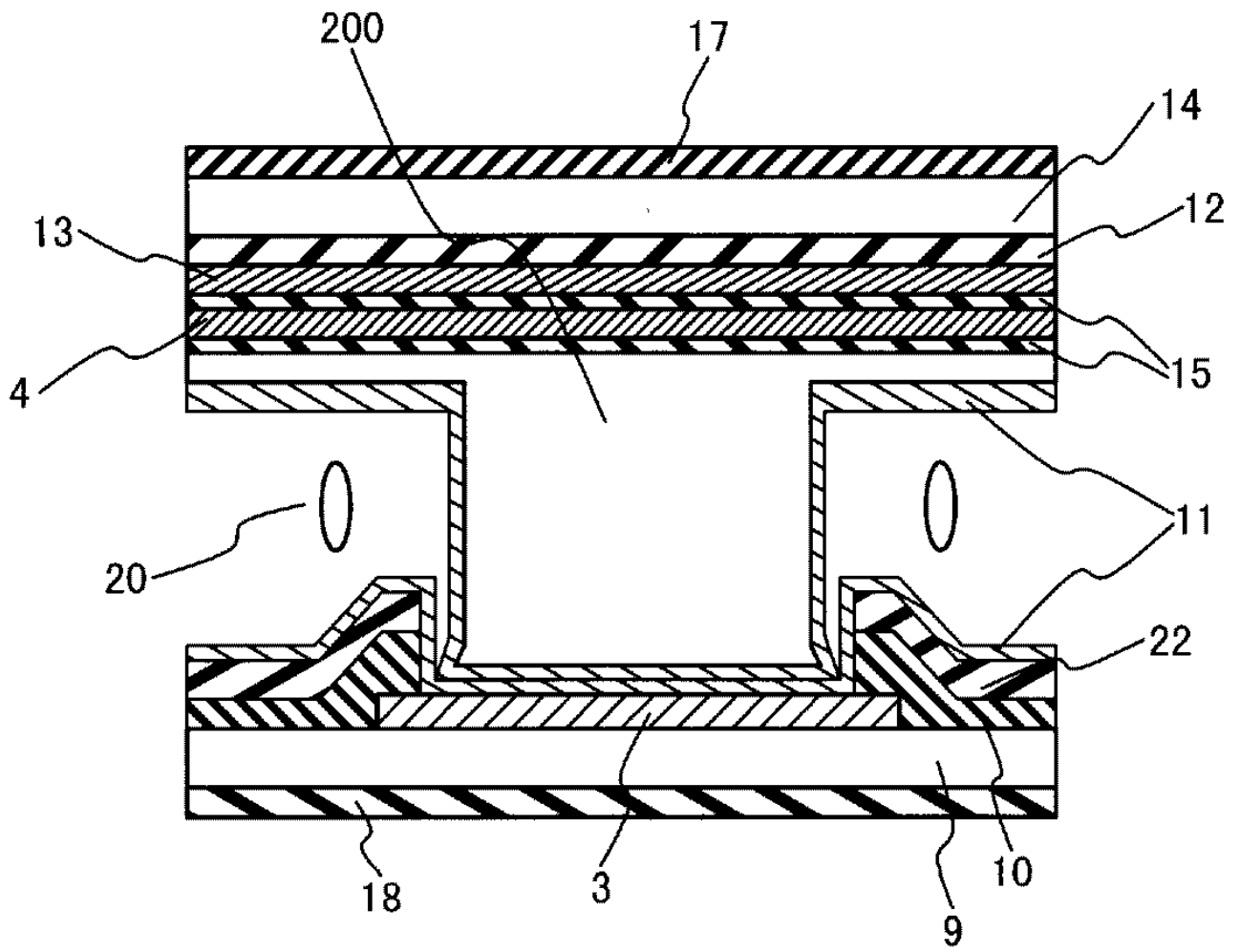
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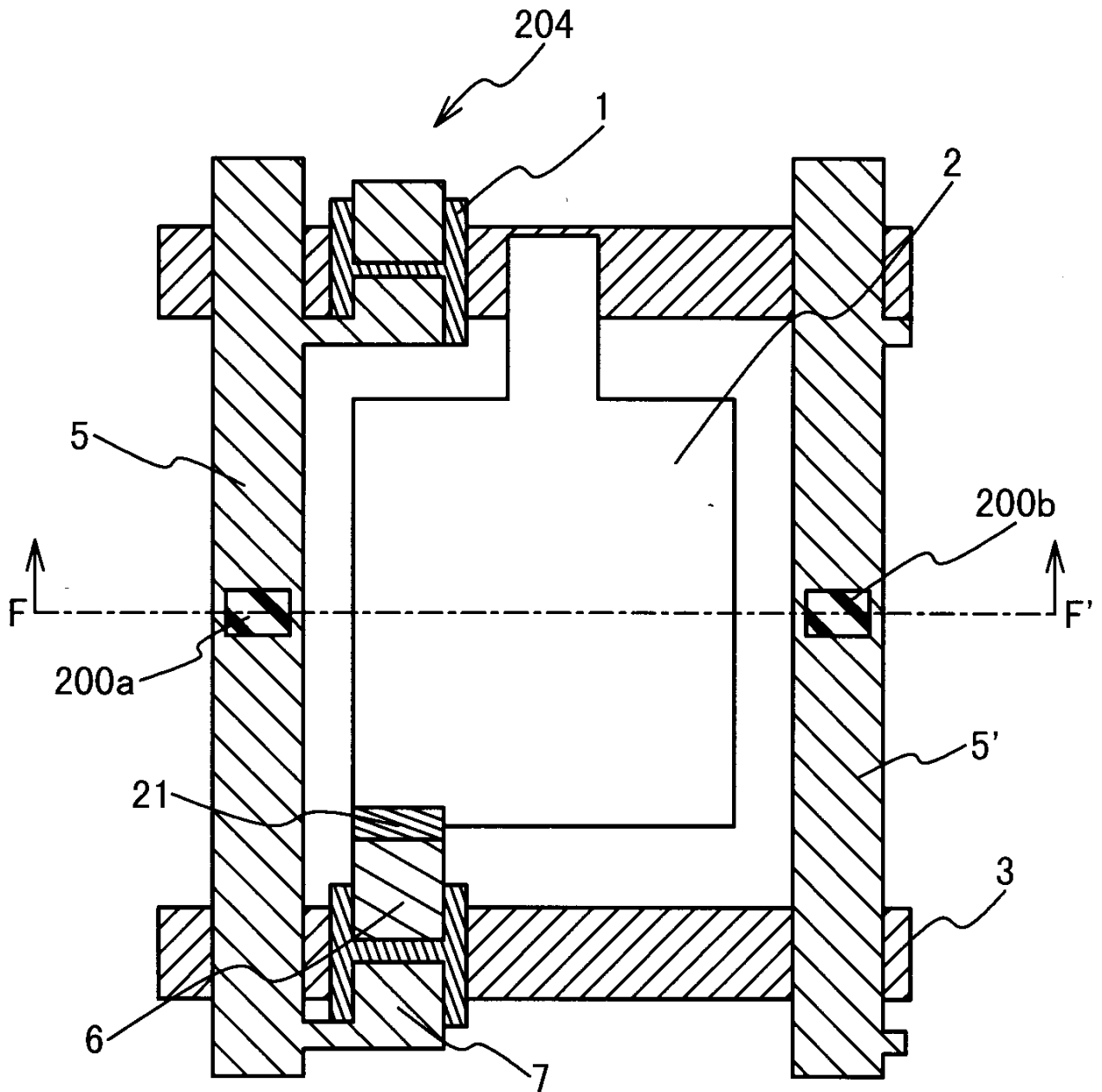
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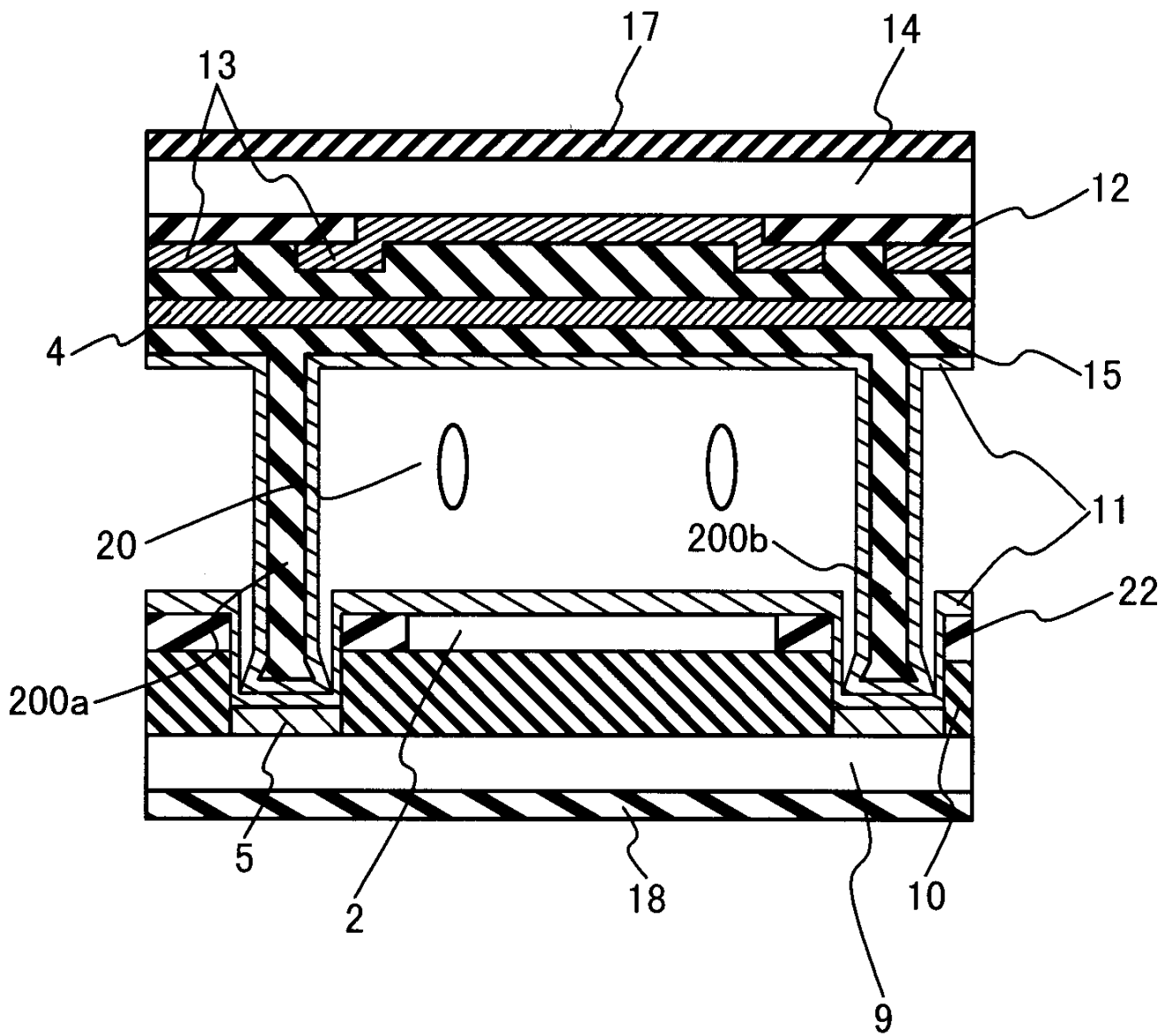
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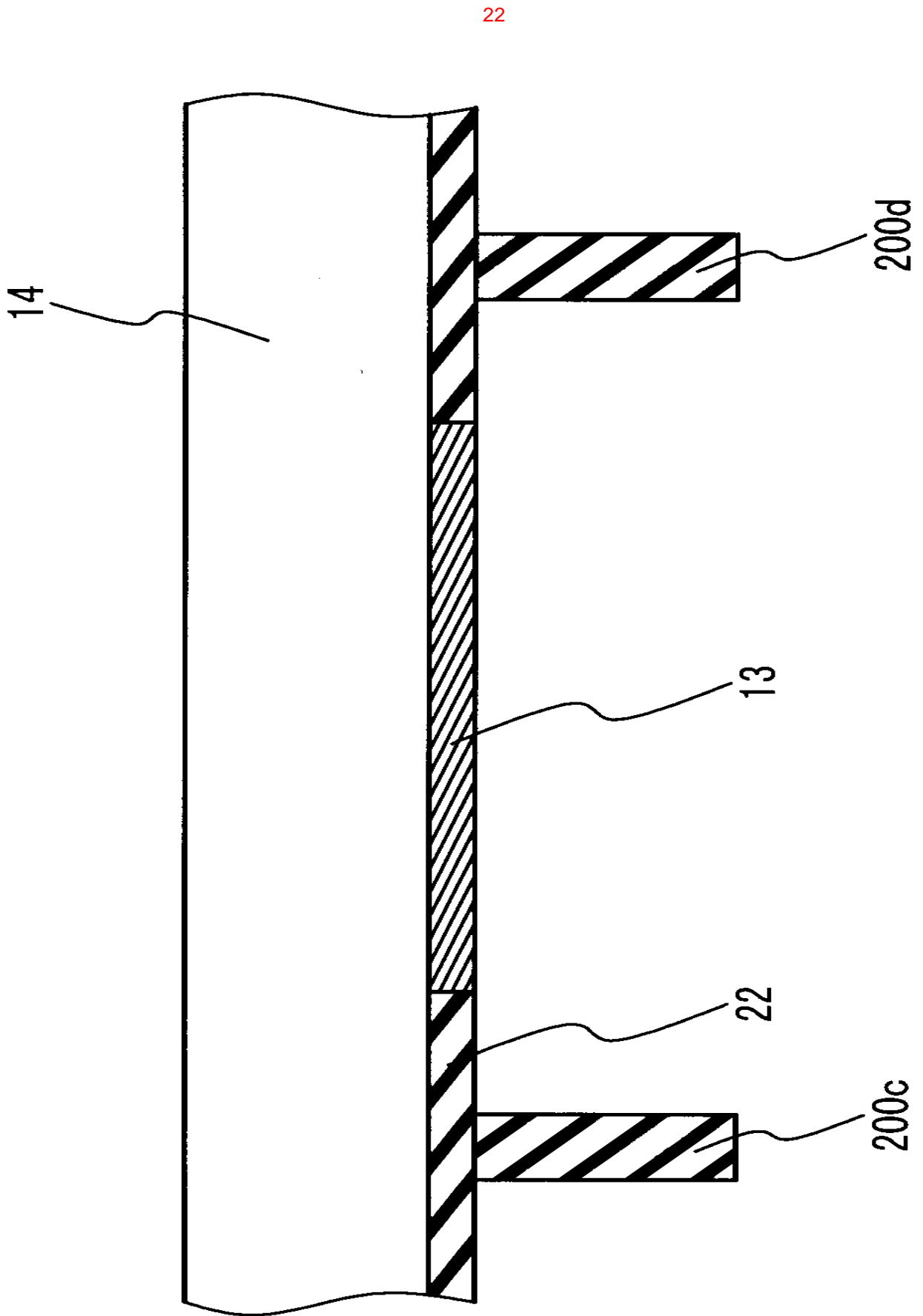


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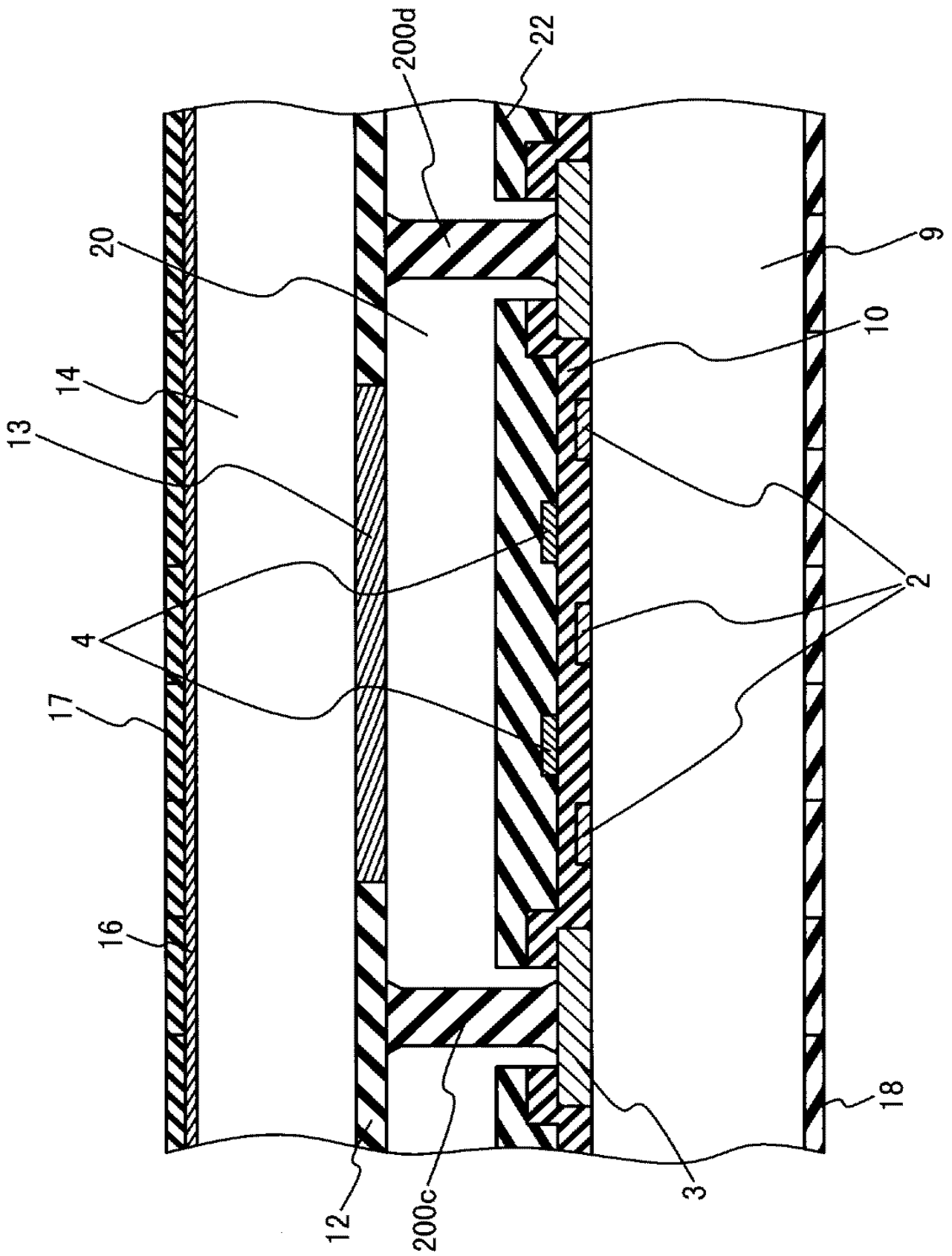


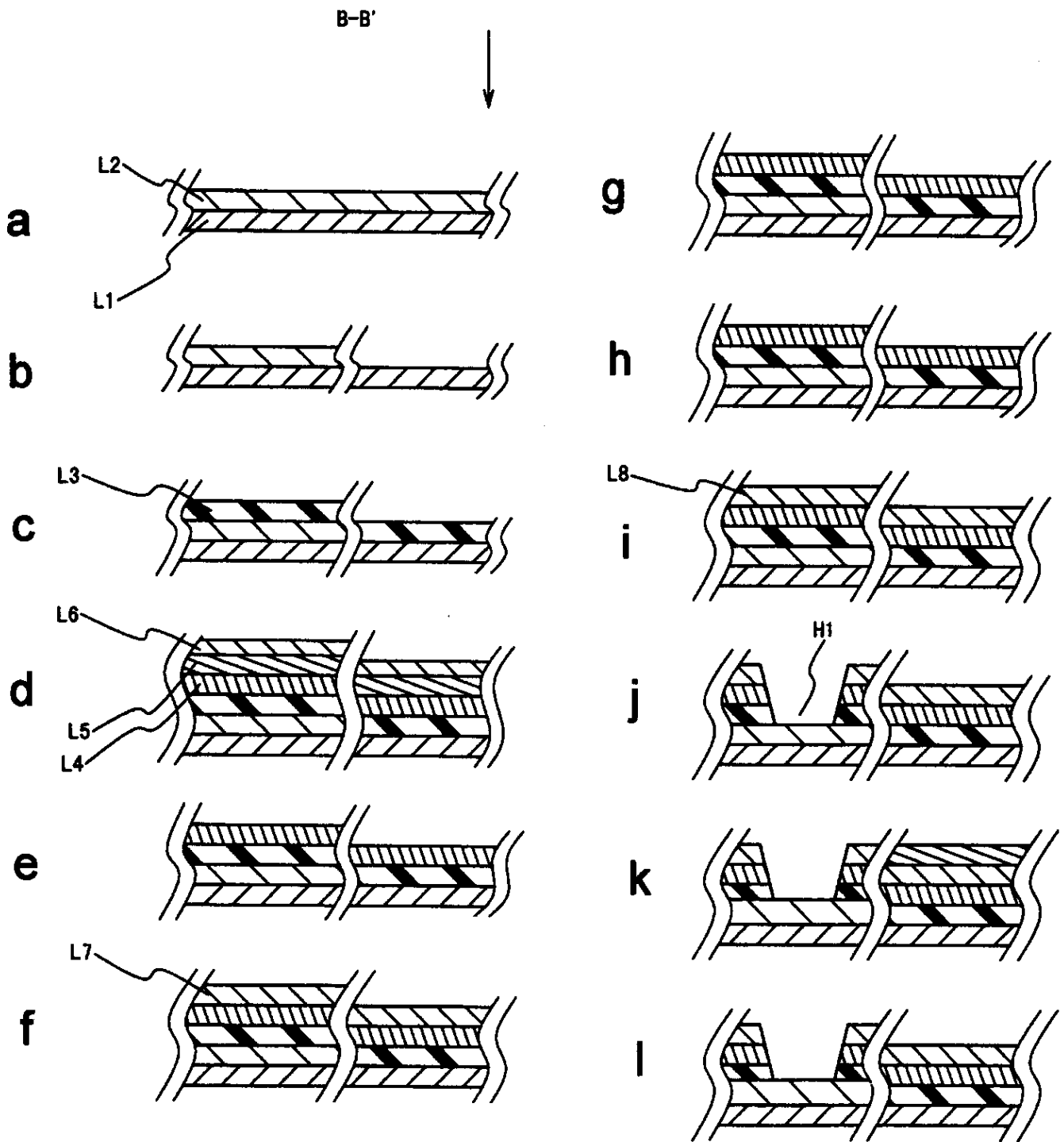
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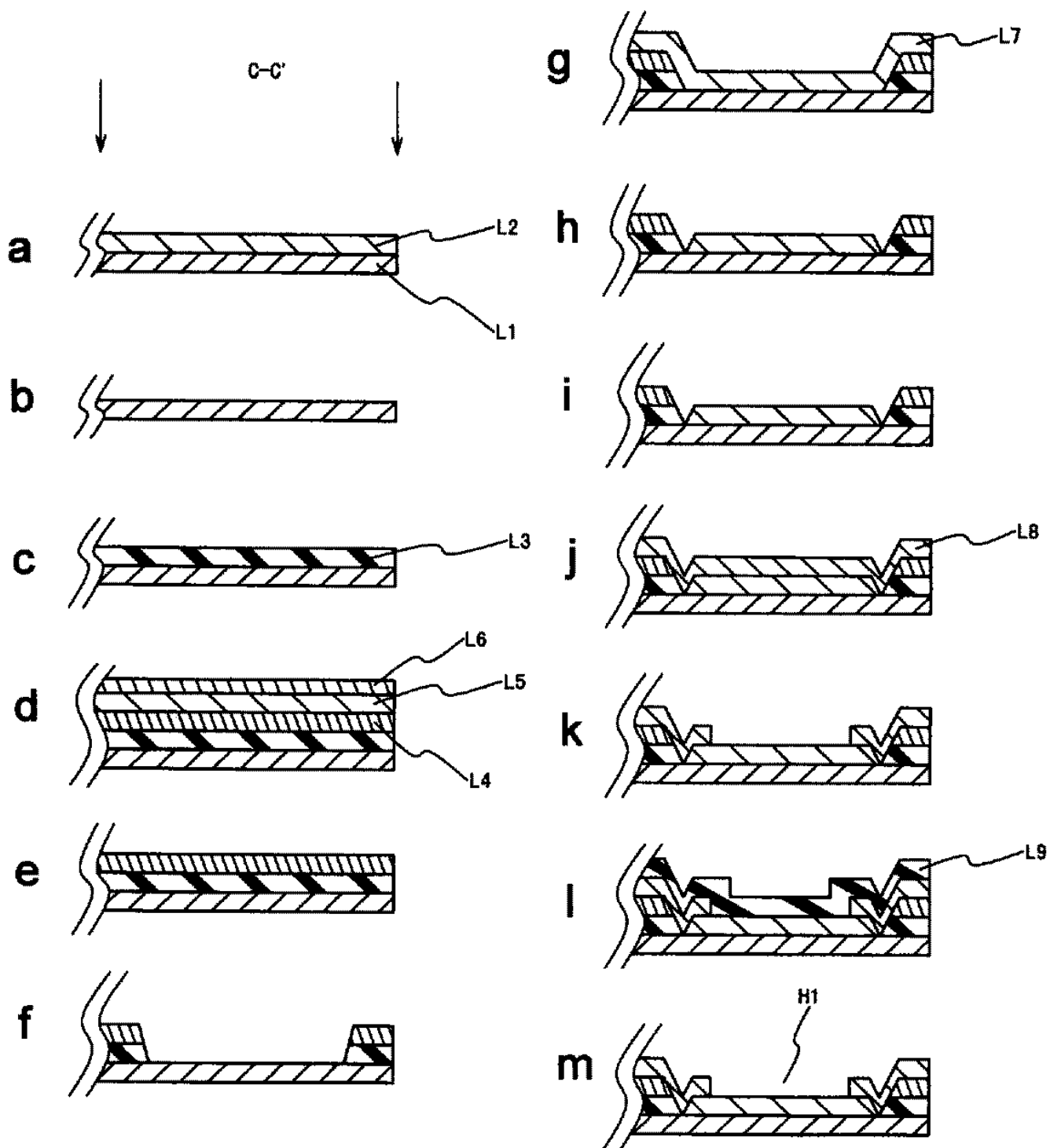




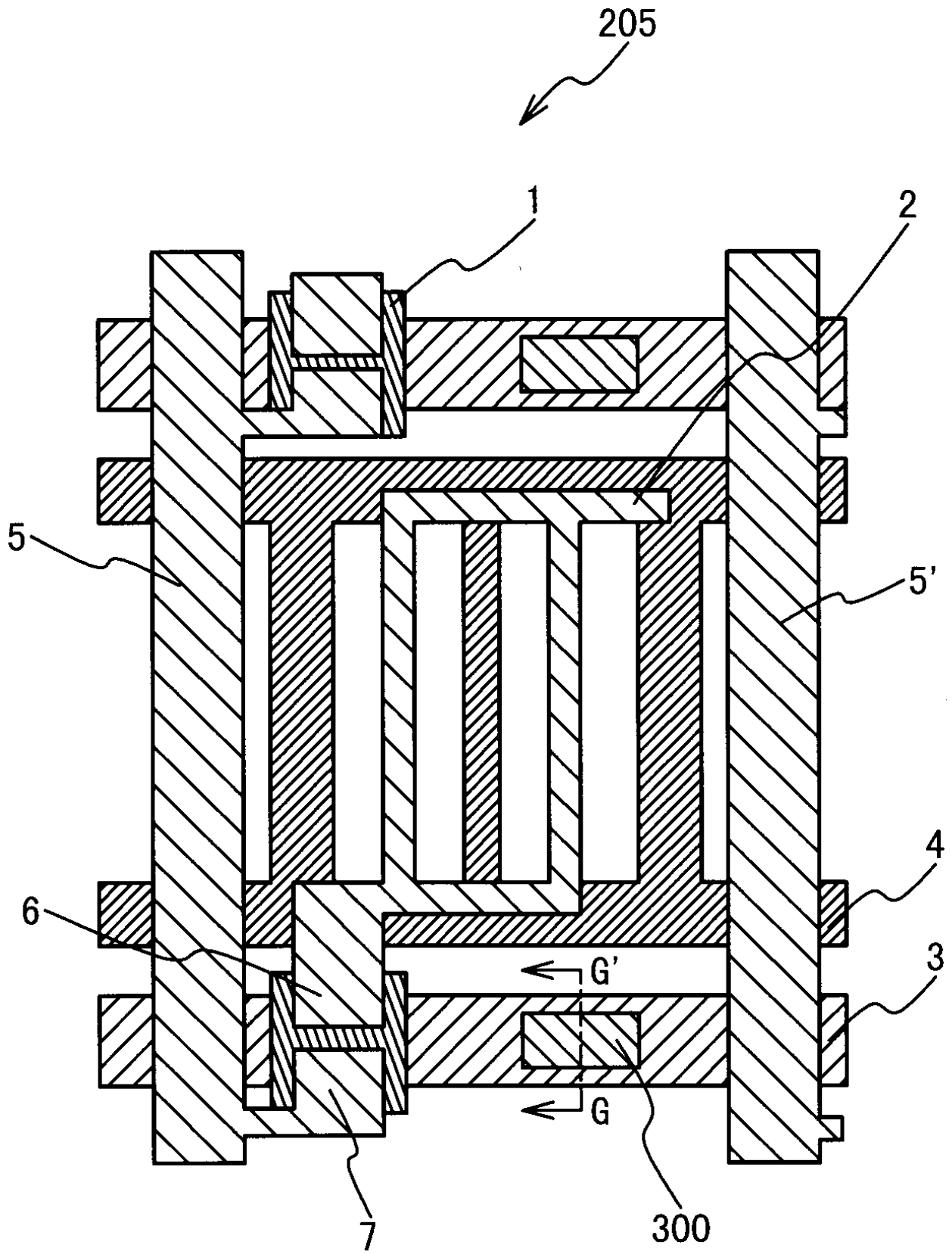
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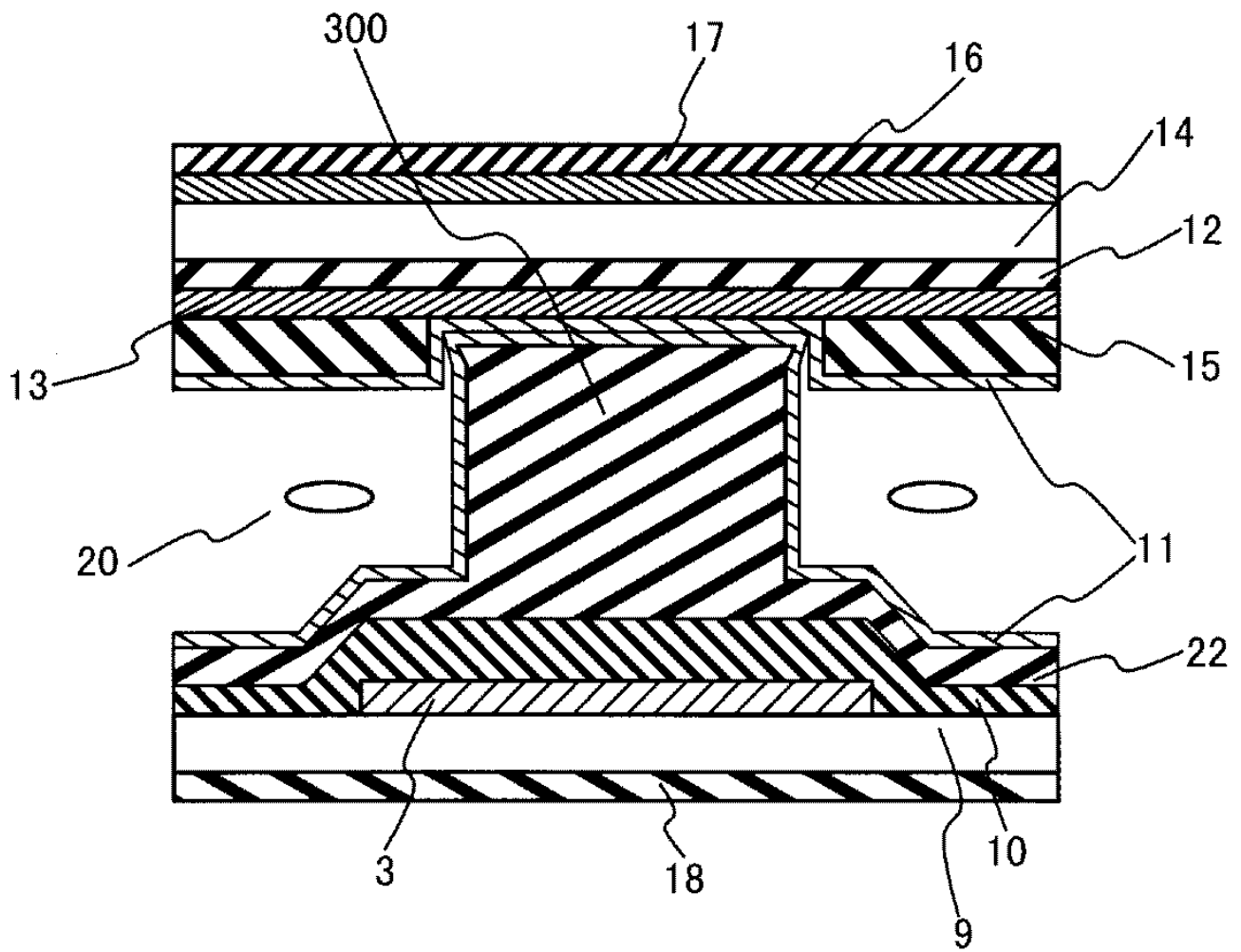




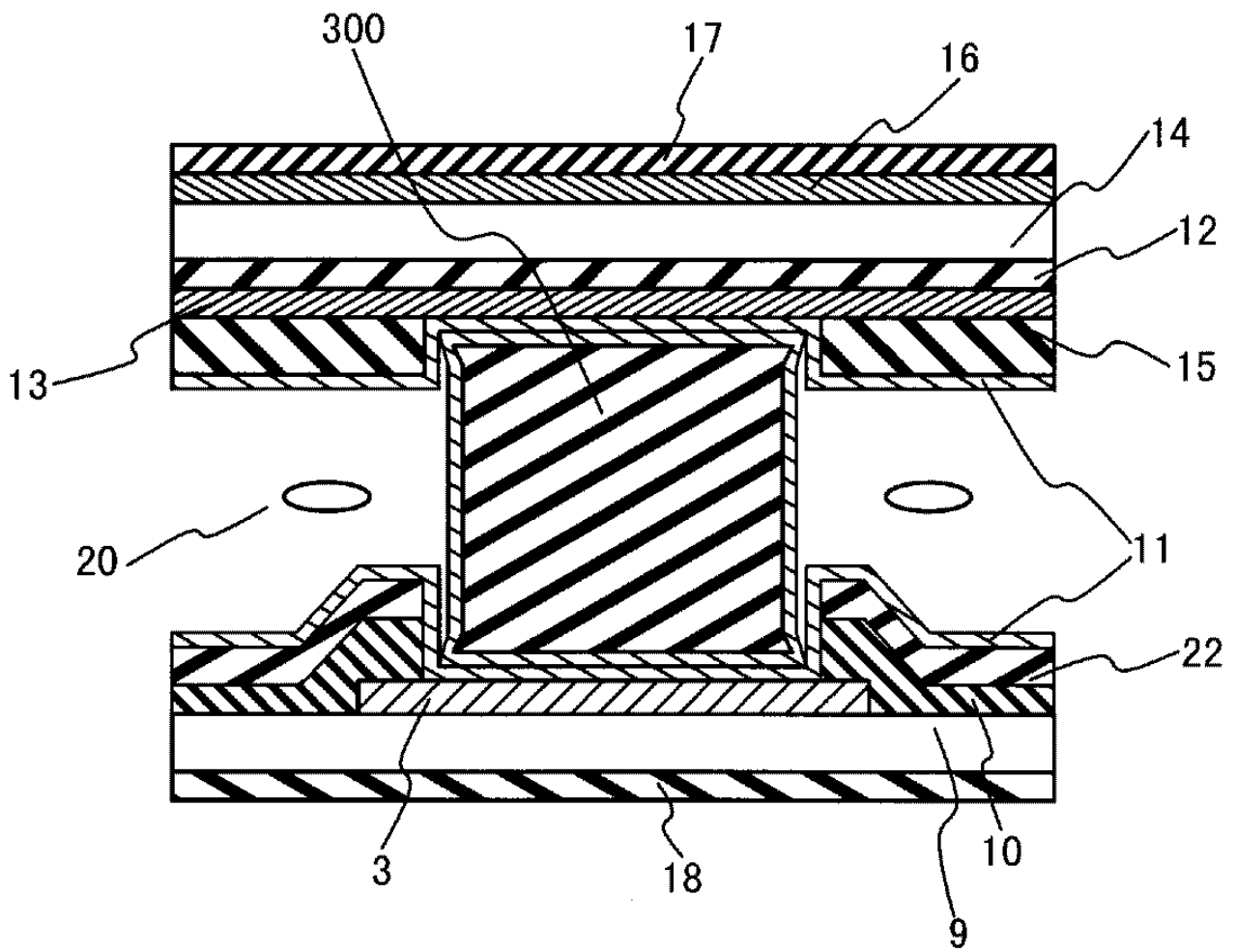
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专利名称(译)	液晶显示器		
公开(公告)号	<a href="#">KR1020010103611A</a>	公开(公告)日	2001-11-23
申请号	KR1020010021280	申请日	2001-04-20
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	MATSUMOTO KIMIKAZU		
发明人	MATSUMOTO,KIMIKAZU		
IPC分类号	G02F1/1335 G02F1/1339 G02F1/1343 G02F1/136 G02F1/1368		
CPC分类号	G02F1/133512 G02F1/13394 G02F1/134363		
优先权	2000121605 2000-04-21 JP		
其他公开文献	KR100400711B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

用于使用薄膜晶体管的液晶显示器包括第一和第二基板部分，第一基板部分和设置在第二基板部分之间的液晶层。支撑间隔物从第一基板延伸。第二基板部分包括凹槽。支撑间隔件的凹部和端部处于齿轮状，并且保持与第一基板部分的间隙。晶体管，液晶，基板，间隔物，。

