

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2001 - 0073422
2001 08 01

(21)
(22)

10 - 2000 - 0001793
2000 01 14

(71)

.

,

20

(72)

3

108 - 1210

107 - 1702

(74)

:

(54)

1 1 2 , 1 2
1 2 1 , 3 .
1 2

4b

1 .

2a, 2b, 2c, 2d 1 .
 3a, 3b, 3c, 3d 2 .
 4a, 4b, 4c 2a I - I' .
 5a, 5b, 5c 2a I - I' .
 6a 6b .

*

*

1 : 3 :
 5 : 7 :
 9 : 11 :
 13 : 17 :
 21 : 23 :
 25 : 27 :
 29 : 31 : 1
 33 : 2 35 :
 37 : 39 :
 43 : 53 :

display device)

(multi - domain liquid crystal

가

1
 (Ohmic contact layer)
 1
 (37) , (37)

1
 (Thin Film Transistor ; TFT) ,

(13) , (13) (21) .

(25) , 2 (25) , (23) , (23) (17) ,
 , 1 2 .

(13) (21) (17) (27) 가
 가 ,
 가 .

(17) (27) ,
 (17) 가 .

(director)가 , 가 , (27)
 (texture)가 , .

(13) (21) 가 가 가 , 가 가 .

2 , 1 , 2 2 , 1 2 1 ,
 3 .

2 , 1 2 , 1 2 , 2 1 ,
 , 1 2 3 .

2a, 2b, 2c, 2d 1 , 3a, 3b, 3c, 3d
 2 , 4a, 4b, 4c 5a, 5b, 5c 2a I - I'

1 (31) 2 (33) , 1

1 (7, 9) (9) 1 (11), (35), (5), (37) , (1) , /

(13) .

, 2 (33) , (1), (3), (25) , (25) (23) , (17) , , 1 2 .

1 (31) 2 (33) (53) ,

(: single point) (53)

, (53) 가 , 가 , .(4b, 4c, 5b, 5c)

, 1 (11), (35), (5), / (7, 9) (1) (3) .

(11), (1) Al, Mo, Cr, Ta Al (sputtering) (35) SiN_x SiO_x PECVD(Plasma Enhancement Chemical Vapor Deposition) (5) a - Si n^+ a - Si PECVD

i n^+ a - Si SiN_x SiO_x , a - Si n^+ a - Si (35) , a - S (5) (6) (35) BCB(BenzoCycloButene), (acrylic resin), (polyimide)

, Al, Mo, Cr, Ta Al (3) / (7, 9) (1) (1)

, 1 (31) BCB(BenzoCycloButene), (acrylic resin), (polyimide) SiN_x SiO_x (37) , ITO(indium tin oxide) (13) (13) (9)

2 (33) (25) , R, G, B(Red, Green, Blue) 가 (23) (17) (13) 가 ITO , (5 3) (17) , (photolithography)

1 (31) 2 (33) 가 , 가 .

(53) 가 , 1 2 , , (53) / 1 . , (dielectric constant) 가 , 3 가 , (photoacrylate) BCB(BenzoCycloButene) , BM(resin black matrix) (25) , 가 , 1 (31) 2 (33) (29) (29) (negative uniaxial film) , (gray inversion) , (contrast ratio) , (n egative biaxial film) , (viewing angle) . (polarizer)() , 2a, 2b, 2c, 2d , (53) 2 , 3 , 4 . 3a, 3b, 3c, 3d , (53) 2 , 4 , 6 , 8 . 4a 2 (33) , 4b , 4c 2 1 2 1 2 . 5a 2 (33) , 5b , 4c 2 1 2 1 2 . 6a 6b .

6a

가

6b

가 , 1 / 2 (, , PVCN(polyvinylcinnamate), PSCN(polysiloxanecinnamate), CelCN(cellulosecinnamate) 가 . 1 , direction) 가 (pretilt angle) (alignment direction) (pretilt direction) , . ,

1. 2. 가 .

$$(57) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \int_0^t K(t,s) f(s) ds$$
$$1 \quad 2 \quad ,$$

1 2 ,

2

1 2 3 .

1 , 3 ,
.

3.

2 , 3 , 1 2
.

4.

2 , 3 , 2 1
.

5.

1 , 3 가, 1
.

6.

1 , 3 가, 2
.

7.

1 , 3 가, 1 2
.

8.

1 , ,
.

9.

1 2 ,

1 2 ,

, 1 ,

, 2 , ,

1 2 3 .

10.

9 , 3 ,
.

11.

9 , 3 ,

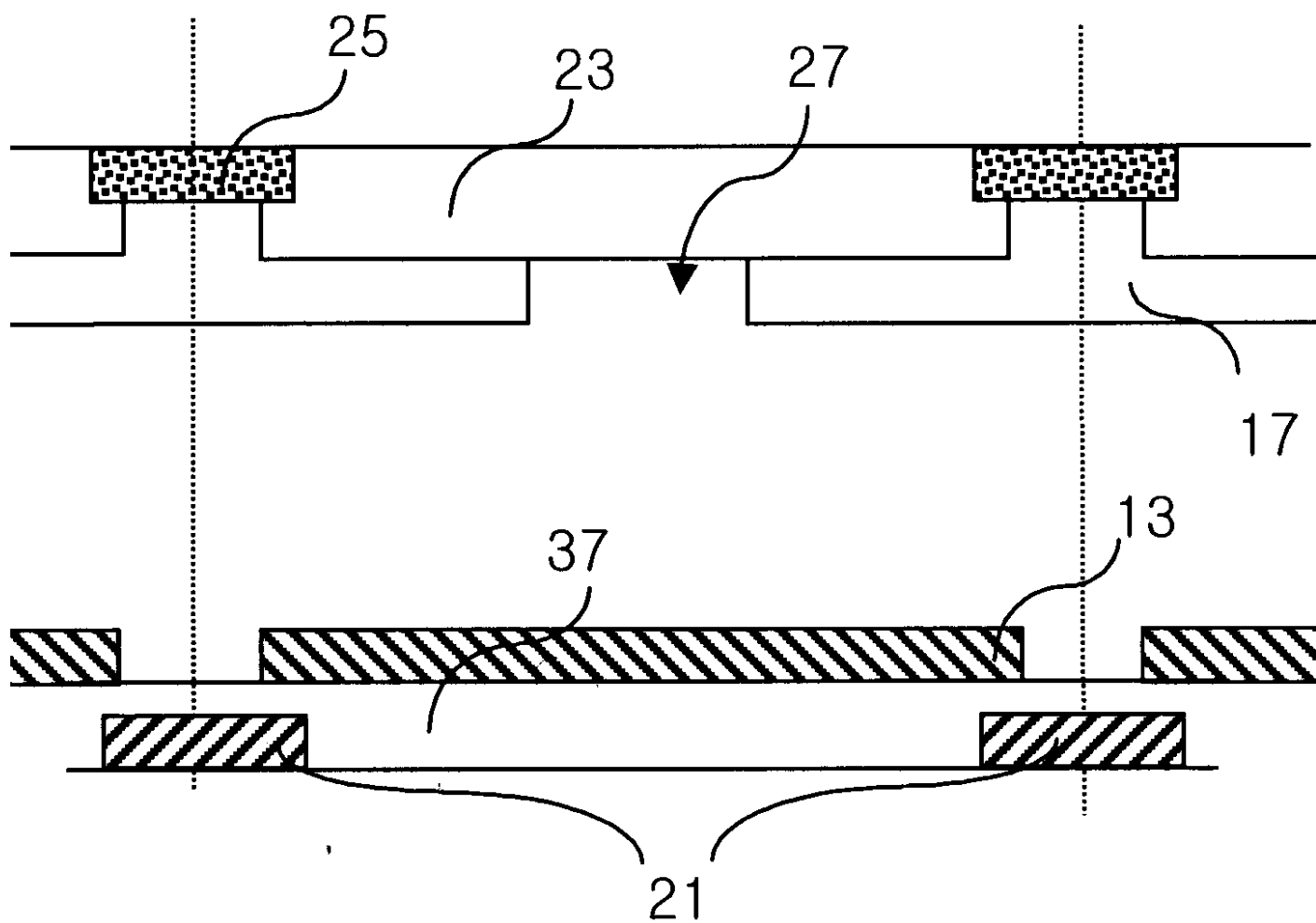
12.

9 , ,

13.

9 , ,

1



2a

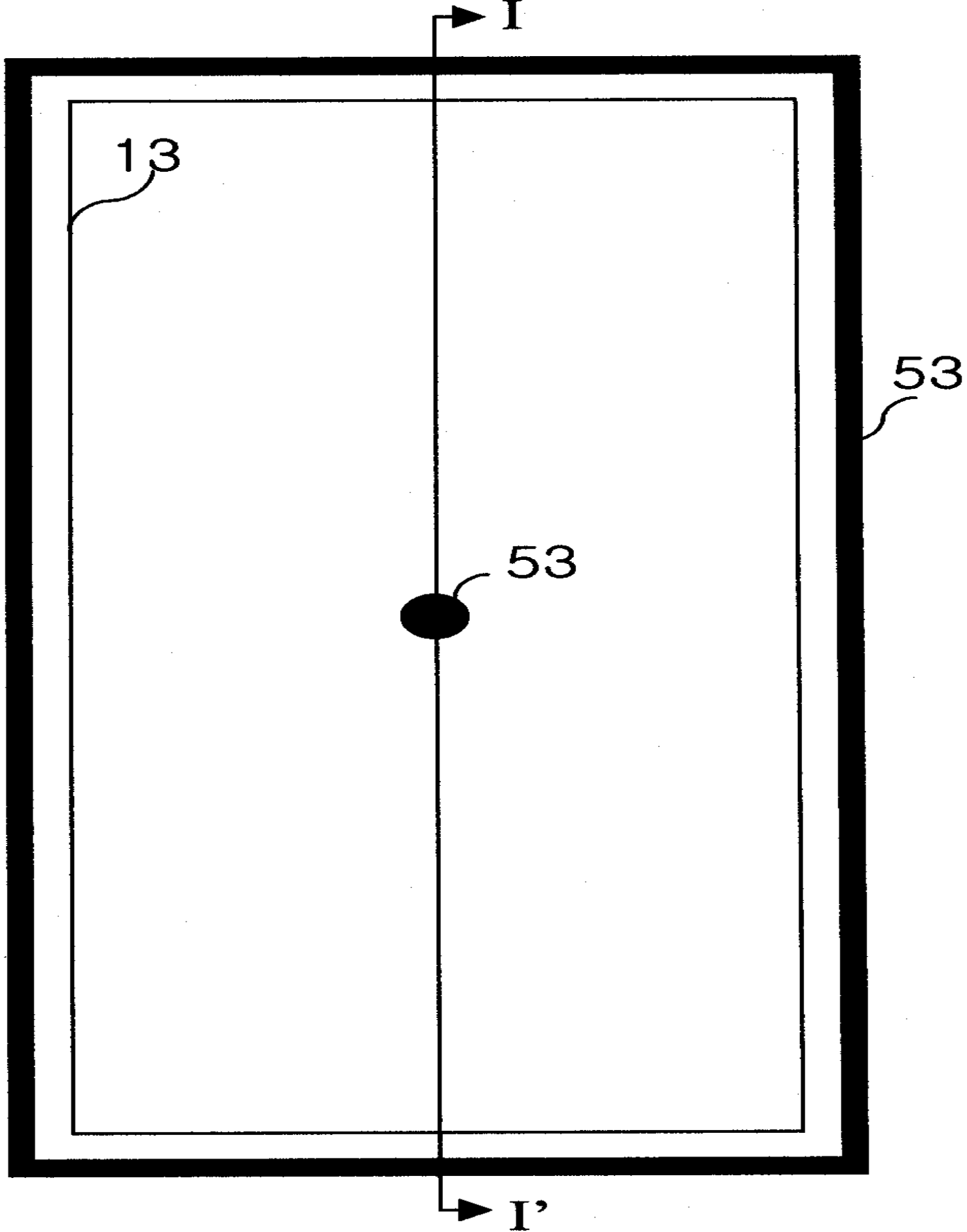
I

13

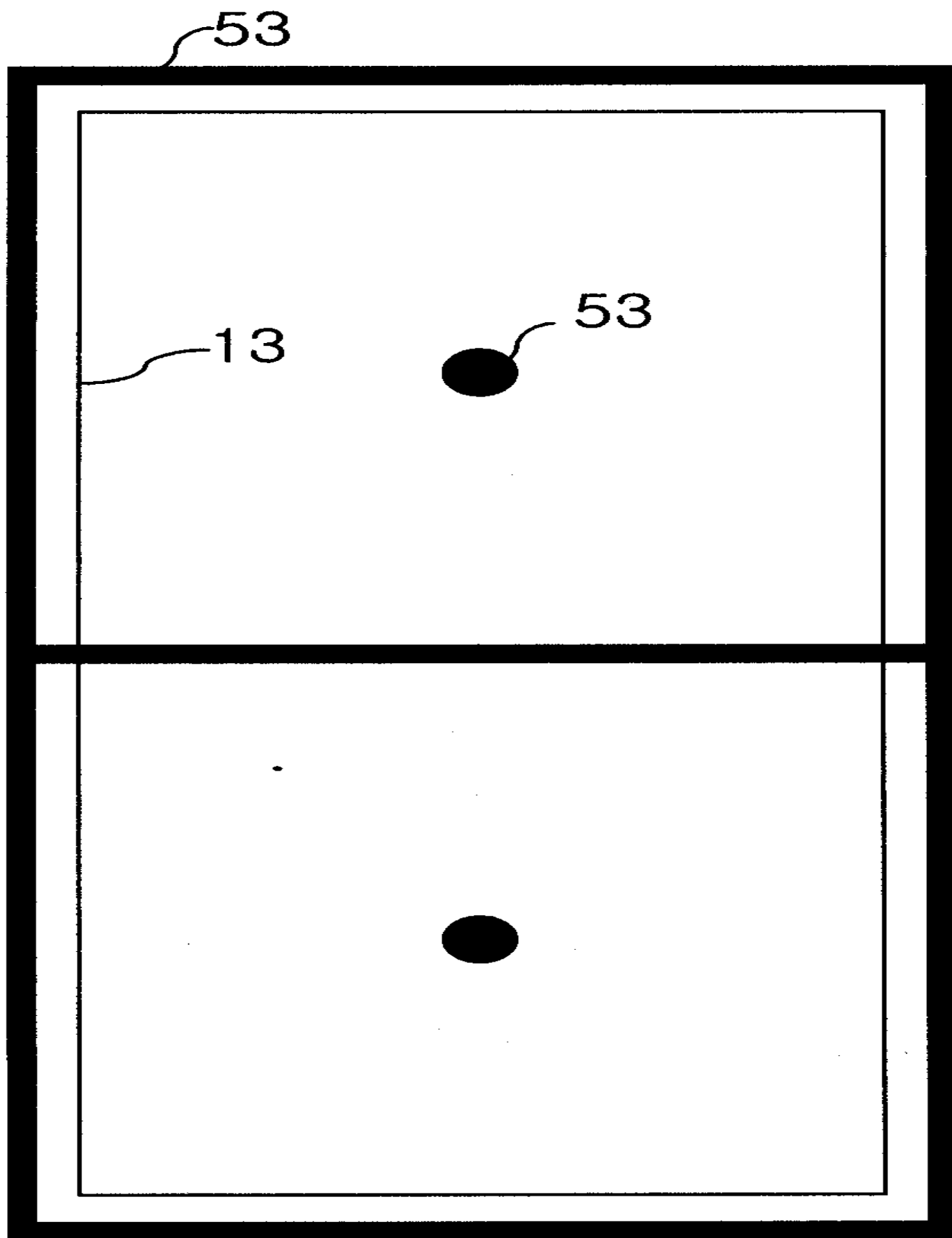
53

53

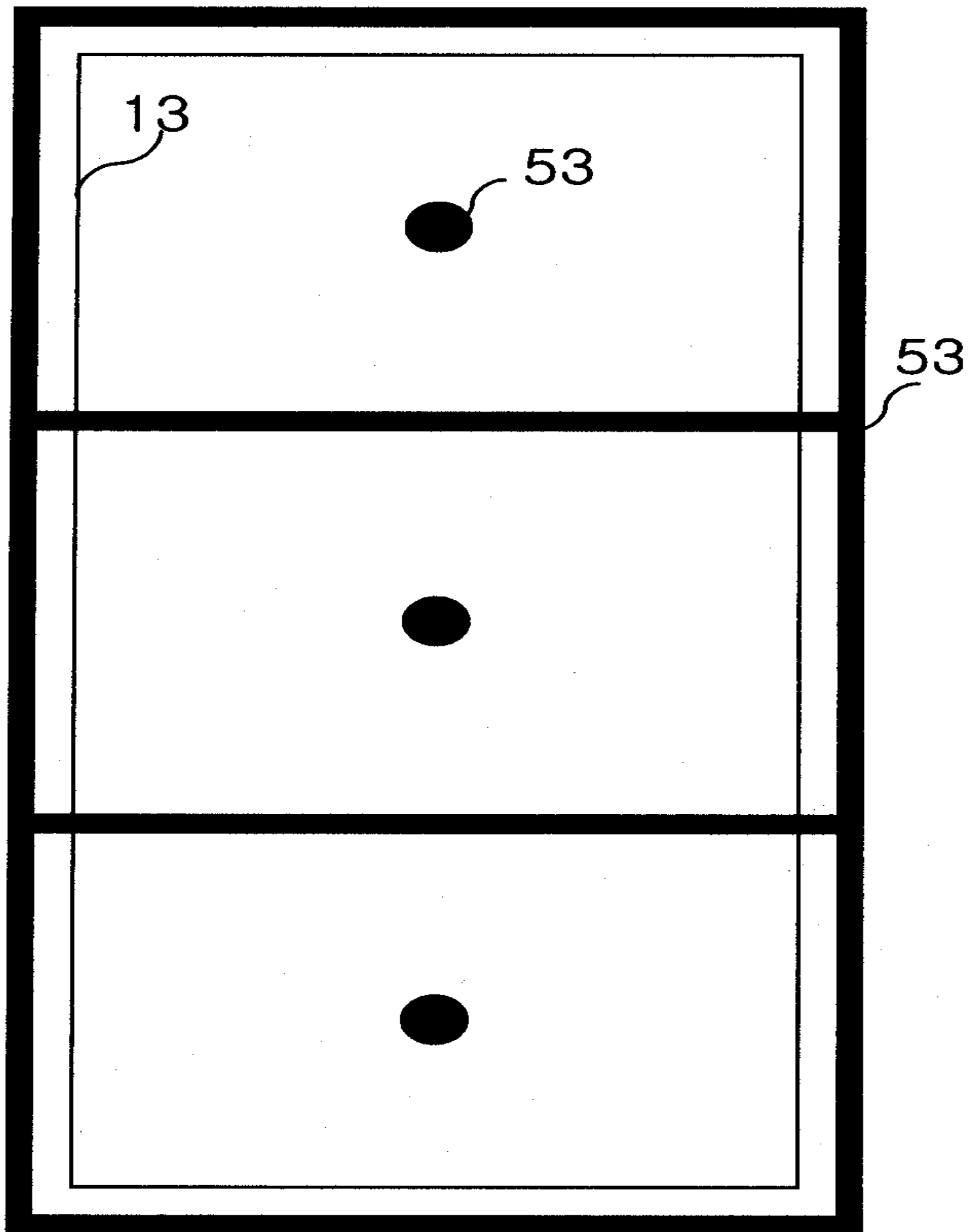
I'



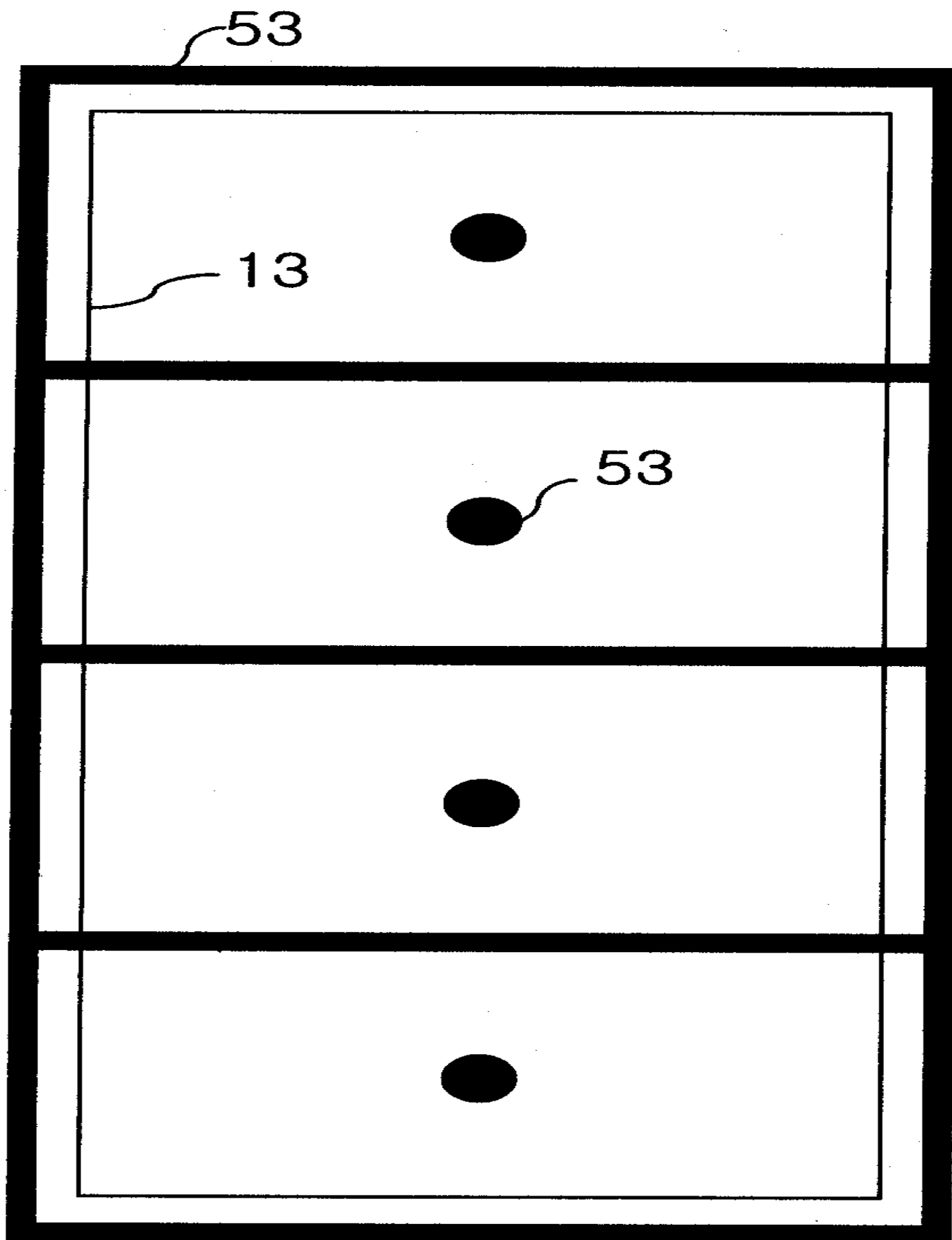
2b



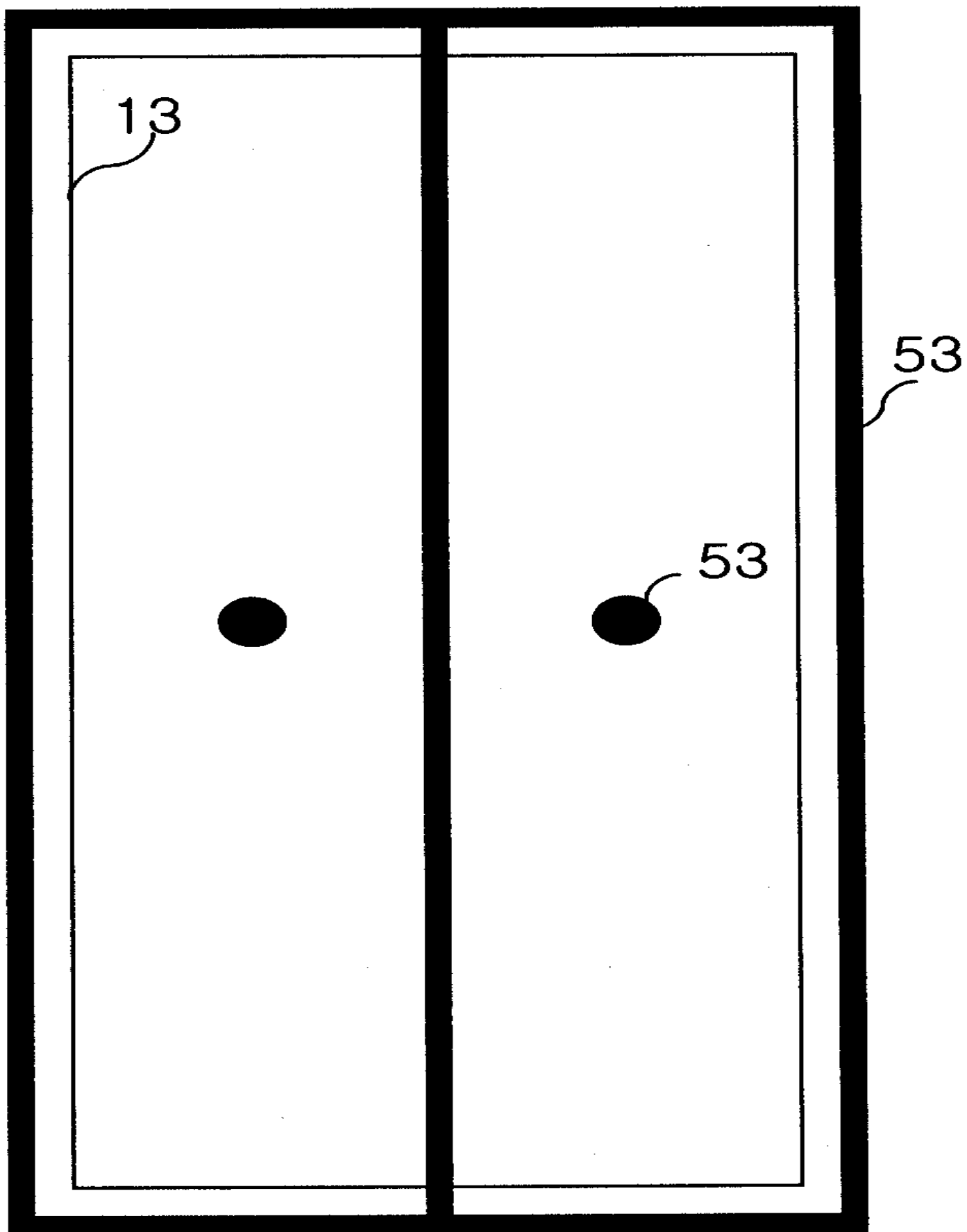
2c



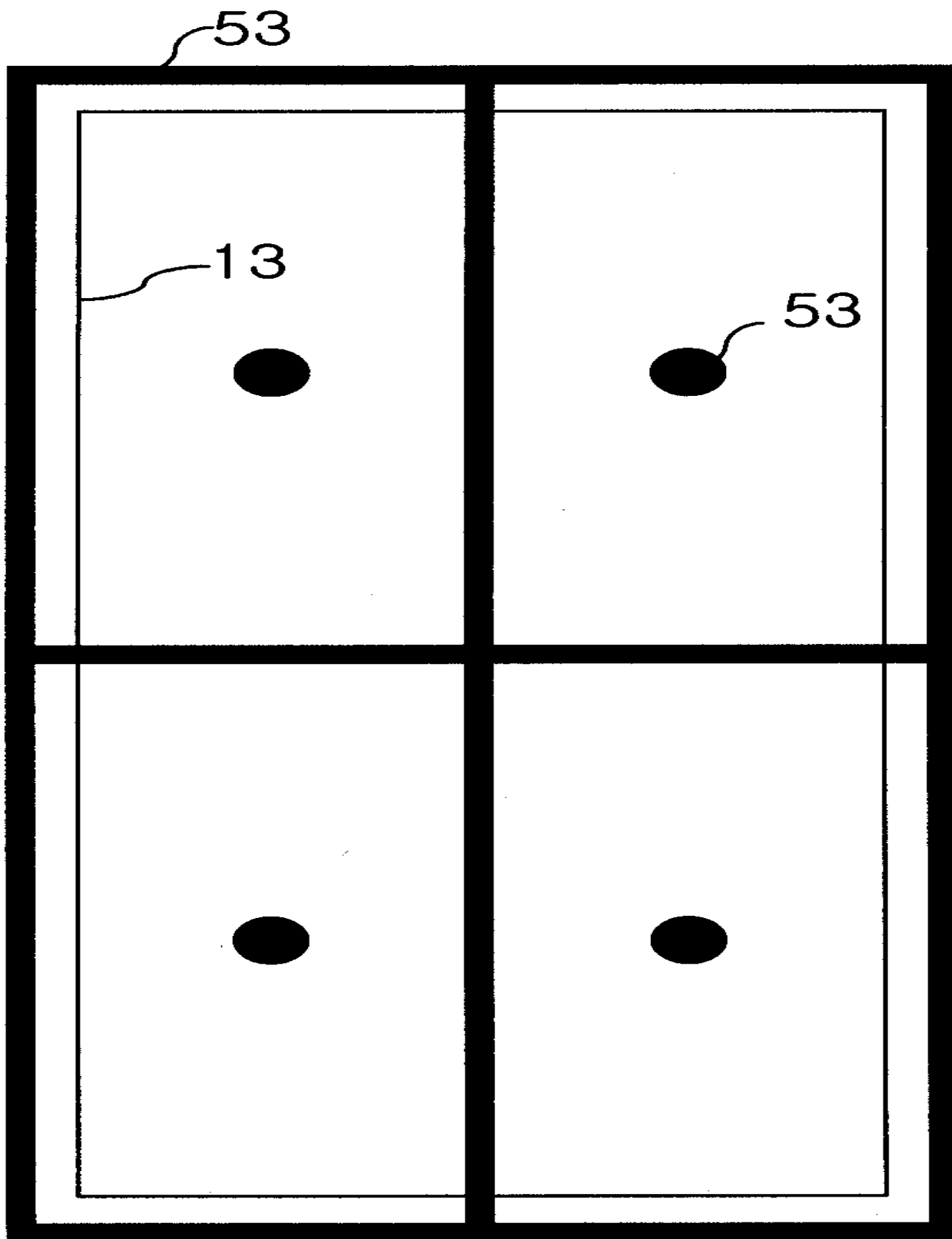
2d



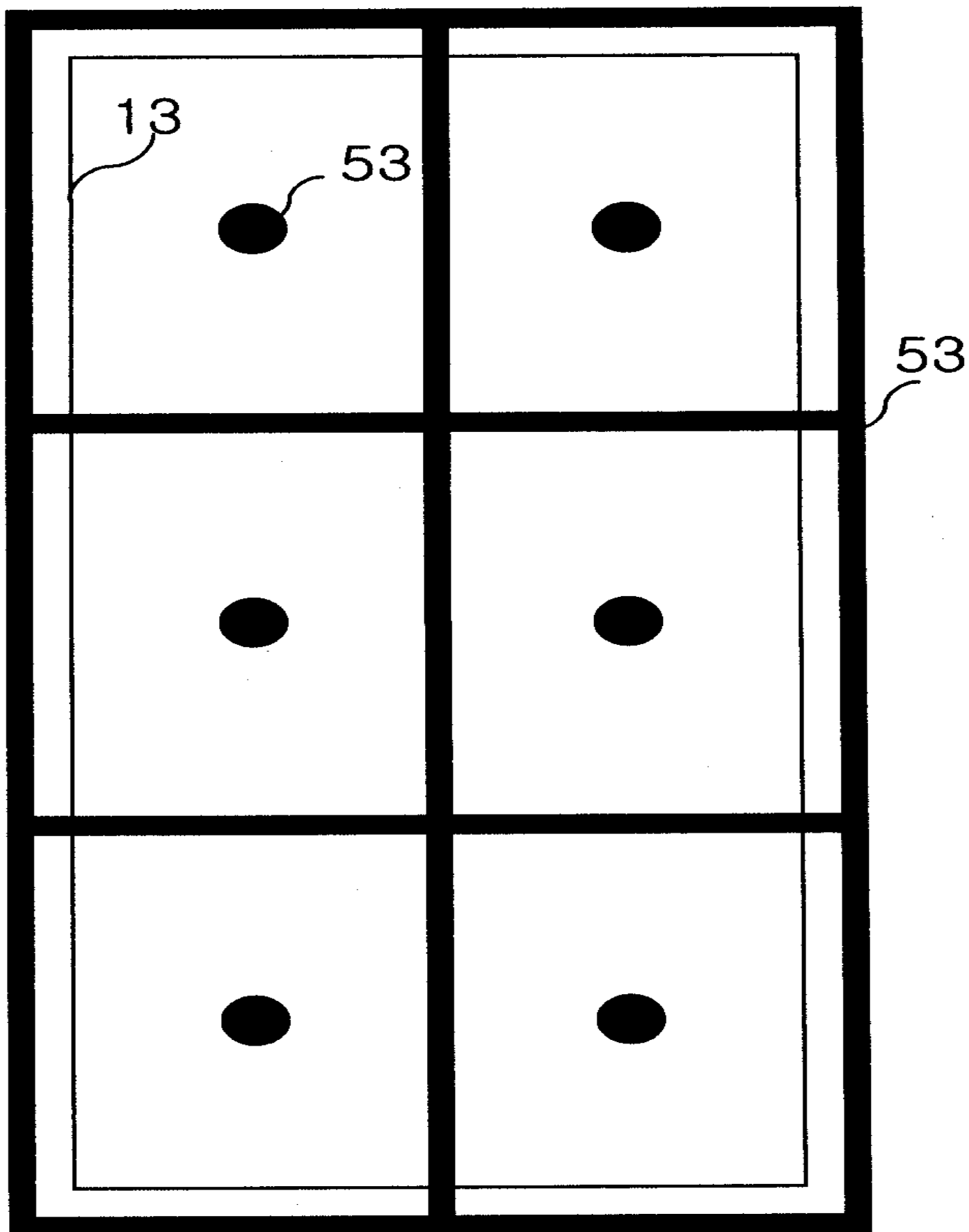
3a



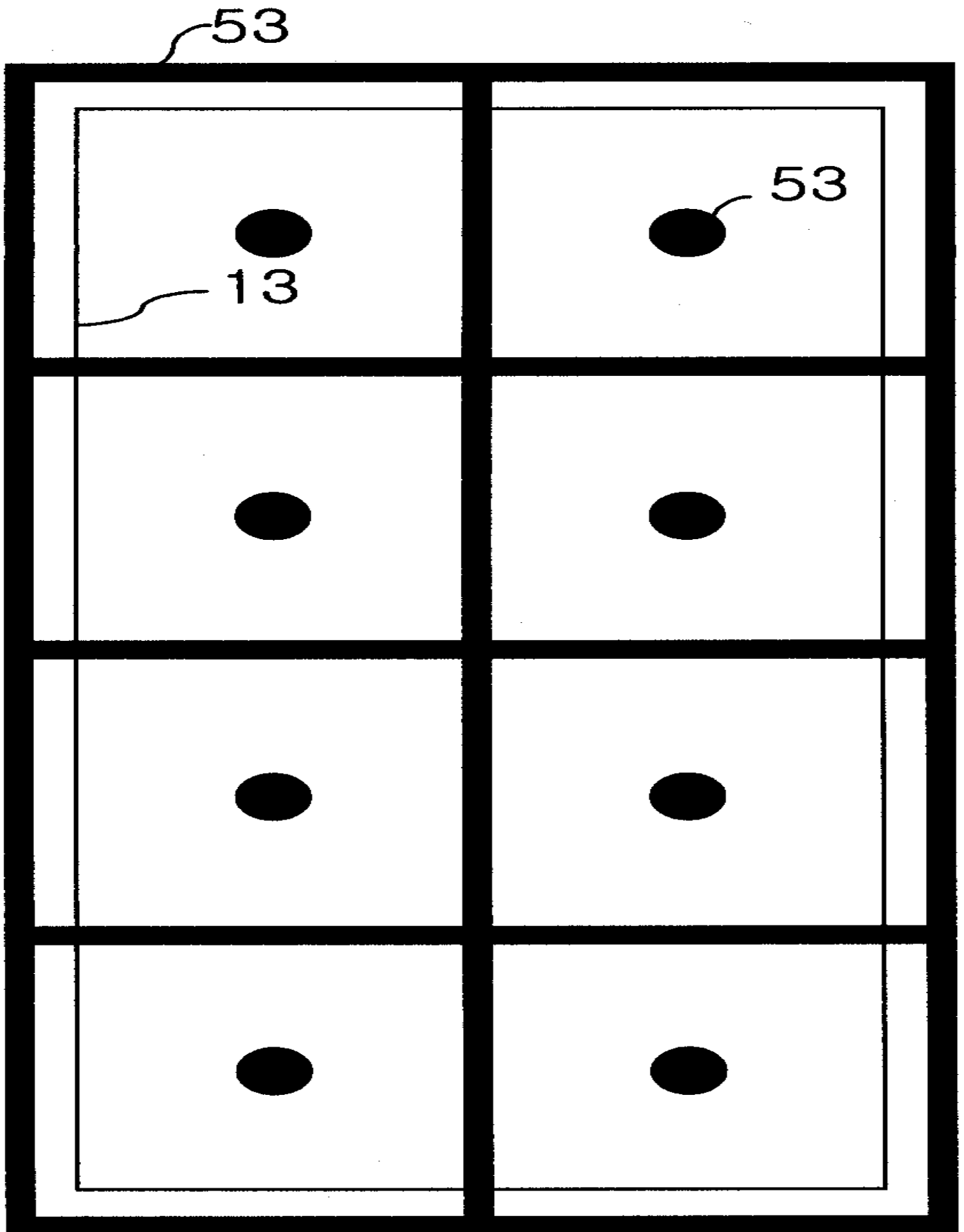
3b



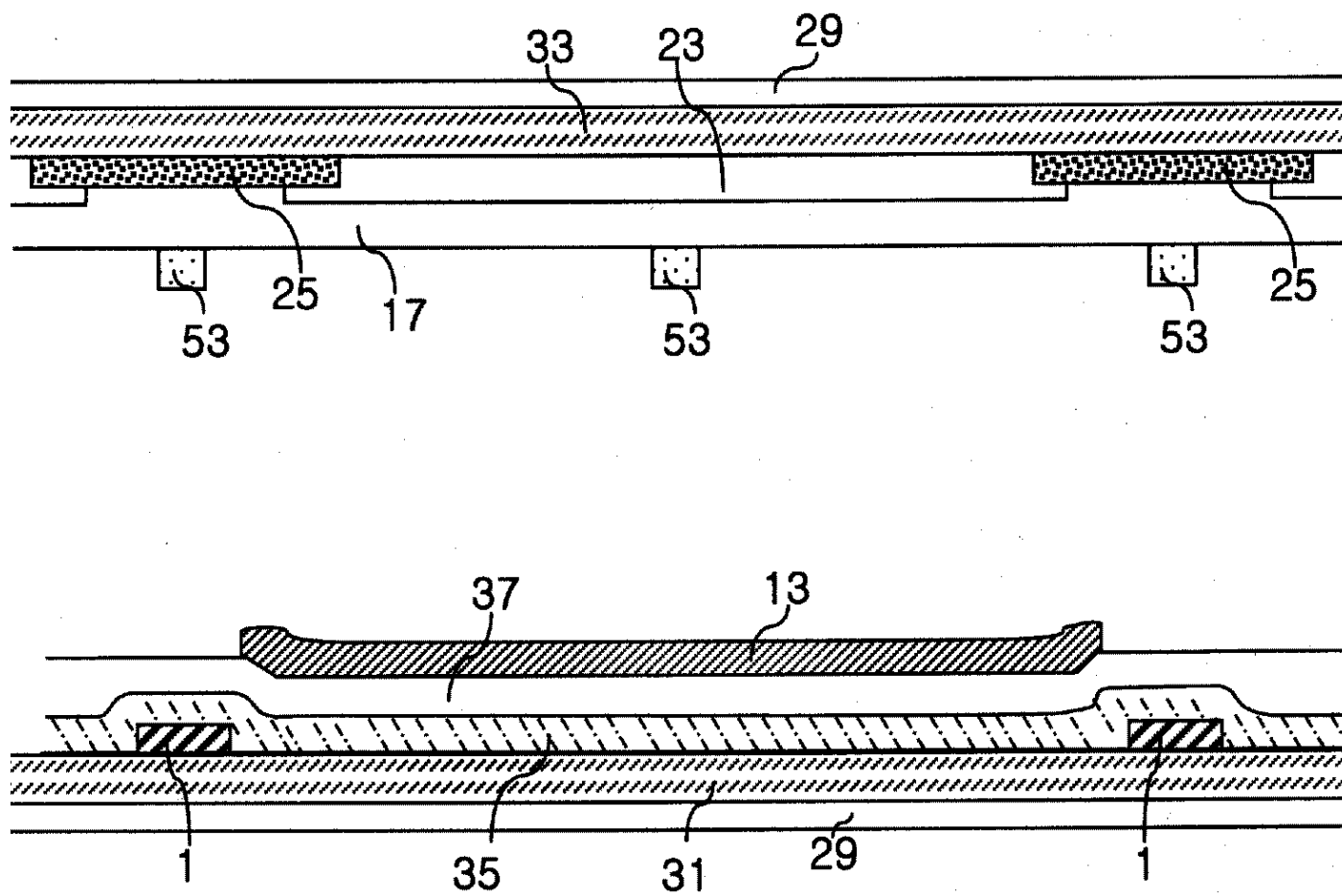
3c



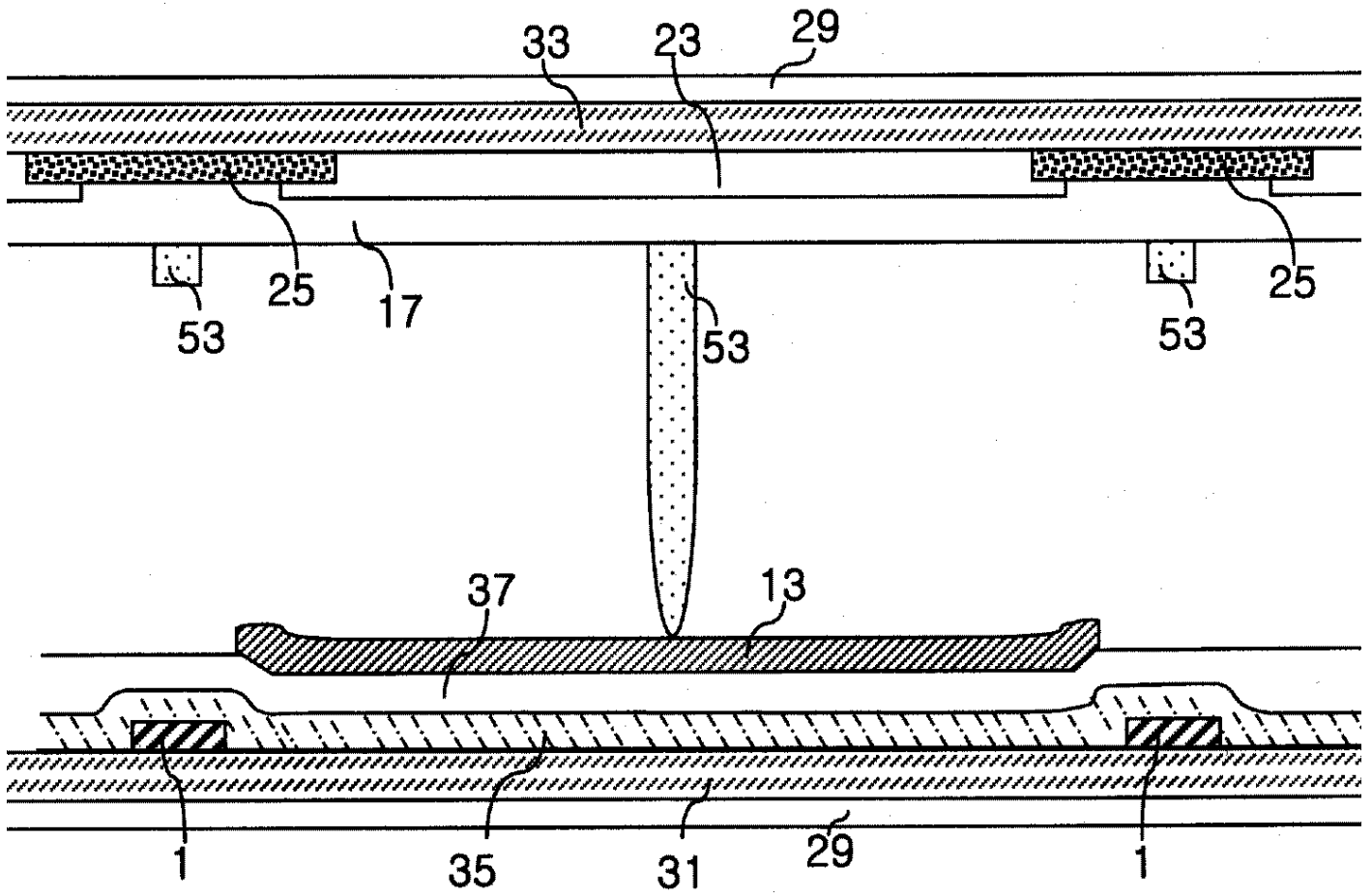
3d



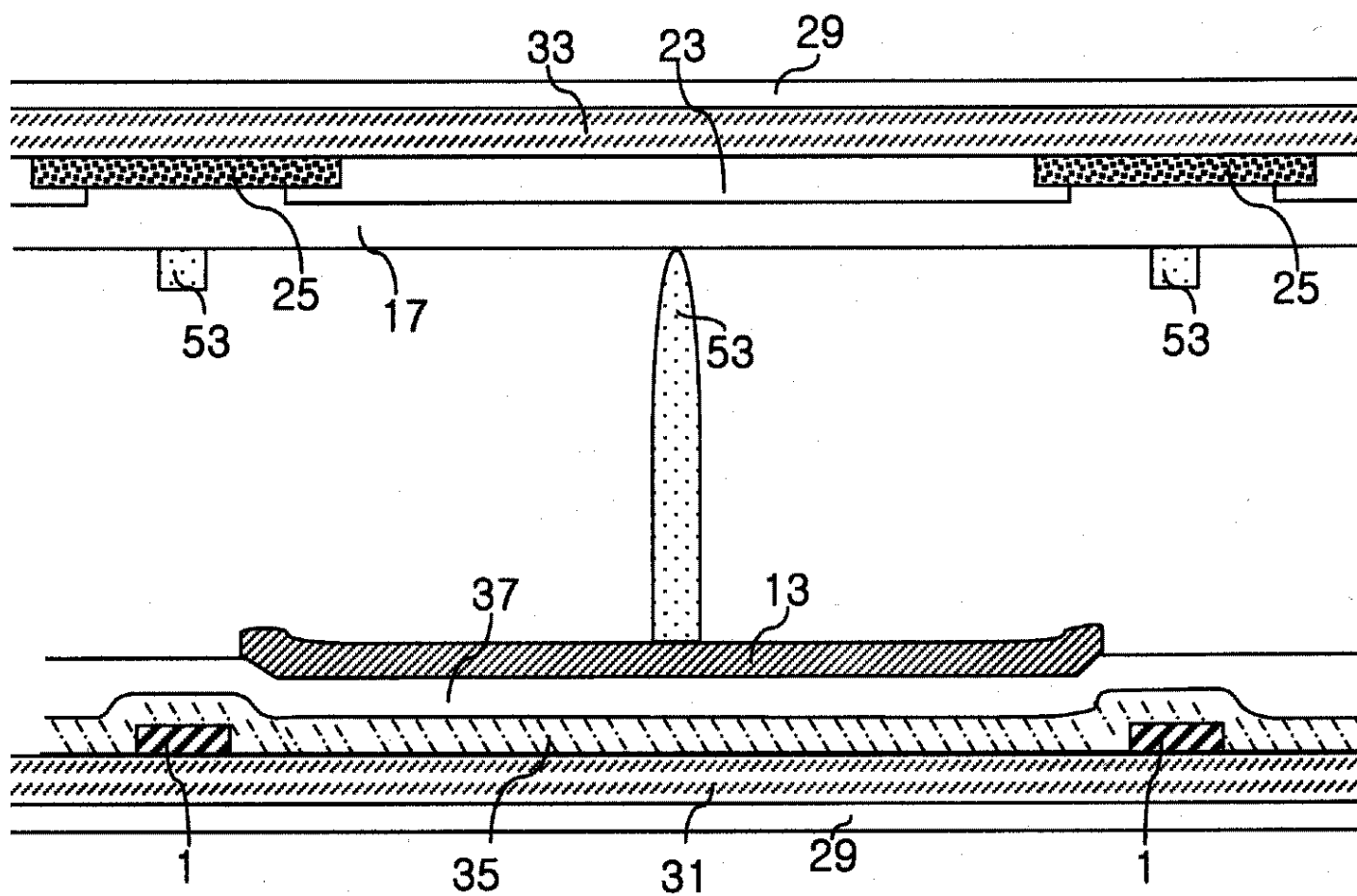
4a



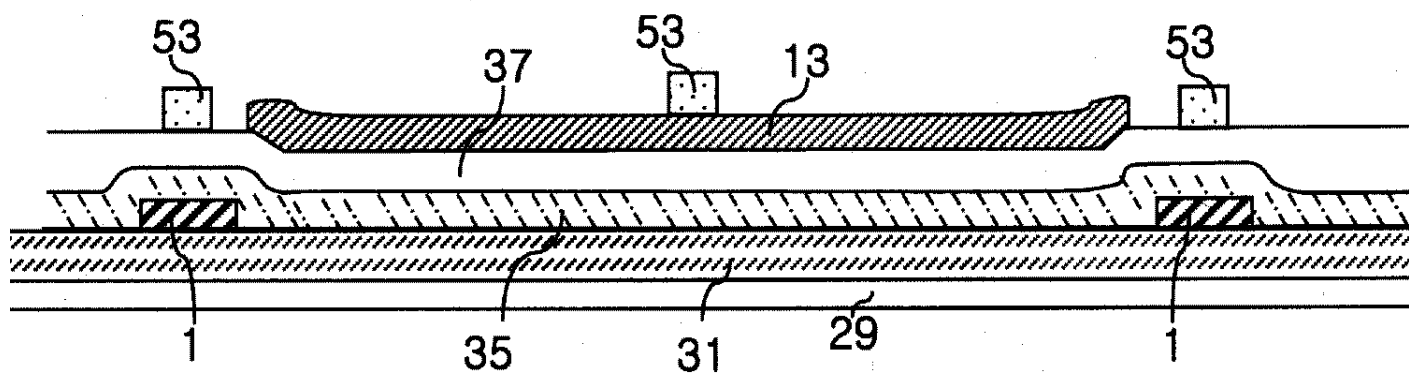
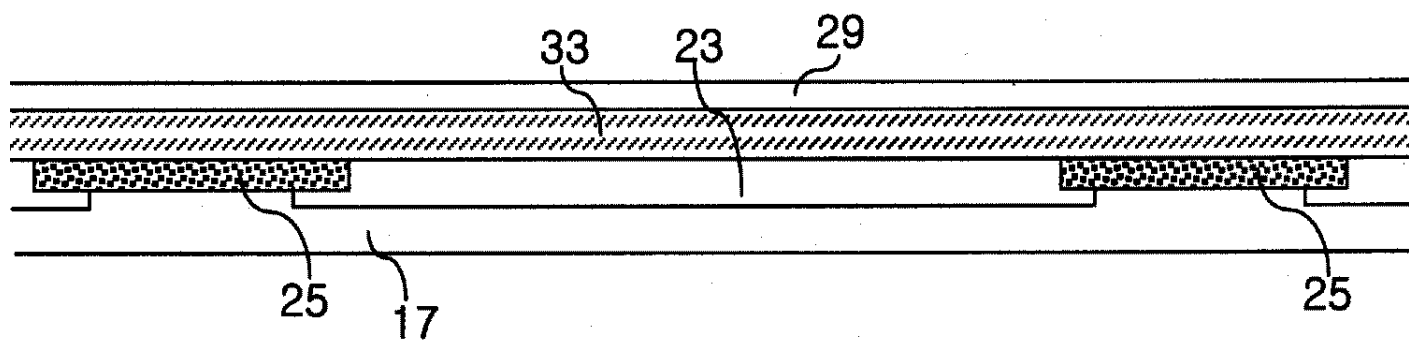
4b



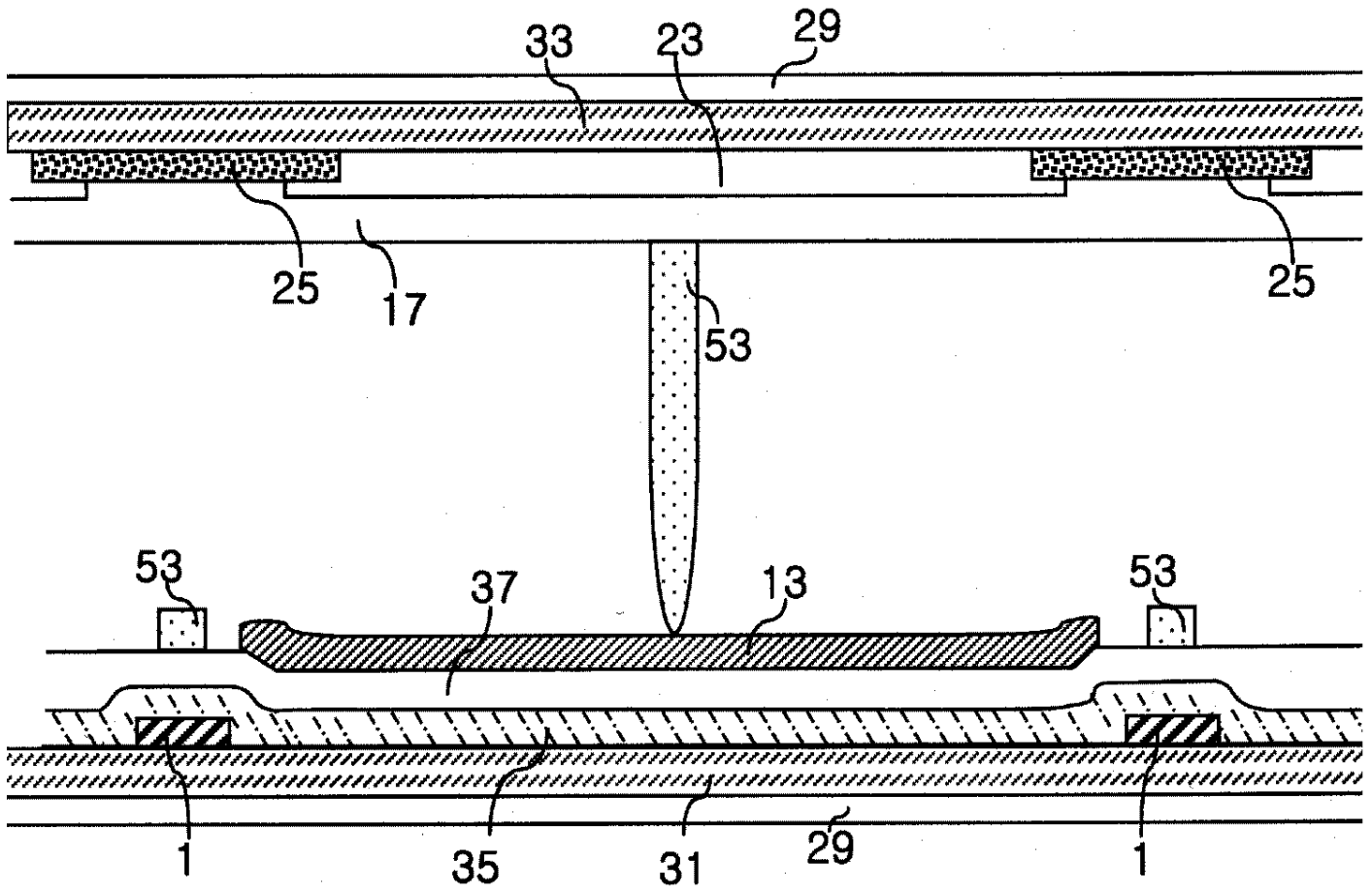
4c

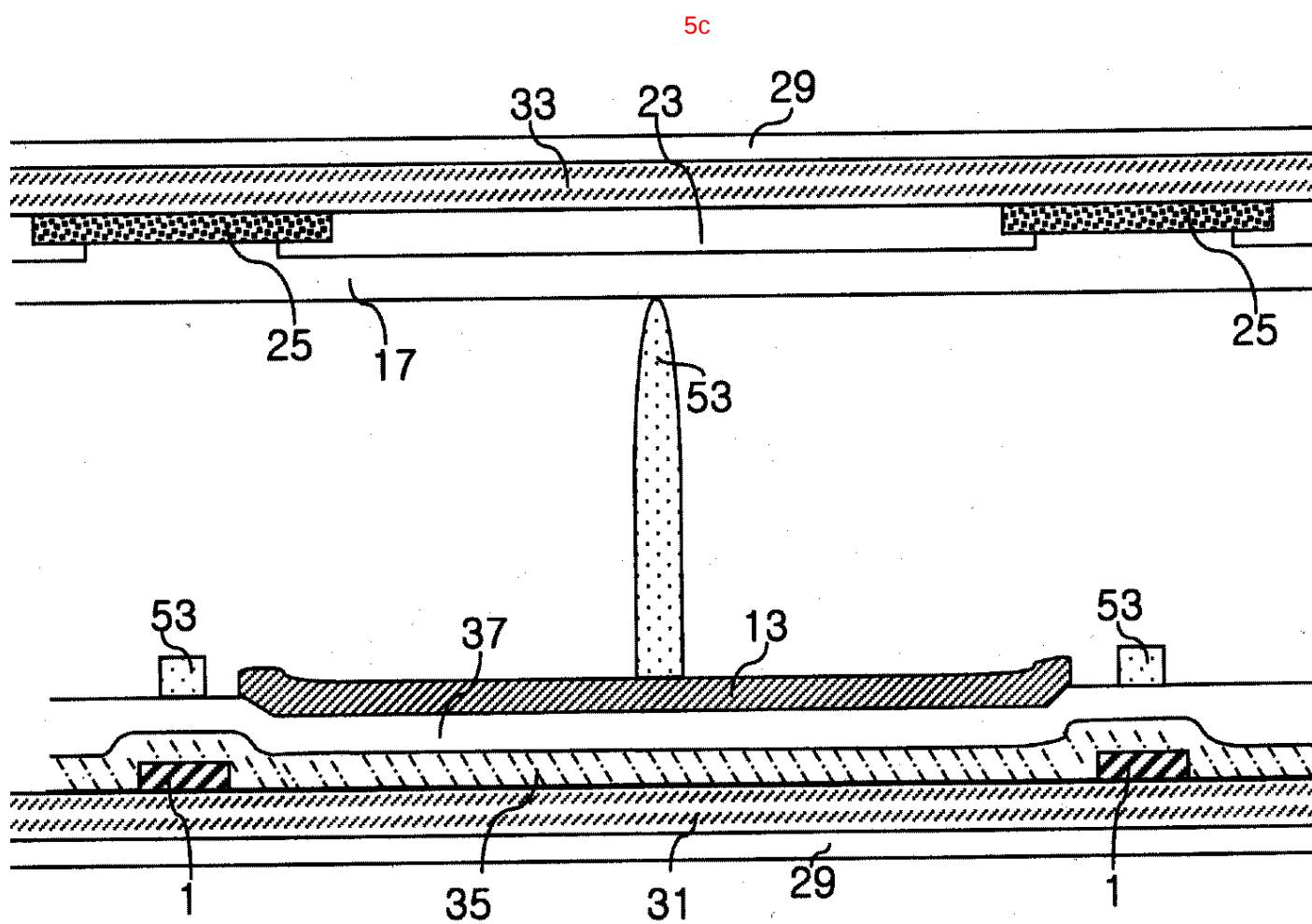


5a

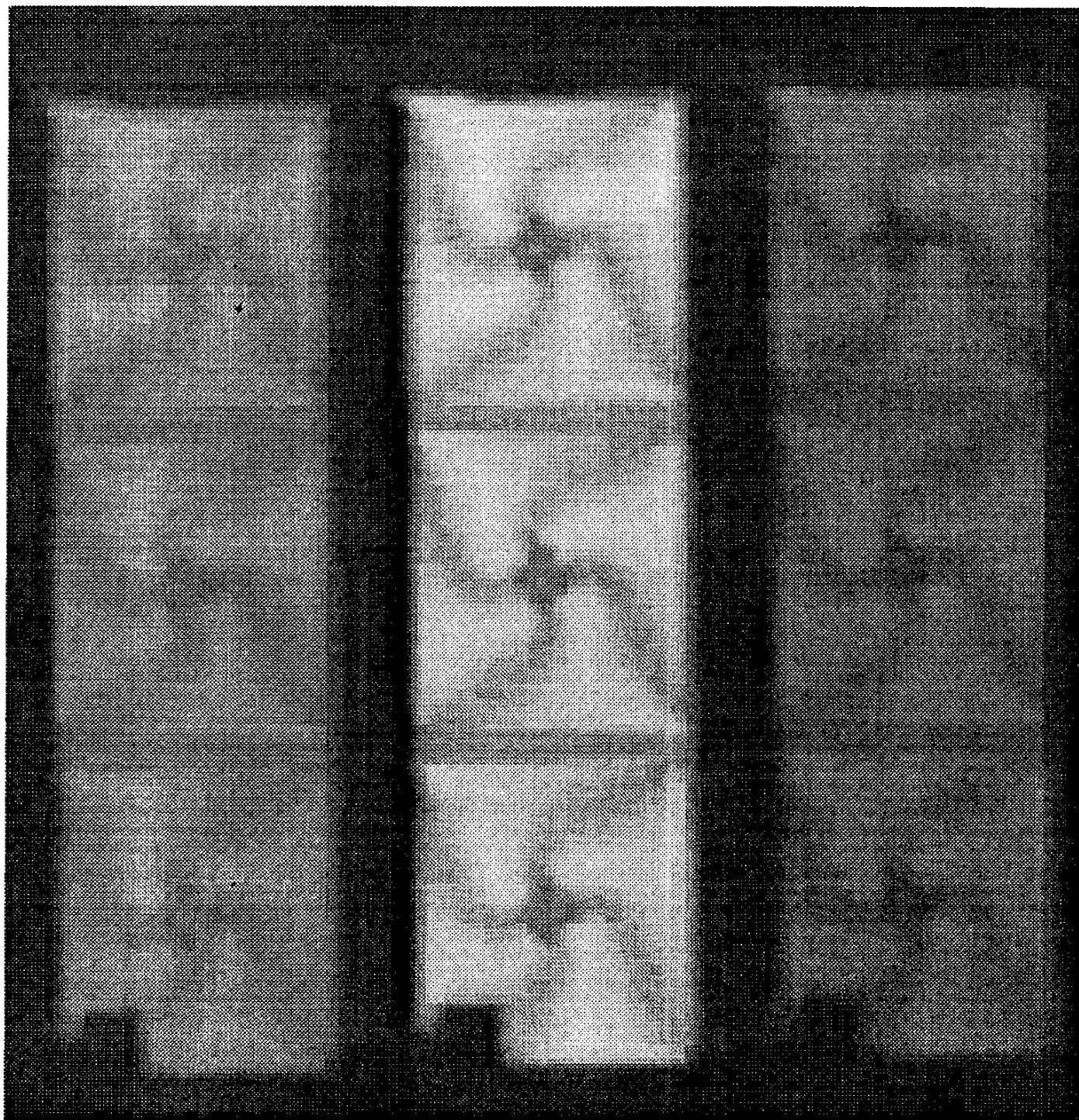


5b

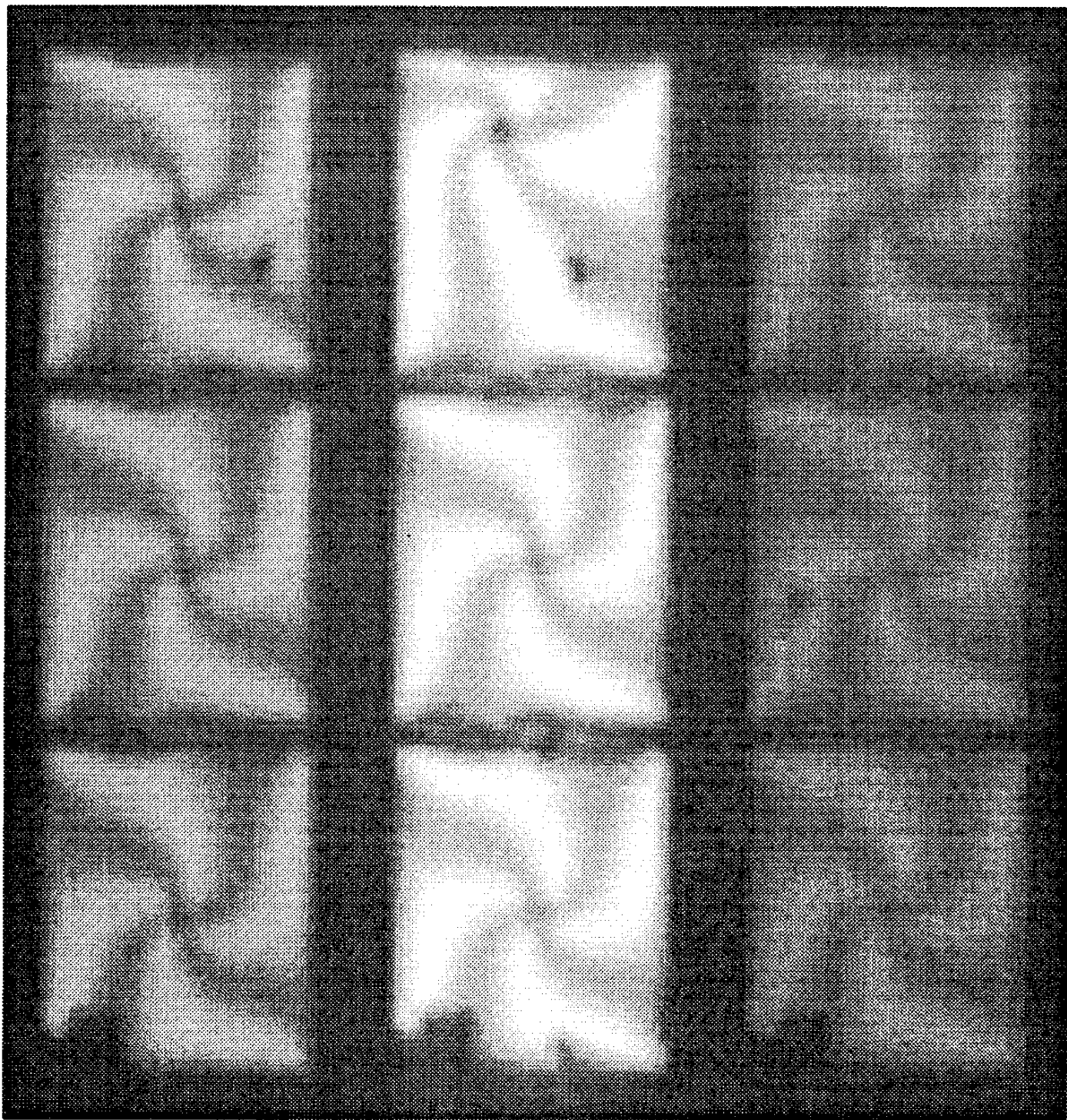




6a



6b



专利名称(译)	多域液晶显示器		
公开(公告)号	KR1020010073422A	公开(公告)日	2001-08-01
申请号	KR1020000001793	申请日	2000-01-14
[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	KIM KYEONGJIN 김경진 LEE YUNBOK 이운복		
发明人	김경진 이운복		
IPC分类号	G02F1/13 G02F1/136 G02F1/1337 G02F G02F1/1333 G02F1/1339		
CPC分类号	G02F1/133707 G02F1/133753 F04D25/08		
代理人(译)	金勇 新昌		
其他公开文献	KR100606958B1		
外部链接	Espacenet		

摘要(译)

本发明的多畴液晶显示装置包括形成有像素区域的第一基板，第二基板和上述第一基板，以及形成在第二介电结构上的第三介电结构只要在第二基板和像素区域与像素区域之间形成液晶层一侧的冷冻剂1电介质结构不同，并且第二电介质结构与第一电介质结构之间的像素区域居中介电结构。介电结构。

