

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl. 7  
G02F 1/13357

(11)  
(43)

2002 - 0018969  
2002 03 09

(21) 10 - 2001 - 0053891  
(22) 2001 09 03

(30) JP - P - 2000 - 00266619 2000 09 04 (JP)

(71) 가 가  
가  
가 4 6  
가 가  
가  
3350

(72) 775

가 1 - 47 - 7

943 - 1

72 - 5

47 - 8

(74)

:

(54)

가

가

가

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1

가

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41	.	

< >

35 : 36a :

35q : 35c :

35d : 36 :

300 :

35d(1), 35d(3) : ( )

(Package, 外圍器)

가

가

(CFL)

가

(Weld slag)

( Amalgam )

가

(

)

가

가

가

가

가

가

가

가

1.

[ 가 ]

1

가

(Package) (1) (1) (1A) (1A, 1B) (1B)) :

(1A)

(5)

(1B) (6)가

(1A, 1B)

y

(3) y

(3)

(4)

(2)가

x

(2)

x

(4) (TFT)

(TFT)

가 가

(TFT)

(2)

가

가

(IC)(5)

(3)

( )

(1B)

(1A)

, (5) (3) ,  
 (3) (5) .  
 , (4) ( ) (1B) (1A)  
 (IC)(6)  
 (6) (4)  
 (4) (6) .  
 , (5) (6)가 (1)  
 (10)( (10)) (10) (11) (5)  
 (6) (12)가 .  
 , (12) ( ) (15) (16)  
 (16B)) (5) (6) .  
 , (5) (5)  
 ( (15)) .  
 (10) (15) 가 (10) ,  
 (18) .  
 (10) (12) (10) , (18)  
 (15) (5) .  
 , (6) (6)  
 (16A, 16B) .  
 (10) (16A, 16B) 가 (10)  
 (19A, 19B) .  
 (10) (12) (10) , (19A, 19B)  
 (16A, 16B) (16A, 16B) .  
 , (6) (16A, 16B) 2 .  
 (1) , x  
 , (10) (12) (16A) (19A)  
 (16B) (19B) (6) .  
 , (10) (22) (22) (24) 가  
 (10) (12) .  
 , (1) (15) (16A, 16B) (10)  
 16B) (1) (10) (15) (16A,  
 .  
 가



(2) TFT (51) (2) 가

(53) (53) TFT (50A) y (53A) (53) (50) x TFT (53A) y

(53) (50) (Cstg) (50) (Cstg) (50) TFT 가 (53)

(P) TFT (2A) (53A) (51) tact) (P) (51) (Ohimic con

가 TFT, (2) (53) (Cstg)가 (1)

가 ( 3 54 )(1B) )가

(54) x 가 (54)

가 [ ]

(400) (300)가 (300) (直下型) 4 x (35) (35) y (400) (8 ) (36) (36)

(36) (35) (y ) (35) (35)

(35) (36) (35) 가 (35) (37) (37) (38) (35)

(35) (35a) 6  
(35a)

(35a)

(35a) (35a) 가

(35) (35)

5 (35) (35a)  
(35d) (35c)

(35a) (35d) 가 가

6(a) (35a) (b) (a) b - b  
(35p)( 2.6mm, 2.0mm, 390mm) (35q)가  
가 (60Torr Ne + Ar(5%)) 가

5 (35) (35c) MHz(  
1.5MHz ) 800Vp - p (正弦派)(Sinusoidal Wave) 가 (35a)

(35d)(2), (35a) (35d)(3) - (35d)(1) - (35c)(1), (35c)(1) -  
(35c)(2), (35c)(2) - (35d)(3)

가 (35a) (35c) (35d)가  
(35a) (35c) (35d) (35c)

(35a) (35d) (35d)(2), 35d(3)) (35d)

(35c(1), 25c(2)) 가 가 (35d)

가

7 (35)

390mm 5

(a) 800Vp - p (a) 900Vp - p , (a) 1000Vp - p

가

8(a) (300) (400) (a)  
b - b (b)

(35) y (300) (400) 8 (35) x (36)  
(400) 가

(35) (35) 가 (6)  
(300) (400)

(60)

9 7(a),(b),(c) (60) 가

(300) (35)

(35) 가

(35) (35d) (35c) (35a)  
(35d) 가 가 (35) (35c)  
가 (300)

[ ]

(500) (300)

(300) (500) 가

(400) 가 (300) (35) 가

(700) (500) 가  
(500) 가

(40) (500) (35) ( AC/AC

(40) (Cross line) (35)

10 (500) (300)가 .

가 (500) x (500A)

, (500) (x

) (500B)

(500)

(500) (700)

, (500) (500A) (40)

(700) ) (10) (500B) (

, (10) 가 가 .

, (10) (400) (700)

(Shield) 가 가 .

, (500A) x

y

[ ]

11 (500) (40)

(40) (300) (35) ( 8 ) (71)가

, (71) (35) 가 . 2

, 4 8

, (40) (500) (72)

(72) ( (40) ) (72) (72A)가

(71) (72) (Eddy Current)가

(40)

, DC/AC (40) (500) (500A)

, (500) (500A) (40)

[ ]

(400) ( ) (700)

(700) (400) (42)가 가

	(700)		(500)		(400)
		(400)		(700)	(100)
		(Sacer)(44)가			(700)
		가		(100)	
	(700)	(46)			
	(42)가				
		(700)		(500)	
	(500)		(700)	(46)	(500)
		(700)		(500)	( )
	(500)			가	
	(700)	(500)		가	
		가			
	(500)		(500A)		
	(700)		가		가
		(700)	(46)	(10)	DC/DC
			(400)		(11)
	(10)	(400)			(15)
6A, 16B)	(18, 19A, 19B)			(31)	(1
		(10)			(700)
(46)					
		(700)			
	(700)				가
[					
	(800)	(400)	(700)	(500)	가
	(500)				

(800) (400)  
( ) (48)가 (500)

(800) 가

[ ]

12 2 (800)

(500) (40) (800)  
( 가 )

(500) (500A) □

(500)

2.

13 , 1

y ( (35) ) 8(b)

1 (50) (300) (50) (400) (400) (300) (51)

(51) (300) (35)

(35)

(51) (300) (36) (35)

(50) (51) (300) (400) (400) (52)

(35) 가  
(35)

(35) (500) 가 (51)

(36)

(36)

(51)

3.

14

(35)

(a)

(35)

(a) a' - a

(a')

(b)

(35)

(b) b' - b'

(b')

(c)

(a)

(c) c' - c'

(35)

(c')

4.

15

(300)

(a)

(b)

15

(300)

(35a)

(3

5d(1), 35d(3))

(35a)

(5d(1), 35d(3))

(35a)

( )

90°

(35a)

15

(35d(1), 35d(3))

(35a)

가

가

(35a)

(35a) 가

(400)

(

:

)가

3))

(400)

(35a)

(35d(1), 35d(

16

(35a)

(400)

(a)

(b)

(c)

35a) (400) 가 (800) (35a) (Q) ( (35a) (400) 가 ( Q )가

(35a)  
 17 (35a) 가 (Vrms) (mArms)  
 10mm, 20mm, 40mm 가 가  
 , 18 ( 100mm, 200mm, 300mm )  
 , (35a) 가 19 Cd 가  
 가 R (Positive colour) Cd  
 ( ) (Capacitance of Capacitor)

(II) 가 (V1) (1)

1

$$\text{램프 전류 } II = \frac{V1}{\sqrt{R^2 + \left(\frac{1}{\omega C}\right)^2}}$$

(1) 가 Cd  
 , (35d(1), 35d(3)) (40  
 0) 가

가  
 가

가

5.

20

15

(35d(1)) (35a) (35d(3))

가

6.

21

20

(35a)

가 U

2

(35a)

(35d(1), 35d(3))

, (35d(1), 35d(3))

( )

(35d(1), 35(3))

( Q

)가

가

7.

22

21

21

U

(35a)

(35a)

가

(300)

(35a)

(35d(1), 35d(3))

(35d(1), 35d(3))

( Q

( )

)가

가

가

23

(35a)

180 °

가

8.

24

21

(35a)

(35d(1),

35d(3))

(35d(1), 35d(3))

( )

( Q

)가

가

25

9.

26

21

21

가

27

28

10.

90 °

180 °

0 ° 180

가

29

(35a)

( )

45 °

( Q )

11.

30

(35a)

(35d(1), 35d(3))

(35d(1), 35d(3))

(35a)

(35a)

(35d(1), 35d(3))

( )

가

12.

가

(35)

(400)

(1), 35d(3))

5

(35a)

31

(IL)

(35a)

(35d)

(IL)

(35a)

(

가

가

(35a) , (35a) (35d(1), 35d(3)) (IL) (35a)  
( Q ) 가 .

(35a) (35a) 90 ° (IL)  
가 . (35d(1), 35d(3))

13.

32 31 .

(IL) (35a) (35d(1), 35d(3)) 가 31  
180 ° .

14.

, (35a) (35d(1), 35d(3)) (IL) 가 가 .

33 32 .

32 가 (IL) ( (300) )  
180 ° .

15.

(35a) ,  
(35d(1), 35d(3)) .

) 가 . (

, 34 (35a) (35d(1), 35d(3))  
(r) 가 ( (35d(1), 35d(3)) )

, (35a) (35d(1), 35d(3))  
(35d(1), 35d(3)) ( ) .

35 (35a) (35d(1), 35d(3))  
( Q )가

, (300) (IL)

, 36 35 (35a) (35d(1), 35d(3)) (35a)  
(35a)

( )

16.

37, 38 15 35, 36  
(35a) (35d(1), 35d(3))  
(35a) 39(a)

15

39(b) (35a)

가

17.

40 15 16 (35a) (35d(1), 35d(3))  
( )  
(35a)

15 16

15 17

18.

41 (300) (35a) (35d(1), 35d(3))  
(35d(1), 35d(3)) ( Q )  
(35a)

180 °

가

18  
18

가

(57)

1.

가  
가  
가

2.

가  
가  
가

3.

1 2 ,  
0° 90°

4.

3 ,  
90°

5.

가  
가  
가  
가

6.

5 ,

가

90 °

180 °

7.

5

가

1

80 °

8.

가

(無終端)

9.

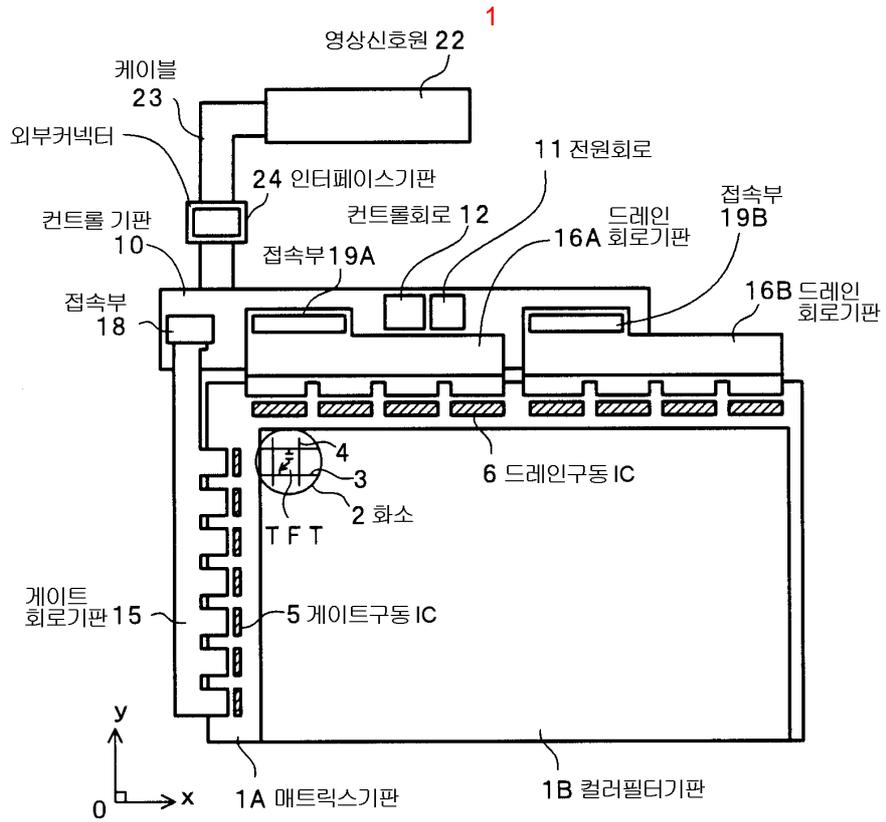
가

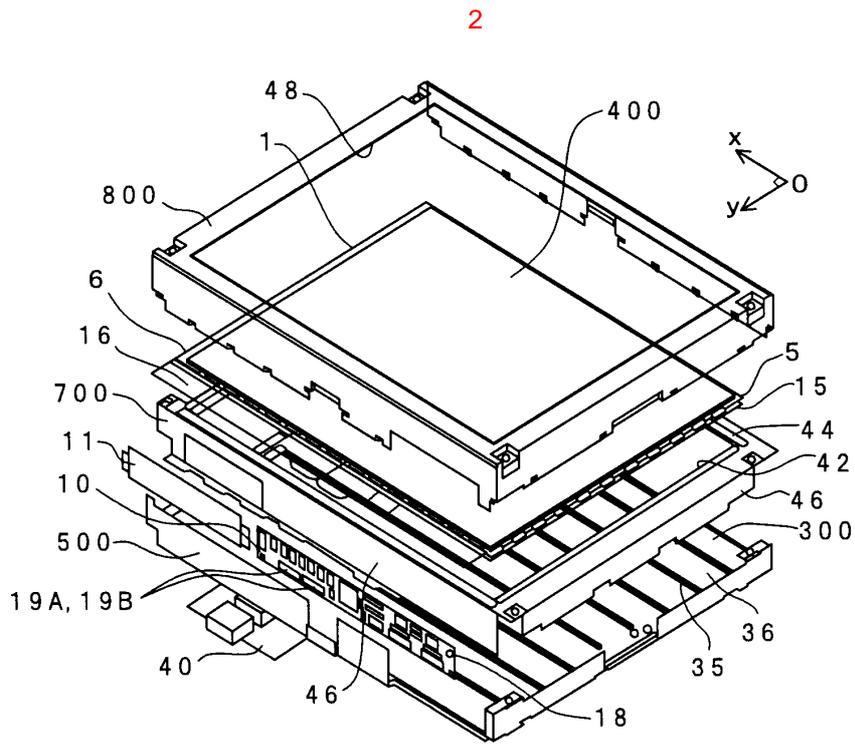
가  
가

10.

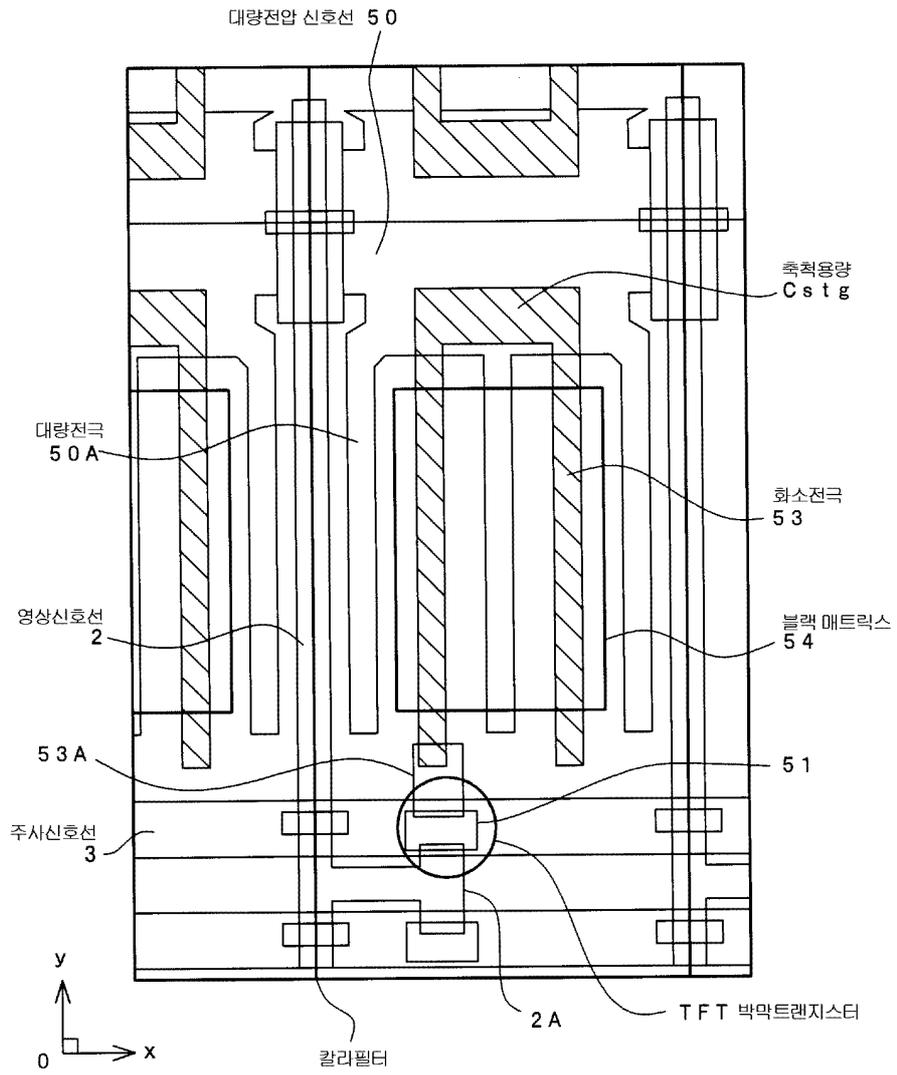
가

가  
가

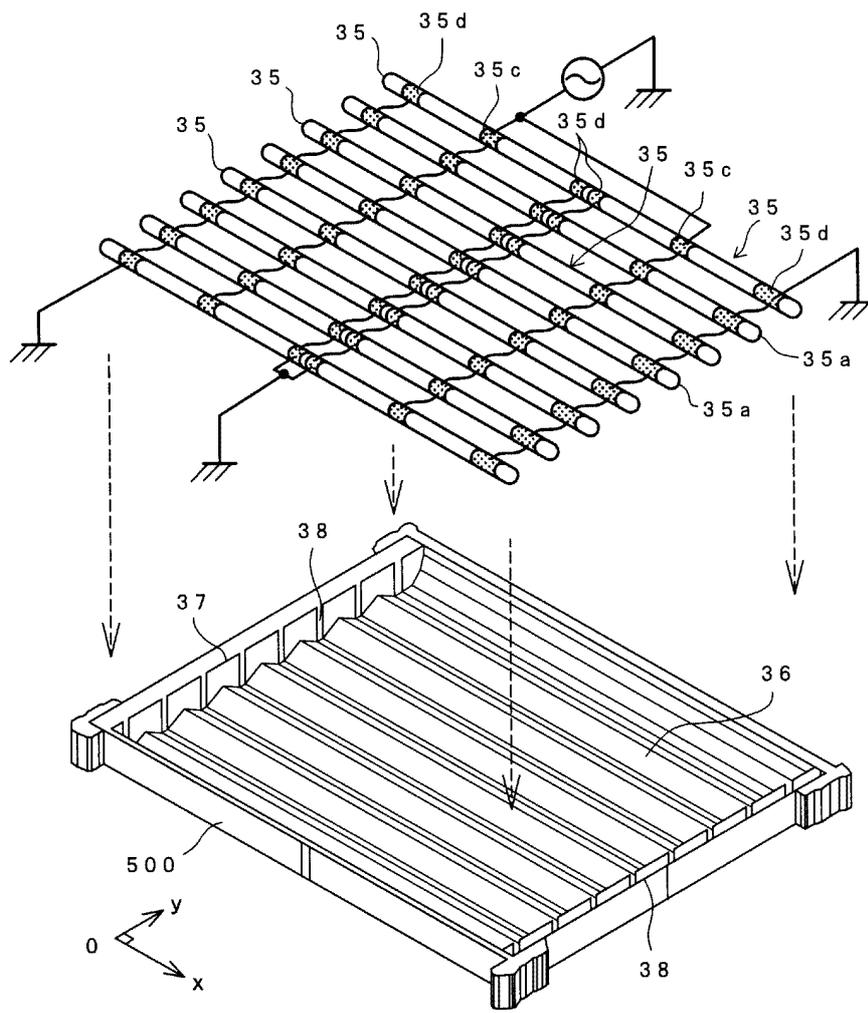




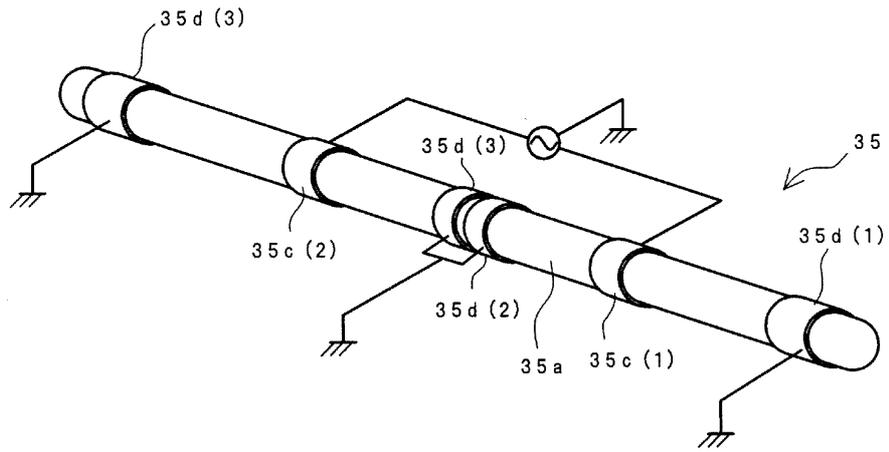
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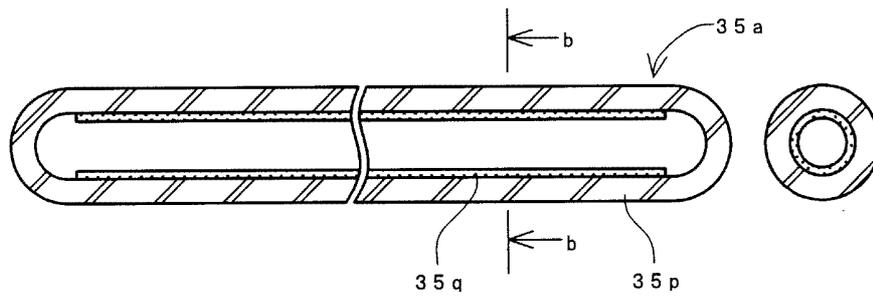
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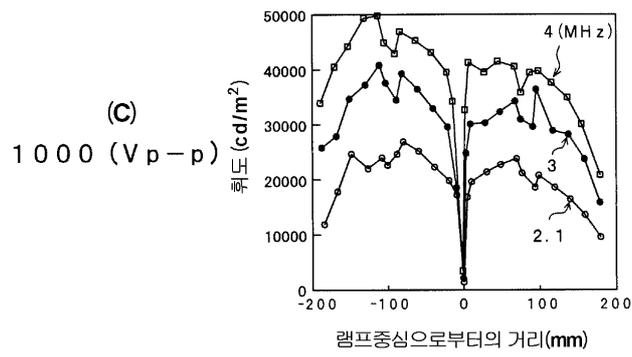
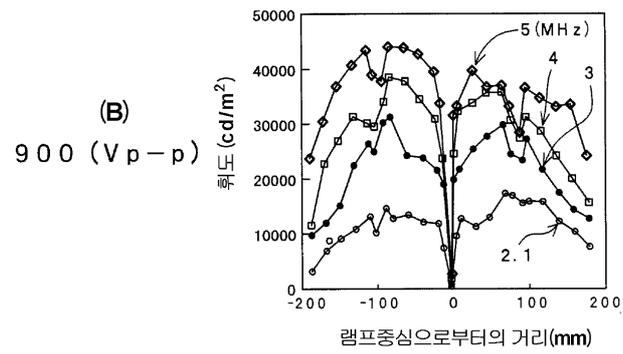
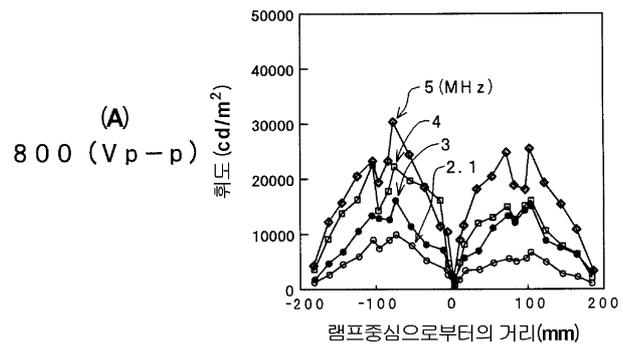
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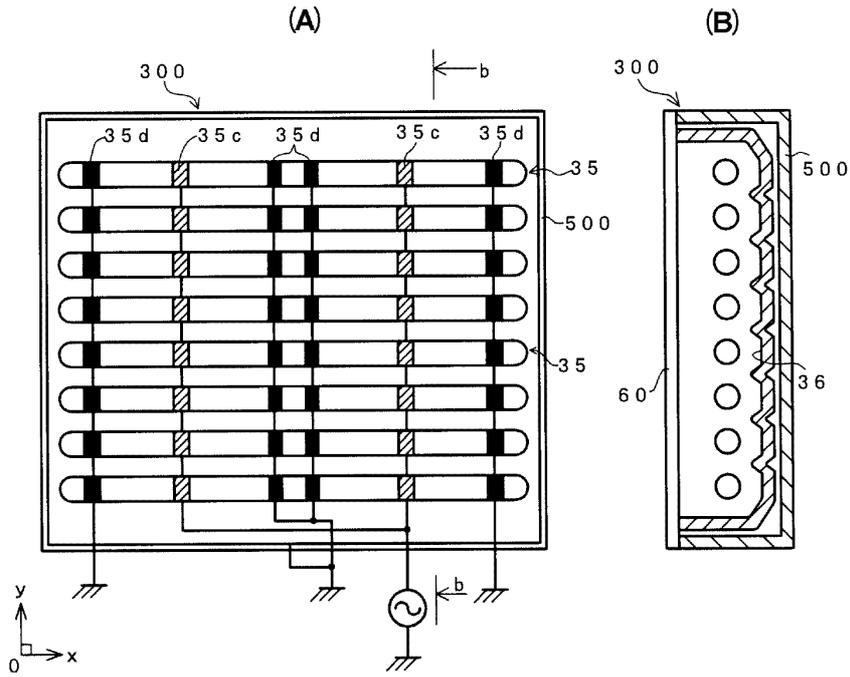
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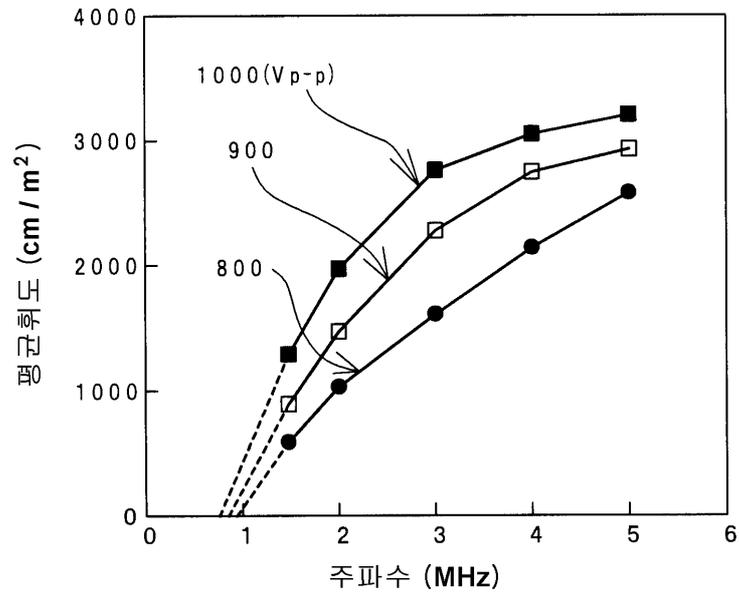
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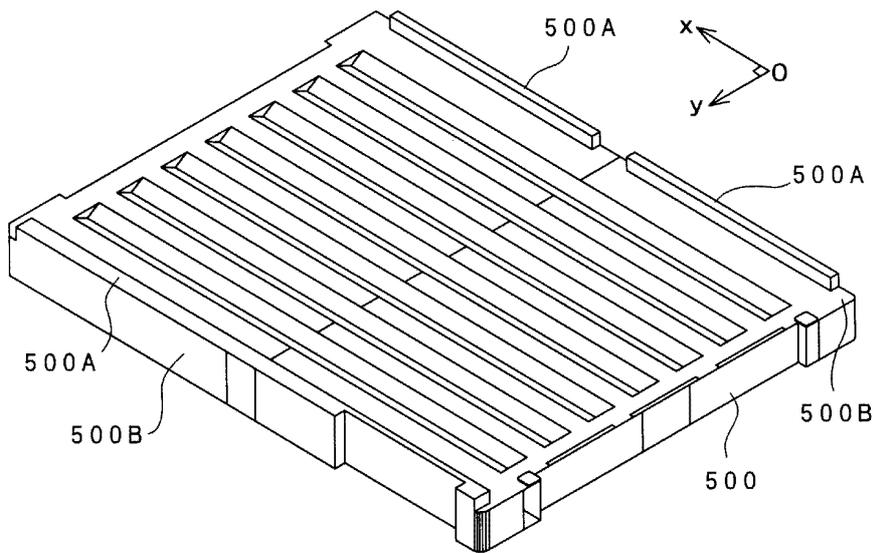
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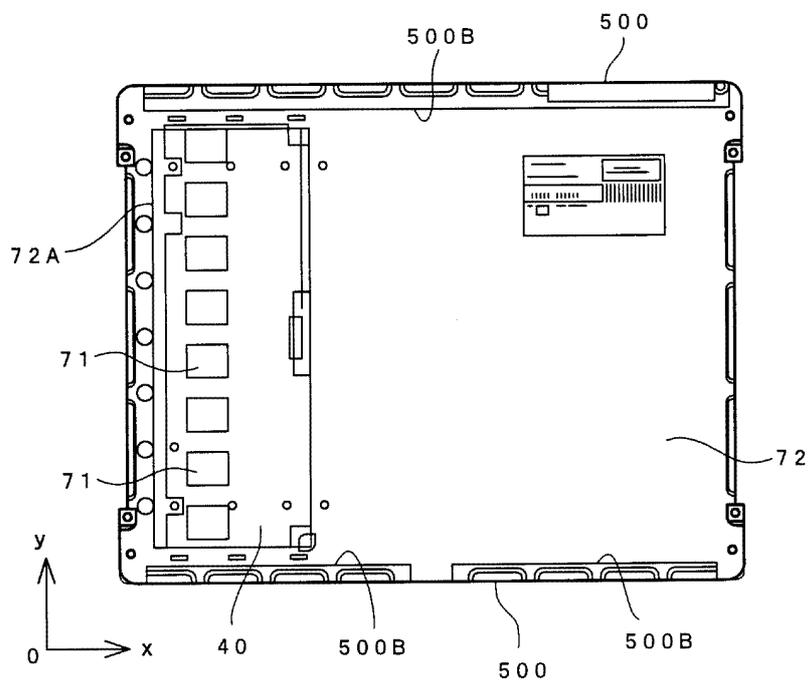
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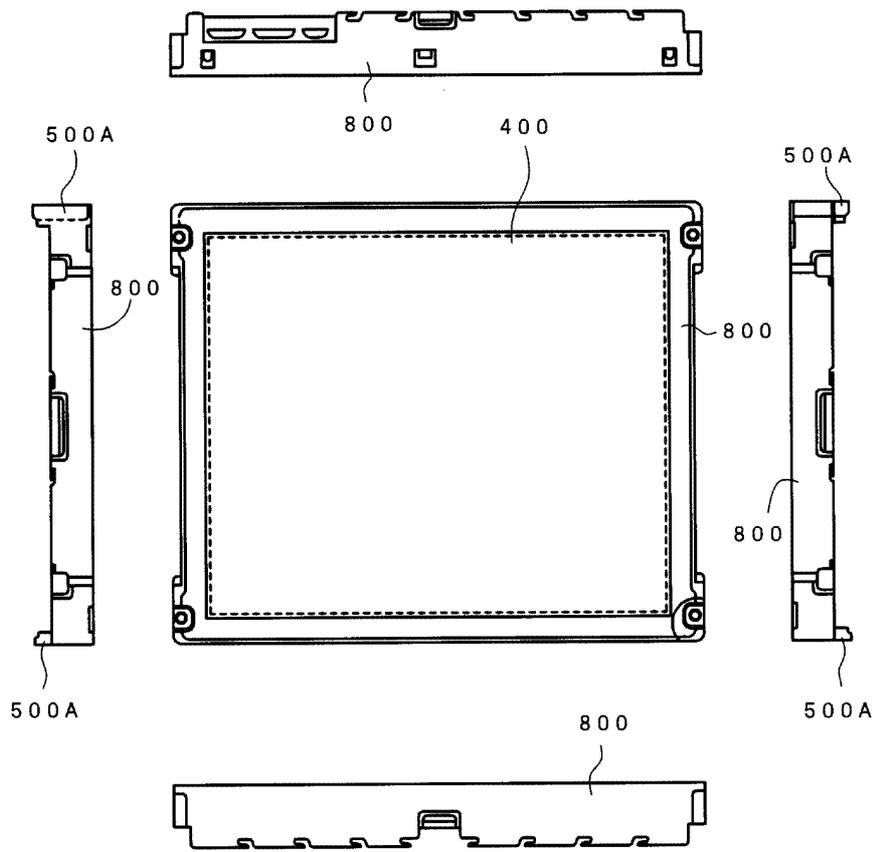
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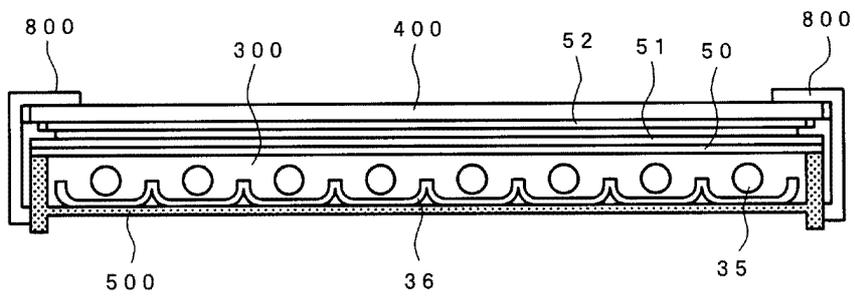
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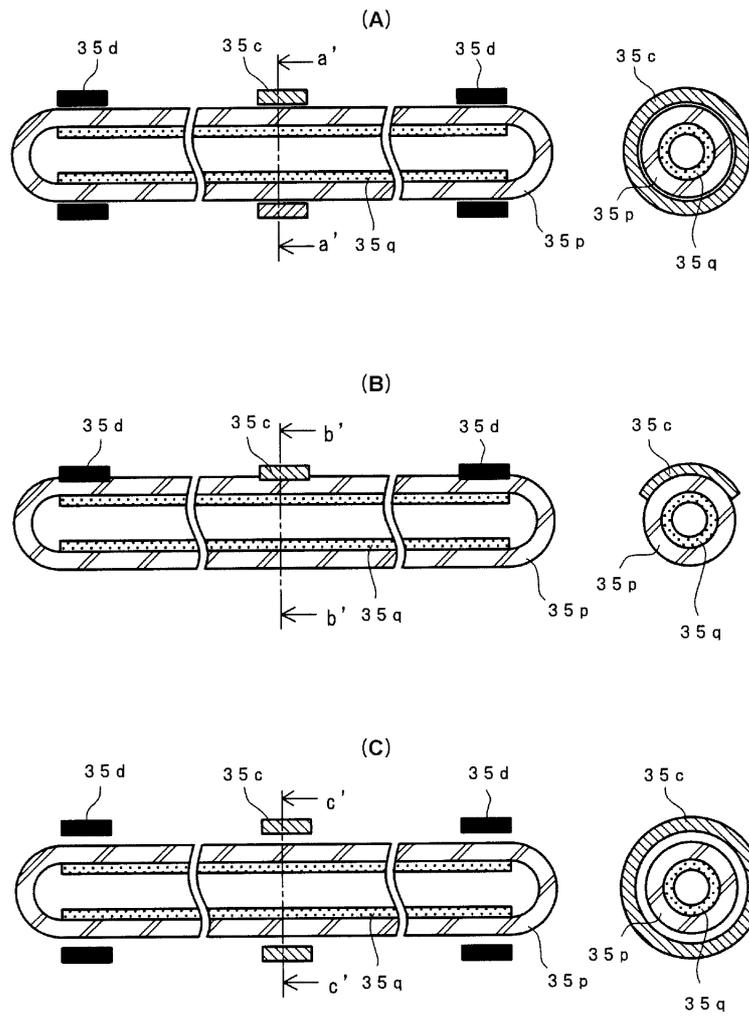
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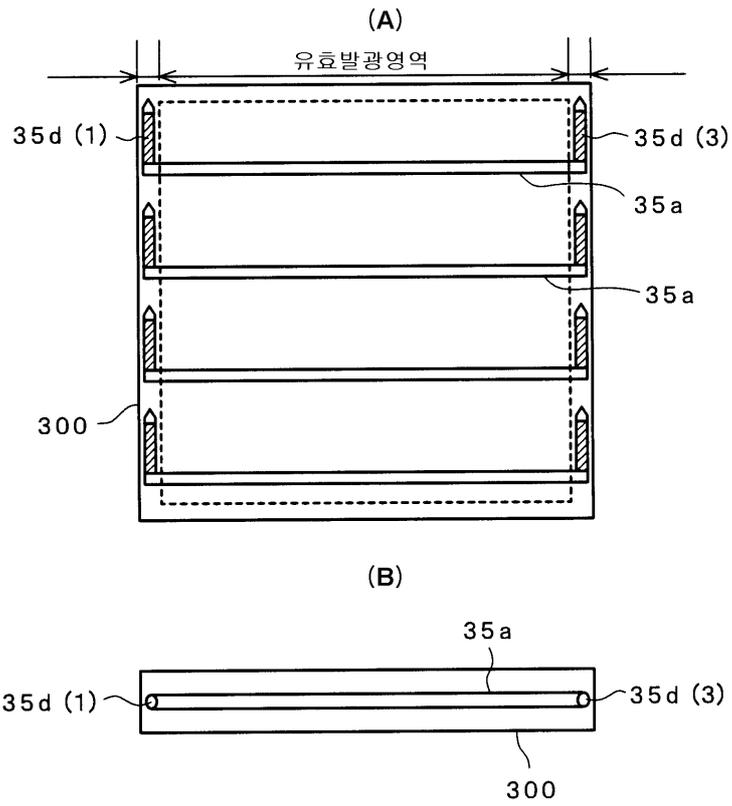
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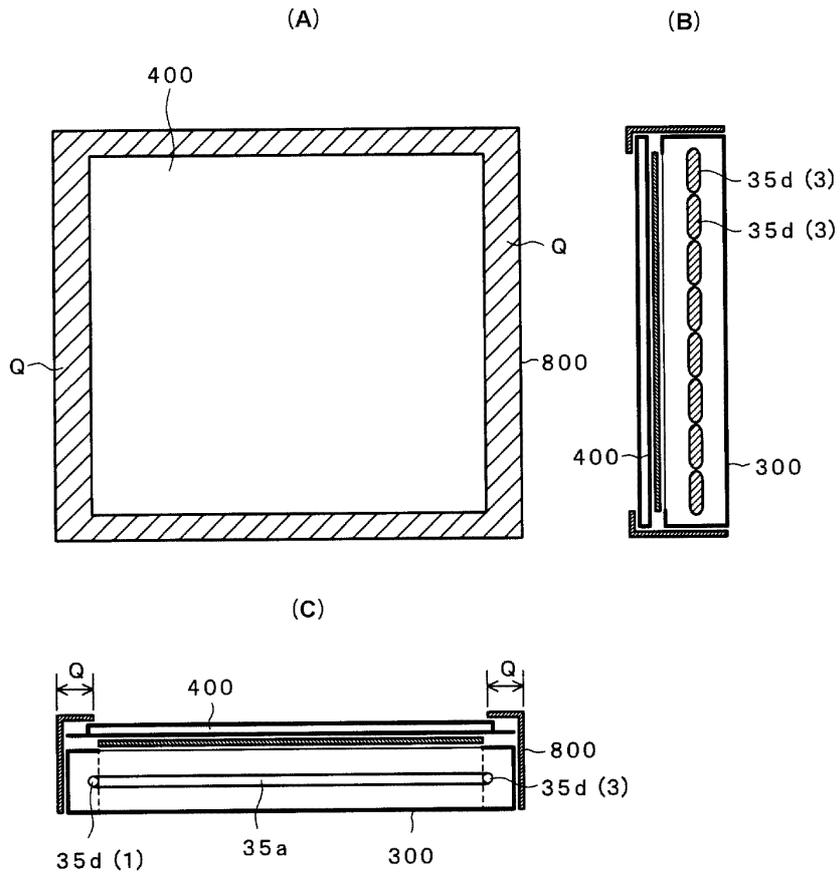
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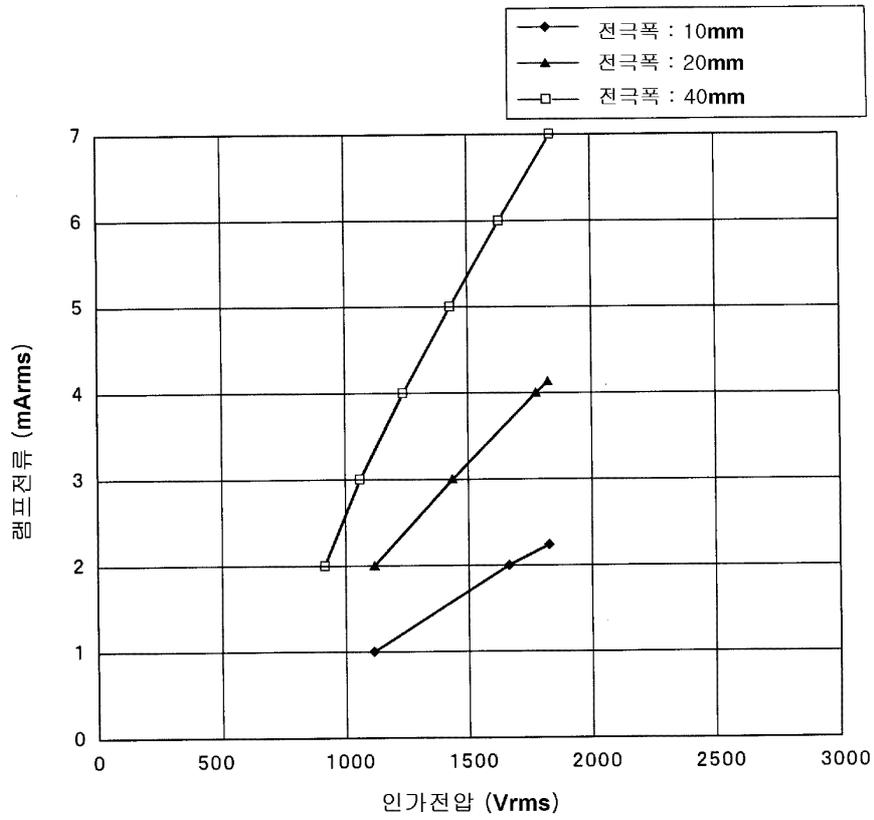


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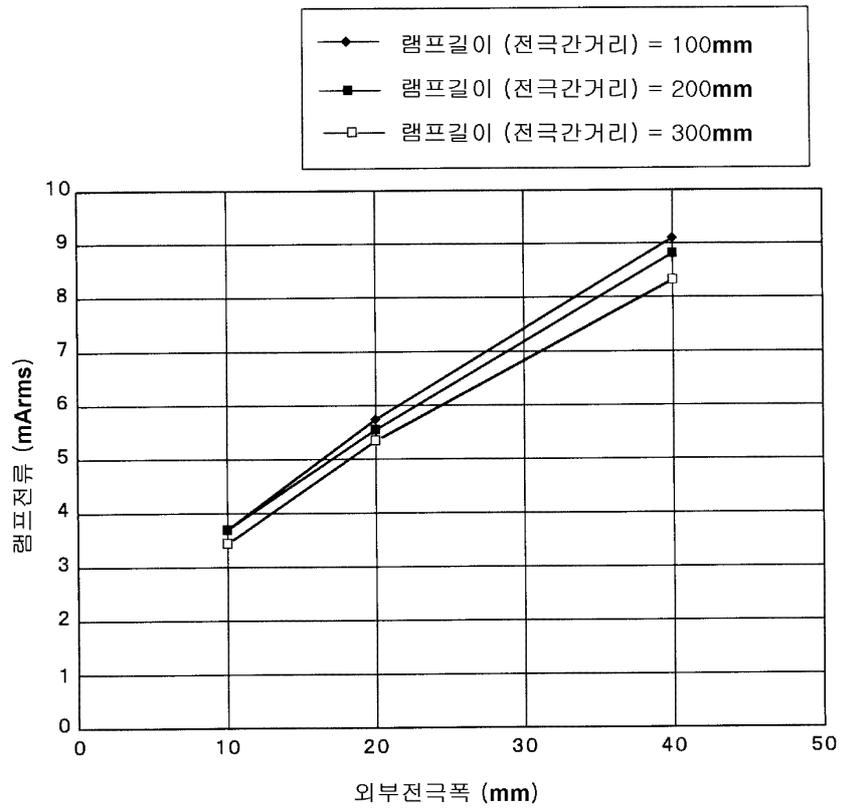
17

전극길이 (전극간거리 10mm 일정),  
구동주파수 약 50MHz에 있어서의 일례



18

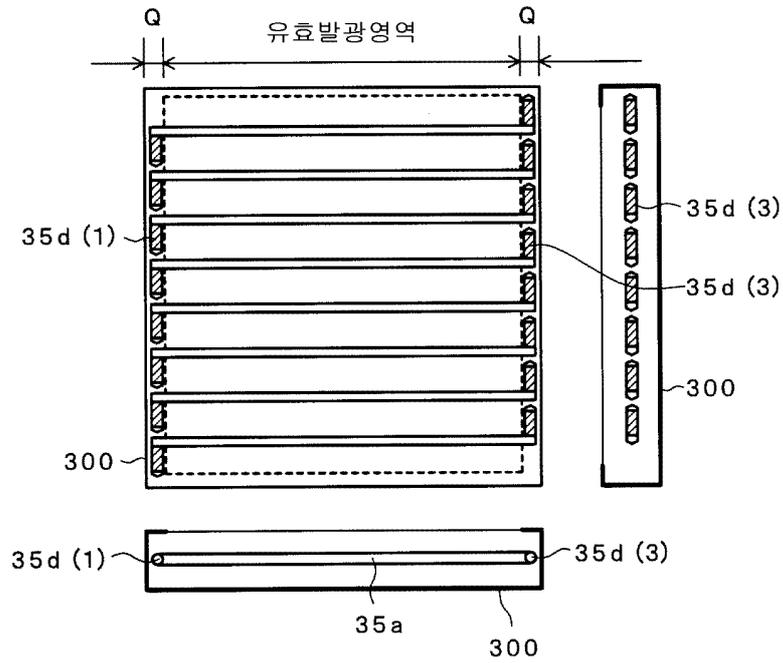
인가전압 1920V 일정, 구동주파수  
약 50KMHZ에 있어서의 일례



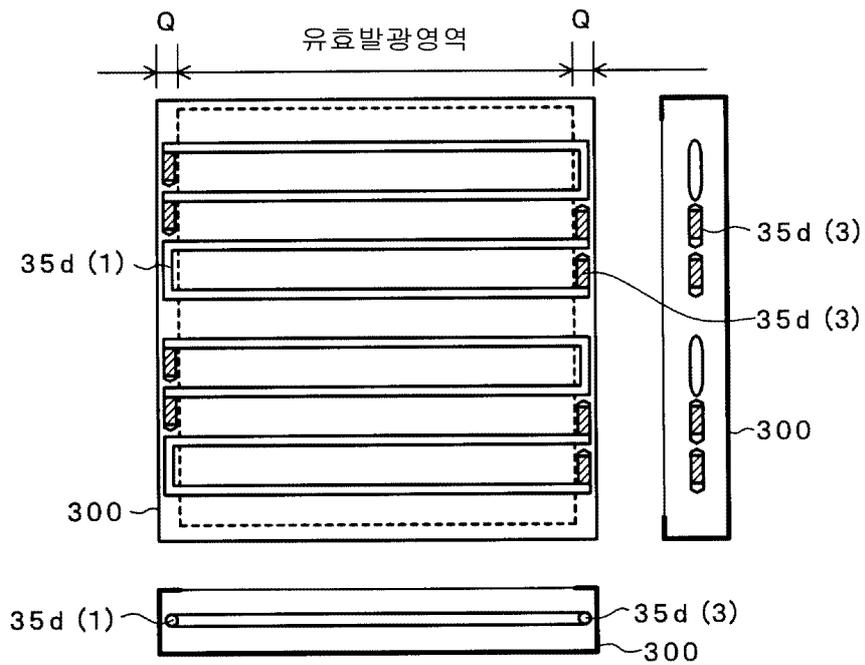
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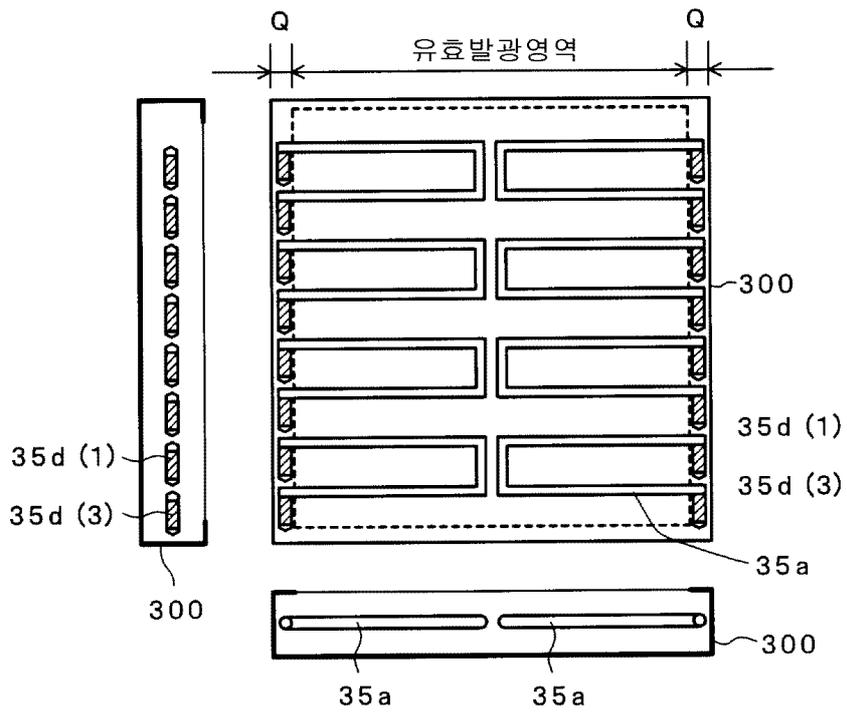
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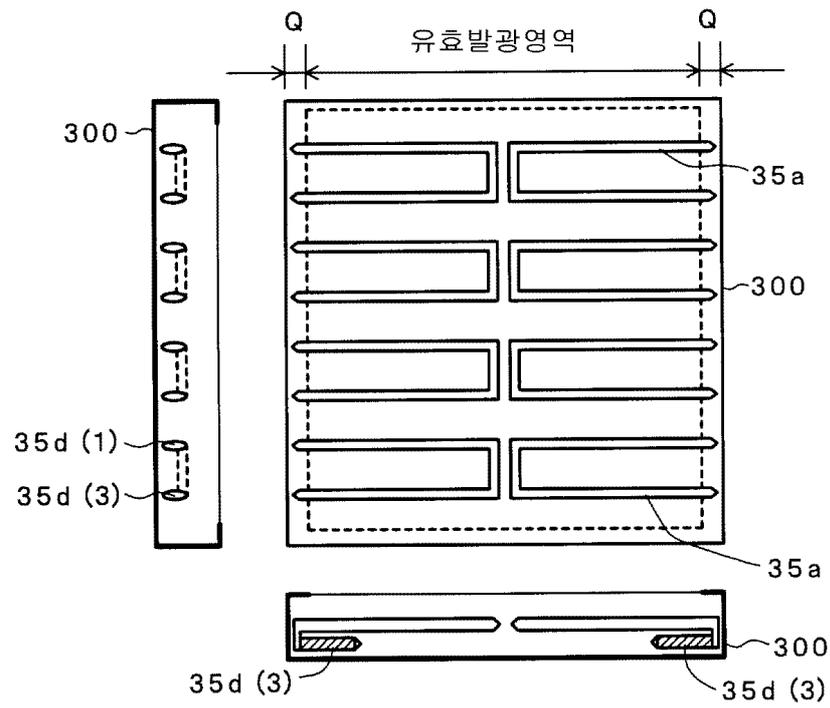
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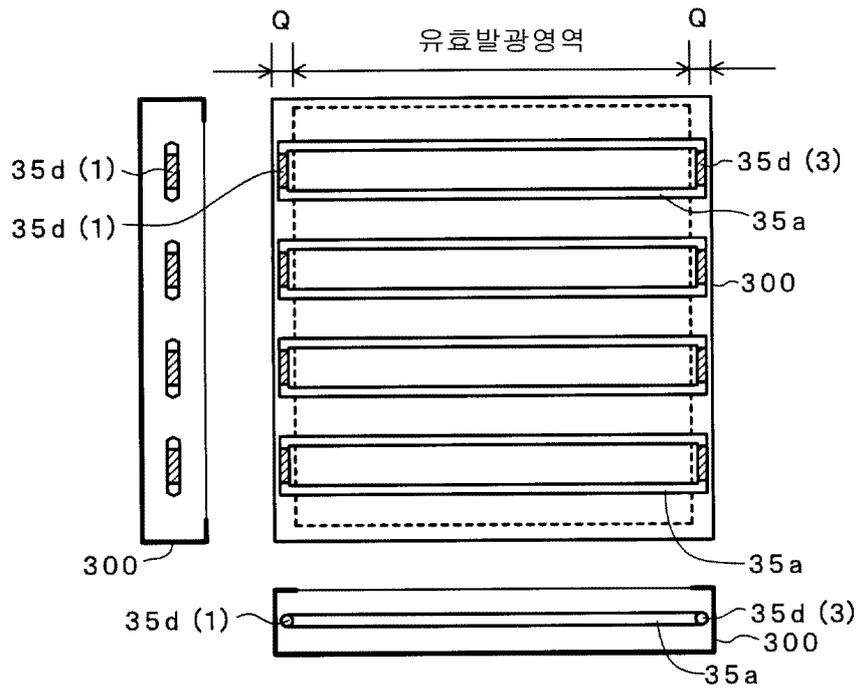
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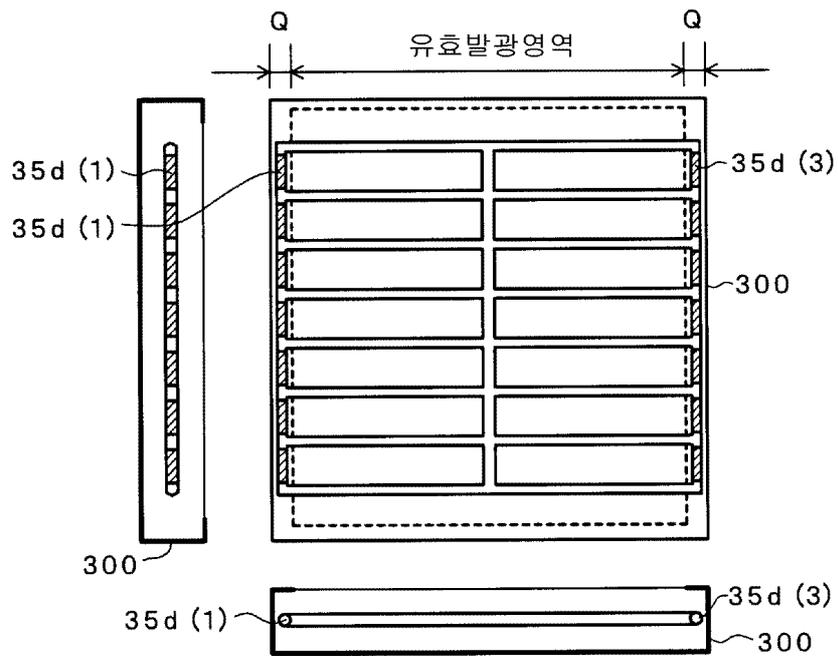
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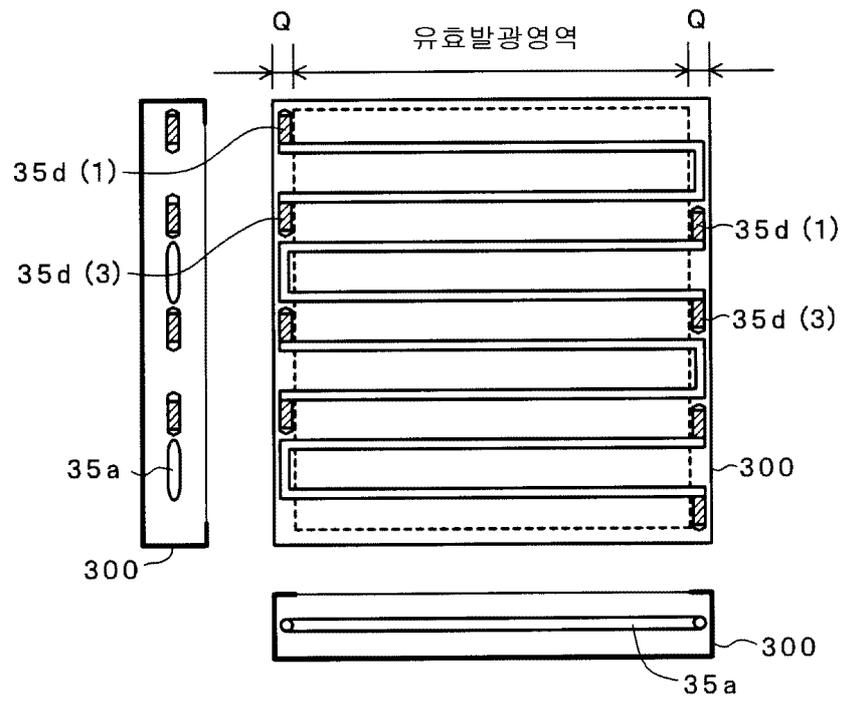
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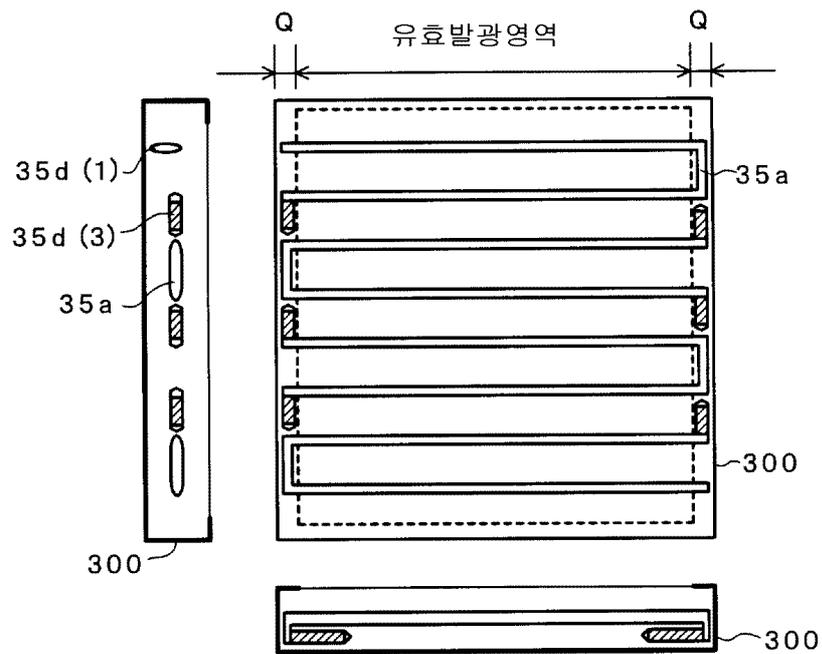
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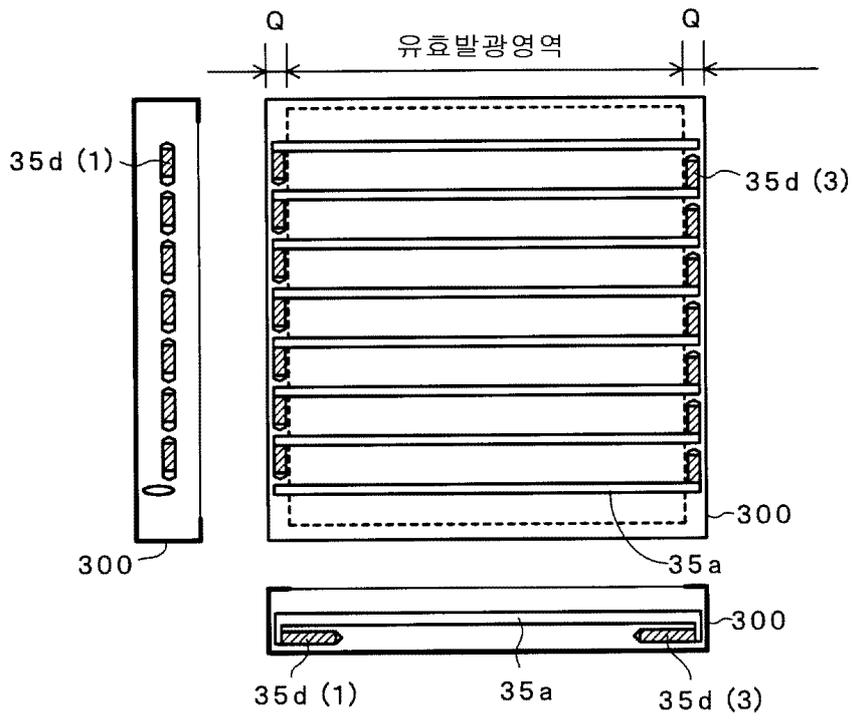
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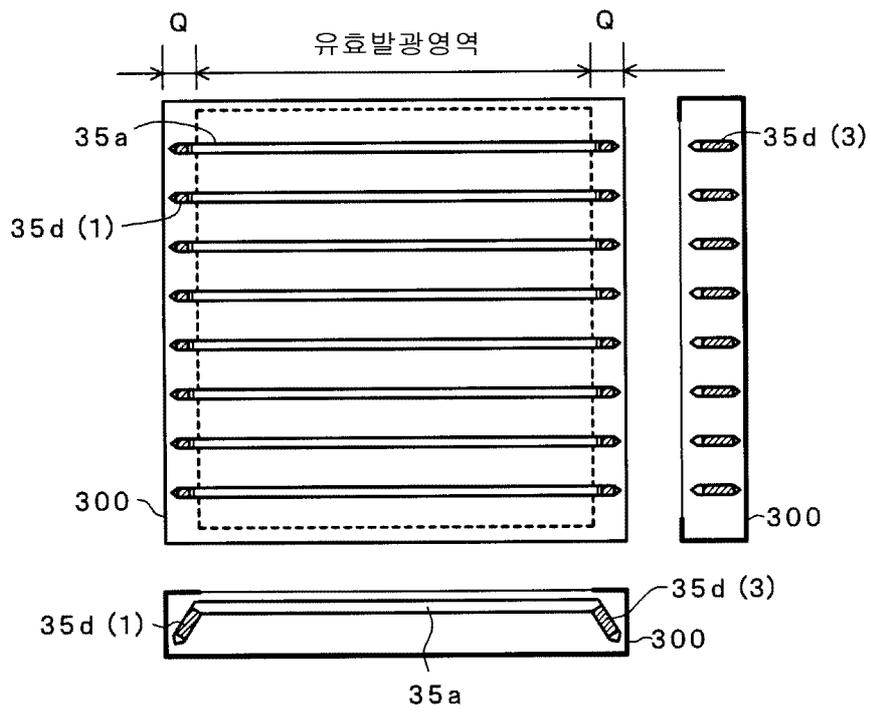
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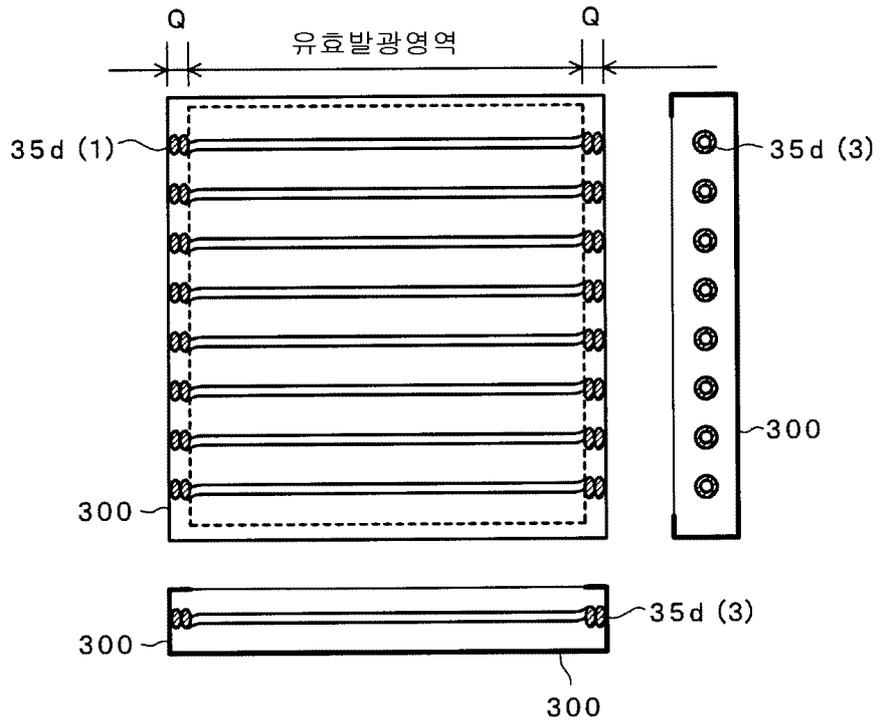
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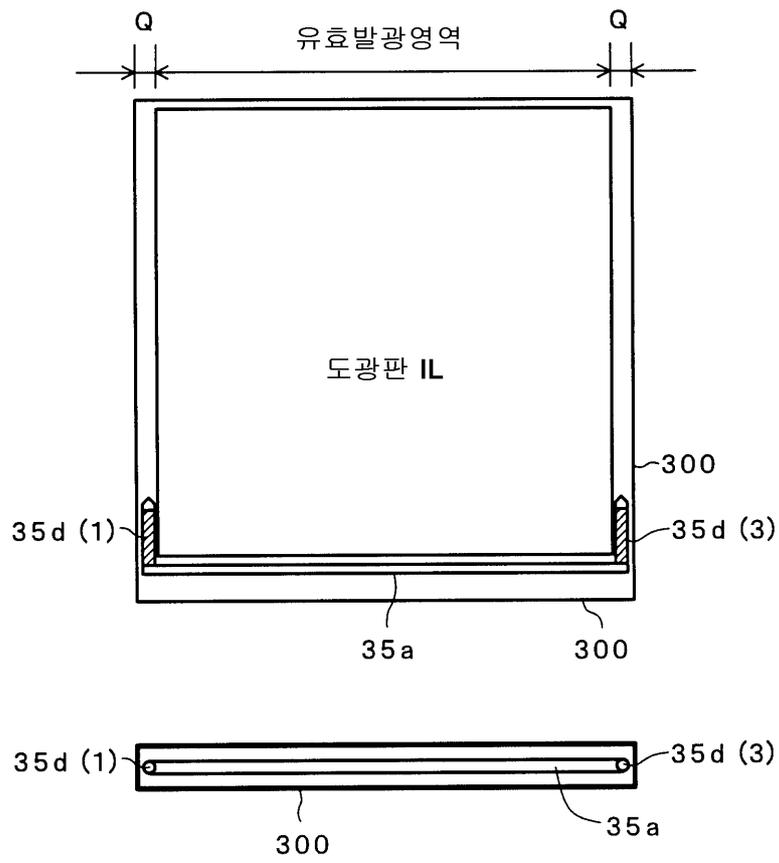
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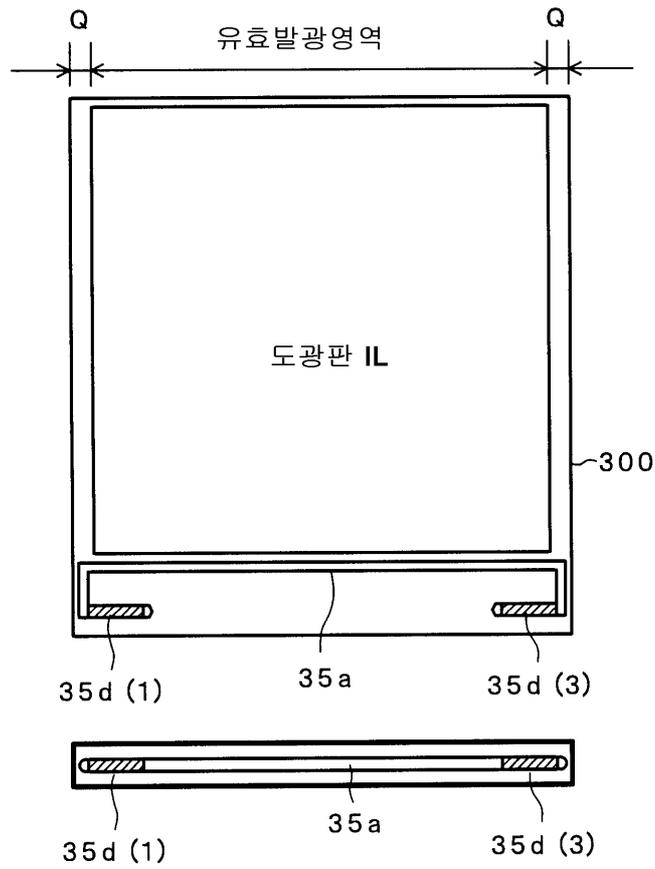
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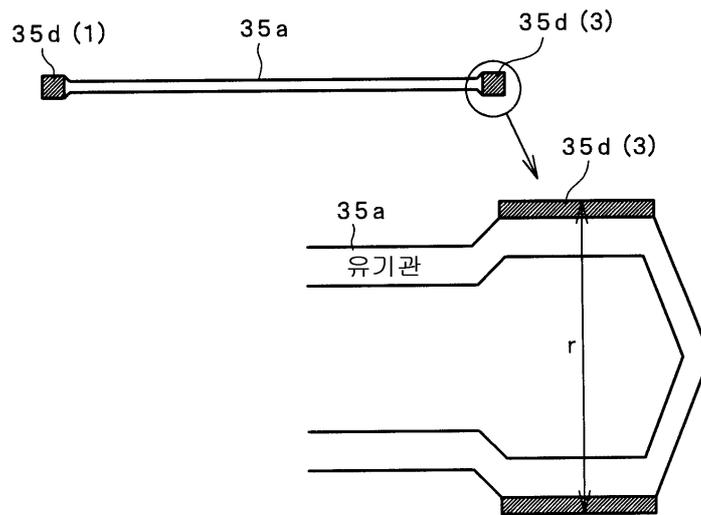
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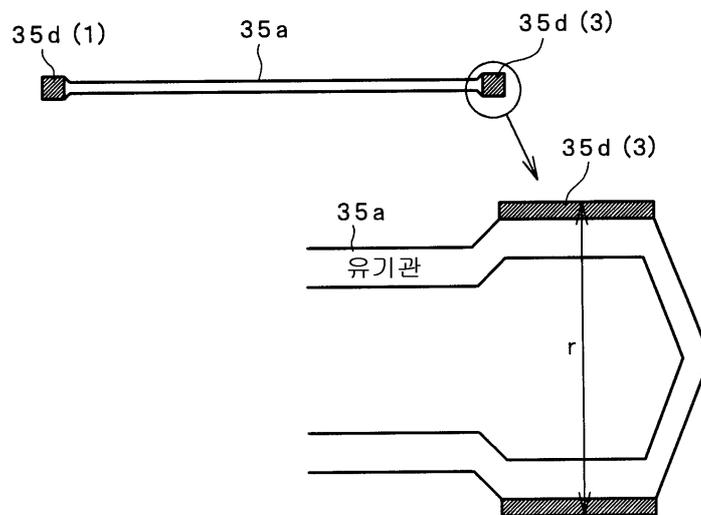
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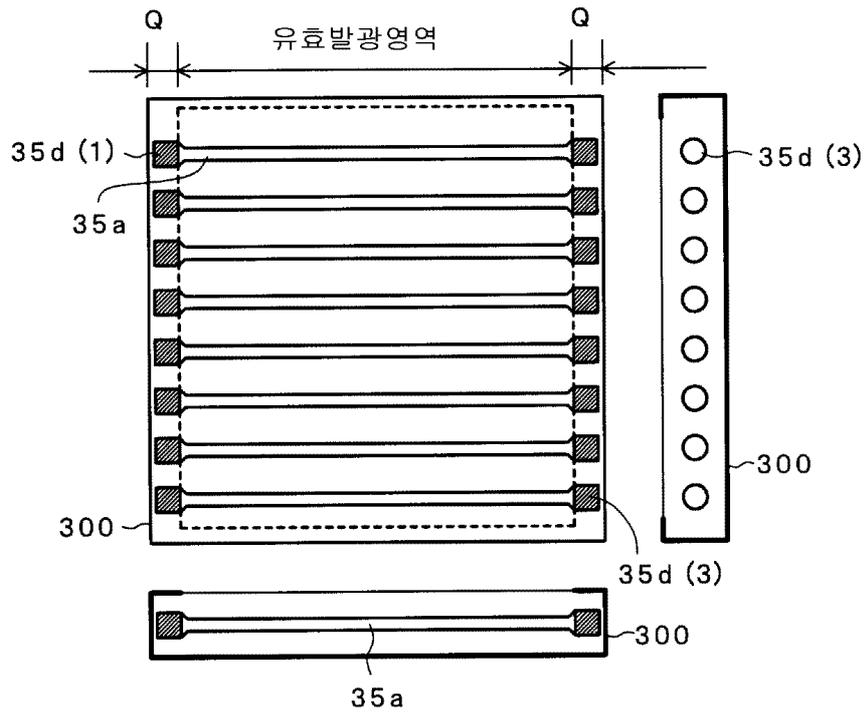
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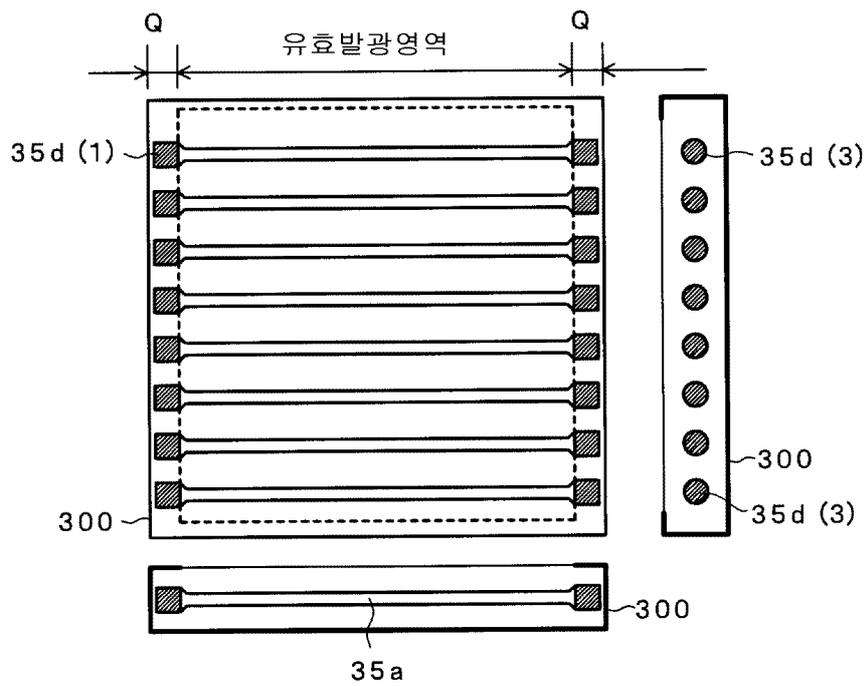
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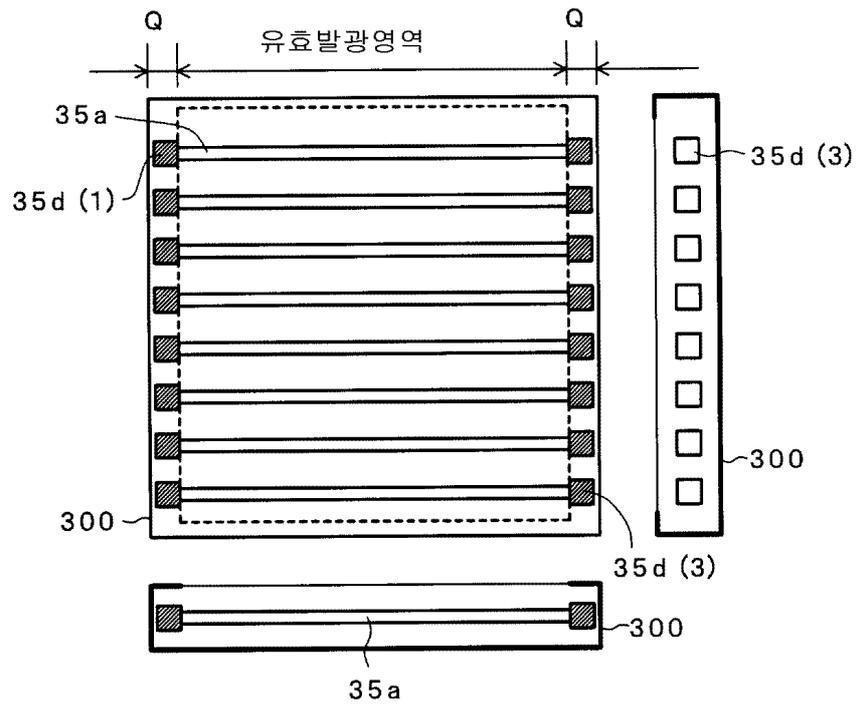
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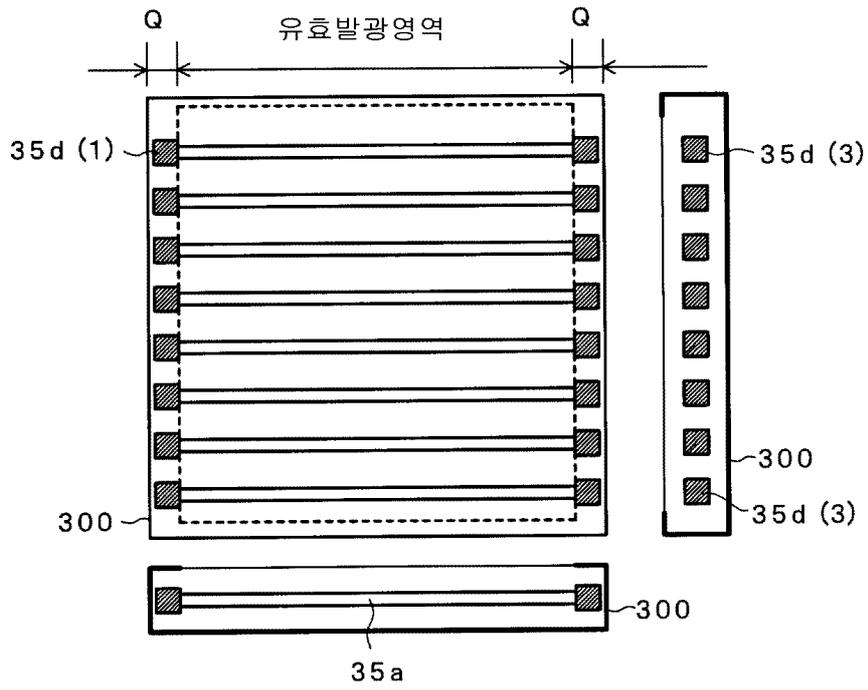
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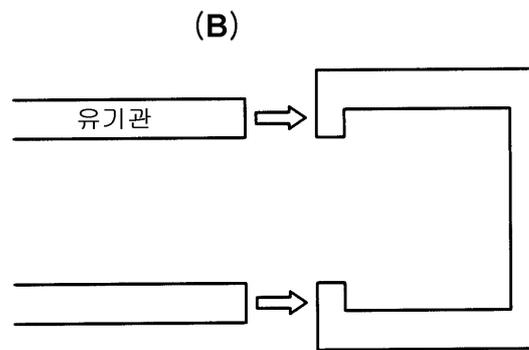
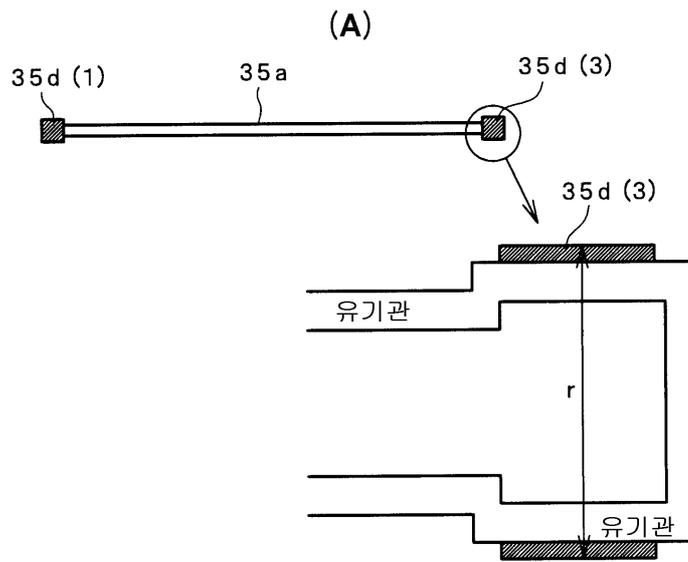
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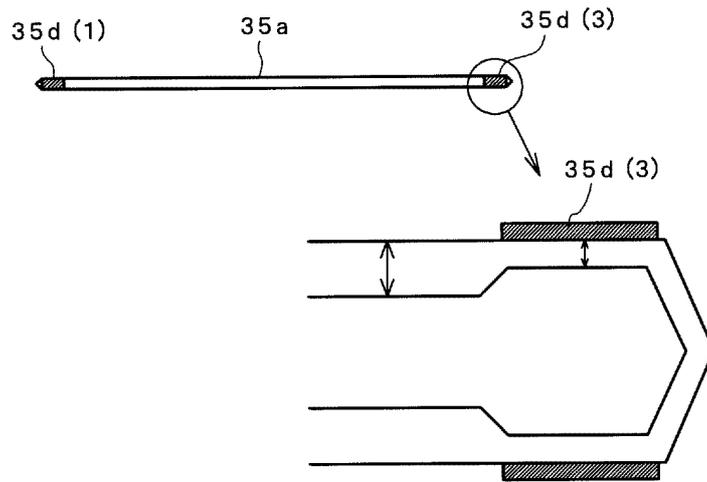
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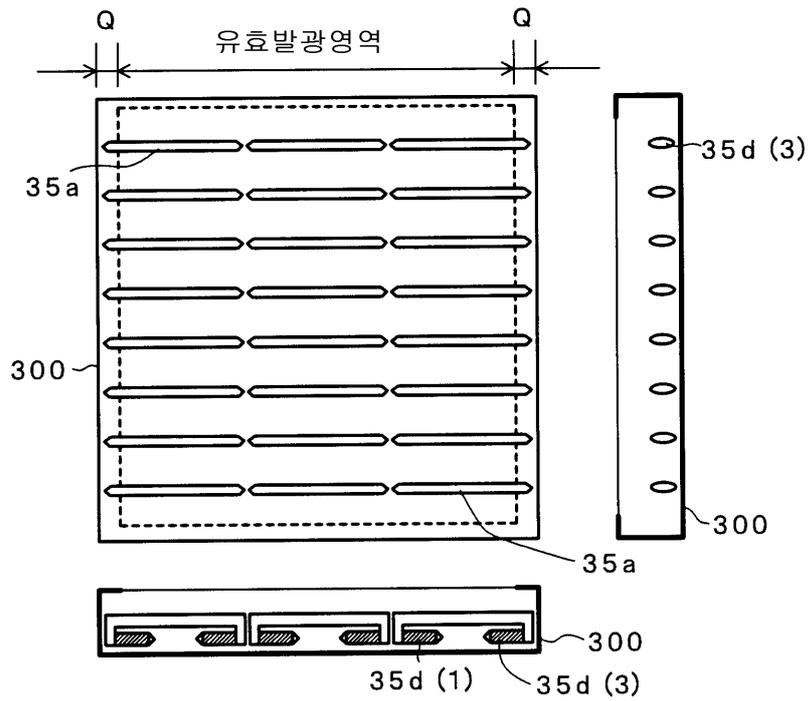
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专利名称(译)	液晶显示器		
公开(公告)号	<a href="#">KR1020020018969A</a>	公开(公告)日	2002-03-09
申请号	KR1020010053891	申请日	2001-09-03
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA 株式会社日立显示器		
申请(专利权)人(译)	株式会社日立制作所 可否让这个夏日立显示器非凡 ) .		
当前申请(专利权)人(译)	株式会社日立制作所 可否让这个夏日立显示器非凡 ) .		
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IPC分类号	G02F1/13357 F21V8/00 G09F9/00 G02F1/1335		
CPC分类号	G02F1/133604 G02F2001/133613 H01J65/046 G02B6/0071 G02B6/0083 G02B6/009 G02F1/133605		
代理人(译)	李钟IL		
优先权	2000266619 2000-09-04 JP		
其他公开文献	KR100618095B1		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

本发明提供了所谓的窄技术，其重叠的相邻区域作为本发明涉及液晶显示器附近的两个端部，其中背光源包括具有电极的放电管，液晶显示器由液晶显示器组成。背光源设置在液晶显示面板的后侧，并且该液晶显示面板在除了至少两端的周围之外的中央部分具有显示单元，并且该电极布置在放电管的管的外侧。放电管的电极设置在液晶显示面板上，并且它还被弯曲，并且计划了具有角度和长数杰作的放电管的幻像轴。

