

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.7  
H01J 1/30

(45)  
(11)  
(24)

2004 09 04  
10-0446623  
2004 08 23

(21) 10-2002-0005366  
(22) 2002 01 30

(65)  
(43)

10-2003-0065657  
2003 08 09

(73)

575

(72)

208 1003

1 27-1 102

301 1601

(74)

:

(54)

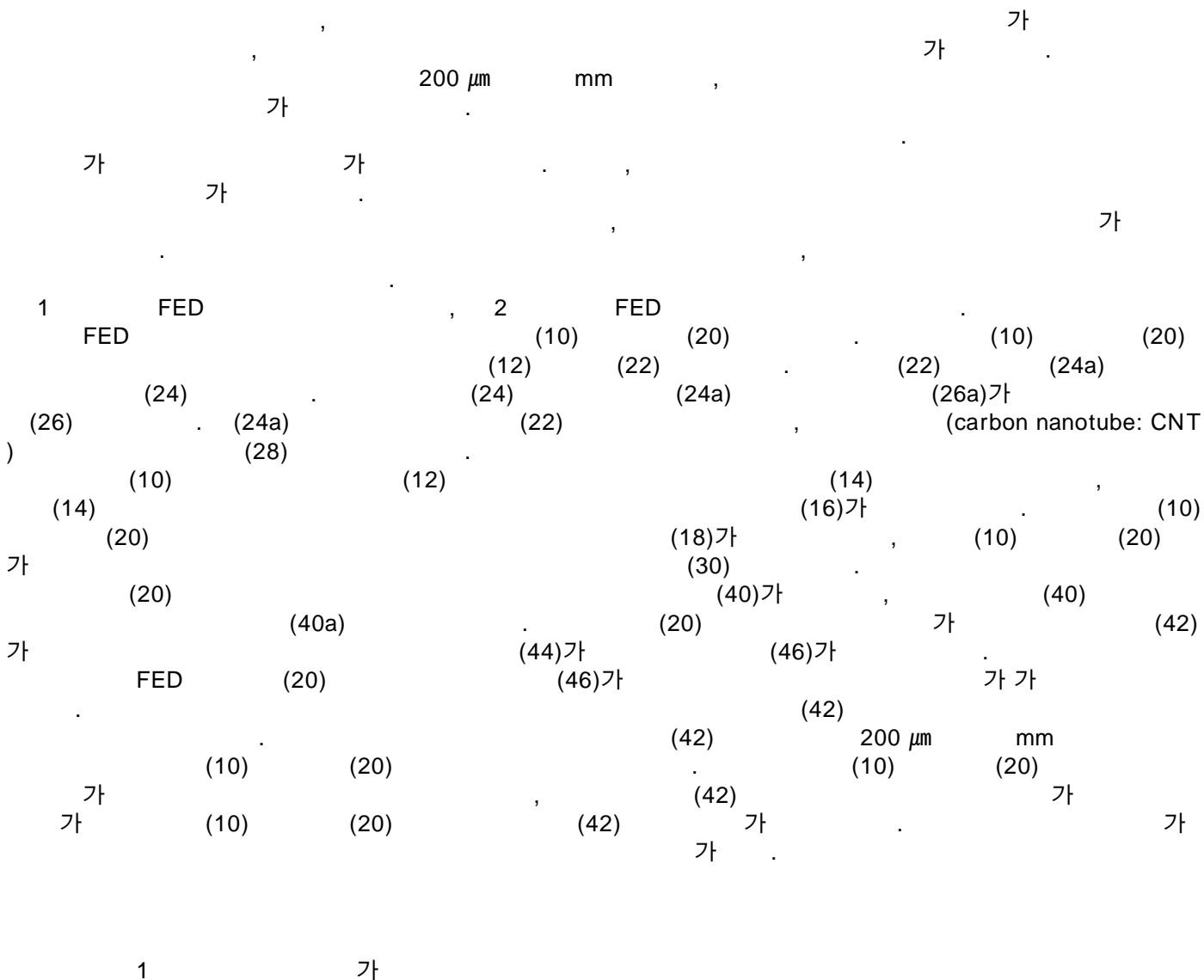
가

3

1  
2 1  
3  
4 3

5 4  
 \* \*  
 110: 112:  
 114: 116: (black matrix)  
 118: 120:  
 122: 124:  
 126: 128:  
 130: 140:  
 150: 152:  
 154: 156:  
 160: 162:  
 170: 180:

(field emission display: FED)





(156)  
가 (122) (126) 1~3 kV 가 가 (128)  
(112) (114)  
5 (170) (180)가  
(110) (112), R(red), G(green), B(blue) (114)  
(116) (170) (152), (154) (154)  
156) (150) (156) (154)  
( )  
0~3000 (150) , 400~700 μm 180  
ITO(Indium tin oxide) ITO  
(Zr) (non-evaporable getter layer: NEG) 20~100 μm  
(electrophoresis)  
(nitrocellulose) (acetate)  
60~90 % 380~430  
가 5 10 mm 가 (dicing)  
(150) (150) (110)  
(124) (120) (170) (150) (122)  
0) (124) (170) (126) (15)  
(128) (124) (160)  
(160) (128) (paste) (126) (124) (162)  
(120) (110) (120) (130) (130) (110)  
가 (120) (frit) 가 가 가  
320 340 가 가 가  
가 10<sup>-5</sup> torr 가 (140) (140a)  
(120) (110) (154)  
(162) (160) 1kV 5kV 가 (160)  
(156)  
가 FED (122) (122) (122) (126) 70 100 V  
(122), (126) (112) 1~3 kV (114) (128)  
X-Y (matrix) (124)

가

가 가

(57)

1.

가 ;

;

;

(active display region)

2.

1 ,

3.

1 ,

4.

5.

1 ,

6.

1 ,

7.

6 ,

20 ~ 100 μm 가

8.

1 7 ,

가

9.

1 ,

(가)

( )

( )

( )

( )

( )

( )

가

가

가

10.

9 ,

(가)

ITO(Indium tin oxide)

( )

ITO

(Zr)

11.

10 ,

(가) ( )

가

;

12.

9

( )

, 20~100  $\mu\text{m}$

13.

9

( )

14.

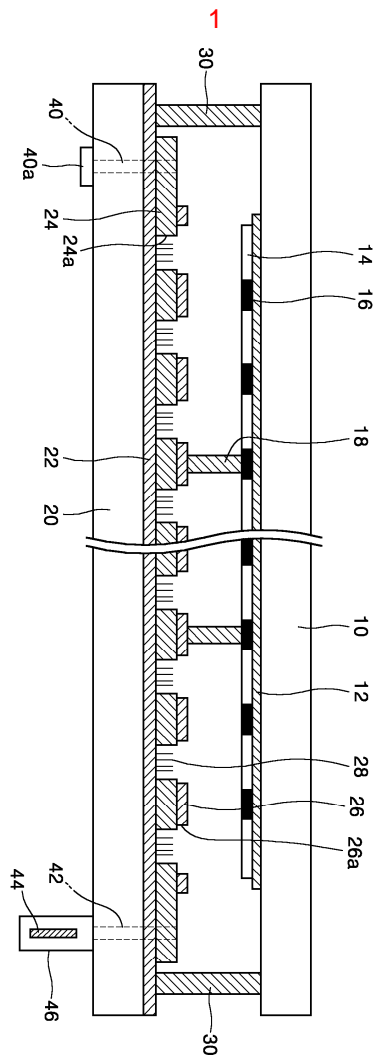
13

가

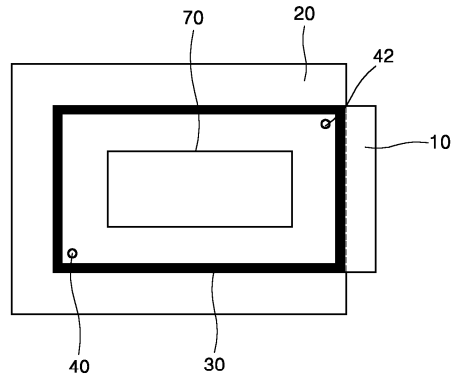
15.

14

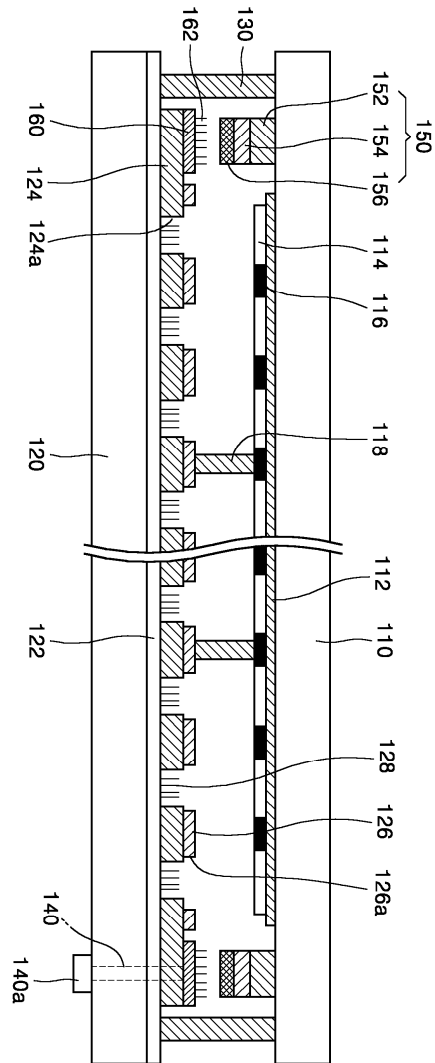
60~90 %



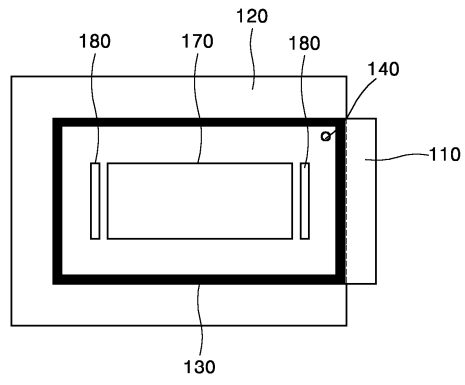
2



3



4



5

