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(22) 2002 10 29

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54 120-604

74-14 702

(74)
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(54)

, 1, 2 ; 1
; 2
; , 가 1 ; 1
가 , 2 , 1
, 1, 2 가 , 1, 2 , 1
, 1, 2 , 가 , 가
, 가 , 가
가 .

4

1

2

3	1	.
4	2	.
5a, 5b	2	가 .
6	3	.
7	4	.
8	5	.

<

210 : 1 240 :
 244 : 250 : 2
 252 : 1 260 :
 262 : 2 E :
 T :

(Organic Electroluminescent Device)

(FPD ; Flat Panel Display)

가 가 가 ,
 가 가 가
 PDP(Plasma Display Panel) (depositio
 n) 가 ,
 e matrix) (passiv

(scan line)

(signal line)

Transistor)가 (sub pixel) (pixel) / (on/off) (Thin Film /
 , 1 2
 (frame) 가 가 가 (C_{ST} ; storage capacitance)

-- 1 --

3 1

1, 2 (110, 150)

1 (110, 150) (T) (142)

(140) (140) (T) (144)

(142) (144) (142) (144)

(144) (T) (142)

(T) (112), (114), (116) (118)

(142) (118)

2 (150) 1 (152) 1 (152)

(160) (156a, 156b, 156c) (160) (160)

(160) 2 (162) 2 (162)

(156a, 156b, 156c) (160) 1 (152) 1 (154)

58) , 2 (162) , 2 (162)

1 (152) , 2 (162) , 1 (154)

(158)

1, 2 (152, 162) 1, 2 (152, 162) (160)

(E)

(144) 2 (162) (T)

가 (142) (144) 2 (162) 2 (162)

1, 2 (110, 150) 가 (170) , 1, 2 (110, 150)

가

가

2 4 5

1

-- 2 --

4 2 , 가
 , 3
 2) (240) 1 (210) , 1, 2 (252, 262) 1, 2 (252, 26
 (260) (E)가 2 (250)
 , 1, 2 (210, 250) (240)
 (E) , 가 (244)
 (244)

(260) 1 (252)
 ,
 , (244) 가 (I) 가 , (E) (240)
 (244) 가

5a, 5b 2 가 가 , 5
 a, 5b 가
 5a 2 (IIb) , (246) 1 (IIa),
 3 (IIIc)

$$\frac{IIc}{IIa} \times 100 \approx 5 \sim 20\%$$

5 (IIIc) 3 5b (IIIa), (248) 4 (IIIb) , 3, 4

$$\frac{IIIc}{IIIa} \times 100 \approx 5 \sim 20\%$$

(glass) 가 가 5 ~ 20 % , 5 % 가 ,
 , 20 % 가
 가
 5a, 5b 가

-- 3 --

가 2

,가 2

6 3 ,
 , 1 (310) (340) 2 (350) (E)
 ,가 (344) , (E) 2 (3
 62) (340) (318) , (364)
 (364) 2 (362) 가 , (344) 2 (362)
 , (344) 가 _____ 2 (362)

, (344) (IV) 가 , 5 ~20 %
 , 가 (E) (340)

(344) 2 가

-- 4 --

가

7 4 ,
 , 1 (410) (440) 2 (450) (E)
 440) (442) , (E) (444) , (464) (

, (444) (V) 가 , 5 ~20 %
 , 가 (E) (440)

(444) 가

(442) (444) (464) (T) (418) 6 , 가 ,
 (418) , (418) (418) (444)

(444) (422) (420) (418)
 (442) (418) (444)

-- 5 --

8 ,가 5

ST1 , 1 , 2

(57)

1. 1, 2 ;
 1 ;
 2 1 ;
 1 ;
 2 ;
 2 , 1 가 , 2 , 가
 1, 2 가 , 1, 2
 , 1 1, 2 가

2. 1 ,
 1 , 1, 2 5 ~ 20 % 가

3. 1 ,
 가 가

4. 1 ,
 2 , 2 가 가

5. 1 ,

6. 1 ,
 2 ,

7. 4 6 ,

15.

12

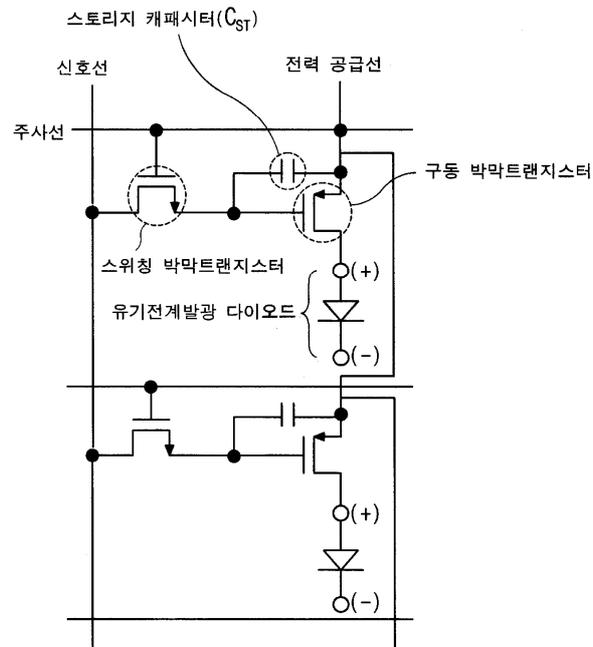
14

가

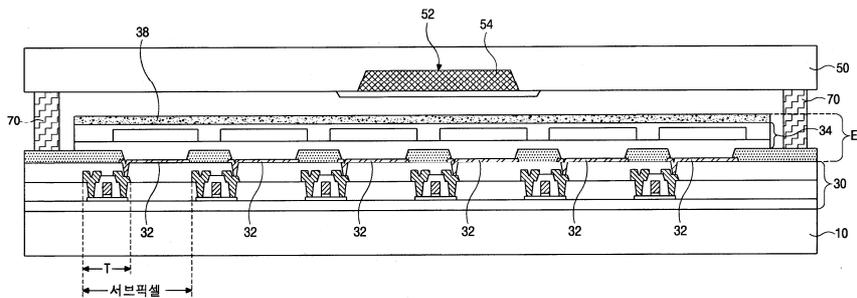
16.

9

1

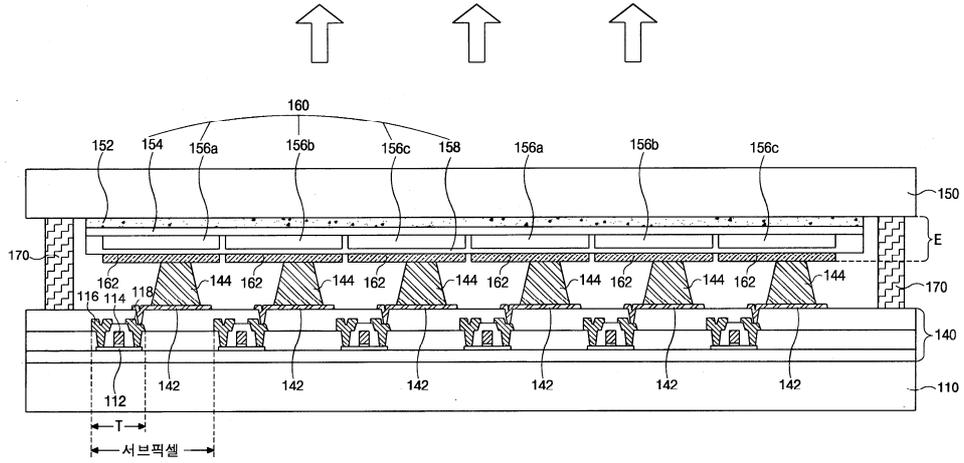


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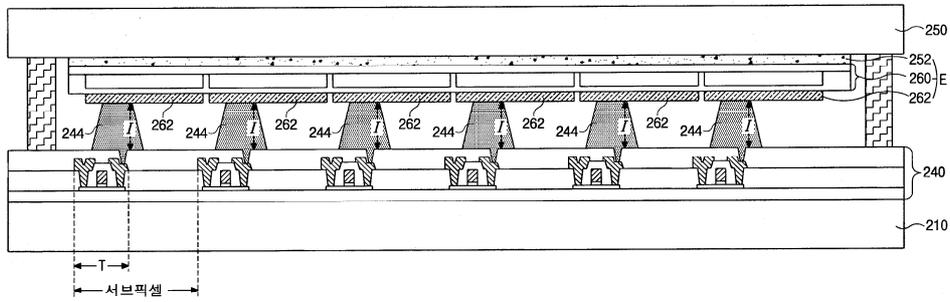


3

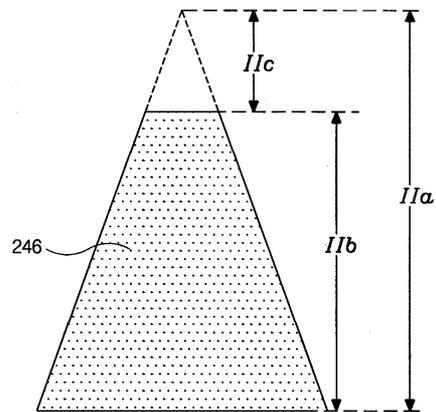
발 광 방 향



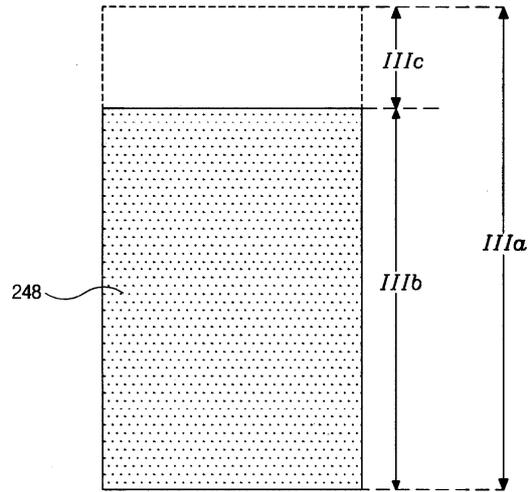
4



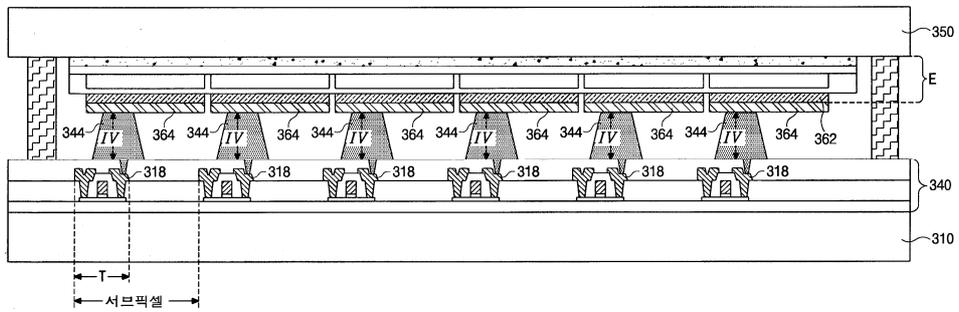
5a



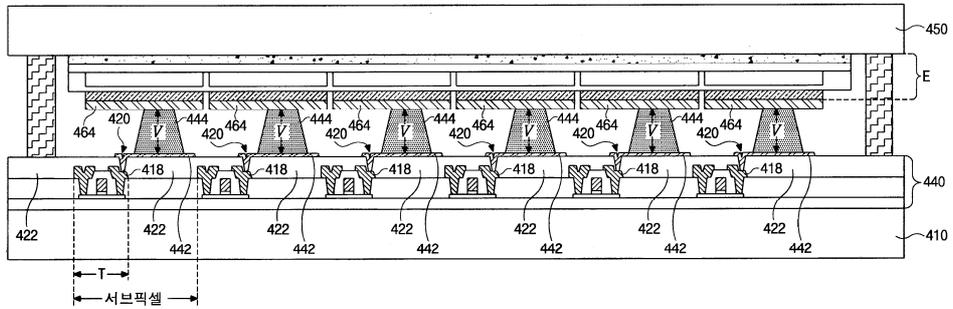
5b



6



7



8

