

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
H05B 33/04

(11)
(43)

2003-0069707
2003 08 27

(21) 10-2002-0009646
(22) 2002 02 22

(71) . 20

(72) 가 307-801

() 120-604

(74)
:

(54)

1 , ' , ' , (sub pixel) , 1, 2 ; , 2
 가 1 ; 1
 ; 2 ; 1, 2 가
 ; 2
 , ' , 가 / ' 가 ,
 , ' , 가 ' .

5

1
2
3 2
4

1

1 (powersupply line) 2

(addressing element) (switchin (C_{ST})가 (current source element (Electrolumi

g TFT)가 (C_{ST}) (anode electrode)

) (cathode electrode) P(positive)-N(negative) (Junction) 가

nescent Diode)가 (bottom emission type) (top emission ty

pe) (bottom emission type)

2

1, 2 (10, 30) 1, 2 (10, 30) 가

(40 ; seal pattern) (T)가 (T) (10) (12) (1)

(T) 1 (12) (T) 1 (12) (Red), (Gr

een), (Blue) (14) (14)

2 (16)

1, 2 (12, 16) (14) 가

(40) 2 (16) 2 (30) 2 (30)

(30) 가

2) 1 (12) 2 (16) 가 2 (16) 1 (1

(14) 1 (12) (14a ; hole injection layer), (14b

; hole transporting layer), (14c ; emission layer), (14d ; electron transporting layer)

(14c) 가

3 2

(1) (62), (68), (80, 82)

(72) (E)가 (80, 82)

(64) (72) 가 (62)

(A) (E)

(E) (E) (14) 1 (12) 2 (16)

(A) (E)가

4
st1 1 , 1 , 1

st2 1 1 , 1

st3 1 2 , , ,

st4 2 3 2 ,

st5 2 (外氣) 1 , 1
2 , 가 1

가

가 , 1000

가 가 가

가

/

가

1, 2 ; 2 1 (sub pixel) 가 1

; 1 ; 2
 ; 1, 2 가 ; ; 2
 .
 .
 1 (cathode electrode) , 2 (anode electrode) , 1
 (Al), (Mg) , (Li) , 1
 (benzonate) ,
 , 2 , , ,
 2 , . , ,
 2 , , ,
 .
 2 , , , 가 1, 2 ;
 1 가 ; 1 ; 2 , ;
 ; 1, 2 ; 1, 2
 .
 , , 2
 1, 2 , 1, 2 가
 .
 5 ,
 .
 , 1, 2 (110, 130) , 1, 2 (110, 130) 가
 (140)
 0) 1 (110) (100) (120)가 , 2 (130) (10
 (E)가
 (134) , (E) , 1 (132) , 1 (132)
 (134) , (134) , 2 (136)
 b) (134) 1 , , (134a) 2 (134c) (134b) , (134
 1 (134a) 2 (134c)
 (134a) , 1 (132) , 2 (136) 1
 , 2 (134c)
 , 2 (120) (T) (T) 2 (112)
 (112) (T) (T) (E)

(136) 2 (136) 2 (112) (140) 2
 (T) (114)
 (114) (114) 1 (110) (120)
 (134) 2 (130)
 (132) 1 (132) 가 1
 (134) 1 (132) (Al), (Mg) (:
), : (Li), : (benzionate)
 2 (136)
 1, 2 (110, 130) (I) (N₂)
 (120)
 가 /
 6
 ST1 1
 1, 2
 ST2 2 1 ST1
 1 가 1 가
 ST3 1
 ST4 2
 ST5 1, 2
 1 2 1, 2 2
 1 2

ST6 , 1, 2 , 1, 2 가 , 1, 2 , 1, 2

, 1, 2

가

가

가

/

가

(57)

1.

1, 2

1 (sub pixel)

2 , 가 1 ;

1 ;

2 ;

1, 2 가 ;

2

2.

3.

1 (cathode electrode) , 2 (anode electrode) .

4.

3 ,

1

5.

4 ,

(Li) , 1 (benzonate) , (Al), (Mg) ,

6.

1 ,

2

7.

1 ,

2

8.

1 ,

2

9.

1 ,

2

10.

1 ,

11.

1, 2 ;

1 가 ;

2 , 가 1 ;

1 ;

2 ;

1, 2 ;

1, 2

11 12. ,

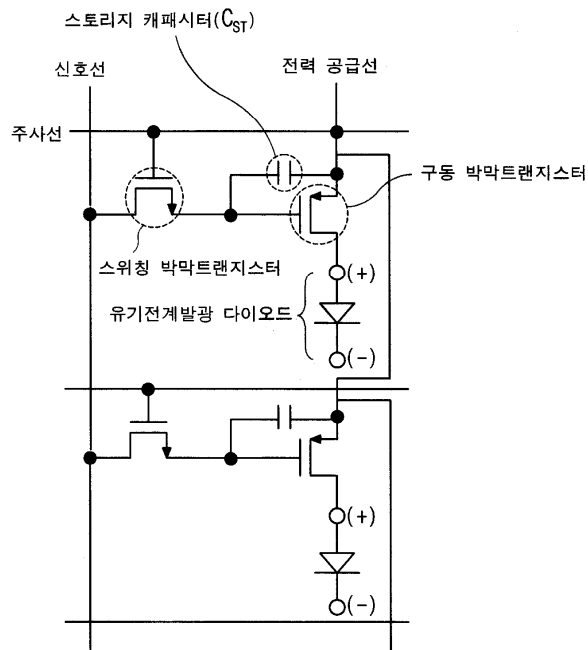
11 13. ,

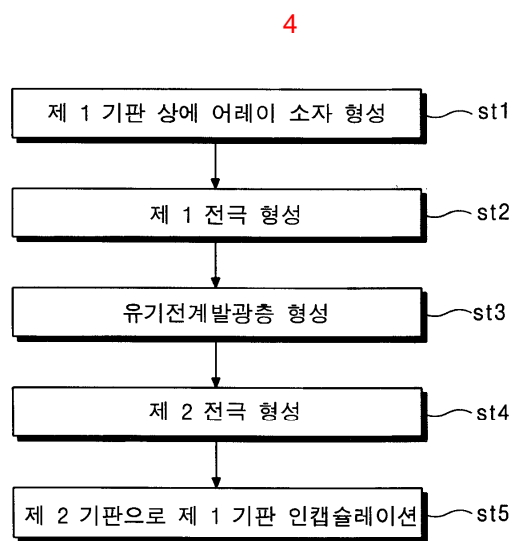
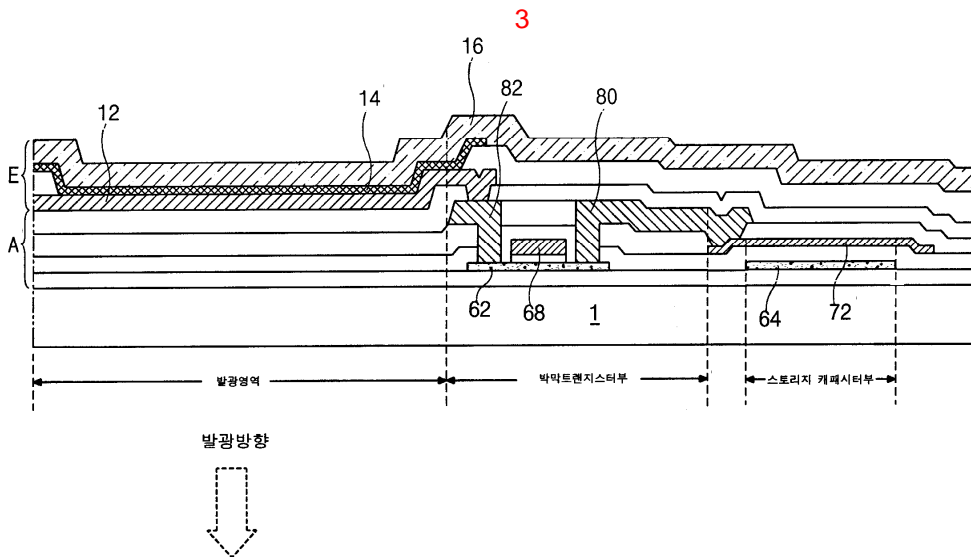
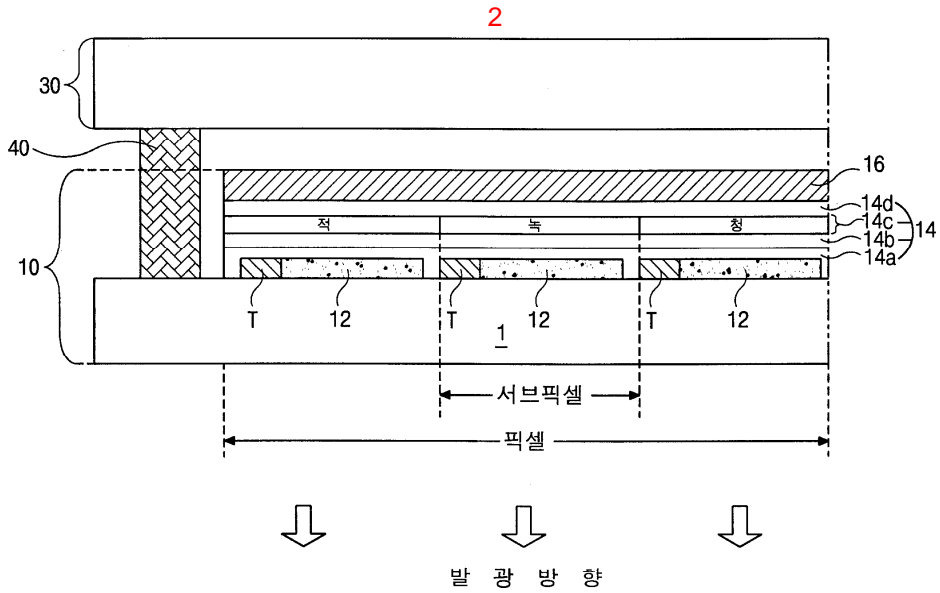
2

11 14. ,

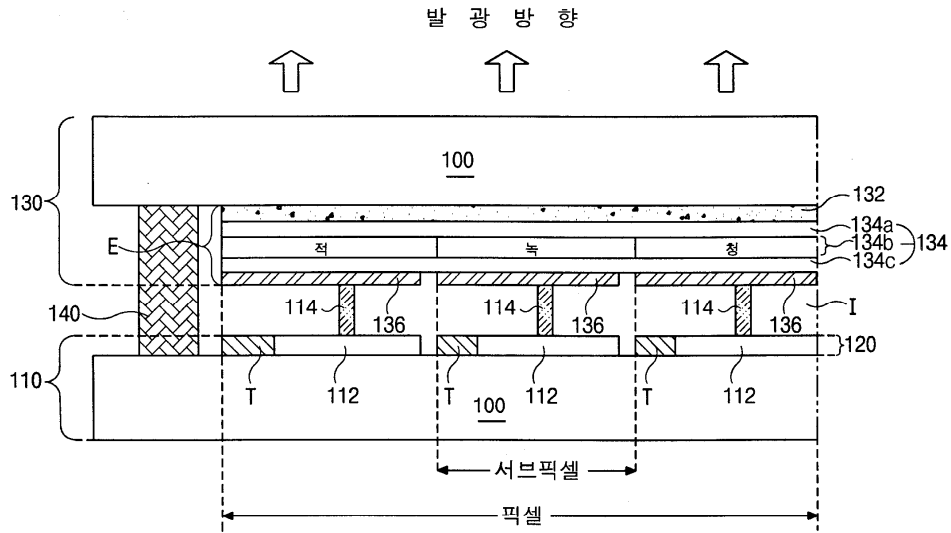
1, 2 , 1, 2 가

1





5



6

