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(11)
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10-0466399
2005 01 05

(21) 10-2000-0086088
(22) 2000 12 29

(65)
(43)

10-2002-0056686
2002 07 10

(73)

167-1

(72)

248 40 3 6-512

6 1 121 305

481-1 101-702

441-1 110 1301

(74)

:

(54)

IPE

EL

가

IPE

EL

, IPE

ITO

가

ITO

가

가

1 EL ,
 2 EL ,
 3 EL ,
 4 IPE ,
 5a, 5b, 5c, 5d IPE EL ,
 6 EL ,
 7 IPE EL .
 *
 2: EL , 4,4': ,
 6,6': , 8,8': ,
 10: , 12: ,
 14: , 16: ,
 18: , 18a: ,
 20: , 20a: ,
 22: , 24: ,
 26: , 28: .

IPE EL , IPE EL
 (Car Navigation System),
 , , , TV EL
 1 EL (2) 가 가 (4) (6) (8)
 EL EL (2) 가 가 EL EL ,
 EL EL (8) (Spin Coating)
 EL (8) ITO(Indum tin Oxide) (4) (Stripe)
 (8) 2 3 (6)
 10 (Spin Coating) EL
 2 , ITO(Indum Tin Oxide) (4') (8') EL (Shadow Mask: 14)
 (8') EL (16) (8') (14) (16)
 (Metal Source)
 EL (14) (14)
 (Taper) (14)
 (Stripe) (14) (14)
 가 (14) (Metal Line) , (Align) 가
 EL (PR) 가 EL (8')
 (14)

가 EL 가 가 EL ,
 (14) (16)
 가 (Passive Matrix) EL (4')
 PDA, Car -Display (4')
 가 가
 가 IPE
 EL
 ITO IPE EL 가
 EL
 가
 μm
 , PPV, MEH-PPV, Polythiophene, Polypyrrole, OC₁C₁₀
 IPE EL 가
 3 EL (18) (20) (22) EL (19) (18, 20) (+) (-)
 가 (22) (18, 20) EL (Solvent)
 4 EL IPE (24)
 (IPE: In Plane Electrode) (10) (18) (20)
 가 (18, 20) (22) (18, 20)
 4 IPE (4, 6) (22)
 (8) (18, 20)
 (18) 가 ITO(Indum Tin Oxide)
 5a, 5b, 5c, 5d IPE 가 EL 가
 EL EL 7 6
 PE EL

5a (18) ITO 가

5a (18) (18) ITO

EL IPE 가 (18) ITO

가 IPE 5a (18) IPE

(Stripe) (18a) (18) (18)

(Wet Etch) (18a) (Profile) 가 (20a) (18a) (Dry Etch)

(20a)

5b (18) (26) 가 (26) (26)

) (18) μm (20) (26)

5c IPE EL (20) (18a)

(18) (10) (20) (18) (20a)

(Align) (20a) (18a) 가 (18a)

(Dry etch)

IPE EL (18) (20) ITO 가 IP

E EL (array) 5d 가 (Solve)

5d PPV, MEH-PPV, Polythiophene, Polypyrrole, OC₁C₁₀

(Spin coating) (Inkjet Printing)

EL (18) (20) (22) 2000 가 가

IPE (20a) (18a, 20a) ITO가 가

(18a) (18a) 가

5d EL EL 가

(18a) (20a) (20) (22)

IPE (18a, 20a) 6a 6b

(Full color panel) (18a, 20a)

ITO 가

가 IPE 가

EL 가 (Array) (Array) EL

IPE EL 가

, IPE EL IPE ITO
 가
 , ITO 가 ,
 가 .

(57)

1.

, ,
 ,
 , IPE

EL .
2.

, ITO 가 I
 , EL .

1
PE

3.

, IPE EL .

1

4.

, EL IPE EL .

1
가

5.

, 가 IPE EL .

1

6.

, IPE

1
EL .

7.

, μm IPE EL .

3

8.

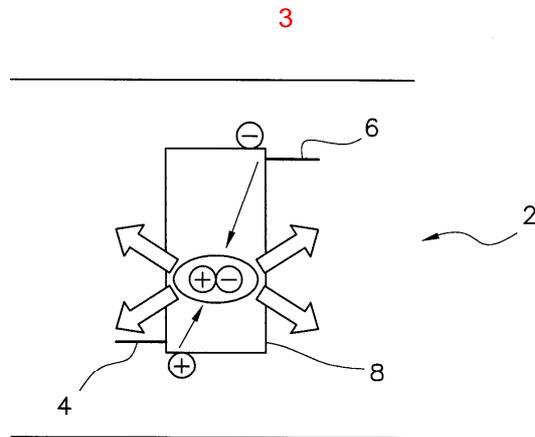
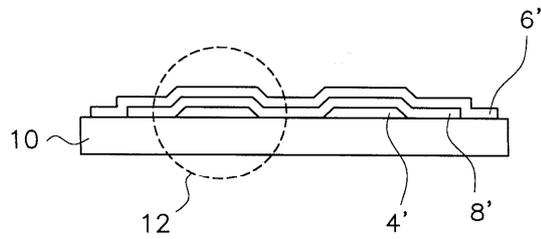
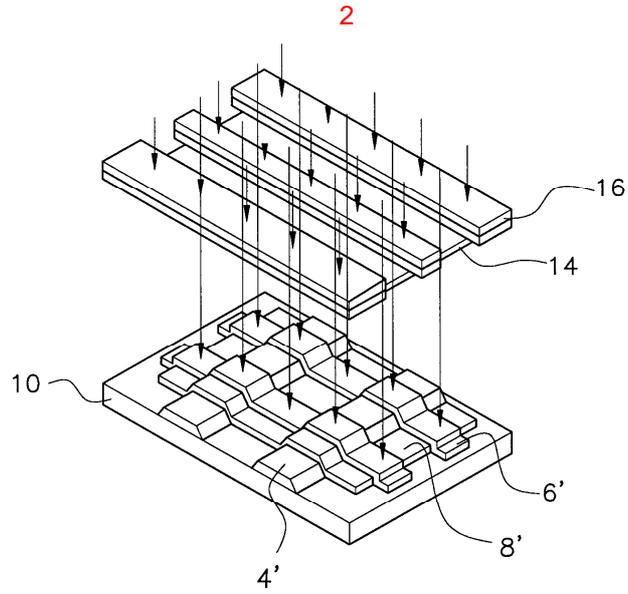
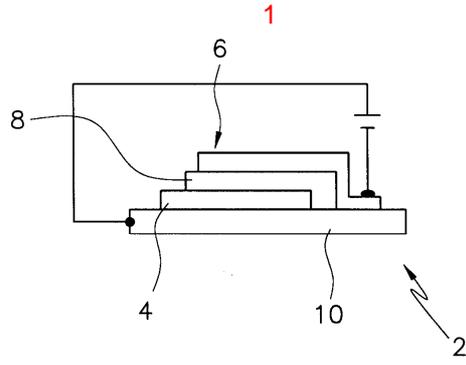
, PPV, MEH-PPV, Polythiophene, Polypyrrole, OC₁C₁₀
 IPE EL .

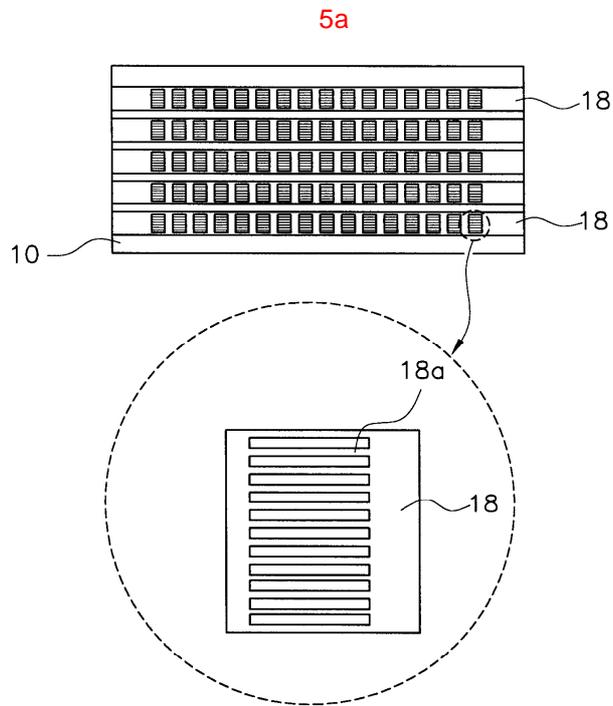
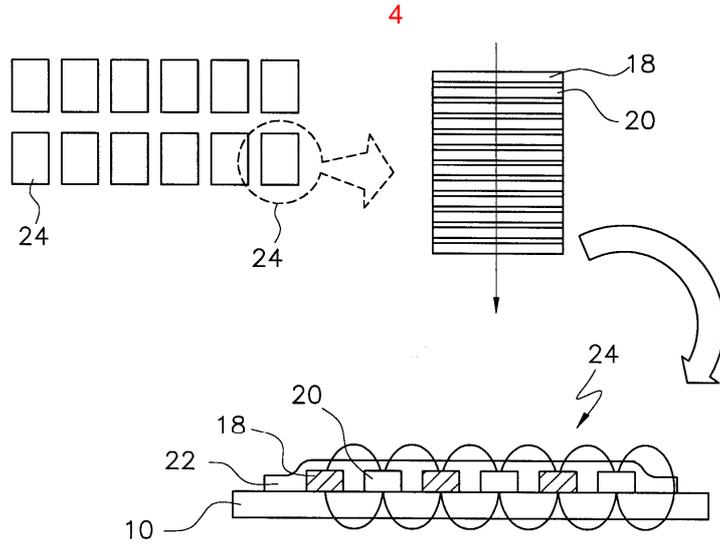
1

10.

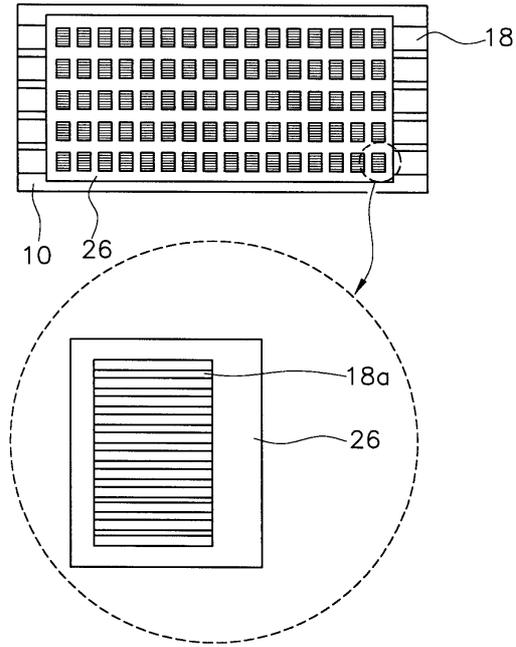
, IPE EL .

1

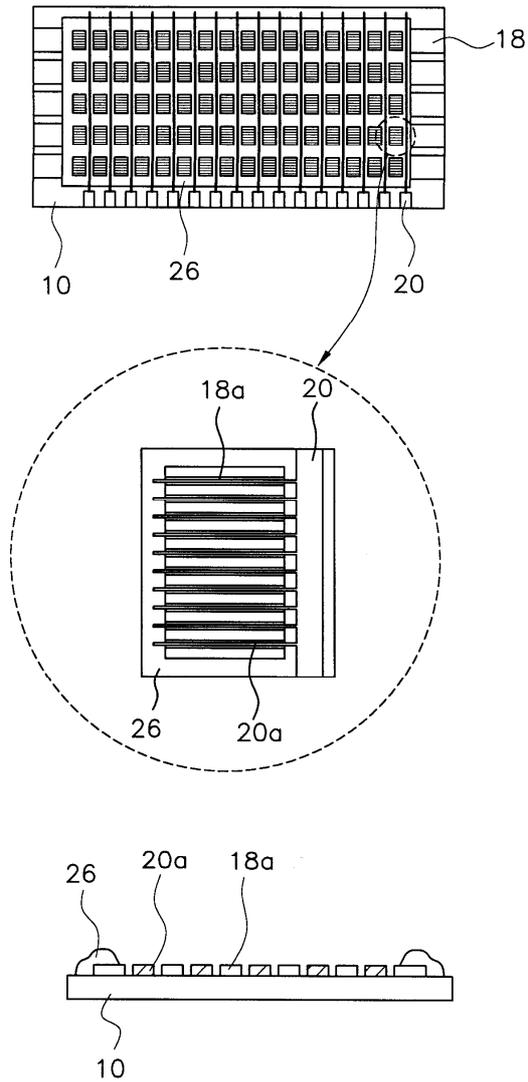




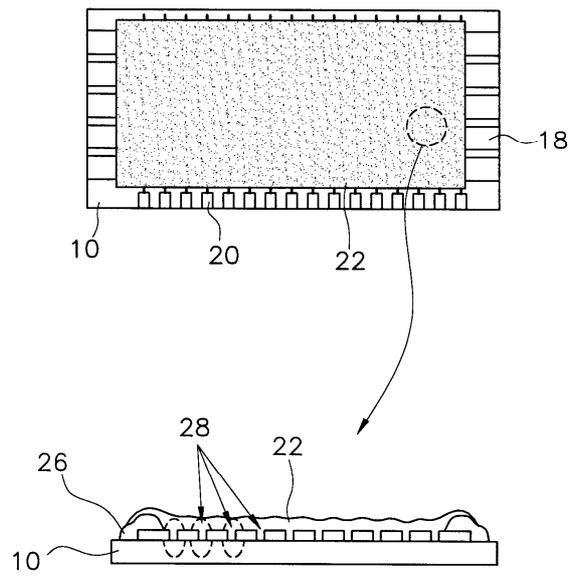
5b



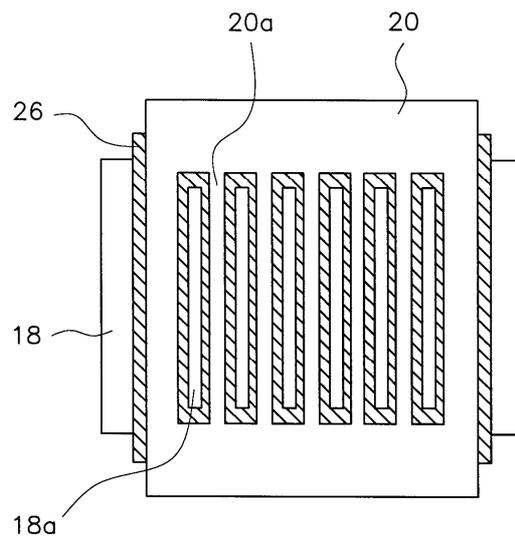
5c



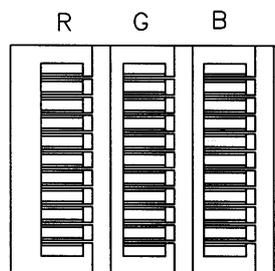
5d



6a



6b



7

