

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2001 - 0057019
2001 07 04

(21) 10 - 1999 - 0058742
(22) 1999 12 17

(71) .
,
20

(72) 2 103 202
141 - 113 310 304
484 - 5 105 301

(74)
:

(54)

, , ,
, , ,
, , ,
2 1
, , ,
, 1 2 2 가
, , ,
2

1a 1d

2

3a 3d

< >

31 : 33 :

35 : 37 :

39 :

41, 43 :

45 : 47 :

49, 51 : 1 2

53 :

Thin Film Transistor) (pixel) 가 (T

) 가 (matric) N x M(, N M

1a 1d

1a (11) (sputtering) (Cu) (11)
(13)

1b (11) (13) (15), (17) (19)
 (Chemical Vapor Deposition : , CVD)
 (15) (17)
 (19) N P

(19) (17) (19) (13) (15)

1c (15) (Cr), (Mo), , MoW, Mo
 Ta MoNb (Mo alloy) (19) CVD (sputtering)
 (19)

(21)(23) (15) (21)(23) (13)
 (19) (17) (17)
 (21)(23) (13)

1d (11)
 (25) (25) (acryl) (Teflon),
 (cytop), PFCB(perfluorocyclobutane) BCB(benzocyclobuten) 가

(25) (21) (27) (25)
 (27) (21) (Indium Tin Oxide : ITO)
 (Indium Zinc Oxide : IZO) (29)
 Zinc Oxide : IZO (29) (Indium Tin Oxide : ITO) (Indium
 HCl, (COOH)₂ HCl+HNO₃

(Indium Tin Oxide : ITO)
 가

(Indium Zinc Oxide : IZO)

가

2

1

2

1

2

(33) (35) (31) (31) (31) (Al) (Cu) (33)

(35) (37) (33) (37) (39) N P

(39) (Cr), (Mo), (41)(43) , MoW, MoTa MoNb

(41)(43) (39) (45) (45)

(35) (45) (45)

PFCB(perfluorocyclobutane) BCB(benzocyclobuten) 가 (Teflon), (cytop),

(45) (41) (47) (45)

(47) (41) (41) (47) (53)

(53) 1 2 (49)(51)

1 (49) (53) 가 (Indium Zinc

Oxide : IZO) 100 - 2000 2 (51) (53)

(Indium Tin Oxide : ITO) 20 - 1000

(53)

3a 3d

3a (31) (sputtering) (Cu)

(31) (33)

3b (31) (33) (35), (37) (39)
CVD (35)

(37)

(39) N P

(39) (37) (33)

(35)

3c (35) (Cr), (Mo), MoW, Mo
Ta MoNb (Mo alloy) CVD (sputtering) (39)

(39)

(35)

(41)(43)

(41)(43)

(33)

(37) (39) (37)

(41)(43)

(33)

3d (31)

(45)

(45)

(acryl)

(Teflon),

(cytop), PFCB(perfluorocyclobutane)

BCB(benzocyclobuten)

가

(45)

(43)

(47)

(45)

(47)

(41)

(Indium Zinc Oxide : IZO)

1

(49)

1

(49)

(Indium

Tin Oxide : ITO)

2

(51)

1

(49)

(Ar)

(O₂)

0 - 300SCCM

0 - 100SCCM

0.1 - 3 Pa

0.5 - 3KW

- 3

00 100 - 2000

0 - 300SCCM

0 - 100SCCM

0.1 - 3 Pa

2

(51)

(Ar)

(O₂)

20 - 1000

100 - 300

1 2 (49)(51)

(53)

(53)

1

2

(49)(51)

HCl, (COOH)₂

HCl+HNO₃

1

(49)

(53)

(53) 가

(45)

(41)(43)

2 가 1 2
, ,

가
, .

(57)

1.
, , , ,
,
,
1 2

2.
1 ,
1 (Indium Zinc Oxide : IZO)

3.
2 ,
1 100 - 2000

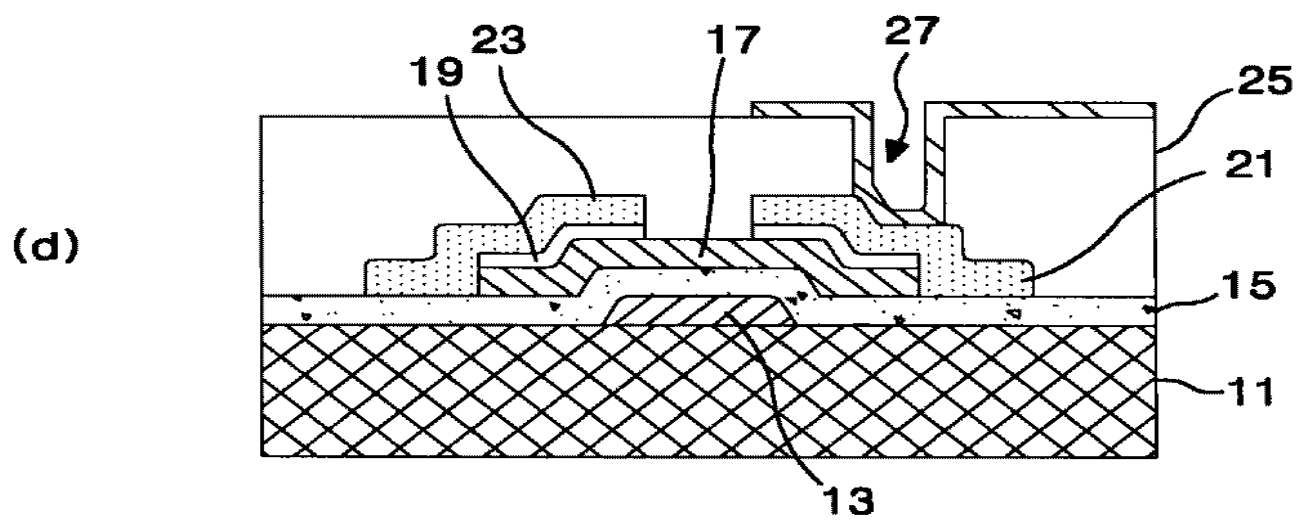
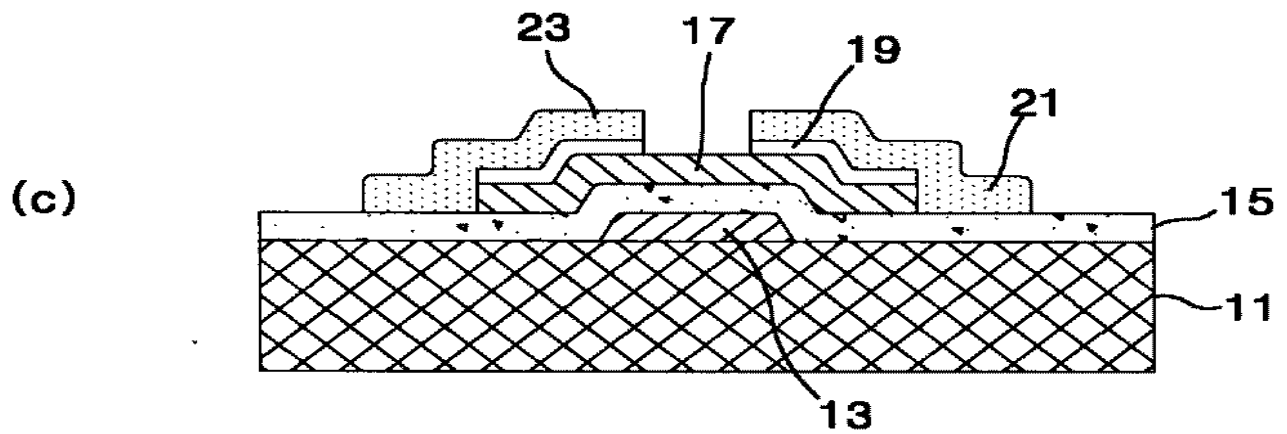
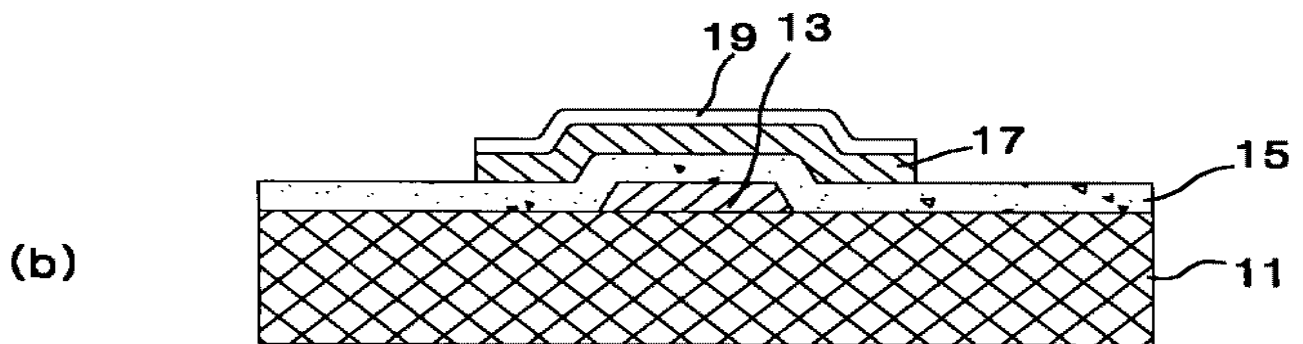
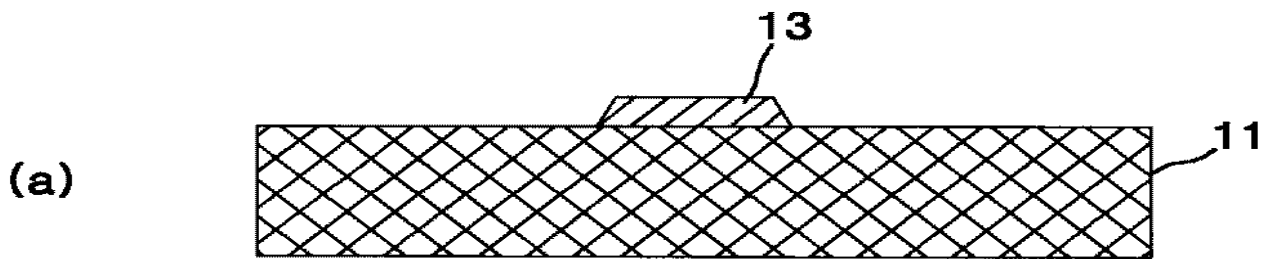
4.
1 ,
2 (Indium Tin Oxide : ITO)

5.
4 ,
2 20 - 1000

6.

2						
7.						
6						
1		(Indium Tin Oxide : ITO)				
8.						
7						
1		(Ar)	(O ₂)	0 - 300SCCM	0 - 100SCCM	0.1 - 3 Pa
0.5 - 3KW		- 300	100 - 2000			
9.						
6						
2		(Indium Zinc Oxide : IZO)				
10.						
9						
2		(Ar)	(O ₂)	0 - 300SCCM	0 - 100SCCM	0.1 - 3 Pa
0.2 - 3KW		100 - 300	20 - 1000			
11.						
6						
1	2	HCl, (COOH) ₂	HCl+HNO ₃		1	

1



2

