

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

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

1

2

2

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

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

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

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

(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)

(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 0.2 - 3KW (Ar) (O₂)
20 - 1000 100 - 300

1 2 (49)(51) (53) 1 2 (49)(51) HCl, (COOH)₂ (53)
(53) 가 1 (49) HCl+HNO₃
(45) (41)(43) (53)

2 가 1 2

가

(57)

1.

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1

2

2.

1 ,

1 (Indium Zinc Oxide : IZO)

3.

2 ,

1 100 - 2000

4.

1 ,

2 (Indium Tin Oxide : ITO)

5.

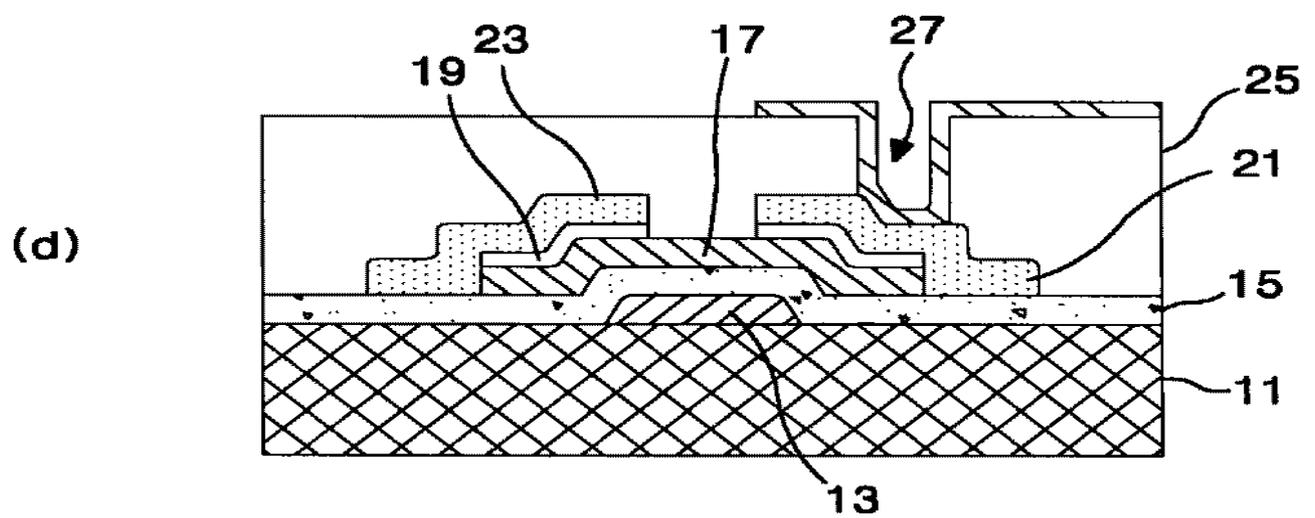
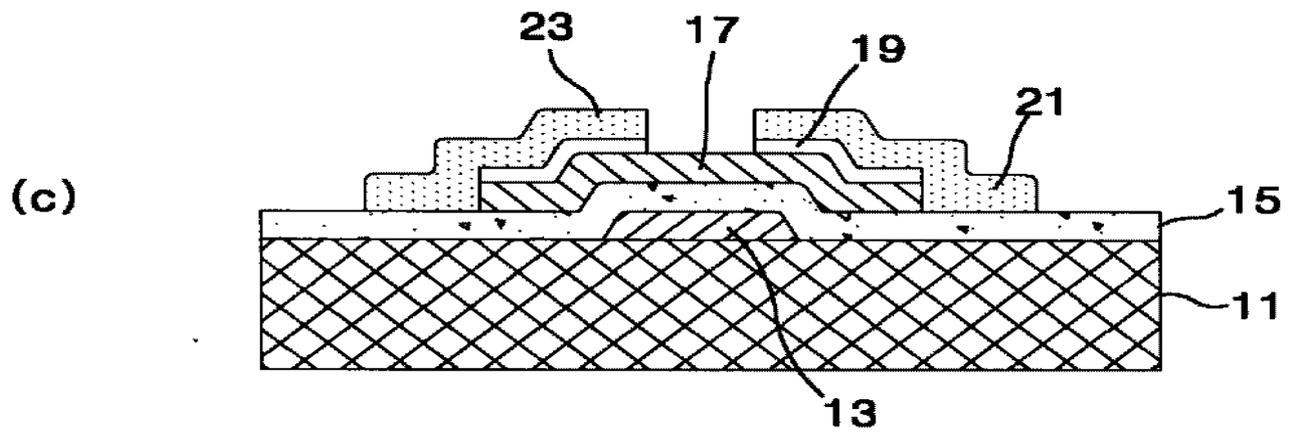
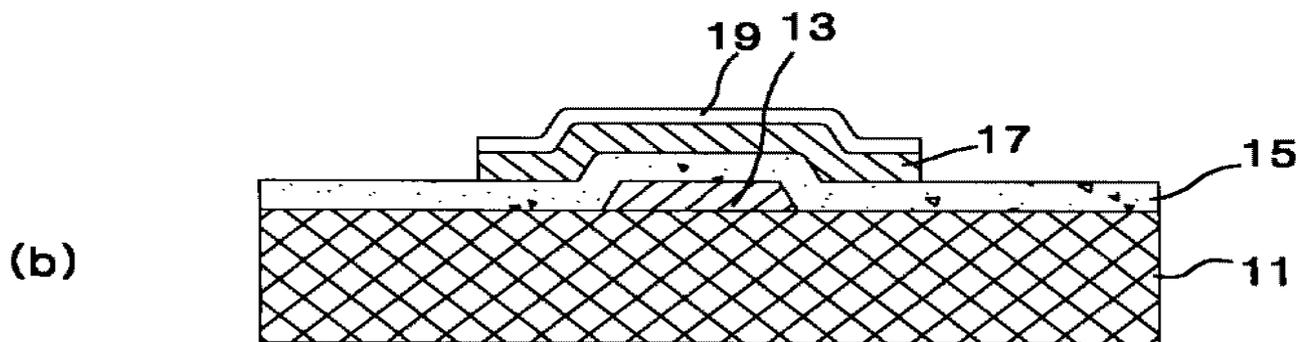
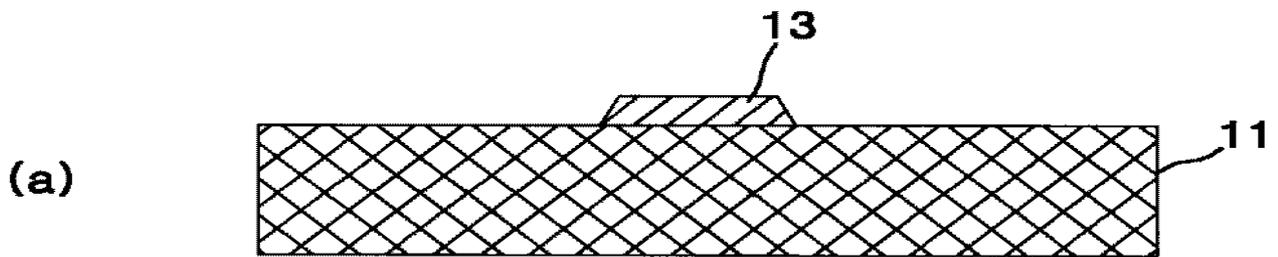
4 ,

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

