

(19)
(12)

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(A)

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2002 - 0061891
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(54)

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4
1 ,

2

3a 3f 2 - `

4

5

6a 6f 4 - `

< >

111 : 117a :

125 : 127 :

128 : 132 :

133 : 135 :

가

가

가

가가

(Active Matrix LCD : AM - LCD)가

가

1

(14) (T) (18) (6) (5) (22) (P) (5) (22) (8) (7) (17) (5) (22)

(22) (T)가 (matrix type) (13) (15)

(P) (17) - - (13) (15) (indium - tin - oxide : ITO) (P)

가 (17) (14) (14) (T)

, 2

ansistor)(T) (22) (P) (thin film tr
(pixel electrode)(17)

(T) (32) (33) (35) (active layer)(34)
(33) (27) (32) (27)

(P) (25)

(35) (P) (17)

(27) (28) (27)

, 3a 3f

3a 3f 2 -`

3a (22) 1 (2 25)
(32)

(32) (22) (41) (a - Si:H) (45a)
(n+a - Si:H) (47a)

3b (45a) (47a)
(45b) (47b)

(2 125) (45b)
(47b)

3c

(17) (52) (22)

3d (D) , (52)가 (A) (22) (54) (alignment) (B,C) , (C) (17) .

a) (A) 가 (B,C) 가 (D) (52) .

3e , (K) (35a) .

3f , (Cu) (Al) (K) .

(17a) (33) , (28) (35) , (27) , (27) (35) .

가

(IZO), (ZNO_x), (SnO_x), (InO_x) - - (ITO) - -
 (Cu) (Al), (Ag), (Cu)

6a 6f .

6a 6f 4 - ` .

125) 6a (132) , (111) 1 , (4

1 (Al), (Cu), (W), (Cr), (Mo)

(132) (111) (141) (a - Si:H) (135a)
 (n+a - Si:H) (137a) .

6b (135b) , (137b) . ,

6c (IZO) , (137b) (111) - - (ITO) - -
 (ZNO_x), (SnO_x), (InO_x) (117) (117)
 , (139) .

(4 127) (142) (144)

6d (117) , (E) (F)

(F) (146a) 가
 (146b) .

6d 117) (E) (K) , 6e (F) , (6d 146a)가 (,

(Au), (Ag) , 6f (Al) (Cu), (1
 28) , (127) (128) .

6c 6f (127) (127)
 (133) , (117) (135)

(135) (117a) (K) (128) .

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(57)

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2.

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(IZO),

(ZNO_x),

(SnO_x),

(InO_x)

(ITO)

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8.

7 ,

(IZO),

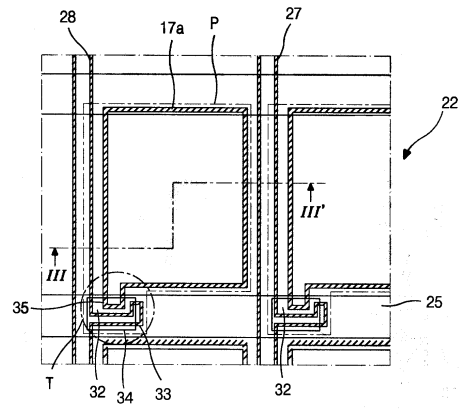
(ZNO_x),

(SnO_x),

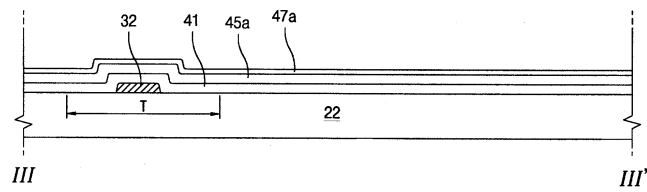
(InO_x)

(ITO)

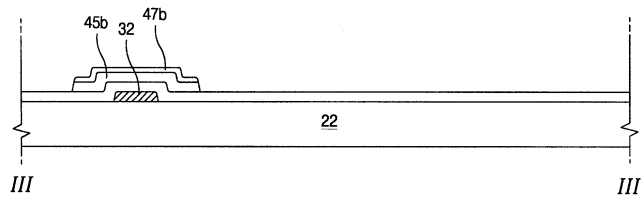
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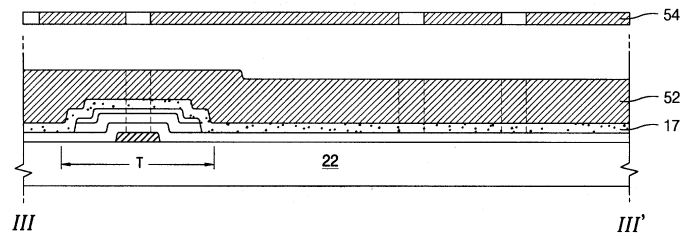
3a



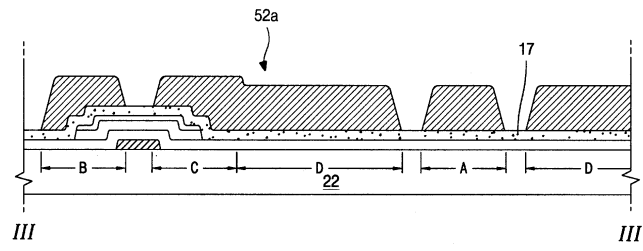
3b



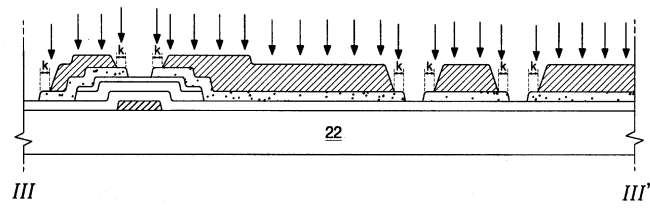
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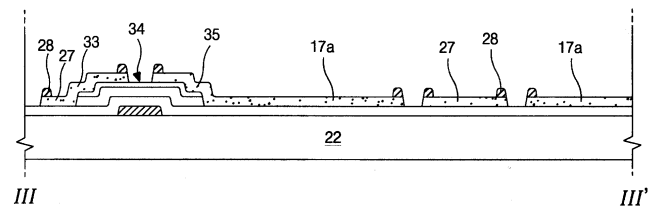
3d



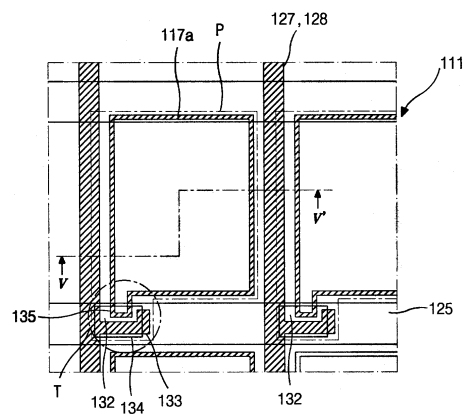
3e



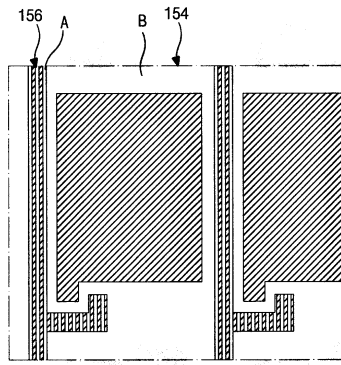
3f



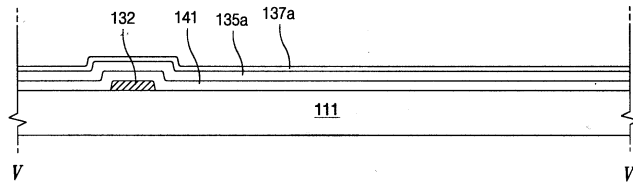
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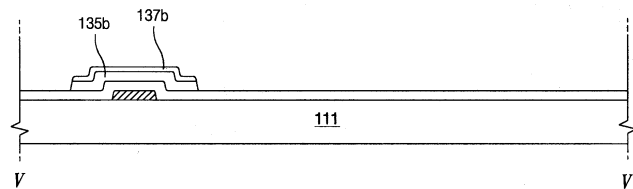
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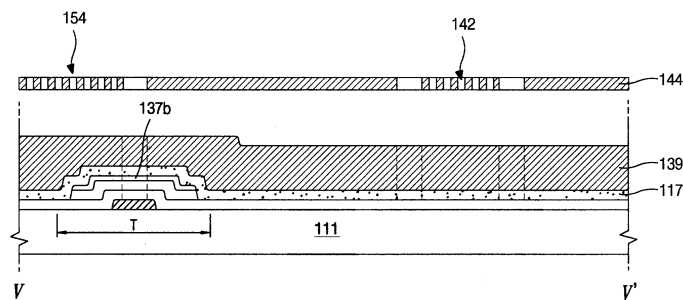
6a



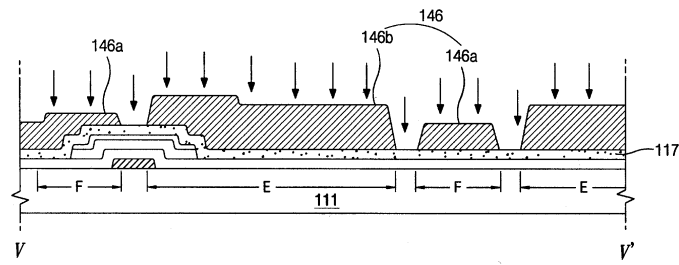
6b



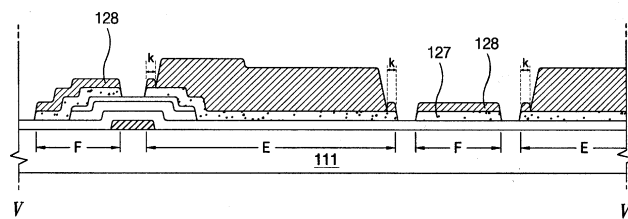
6c



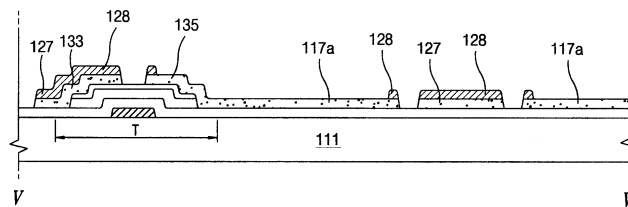
6d



6e



6f



专利名称(译)	用于液晶显示装置的阵列基板及其制造方法		
公开(公告)号	KR1020020061891A	公开(公告)日	2002-07-25
申请号	KR1020010002971	申请日	2001-01-18
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	CHOI BYEONG DAE		
发明人	CHOI,BYEONG DAE		
IPC分类号	G02F1/1368 G02F1/136 G02F1/1362 H01L21/336 H01L29/423 H01L29/786 G03F7/20 H01L21/3213 H01L29/43 H01L21/28 G02F1/1343 G02F1/1345 H01L29/49		
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其他公开文献	KR100750872B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种在数据线上形成低电阻率金属膜的方法，特别是降低了电阻，数据线和像素电极形成透明电极，作为由基膜制成的液晶显示器阵列基板的形成方法处理。***，在干蚀刻数据线的过程中，过度蚀刻光致抗蚀剂，并且在暴露的数据线的微区域中进行低电阻金属电镀，并且数据线的电阻降低。但是对于这种方法，电镀金属的面积很小。使用数据线作为低电阻布线是困难的。在图案化数据线的过程中，可以在数据线的前侧使用衍射曝光模式形成低电阻率金属膜。

