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2002 02 20

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10 - 2000 - 0045990
2000 08 08

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(72)

401

103 1108

55 - 105 5/5

642 - 3 LG Philips LCD

642 - 3

104 - 601

642 - 3 LG Philips LCD

(74)

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(54)

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.

4

1

2

3a

3e

2

- , - , -

4

5a

5d

4

- , - , -

<

>

113 :

115 :

133 : 1

135 :

137 : 2

138 :

139 :

140 :

141 :

153 :

155 :

가 가

가

(Active Matrix LCD : AM - LCD)가

가

1

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

(22) , (T)가 (matrix type)
 , 가 (13) (15)

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

(17) (14) (T)
 가 (14)

(13) (T) 1 ,
 (15) (T) 2

2 4

(22) (P) , (thin film tr
 ansistor)(T) (pixel electrode)(17) (storage capacitor)(C)

(T) (26) (28) (30) (active layer)(33)
 (28) (15) (26) (15)
 (P) (13)

(13) (38)가 , (15)
 (40)가

(13) (15)

(38) (40)
 1 (31) 1 (33)
 2 (35) 2 (37)

(22)

(15) (41) 1 (,33) 2
 (35,37)

A

, (39,41) (13,15) 가 ,
 ,
 .

, 3a 3e .(4
 .)

3a 3e 2 - - - .

3a 1 , 1 (13) (26)
 (38) .

, (13) 1 (33) 2
 (2 37) ,
 (31) 2 (35) .

, 3b , (13) (22) (43)
 (45`) (47`) 2 (28`) .

3c 2 , 2 (28`) (26)
 (43) , (38) 1, 2 (33, 2 37)
 2 .

, 2 (28`) (22) (51)
 .

3d 3 , (51) (3b 45`) (13)
 (28) (30) (13) (2 P)
 , (40)가 .

, (40) (38) (55) , (33) (53)
 (57) .

, 3e 4 , (51) (22)
 , (30) (2 P) (17) ,
 (55) (41) ,
 (53) (57) (15) (31)
 (39) .

,
 ,

B C .

B C (40) (38) (40) (38) , (43)
 (40) (38, 41)

, (39,41) (40,38) (L)가 ,

,

ITO IZO

4

$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{4}$ (113)
 $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{4}$ (115)

(T)

(113) (138) (115)

(140)

1, 1, (133) 2, (137), (113)
 1 () 2 (135) .

, 1 (133) 2 (137) (126)
 .

, (153) (140) 가
 (115) (139) (140) 1 2 (133,137)
 .

, (138) (138) (155) 가
 (113) (141) .

, 1 2
 .

, (133,135,137)
 .

, 5a 5d .

5a 5d 4 - , - , - .

5a 1, (Al), (AlNd) (Mo), (Cr)
 1 (113) (138) (113) (126)
 (113)

, (113) 1 (133) 2
 () (4 137) , 1
 () 2 (135) .

, 6b 2, (113) (122) (143)
 (145`) (147`) 2 (128`) .

, 2 (128`) (126) (145`) ,
 (138) 1, 2 (133, 4 137) 1, 2 ()
 4 131, 133) .

5c 3, 2 (128`) (122)
 (151) .

(151) (4 145`) (128) (13
 0) (113) (2 P) (115) , (115)
 (140) .

, (140)
 (153) (157) (138) (155) , (133)
 .
 ,
 ,
 , 5d 4 (151) (122) - - (in
 dum - tin - oxide : ITO) - - (indium - zinc - oxide : ITO)
 , (130) (4 P) (117) ,
 (155) (138) (141) , (1
 53) (157) (139) .

C D
 C D (140) (138)
 (I+ α) (143)
 ,
 ,
 4 ,

,
 , 가 .
 (57)

1.

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 , ;
 ;
 , 1 ,
 2 1 ,
 1 , 2
 ;

1, 2

;

2.

1 ,

1 2 , , ,

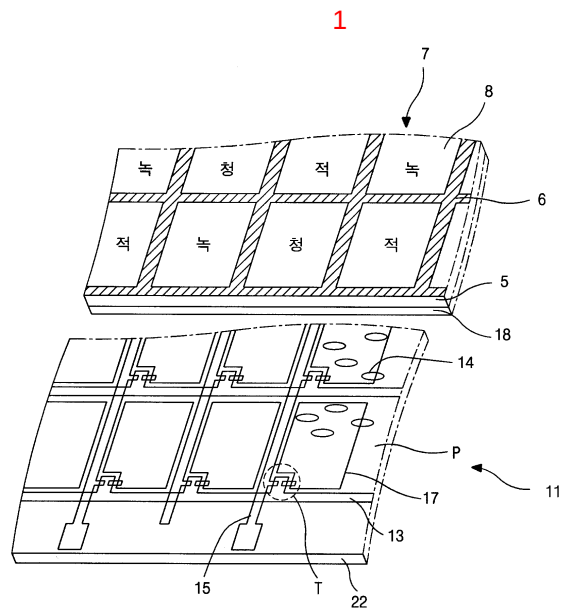
3.

1 ,

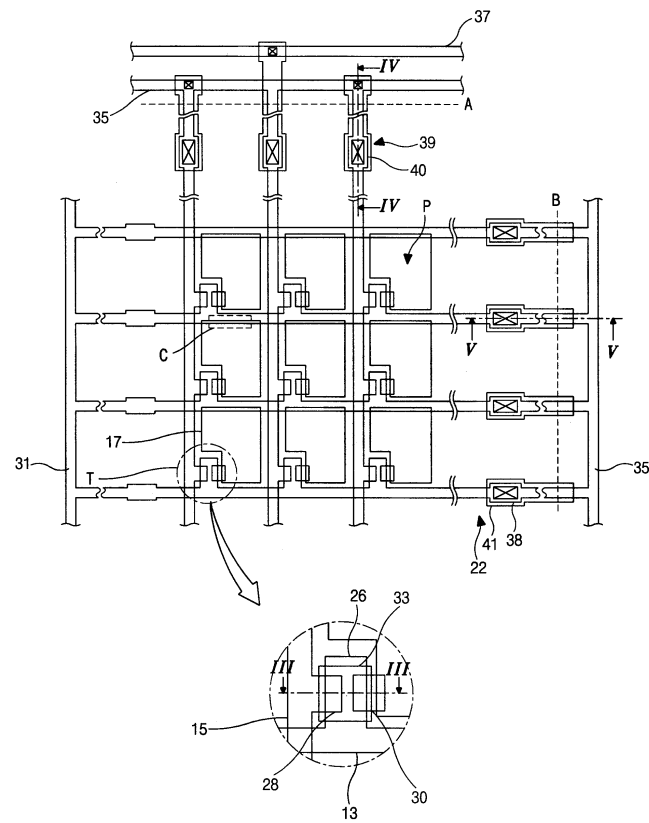
4.

1 ,

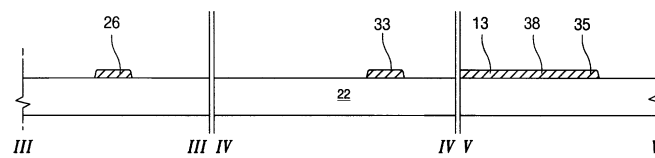
ITO IZO



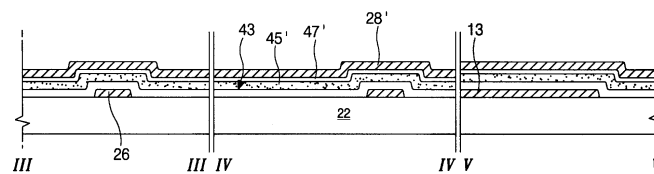
2



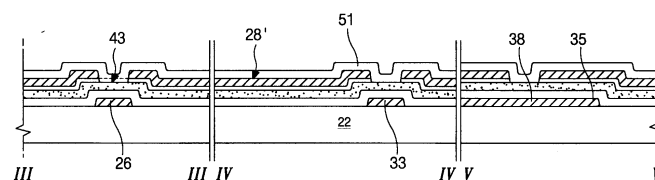
3a



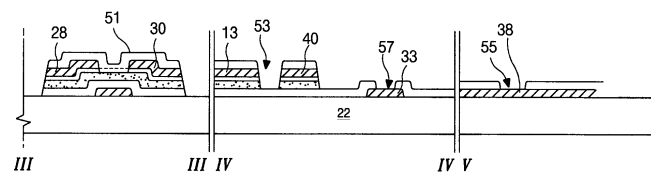
3b



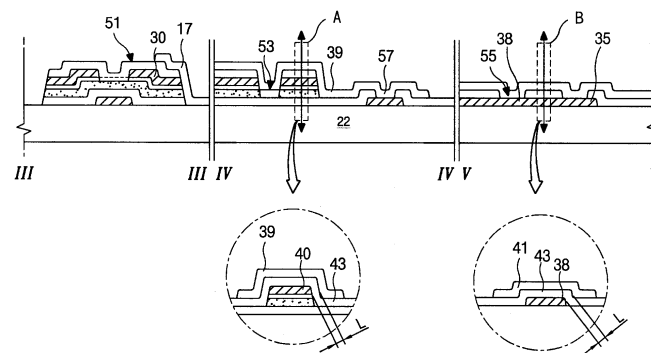
3c



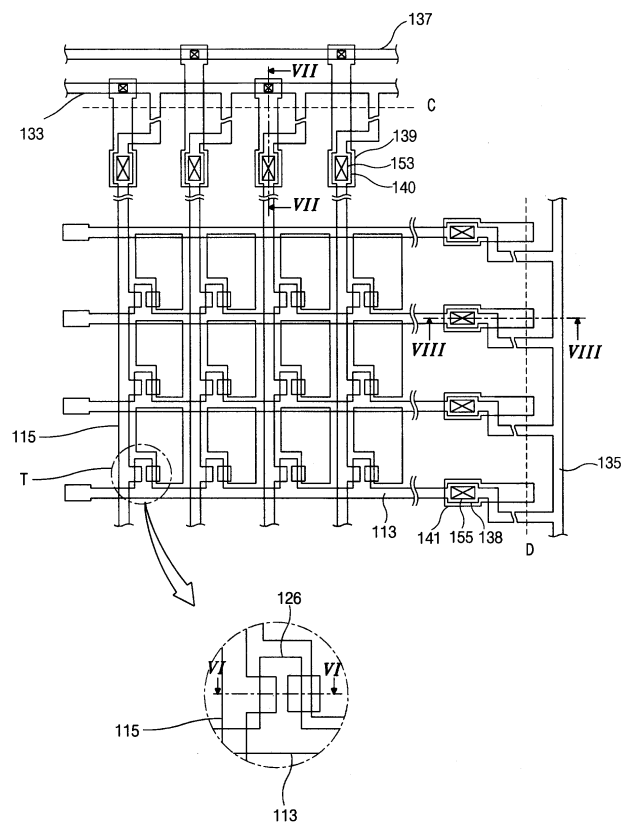
3d



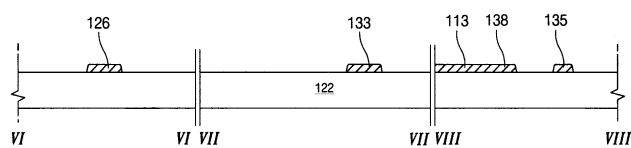
3e



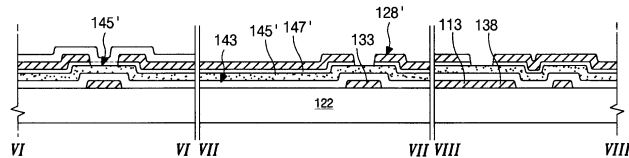
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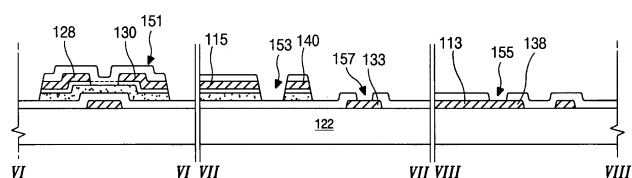
5a



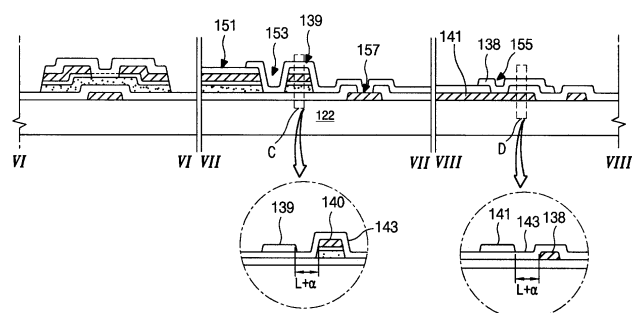
5b



5c



5d



专利名称(译)	用于液晶显示装置的阵列基板及其制造方法		
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当前申请(专利权)人(译)	LG显示器有限公司		
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IPC分类号	G02F1/136		
其他公开文献	KR100621533B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种用于液晶显示器的阵列基板，特别是，用于防止由于阵列基板制造过程中产生的静电引起的布线的断开或短路，本发明涉及一种用于液晶显示装置的阵列基板，更具体地说，涉及一种阵列基板，该阵列基板具有防止由于在用于连接短路的像素电极之间发生的化学和电反应而导致的布线断开的结构。可以制造没有缺陷的液晶显示装置。

- 1 - 4

