

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2002 - 0034449
2002 05 09

(21)
(22)

10 - 2000 - 0064740
2000 11 01

(71)

20

(72)

282 - 2101 - 401
1145640 - 1204
306 - 1101
1521 - 106

(74)

:

(54)

가

1 ,
 2 ,
 3 ,
 4a 4d 3 - ' - ' - ' ,
 5a 5f , 3 - ' - ' - ' .

< >

163 : 166 : 1

168 : 2 165 :

166 :

(liquid crystal display device) ,
 (Transflective liquid crystal display device) .

(backlight) ,
 (power consumption) .

1 .

(13) , (11) (16) (17)
 (19) (15) , (P) (A) (C)가 (21)
 (T) (21) (15) (21)
 (23) .

2 .

, (11) (13) (15) , (A)
 (19b) (19a) (19) (21) , (15)
 (21) (23) , (21) (41) .

(11) (reflective mode)

5) (B) (19b) (13) (1)
 (23) (23) (B) (Image)

(Transmission mode) (21) (4)
 1) (F) (41) (19a) (23)
 (19a) (13) (23)
 (41)

3

(22) (T)가 (matrix type)
 가 (25) (27)

(P) (25) (27)

(25) (S)

(25) (27) (29)
 (31)가

(T) (32) (33) (35)
 (34)

(P) (19)
 (A) (B)

(介在)

4a 4d 3

4a 4d 3 - 、 - 、 - 、

4a (21) (32) (25)
 (29) (43)

(32) (43) (a - Si)
 (45) (active layer) (n+a - Si:H) (47) (ohmic contact lay
 er)

(47) (33) (35) (33)
 (3 27) (42)

9) , (3 P) (25) / (4

1 , 4b , (3 27) (21)

1 (51) .

1 (51) (35) 1 (53) ,

1 (55) .

1 / (49) 1 (57) , (29)

(42) 1 (59) 1 (61) .

1 (51) ITO IZO ,

1 (53) (35) (3 P)

(25) 1 (57) / (49)

(63) .

1 (63) / (49) 2 ,

1 (25) (3 S) .

1 , 1 (59) (29) (65) ,

1 (61) (42) (67)

1 .

4c , (21) 2 (69)

1 (35) (63) 2 (53`) , 1

(4b 57) 2 (69) 2 (57`) .

2 (69) (Al) (AlNd)

2 (53`) (63) (55) , (57`)

/ (49) (71) 2 .

1 , 4d , 2 (69) , (65)

(67) 2 (59`) 2 (61`) .

1 .

(43) , (3 P) (3 A) 1 (51)

(3 A) (B)

1 , (63) (71) 2 (69)

(71) (63) (71)

1 .

가 가 (galvanic corrosion) , , .

가 가 .

2 (69)

(71) (65) (67)
가 .

(65,67)

가 .

(pin hole)

가 .

1 2 ;
가 ;
1 1 ;
1 1 ;
2 2 ;
2 (Mo) 1 ;
2 2 1 2 1 ;
2 1 1

- - (indium - tin - oxide) - - (indium - zinc - oxide)

(Ti)/ (AlNd) (Mo)/ (Al)

5a 5f .(100 .)

9) 가 , (Ti))/ (111) (AlNd) (132) (132a,132b) (125) (12

(132) RC (delay)

hillock) , 가 (

2 (Ti) , (

5b (SiO₂) , (125) (111) (SiN_x) (BCB) (Acryl) (resin) (143)

(132) (143) (a - Si:H) (145)(active layer) (n+a - Si:H) (147)(ohmic cont act layer)

(147) (Cr) (133) (135) , (133) (142) ()

(132) (125) (etchant)

(133) (135) (P) (125) / (149)

5c 1 (151) , (125) (111)

1 (151) (135) 1 (153) , (A) (155)

/ (149) (157) , (129) (142) 1 (159) 1 (161)

1 (151) ITO IZO ITZO (153) (135) (3 P) (125) 1 (157) / (1

49) (163)

(163) / (149) 2 , 1 (3 S)

1 (159) (129) (165) ,
 1 (161) (142) (167)
 .

5d (163) (165) (167)
 (111) (SiN_x) (SiO₂)
 2 (169) .

2 (135) (163) 2
 (153`) , / (149) (163) 2
 (157') .

(165) (167) 2 (159
 `) 2 (161`) .

5e 2 (169) (Mo)
 1 (166`) 1 (AlNd)
 2 (168`) .

2 (168`) (H₃PO₄) + (CH₃COH) +
 (HNO₃)) .

5f 1 (5e 166`) 2 ( 5e 166`) 2 가 (5e 168`) (A) 가 1 (166) 2 (168) 가 .
 1 (166) 2 (168) (165)
 (167) .

2 (169)
 ,
 ,
 , (169) 가 ,
 .

가
 , 가
 가 .

(1) / (2) ,
 .

(57)

1.

;

,

;

가

•
;

1

1

1

•
;

1

2

2

2

•
,

2

1

•
;

1

2

•
;

1

2

1

2

,

,

•

2.

1

,

— —

(indium - tin - oxide)

— —

(indium - zinc - oxide)

•

3.

1

,

1

, 2

•

4.

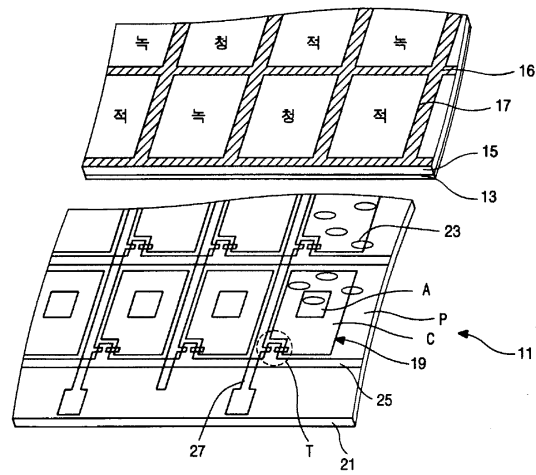
1

,

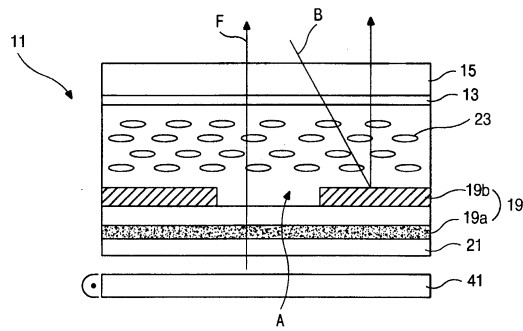
2

•

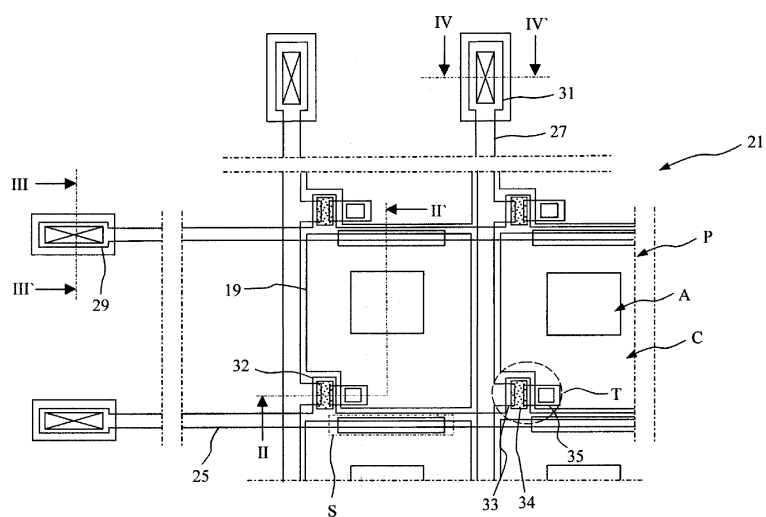
1



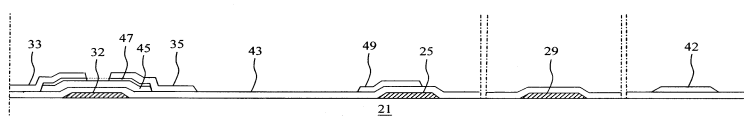
2



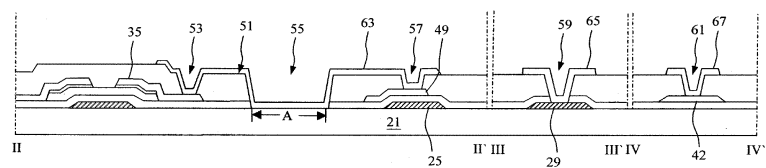
3



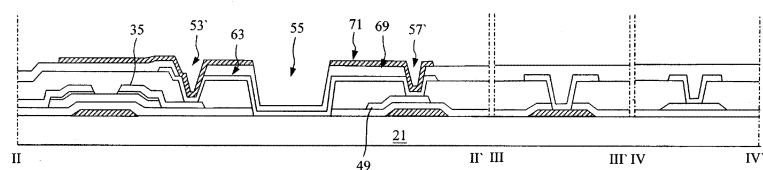
4a



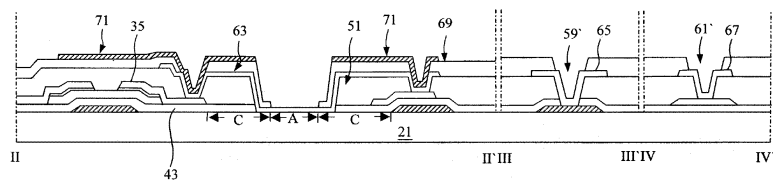
4b



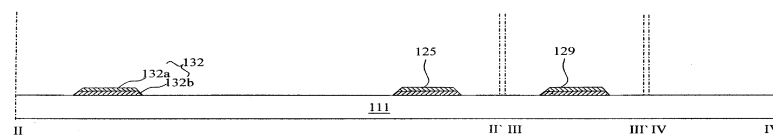
4c



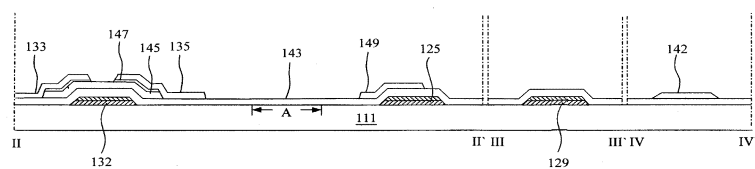
4d



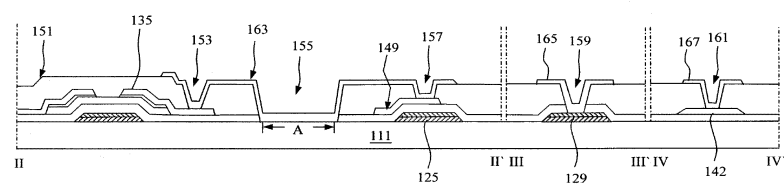
5a



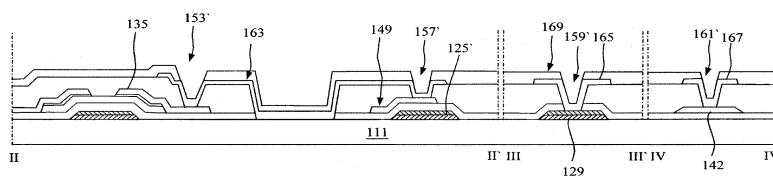
5b



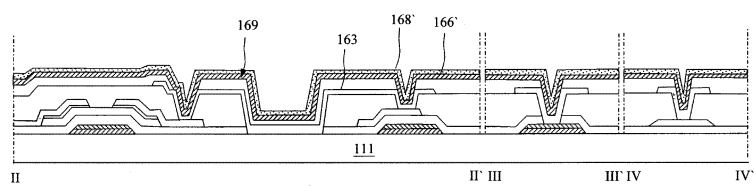
5c



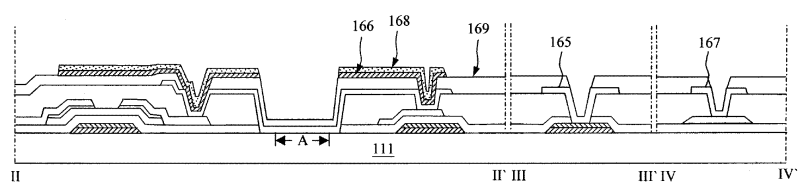
5d



5e



5f



专利名称(译)	反射型透射式液晶显示阵列基板及其制造方法		
公开(公告)号	KR1020020034449A	公开(公告)日	2002-05-09
申请号	KR1020000064740	申请日	2000-11-01
[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	KWON OH NAM 권오남 KIM WOONG KWON 김웅권 CHOI JAE BEOM 최재범 LEE KYOUNG MUK 이경목		
发明人	권오남 김웅권 최재범 이경목		
IPC分类号	G02F1/136		
其他公开文献	KR100694575B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种用于透反液晶显示器的阵列基板和制造阵列基板的方法，以防止在像素电极和反射电极之间产生电偶腐蚀。

