

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2001 - 0111672
2001 12 20

(21)
(22)

10 - 2000 - 0032247
2000 06 12

(71)

.

,

20

(72)

6

222 - 1504

494 - 423/4

(74)

:

(54)

,

,

,

,

(contact resistance)

가 .

6e

1 ,

2 ,

3 ,

4a 4f 3 - , - , - ,

5 ,

6a 6e 5 - , - , - .

< >

100 : 112 :

113 : 123 :

131 : 133 :

135 : 2 137 : 2

139 :

(transmit mode) (liquid crystal display device) , (reflect mode)
(Transflective liquid crystal display device)

(backlight) ,
(power consumption) .

1 .

(13) (11) (16) (17)
(19) (T) (P) (A) (C)가
(21) (23) (21) (15)
(21) , (T)가 (matrix type)
(25) (27) .
(P) (25) (27) .

2 .

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) (23)
 (41) (19a) (13) (23)

3

(25) (27) , (25) 가 가 ((25)
 27) (19) (25) (27) (63)
 (61) , (65) (T)가 .

(25) (27) IC() (26) (28)
 가 .

(19) (A) (C) (P) 1
 (67) (65) (19a) , (19a)
 (A) (19b) .

(19a) (65) 1 (67) (65)
 (19b) (65)
 (19a) (65) .

4a 4d 3

4a 4d 3 - , - .

4a (11) , (3 25)
 (26) (26)
 (61) .

1 (62) (+
)(64) .

4b , (4a 64) , (61)
(63) .

, 4c , (63) (11)
, (3 25) , (3 28)가
(27) , (27) (66) ,
(65) .

, (63a) .

, 1 (71) .

, 1 (71) (65) (73) ,
(26) (32) (3 28) (3 37)

, 4d , (73) 1 (71)
, (73) 1 (75) ,
(32) (26) 1 (35) , (3 37)
(3 28) 1 (3 39) .
, (3 P) (23) (3 25)
1 (19a) .(, 1
)

, 4e , 1 (75) (11)
2 (77) , (65) 2
(77) , (75) 2 (79) , (26)
(3 28) 2 (77) 2
(91) 2 () .

, 4f , 2 (79) 2 (91) 2
() (11)
, 1 (75) 2
(79) 1 (75) (65) (A)
2 (81) 2 (91) 1 (35)
(26) 2 (83) , 2 ()
1 (3 39) 2 (3 85) .

, (75) (65) ,
(75) 2 (81) 1
.

ITO

package) IC TCP IC 가 가 TCP(tape carrier
IC TCP IC 가
TCP TCP 가 (rework
) 가
TCP (misalign) 2 가
가

가
1 2 1 1 2
2 2

1

2

- - (indium - tin - oxide)

- - (Indium - Zinc - Oxide)

- - (ITO) - - (IZO)

1

2

5

(115)가 (113) , (P) (112)가 (111) (T)

(T) (111) (113) , (119) , (113) (119) (121) (123)

(P) (E) (D) 1 (117) , 2 (129)

1 (117) 2

1
가 가 .

, .

6a 6f .

6a 6e 5 - , - , - .

6a , (100) (Al), (Mo), (W),
(112)
(5 111) , (119)

, (119) (110) (SiO₂) (
SiN_x)
1 (120) (+ (a - Si))(121) .

, 6b (119)
(125) .

, 6c (125) (100) (Mo), (W),
(Cr) (5 111) 1 (120)
(113) , (5 115)가 (113)
(119) (125) (121)
(125) (123) .

en), (Acryl) (121) (123) (100) (benzocyclobut
1 (resin) (127)

, 6d 1 (127) (100) (Al)
(; AlNd)
(5 P) (D) 1 (117) .

1 (117) (5 P) (113) .

, (aperture ratio)
가 .

, 1 (127) ,
1 (117) (parasitic capacitance)

, 1 (117) (100) (SiO₂)
(SiN_x) 2 (135)
(123) (131) , (112)
(133) , (5 115) (5 116) .

6e (135) (indium zinc oxide : IZO) (indiu
 m tin oxide : ITO) (131) (123)
 (5 111) (113) (5 P) 2 (137)

(139) (133) (112) (115)
 (5 116) (5 138)

가
 .
 .)

1 2
 2

TCP 가 TCP
 TCP 가 .

(57)

1.

;

;

;

;

;

가 ;

;

1 ;

1 1 ;

1 2 ;

2 ,
 , ;
 2 ,

2.

1 ,
 .

3.

1 ,
 1 .

4.

1 ,
 2 - - (indium - tin - oxide) - - (Indium - Zinc - Oxide)
 .

5.

;
 ,
 ,
 ;
 ;
 ;
 ,
 ,
 ;
 1 ;

1 가 , 가
1 ;

2 ;

2 , , ; ,

2 , 2 1 ,
2 , 2 ,

6.

5 ,

7.

5 ,

8.

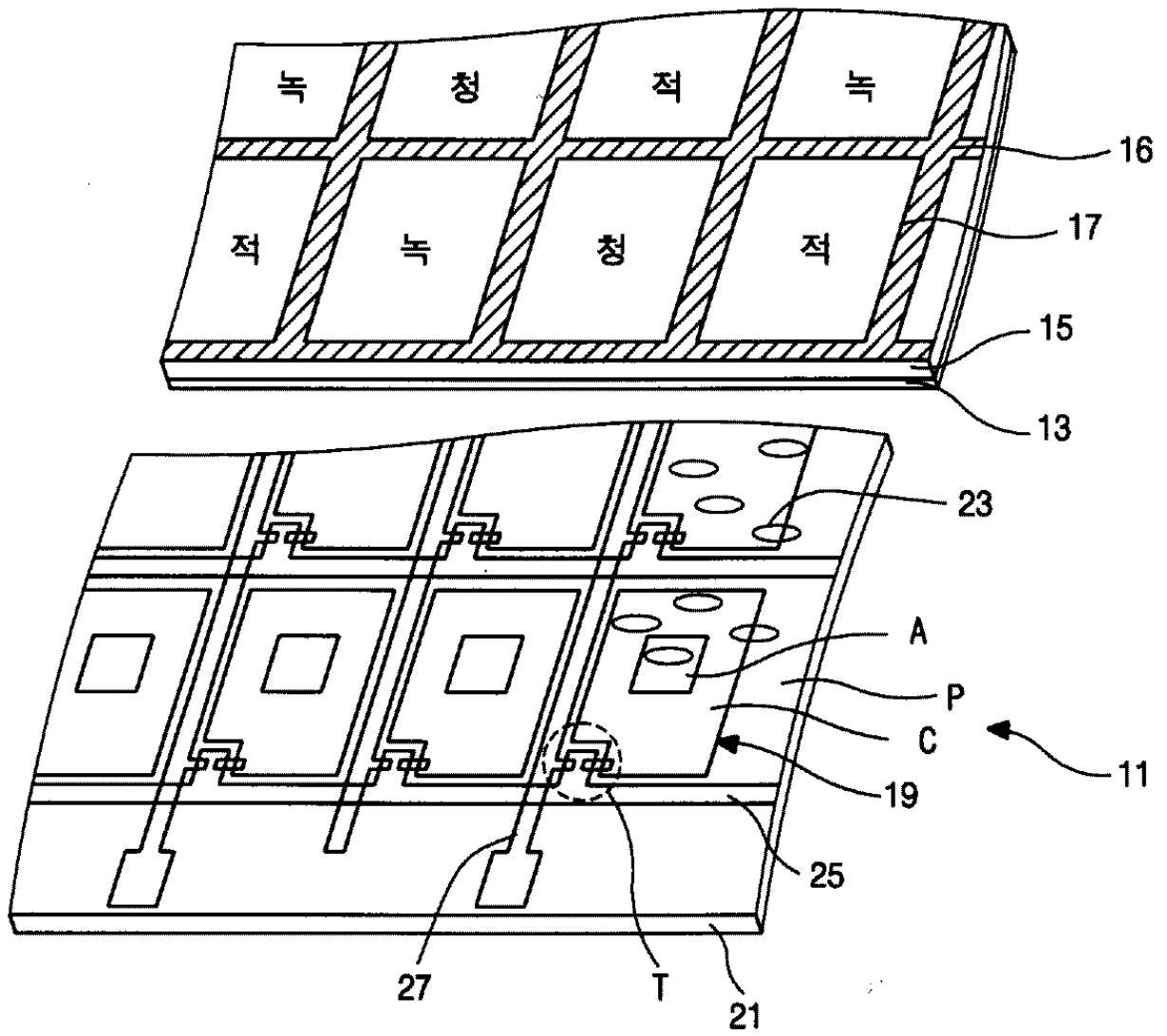
5 ,

9.

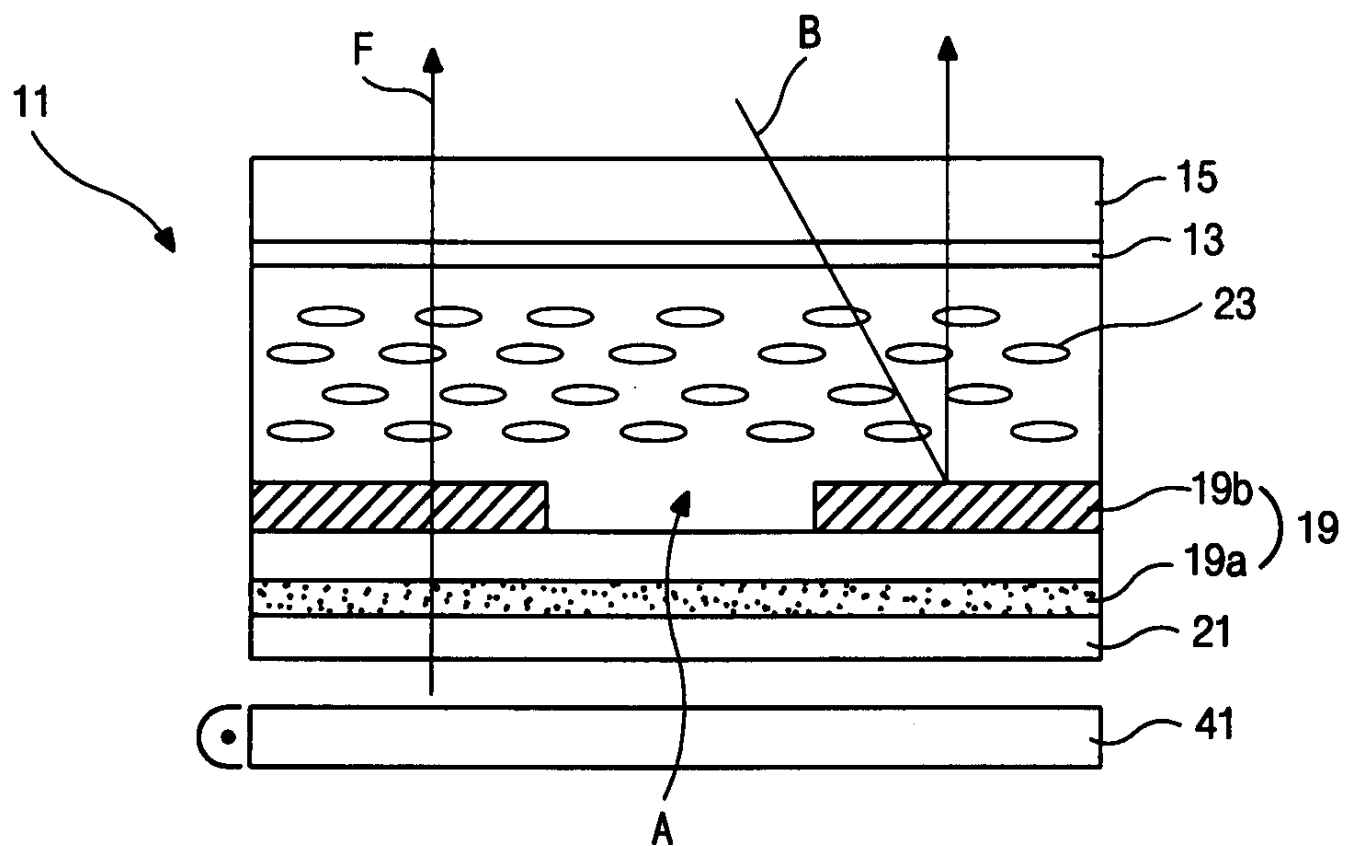
5 ,

- - (ITO) - - (IZO)

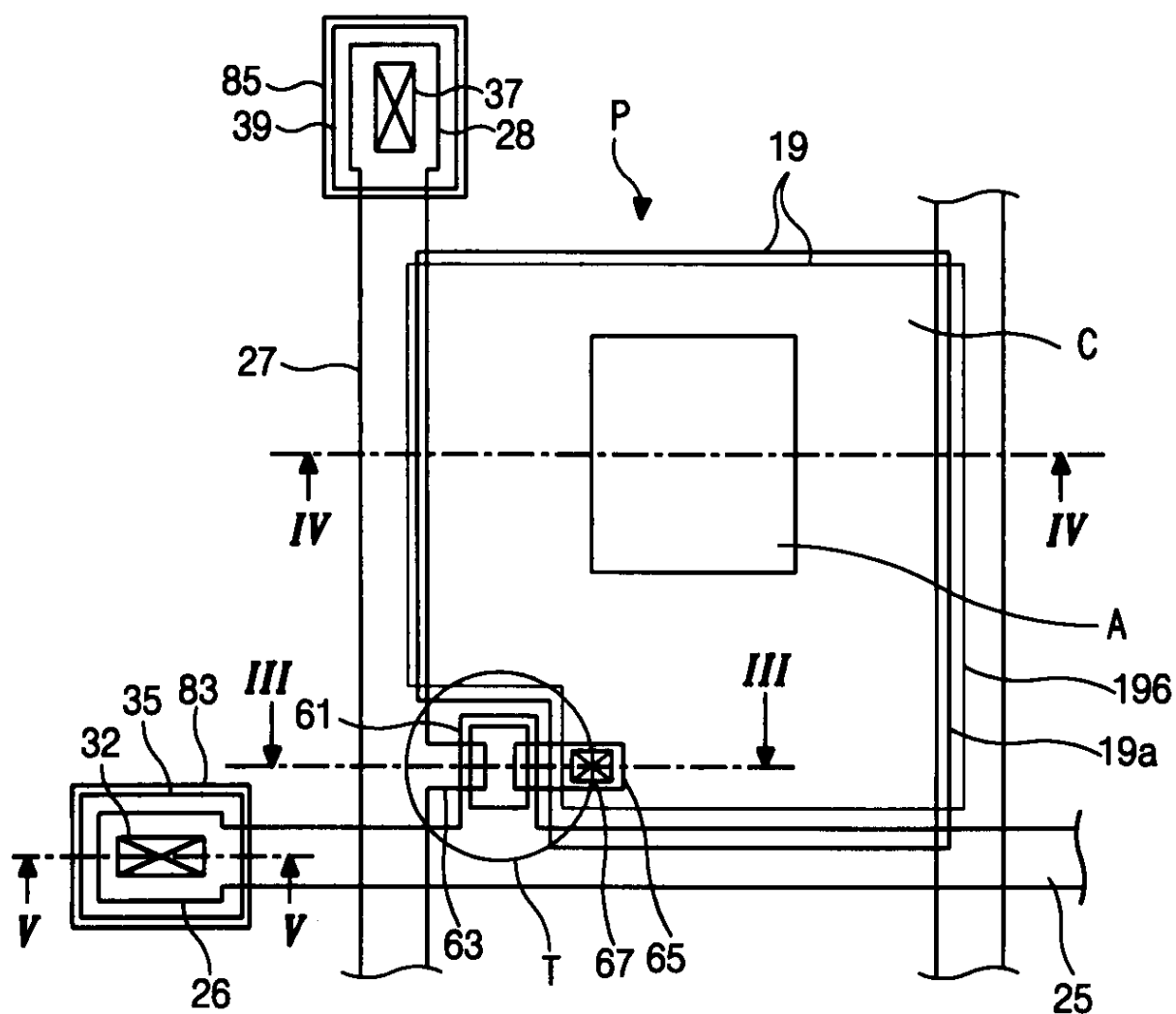
1



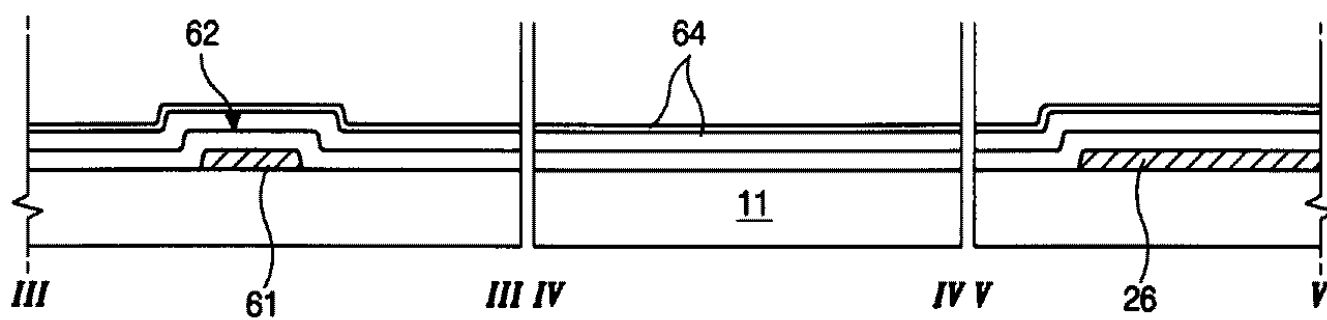
2



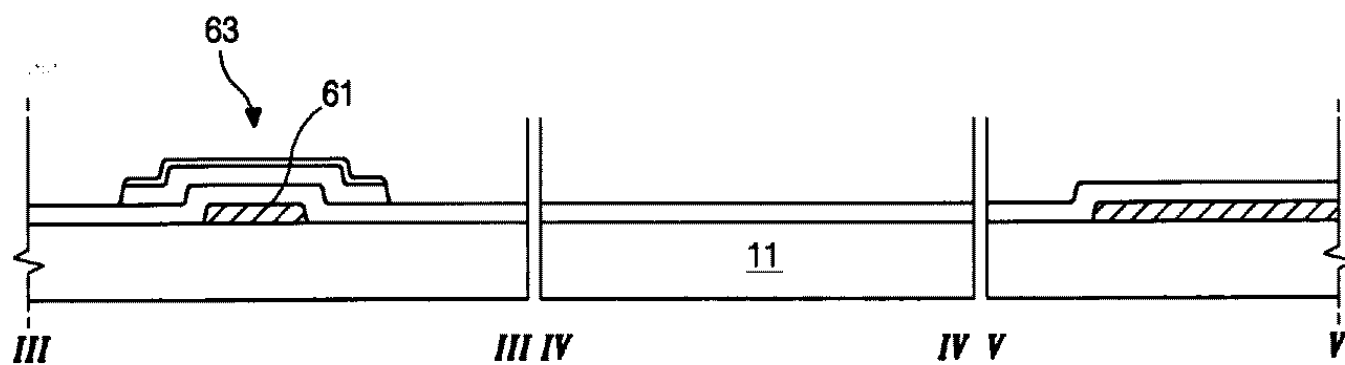
3



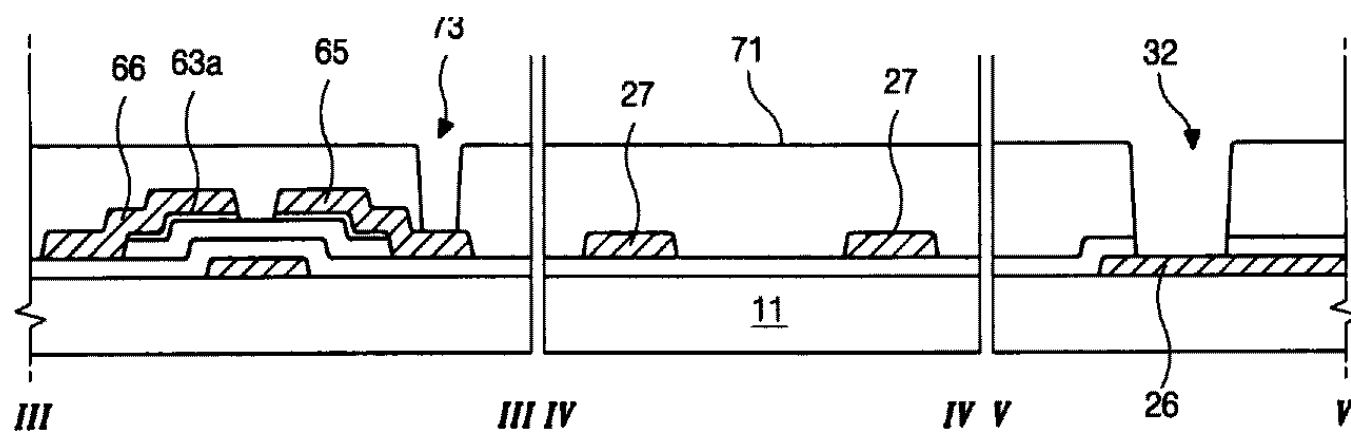
4a



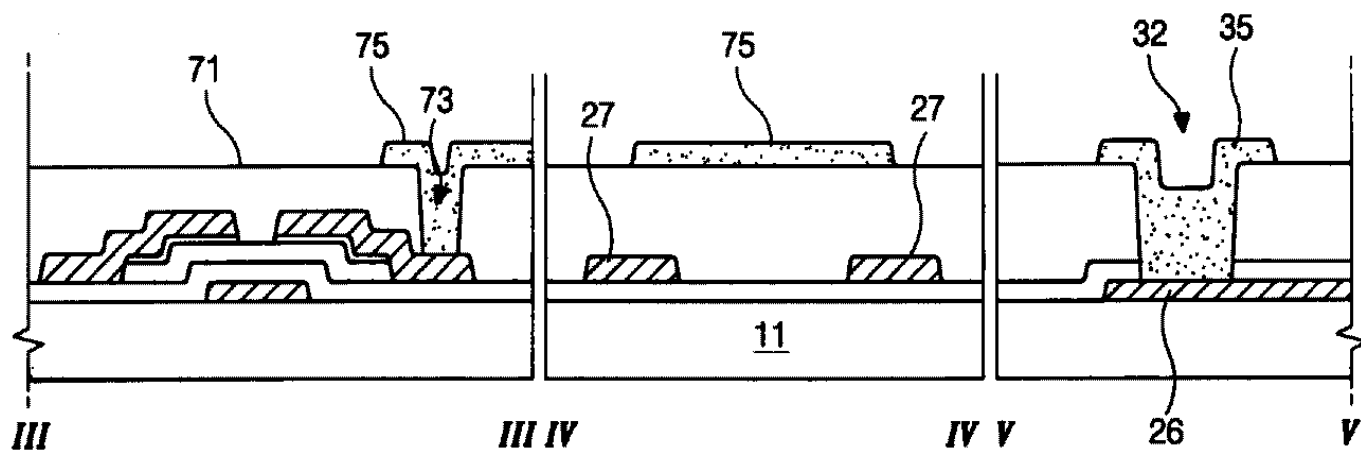
4b



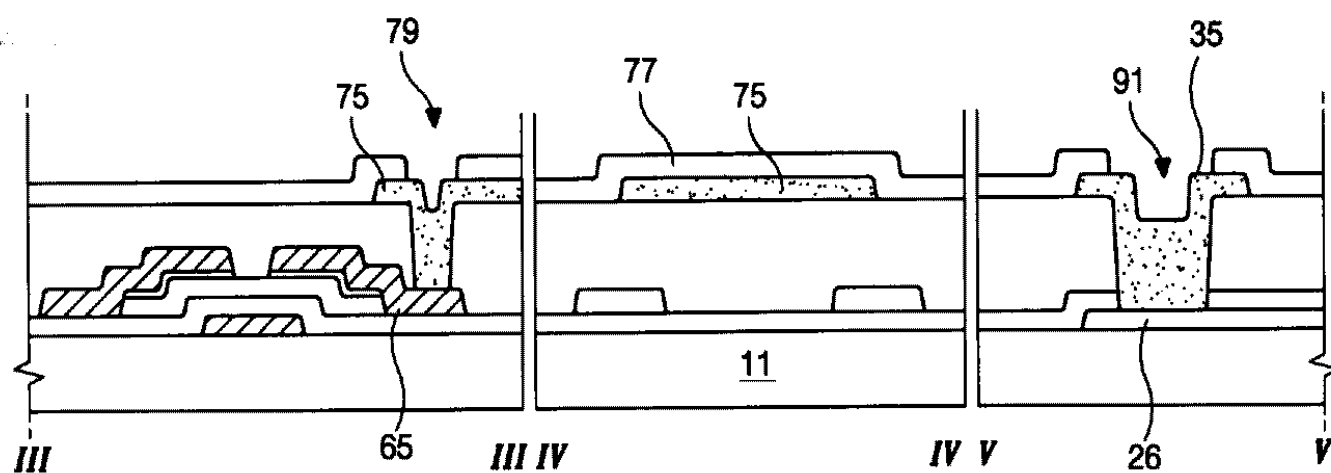
4c



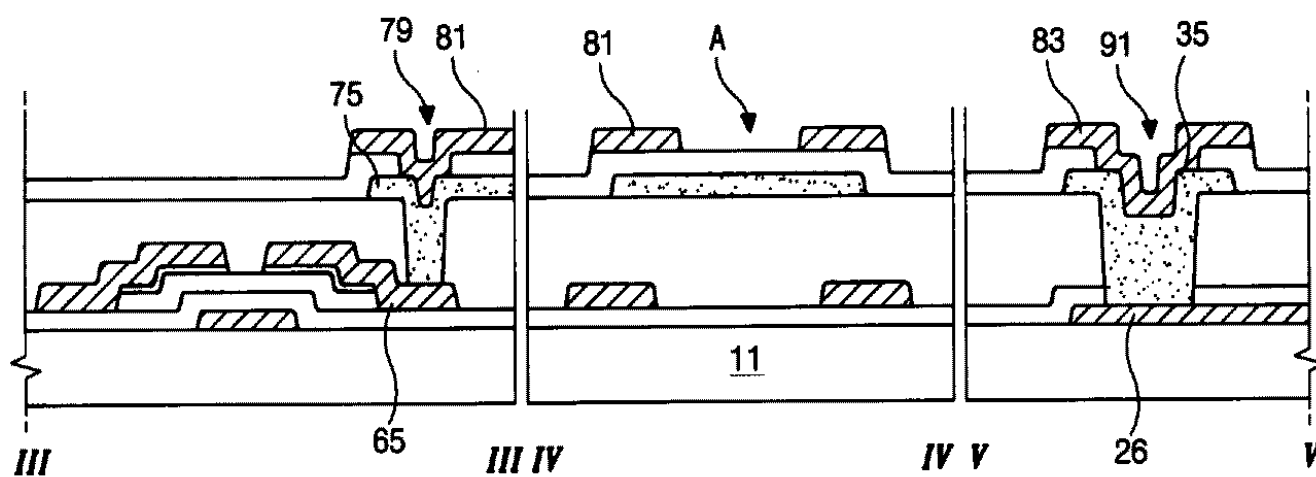
4d



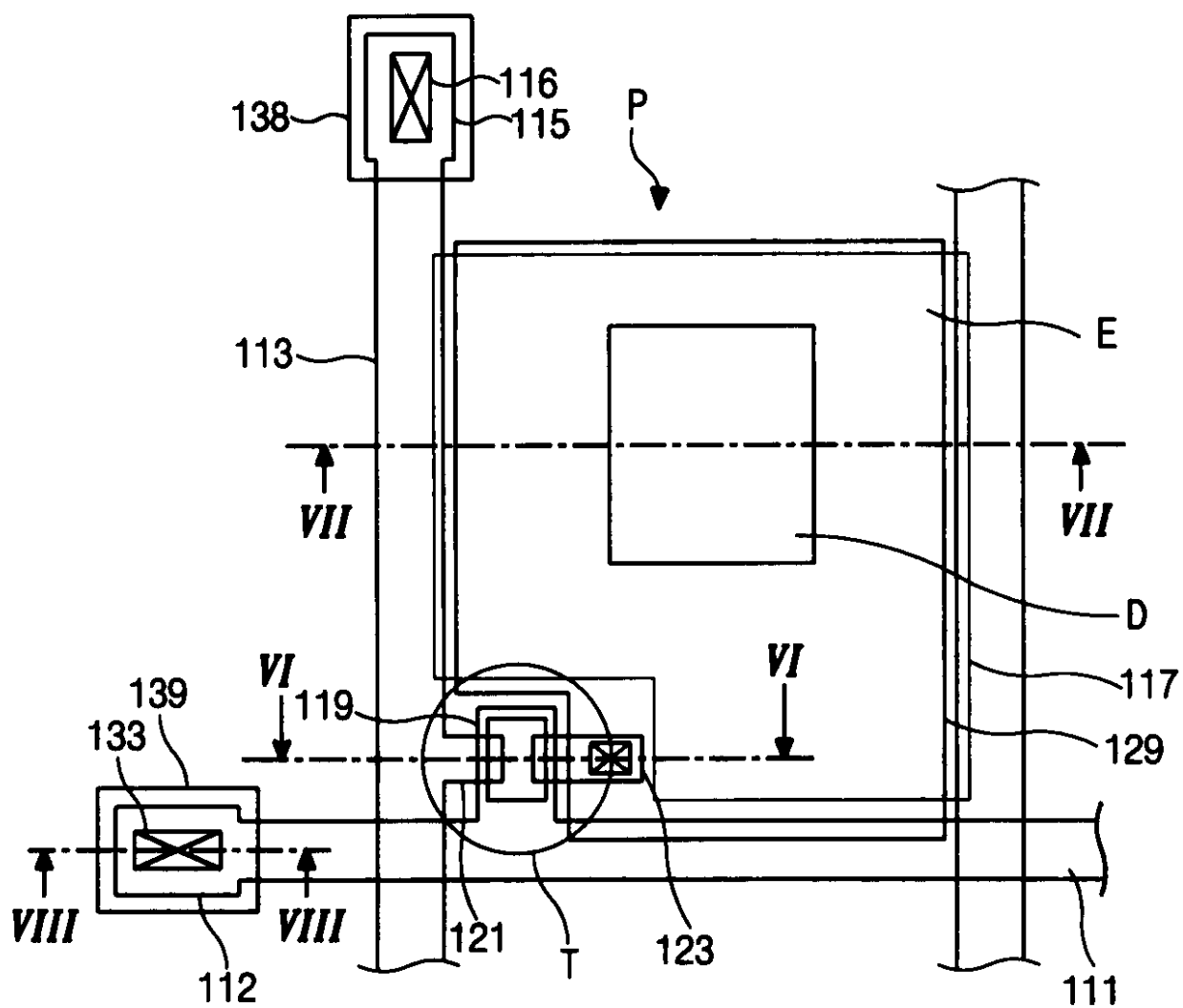
4e



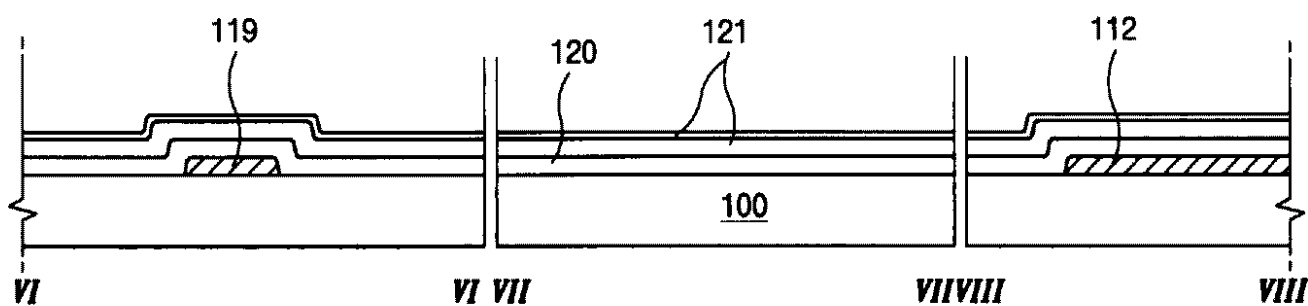
4f



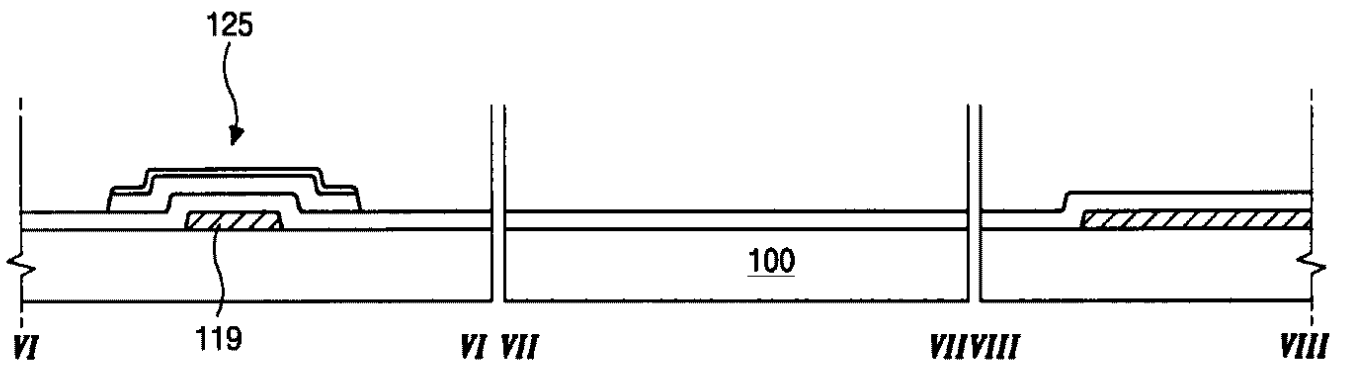
5



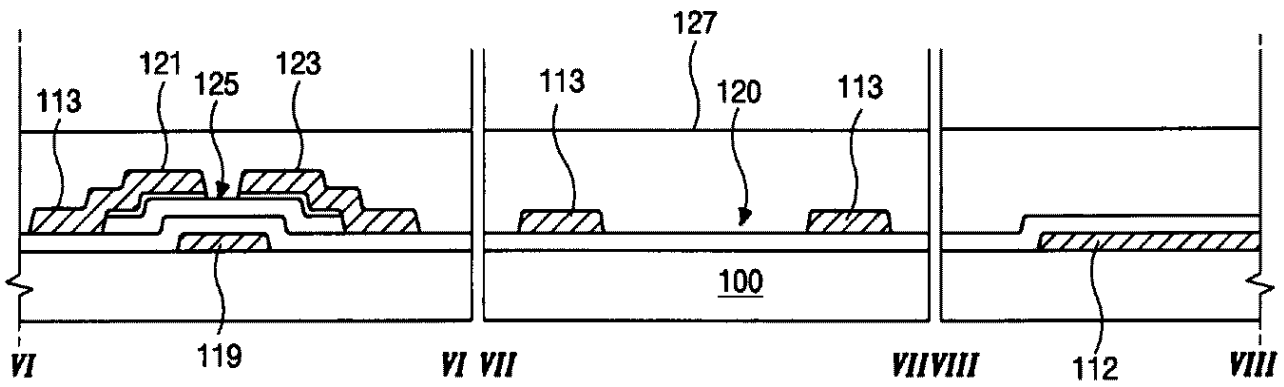
6a



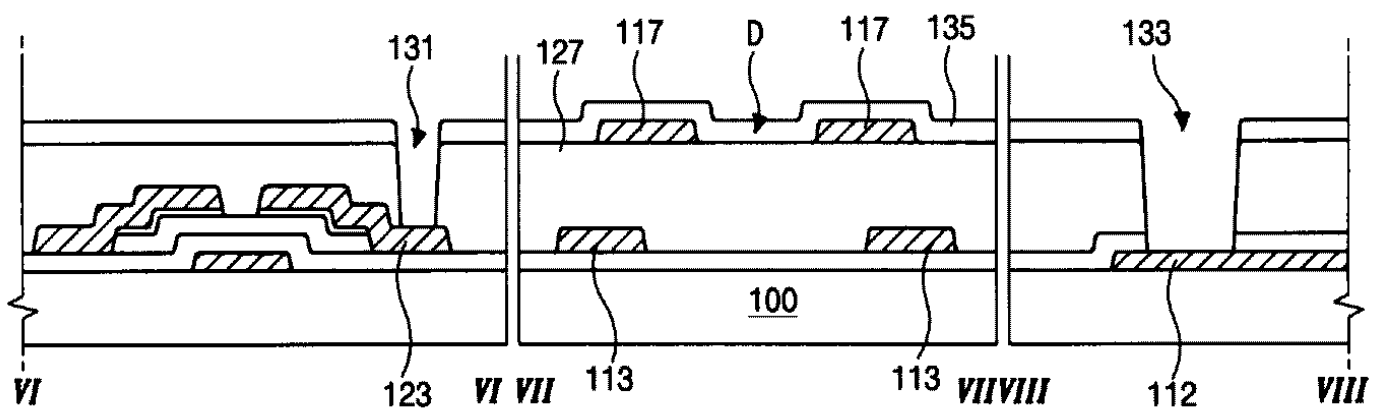
6b



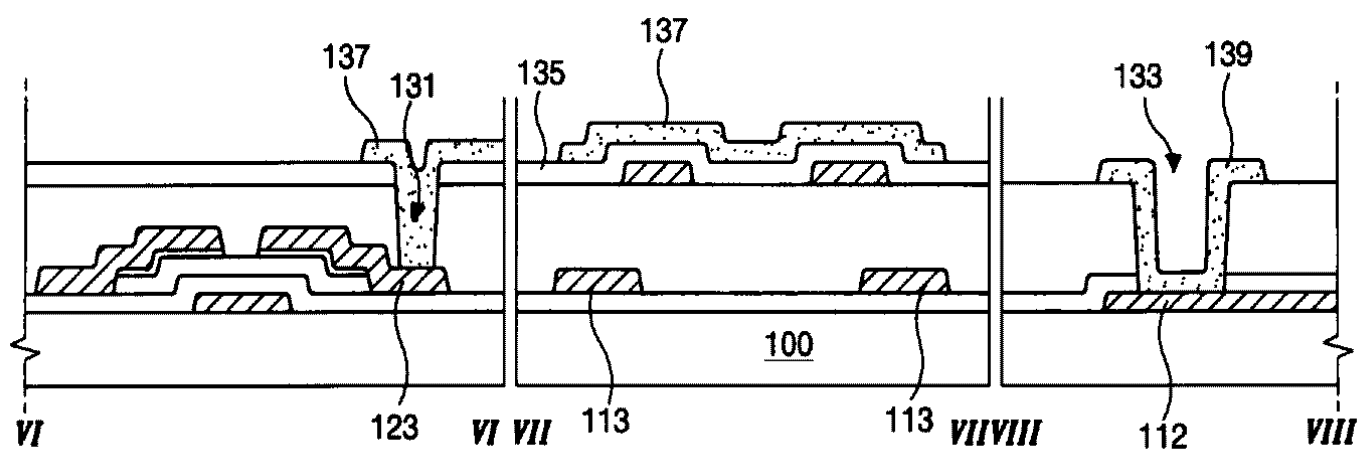
6c



6d



6e



专利名称(译)	透反射液晶显示装置的制造方法及其		
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申请号	KR1020000032247	申请日	2000-06-12
[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	CHOO KYO SEOP 추교섭 CHUNG JAE YOUNG 정재영		
发明人	추교섭 정재영		
IPC分类号	G02F1/1362 G02F1/1335 G02F1/136		
CPC分类号	G02F1/136227 G02F1/133555		
其他公开文献	KR100684577B1		
外部链接	Espacenet		

摘要(译)

透射反射型液晶显示装置本发明涉及透射反射型液晶显示装置，它涉及液晶显示器，并具有形成反射器的透明像素电极，其中首先在像素区域上形成透射孔并将绝缘层放置在形成反射器上的间隔以及它与平面重叠的间隔。它组织使得像素电极接触开关元件的漏电极。漏电极和像素电极的接触电阻降低到同时在漏电极中接触并组织反射电极和透明电极的时间，并且可以获得液晶显示器的像素化特性。

