

(19)
(12)

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(A)

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G02F 1/136

(11)
(43)

2003 - 0011984
2003 02 12

(21) 10 - 2001 - 0045799
(22) 2001 07 30

(71) .
20

(72) 111 - 1001

2 77 105 1001

(74)
:

(54)

가

가

7

1 ,

2 1 - ` , - ` , - ` ,

3 ,

4 1 ,

5a 5e 4 - , - , - ,

6 5e Q ,

7 2 ,

8a 8e 7 I - I, J - J, K - K .

< >

237 : 263 :

265 : 240 :

242 : 243 :

250 : 252 :

254 : 272 :

276 :

con TFT) (Liquid crystal display device) , (Transflective liquid crystal display device) (Poly sili .

(back light)
(power consumption)

가

1

(5) 가 , (2) (7) , (4) (6) (P) (8) (10) (P) (18) (34) , (8) (32) (4) (9) (8) (17) (6) (10) (T)가 (12) (14) (16) , (17) (T) (12) (17) (coplanar) , (18) (28) (16) (12) (6) , (14) (10) (7) 가 (P) (C) (7) (30) (18) (island) (15) (7) 가 , 2 , (17) (2) 1 (20) , (20) (17) 가 (Active channel) 1 (17a) , (17) 2 (17b,17c) , (17) (12) , (22) (12) (6) , (6) (4) (1 6) (7) , (12) (2) 3 (24) , 2 (17b,17c) (23a,23b)

(17b,17c) (23a,23b) (2) (14,16) (15) 2
(14) (8)가 (10)

(8) (16) (14,16) 4 (26)
(28) (15) (30) (32) (4)

34) (9) 4 (26) (4) (5) (8) (16)
(18)

1

가 가

3

가 (30) (P) (63,72) (30) (T) (T) 가 (41)
(matrix type) (54)

(40) (T) (poly silicon) (coplanar)

(56)가 (41) (54) (44) (44) (64) (66)
(44,56)

(36) (T) (40) (50) (52) (40)

(P) (37) 가 ..

(P) (41) (42) (42)

(42) (P) 가 (43)

(42) (43) (63) 2 (48b)
(63) (72)

(63) (52) 1 (62) (52)

, (P) (C) (E)가 .

, (37) (42) (43) 1, 2
1 , (43) (63) 1, 2
2 , 가 .

, (C) (72) (P) (E)
.
(F) .

(70)

, 1 가 . 가

2

가

가 .

가 .

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, 가

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(R)가 (154) (172) (163) (163)

가 (floating) 가 (172) (163)

가 5a 5e 1

5a 5e 4 - , - , -

, 5a (130) (SiO₂) (SiN_x)
1 (buffer layer)(132)

(132)

(134) (132) (a - Si:H)

, 5b (T)가
(P) (136) (4 P)

(137)

, (137) (P) " ??"

(136) (active channel) 1 (A) , 2
(B)

(136) (130) (SiN_x) (SiO₂)
2 (138)

, (136) 1 (A)
(140) , (140) (4 141) ,
(144)

142) (141) (142) (

, (142) " ??"

doping) (140) 2 (B) (ion
(ion stopper) (140) 1 (A) (dopant)가

3 가 P , PH₃ 5 (136) 가 B₂H₆
가 N

3, 5c, (146), (140), (130), (136),
 1, 2, (146), (148a, 148b), (B)

(Nb), 3, (146), (Al), (Cr), (W), (Mo), (B),
 (150), (152), 2

(154), (150), (156)

(154), (7 141), (P)

(T)가

5d, (T), 4, (158)
 TFT

4, (158), (Al), (172), (P)

(172), "??"

utene), 5e, (172), (130), (benzocyclob
 5, (acryl), (resin), (160)

(144), 5, (160), (152), (162), (166),
 (164), (156)

(Indium - zinc - oxide), 5, (160), - - (Indium - tin - oxide) -
 (152), (P), (163), (164),
 (170), (166), (174)

(137), (143), 1, 2, (163),
 1, 2, (C₁), 2, (C₂), (143)

6, 가

가

6
6 5e Q
(172) (154) (172)
(163) (163)
(154) (172) 1 (C₁) (172)
(163) 2 (C₂)
(163) 가 (cross talk)
2
2
가
7
(254) (265) (P) (241)
(241) (254) ()
(254) (241) (256) (244)
(236) (T)가 (T) (240)
(coplanar structure)
(T) (236) (236) (240)
(240) (236) (248a, 248b) (250)
(252)
(250) (254)
(P) (252) (263)
(236) (237)가
(236) (237) (242)
(242) (242) (P)
(254) (263) (272)

(236) (230) (SiN_x) (SiO₂)
 2 (238)

(236) 1 (A)
 (240) (240) (241)

(244)

(141) (242) (243)

(242) "??"

doping) (240) 2 (B) (ion
 (ion stopper) (240) 1 (A) (dopant)가

3 가 P , PH₃ 5 (236) 가 N 가 B₂H₆

(246) (240) (230) 3 (246)
 (248a, 248b) 2 (B) 1 2

8c (W), (Mo), (Nb) 3 (246) (Al), (Cr),
 2 (B) (250) (252)

(250) (256)
 (254)

(254) (7 241) (P)

(T)가

(T) 4 (258) TFT

4 (258) (Al),
 (P) "??"

(272)

(274) (P) (272) (254)

(272) (274)

" "

2) , 가 (272) (P) (27)

(272) 가 , (276)

(276) ,

(278) (276)

가 (278)

8d (272) (230) (benzocyclobutene) (acryl) (resin) (280)

5 (280) (252) (282) (244) (286) , (256) (288)

(272) (276) (278) (290)

8e (Indium - zinc - oxide) 5 (280) - - (Indium - tin - oxide) (152) (P) (263) , (244) (292) (256) (294)

(296)

(237) (242) , 2 (C₁) (242) (263) 1, 2 2 (C₂)

가 가 ,

가

가

가 .

, 가 가 .

, 가

, 가 .

(57)

1.

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2.

1 ,

3.

2 ,

(SiN_x)

(SiO₂)

4.

1 ,

5.

1 ,

6.

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7.

6 ,

8.

7 ,

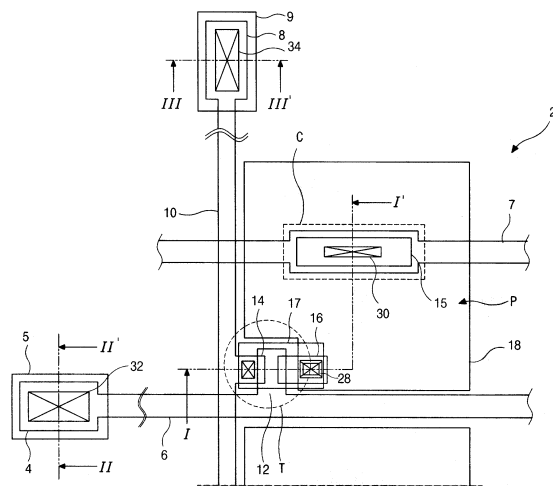
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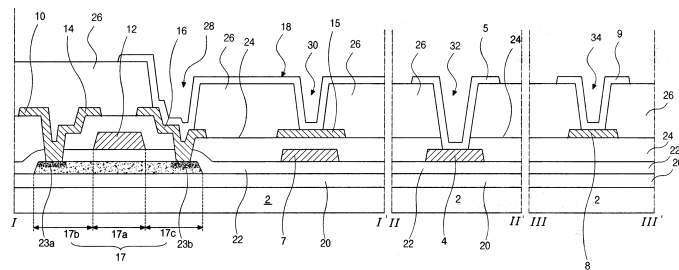
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7 ,

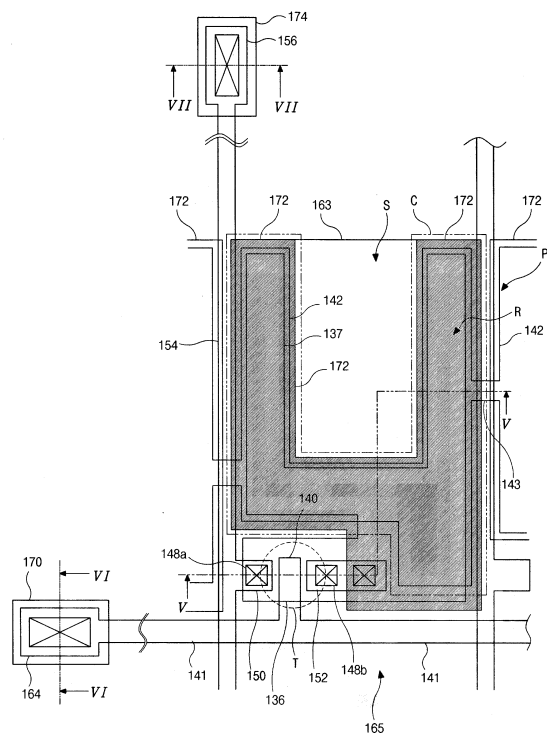
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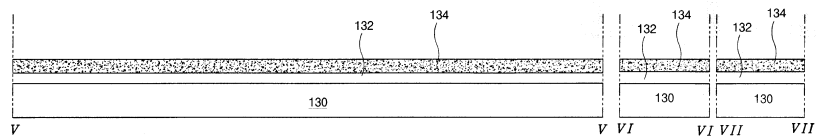
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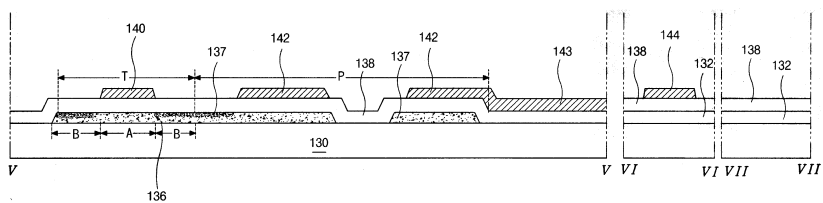
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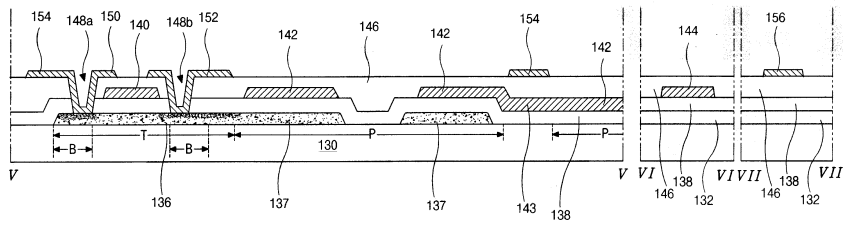
5a



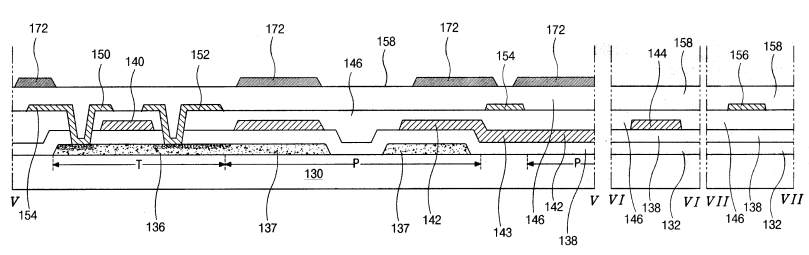
5b



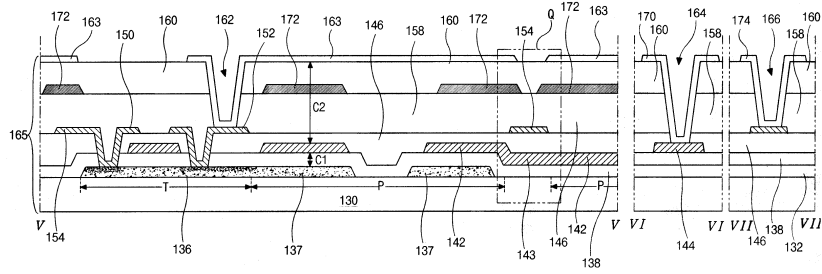
5c



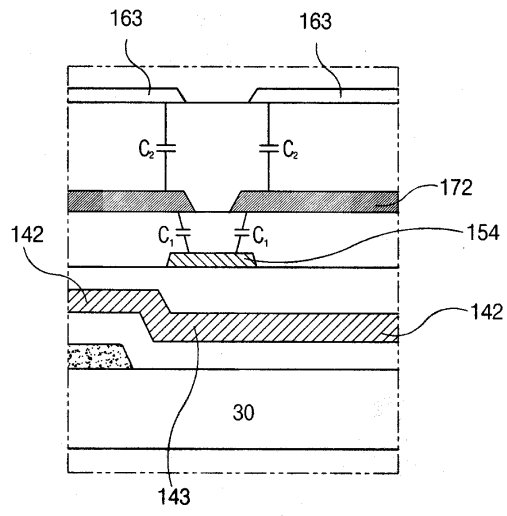
5d



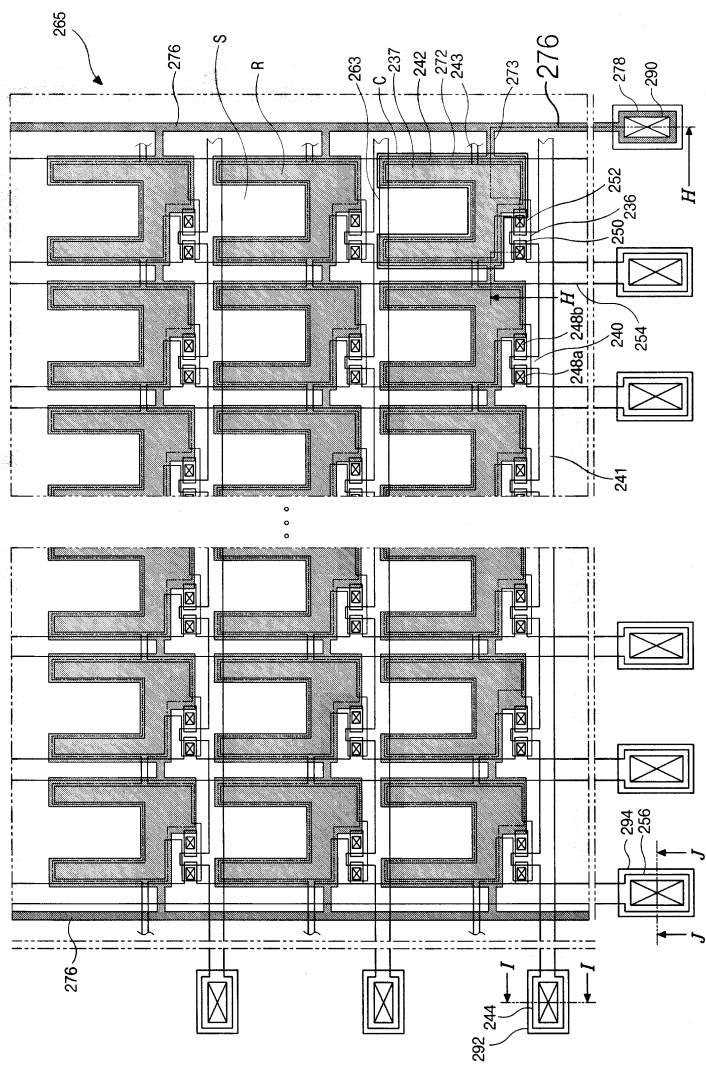
5e



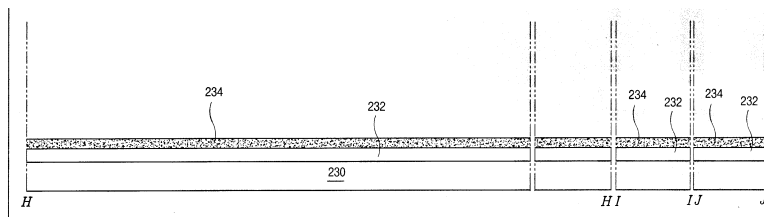
6



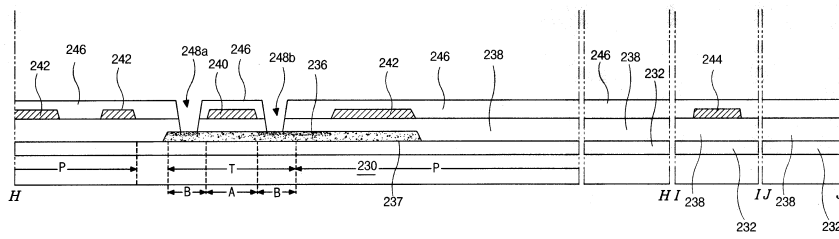
7



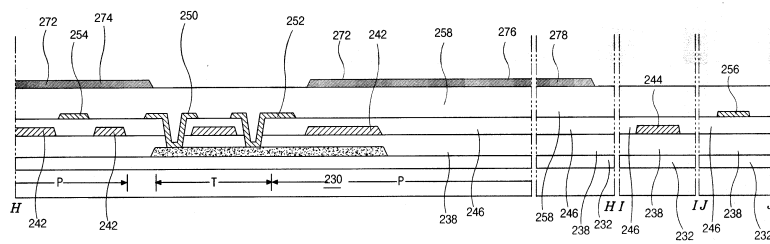
8a



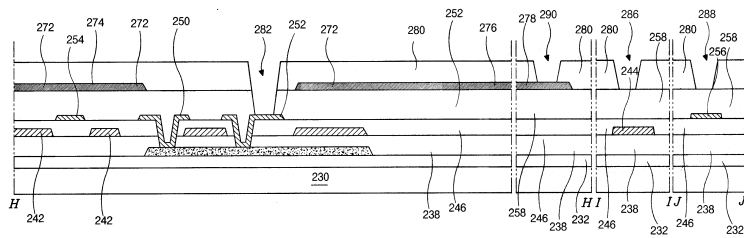
8b



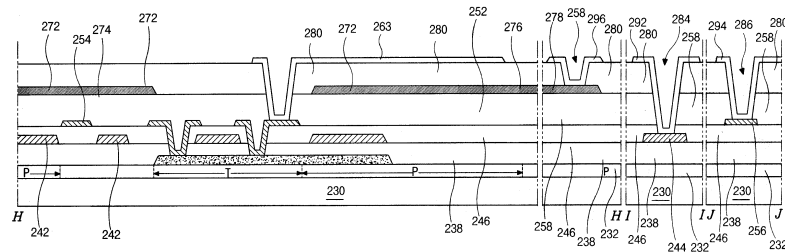
8c



8d



8e



专利名称(译)	用于反射透射型液晶显示装置的阵列基板及其制造方法		
公开(公告)号	KR1020030011984A	公开(公告)日	2003-02-12
申请号	KR1020010045799	申请日	2001-07-30
[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	PARK JAEDEOK 박재덕 HA YONGMIN 하용민		
发明人	박재덕 하용민		
IPC分类号	G02F1/1362 G02F1/1335 G02F1/136		
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其他公开文献	KR100802445B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种包括液晶显示器的半透半反型液晶显示装置，特别是多晶硅薄膜晶体管。提高了反射率;它使液晶的驱动成为不稳定的状态。因此，在像素电极和数据线之间不产生如上所述的寄生电容;并且它建议在反射器中进行连接之后完全授权反射器的预定电压。这样，不会产生液晶因下侧与数据线和像素电极之间产生的垂直串扰而失真的现象。并且可以制作清晰图像质量的液晶面板。

도면 1

