

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
G02F 1/1343

(11)
(43)

10-2004-0051979
2004 06 19

(21) 10-2002-0079692
(22) 2002 12 13

(71) 416

(72) 865-1 110 304

512 513 403

2 220 1201

2 145-6 3/1

289-12 102 504

(74)

:

(54)

가 가

가

1

1 ,
 2 1 ,
 3, 4 5 2 III-III' , IV-IV' V-V' V'-V' ,
 6 7 2 3 .

(color filter)

가

(fringe field)

가 , 가 , 가 , 가

$$Q[1]=C[1]V[d3] \quad (4)$$

, (on) 가 , T1 , T2, T3 가 .

$$Q'[2]+Q'[3]=Q[2]+Q[3]=C[2]V[d3] \quad (5)$$

$$-Q'[2]/C[2]+Q'[3]/C[3]=V[d1] \quad (6)$$

, (5) (6) $Q'[2]/C[2]$,

$$Q'[2]/C2=\{1/(C[2]+C[3])\}\{-C[3]V[d1]+C[2]V[d3]\}=V'[2] \quad (7)$$

$$V'[2]=V_{DCE} - V[d1] \quad (8)$$

(8) (7) (1) .

가 가 T2가 .

가 가 .

2 5 .

V'^2 $V-V'$ $V'-V'$, 3, 4 5 2 III-III' , IV-I

00) 1 (100, 200) (100) (100) (2)

(110) (121) (121) (171) .

3ab), 1 (123ab), 1 (173ab), 1 (173ab) 2 (173c), 2 (175a) 3 가 1 (175b) 3 가 2 (175c) 가 1 (123) (171) (178) (190) (190) (178)

, 1 (190) 가 (190) (178) , 2

1 (123ab), (121), (171) (173ab), (173ab) (175a), (175a) (190) , 2 (121), (171) (175b) (123c), (173c) (190) (175c) (131b) (173c) (121), (131b) (180) (178) (92) .

(178) (pre-tilt) 가 (270)

(178) (171)

(100)

(110) 가 (121) , 1 2 (123ab, 123c)

(121) (121) (125)

(110) 1 2 (131a, 131b) 1 4 (133a, 133b, 134a, 134b)

가 1 2 (131a, 131b)

1 2 (133a, 133b) 1 2 (131a, 131b)

3 4 (134a, 134b) 가

1 3 (133a, 134a) 1 2

(131b), 2 4 (133b, 134b) 2

(121, 123ab, 123c, 125) (131, 133a, 133b, 133c, 133d) , Cr

Mo 1 , Al Ag 2

(121, 123ab, 123c, 125) (131a, 131b, 133a, 133b, 134a, 134b)

(140)

(140) (151, 154ab, 154c)

(151, 154ab, 154c) 1 2 (154ab, 154c)

(171) (151) (151, 154ab, 154c)

n n+ (161

, 163ab, 163c, 165a, 165b, 165c)

(161, 163ab, 163c, 165a, 165b, 165c) (140) (171, 173ab, 173c, 175a, 175b, 175c, 179)

(171, 173ab, 173c, 175a, 175b, 175c, 179)

(121) (171), (171)

(163ab) 1 (173ab), 1 (173ab) 1

(173ab) (165a, 165b) 1 2 (175a, 175b), 2 (175c)

5b), 2 (123c) (163c, 165c) 2 (175a, 175b), 2 (173c) 3 (175c) (171) (179)

(121) (171) (178, 178a, 178b, 178c, 178d, 178e) 3 (175c)

78d, 178e) (178, 178a, 178b, 178c, 178d, 178e) 가 (178d, 178e),

(178) 가 (178) 가 가 (178c) 가 가 (178c)

가 가 (178a, 178b)

(171, 173ab, 173c, 175a, 175b, 175c, 179) (178, 178a, 178b, 178c, 178d, 178e)

Cr Mo 1 , Al Ag

2

(171, 173ab, 173c, 175a, 175b, 175c, 179) (

180)

(180) (180) 1 2 (181, 182) 1 2 (1

75a, 175b) (190)

(190) 가 (191) (192a, 192b, 193a, 193b, 194a, 194b) 가

가 (191) (190) , (192a, 192b, 193a, 193b, 194a, 194b) 가

4a, 194b) 가 (191) , (191, 192a, 192b)

, 194a, 194b) (178, 178a, 178b, 178c, 178d, 178e) , (193a, 193b)
 (133a, 133b) .

186) (180) (180) (140) (185) (180) (
 (131) 2 (173c) (92)가 .

(180) (180) (140) (183, 184)
 (125) (179) (95, 97)가 .

, (190) (95, 97) IZO(indium zinc oxide) . (190)
 (95, 97) ITO .

, (190) (191, 192a, 192b, 193a, 193b, 1
 94a, 194b) 가 , (191, 192a, 192b, 194a, 194b) (178, 178a, 178b, 178c,
 178d, 178e) . , (178, 178a, 178b, 178c, 178
 d, 178e) (191, 192a, 192b, 194a, 194b) (178, 178a, 178b, 1
 78c, 178d, 178e) (191, 192a, 192b, 194a, 194b, 195a, 195b) .

(191, 192a, 192b, 193a, 193b, 194a, 194b) (190) ,
 가 (191, 192a, 192b, 193a, 193b, 194a, 194b)
 4 가 가

, (178, 178a, 178b, 178c, 178d, 178e) ,
 (190) 1 2 .

, (178, 178a, 178b, 178c, 178d, 178e) (121, 123ab, 123c, 125)
 . , (178, 178a, 178b, 178c, 178d, 178e) (180)

(200) .

, , (230) ITO IZO (210) (220)
 , (270) .

(3) (190) (270) 가 가 가 .
 가 (110) (210) , 가

(110) (210) (190) (230) . ,
 , (191, 192a, 192b, 193a, 193b, 194a, 194b) . ,
 (178, 178a, 178b, 178c, 178d, 178e)

가 가 가 (110, 210)
 , 가 (110, 210) (3)

, 4 5 . ,
 3 , 3 ,

가 가 ,

1 (173ab) 1 (173ab) 2 .

6 2 .

2 가 1 (173ab) W 1 1 2 (175a ,175b)
가 가 . 1 2 .

, . 3 .

7 3 .

3 (194a, 194b)가 (190) , 194a 194b
5b) (190) 가 (195a, 195b)가 가 1 (194a, 194b, 195a, 195b) (195a, 19
(190) 가 1 . (190)

, , 가 가 .

(57)

1.

,

1 ,

1

2 ,

2

3

1

2 ,

1

가

2 ,

1

2

1

1

2

2

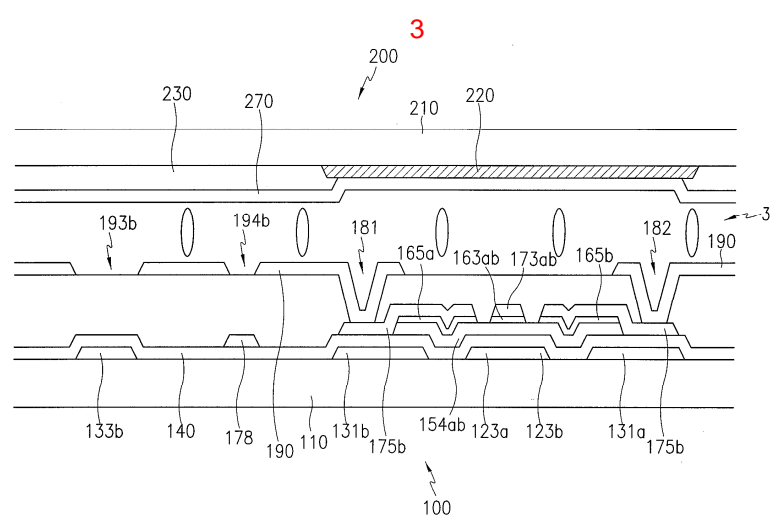
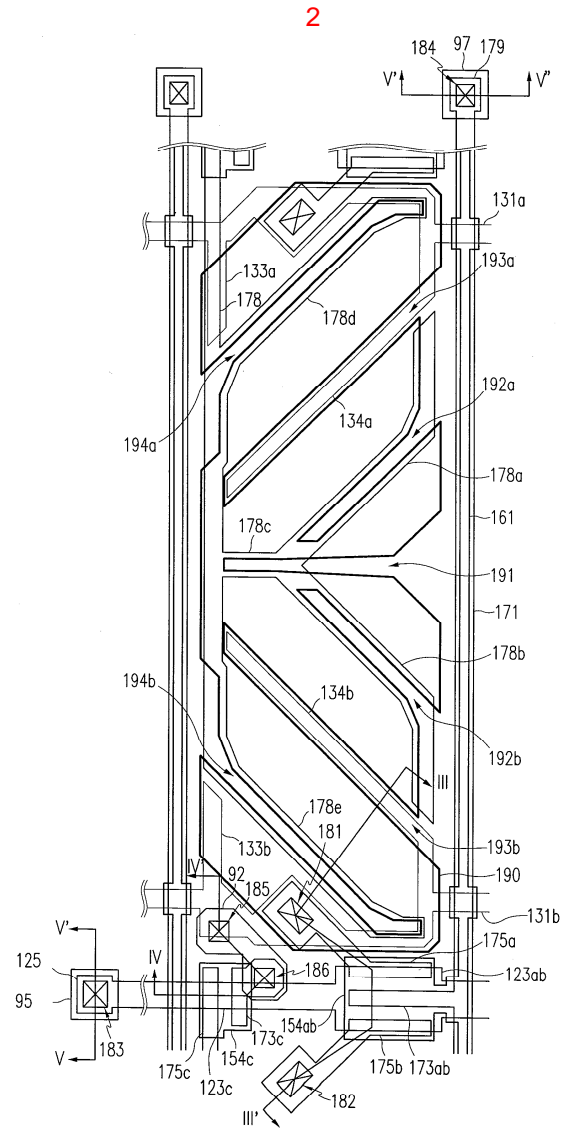
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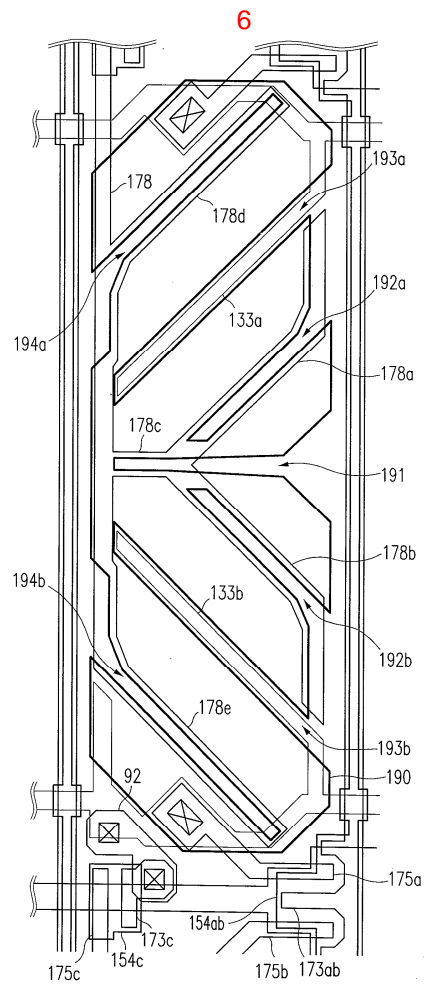
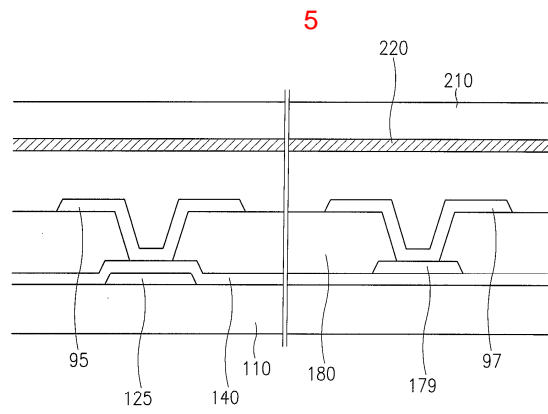
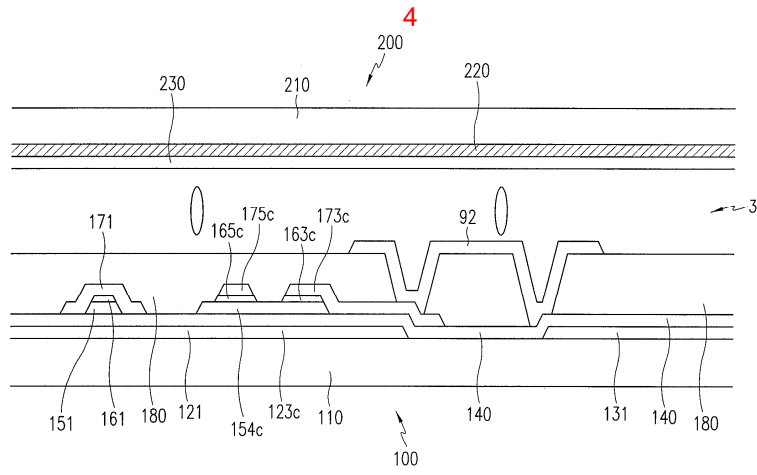
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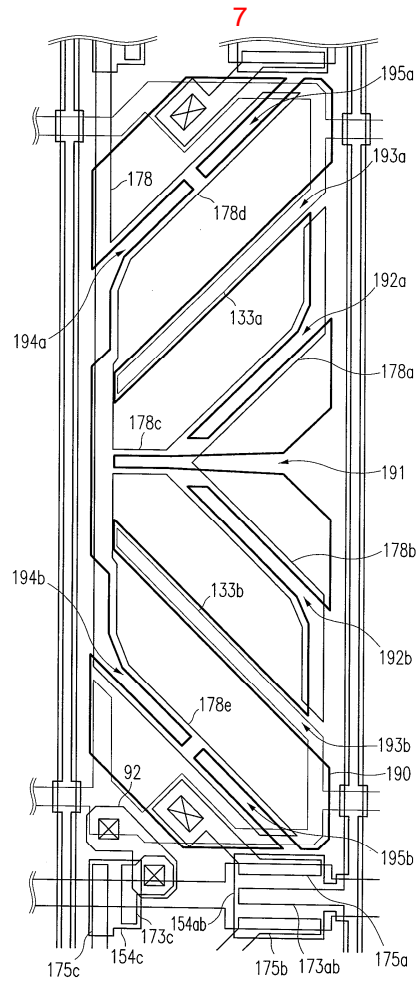
2.

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专利名称(译)	用于多域液晶显示器的薄膜晶体管标志		
公开(公告)号	KR1020040051979A	公开(公告)日	2004-06-19
申请号	KR1020020079692	申请日	2002-12-13
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
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发明人	김희섭 홍성규 양영철 김종래 신경주		
IPC分类号	G02F1/1343 H01L21/00 H01L21/77 H01L27/12 H01L31/20 G02F1/1362 H01L29/786 G02F1/136 G02F1/1368 G02F1/133		
CPC分类号	H01L27/1214 G02F1/13624 H01L27/12 H01L27/124		
其他公开文献	KR100895312B1		
外部链接	Espacenet		

摘要(译)

形成与像素电极的切除部分重叠的方向控制电极。切换方向控制电极电压的薄膜晶体管连接到施加有参考电位的维持电极线。它同时在接通和断开时，在一个是方向控制电极的早期电压，两个薄膜晶体管连接在像素电极上，形成有用于方向控制电极的薄膜晶体管。另一个切换图像信号。这样，液晶显示器，切口部分，方向控制电极和薄膜晶体管当然即使在指示场合时也会生锈，并且当指示下侧时为蓝色单色，并且白色质地稳定

