

(19) (KR)
(12) (A)

(51) 。 Int. Cl. ⁷ G02F 1/1343	(11) (43)	2003-0052762 2003 06 27
(21)	10-2001-0082793	
(22)	2001 12 21	
(71)	.	20
(72)		501-201
(74)		
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(54)		

가
가 ,

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7a 7e

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9 8 -

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110 : 1 122 : 1

123 : 2 130 :

141 : 1 142 : 2

151, 152 : 1 153, 154 : 2

161 : 162 : 1

163 : 1 164 : 2

165 : 2 170 :

171 : 1 172 : 2

181 : 1 182 : 2

가

(active matrix LCD : AM-LCD)가

가

(multi-domain) 가 5,608,556

1 2 1

1 2 , 1 (10) (11) (12) 가

(11) (12) (13)

(14) (11) (13) (14) (15)가

(14) , (16) (16) (etching stopper)(15)

(13) (17)

(16) (17) (19) (18) (20)

(19) (20) (19) (18) (12) (11) ,

(11) (18) (17)

(20) (19, 18) (17) (21)

(21) (orientation control electrode)(22) (

22) (17) 가 (17)

(22) (polyimide) 1 (23)

1 (10) 1 (10) 2 (30) , 2 (30)

(31)가 (31)

가

(31) (32) (32)

(17) (33a, 33b) 가 (33a, 33b) (17)

가 x

(32) 2 (34)

1 (23) 2 (34) (41) , 1 (23) 2 (3

4) (40) (10, 30) 가

(32) (33a, 33b) (32) (17)

가 (41) (40) (fringe field)가

(22)

가

7 가

, 2 (164) 2 (123) 2 (165)
 (122, 123) (163, 164) (162, 165)

(141), 2 (123) 2 (122) 1 (163, 162) 1
 (164, 165) 2 (142)

(161) (166) (161)

(161) (166) (121)
 1 2 (181, 182) 1 2 (181, 182) 가 가
 (161), (166) (121) 1 (181) 1
 (162) 1 (181) 1 (162) 1 (171)
 2 (182) 2 (165) 2 (182) (172)

) 2 (172)

(161) (P) 가 (P) (166) (166) 가 ,
 (181, 182) (161) (161) 가
 가

(220)가 4 (221) 3 (P) (221) 가 (231, 232, 2
 33)가 (221) (221) (P) (24
 1) 가 (241) (P)

3 4 5 , 5 3 4

5 , 1 (110) (166) (161) (130)
 (161) (166)

) (161) (166) (170) (170)
 가 (benzocyclobutene : BCB)
 (photo-acryl)

(170) - - (indium-tin-oxide) 1 2
 (181, 182) 1 2 (181, 182) (161) (166) 가
 가 , 1 2 (181, 182) (161)

0) , 1 (110) 1 (110) 2 (210) , 2 (21
 (220)가 (181, 182) (220) (181, 182) 1 2
 (181, 182) 가 (166)

(220) (231, 232, 233) 가 (231,
 232, 233)

(231, 232, 233) ITO (240) (161)
 (240) 1 (181) 2 (182) (241) (181, 182)
 (241) 가 ,
 가

(181, 182) (240) (300) (300) (181, 182)

(vertical alignment) (twisted nematic) ($\Delta \epsilon$)

6 7a 7e 3 -

6 (122, 123) (130) 1 (110) 1

2 (122, 123) 1 2 (141, 142) 1 2

1 (151, 152) 2 (153, 154)

(151, 152, 153, 154) (161) 1

(163) 1 (162), 2 (164) 2 (165), (166)

(161) 1 (163) 2 (164)

(161) (163, 164) (162, 165) (166)

BCB (162) 2 (165) 1 2 (171, 172) 가 (170) 1

(170) 1 2 (181, 182) 1

172) (181) 1 (171) 1 (162) 2 (182) 2 (16

6) 2 (165) 1 (161) 2 (181, 182) 가 가 (16

7a 7e

7a 1 (110) 1

2 (122, 123) (122, 123)

7b (122, 123)

(130) (122, 123) 1 2 (141, 142) 1

2 (155, 156)

7c 1 2 (155, 156)

3 (161) 1 (163, 162), 2 (164,

165), (166) 1 (163, 162) 2 (16

4, 165) (7b 155, 156) 1 2 (151, 152, 153, 15

4) (161) (가) 1 2 (163, 16

4) (166) 가

7d (161) 1 (163, 162), 2 (

164, 165), (166) 1 (170) 4 (170) 1 2 (

(162, 165) 1 2 (171, 172) BCB

7e (170) ITO 5

1 (171) 1 2 (181, 182) 1 (181)

(165) 1 2 (182) 가 가 (172) 2

(161) (181, 182) 가 가 (166)

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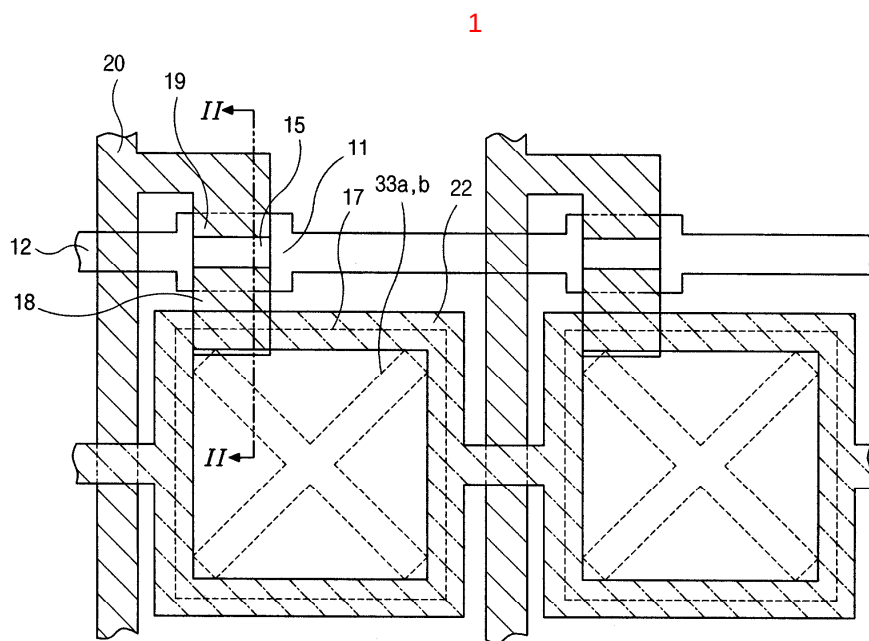
10

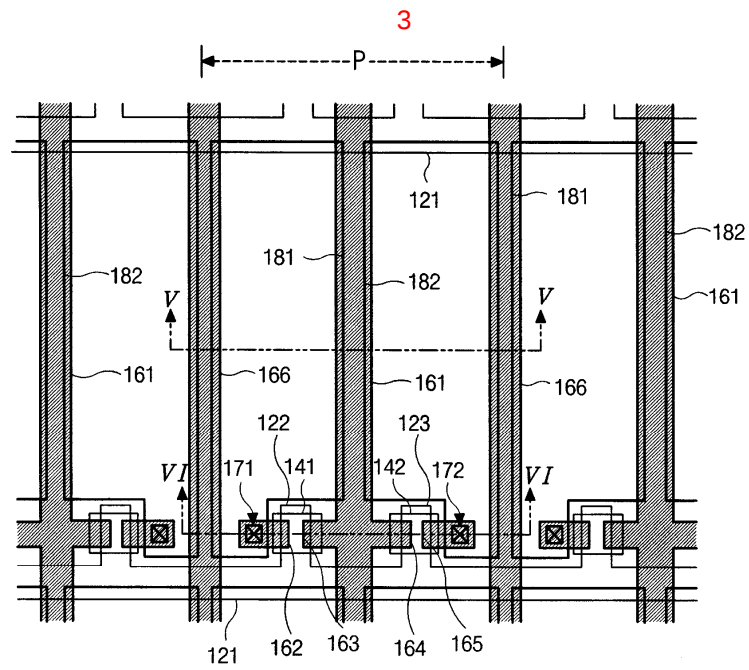
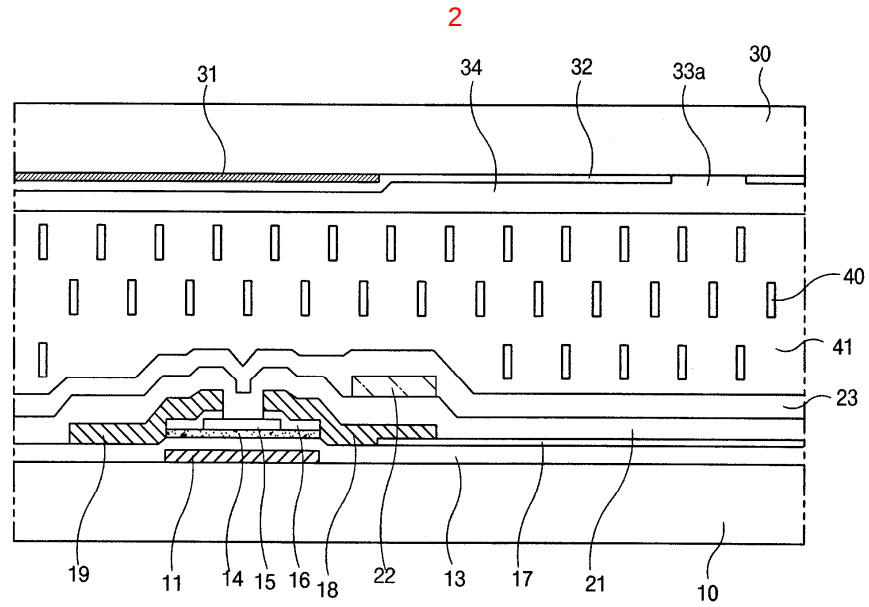
14.

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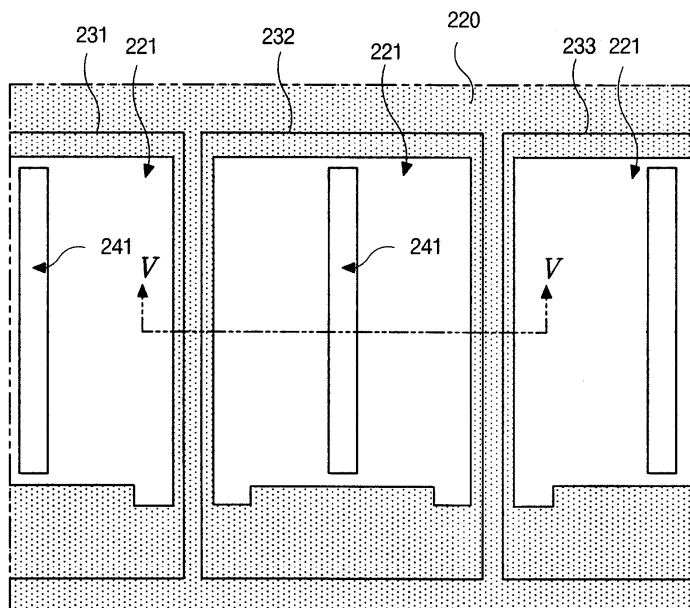
15.

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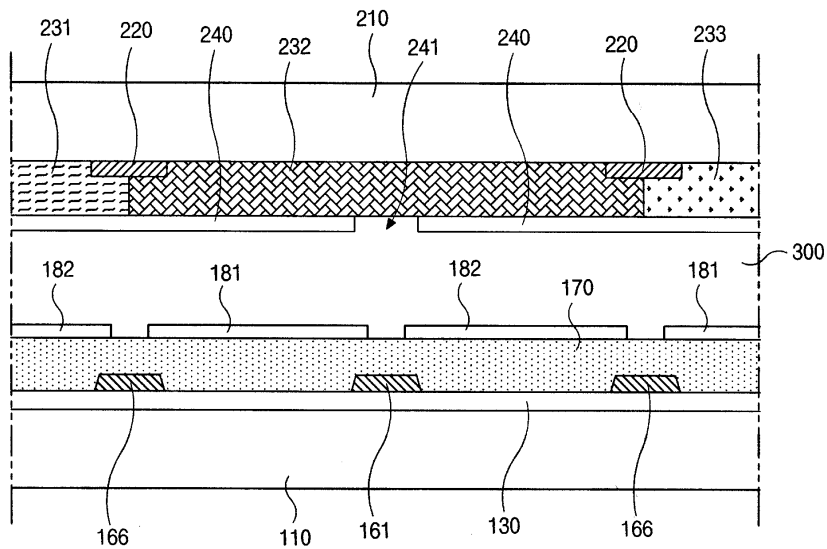




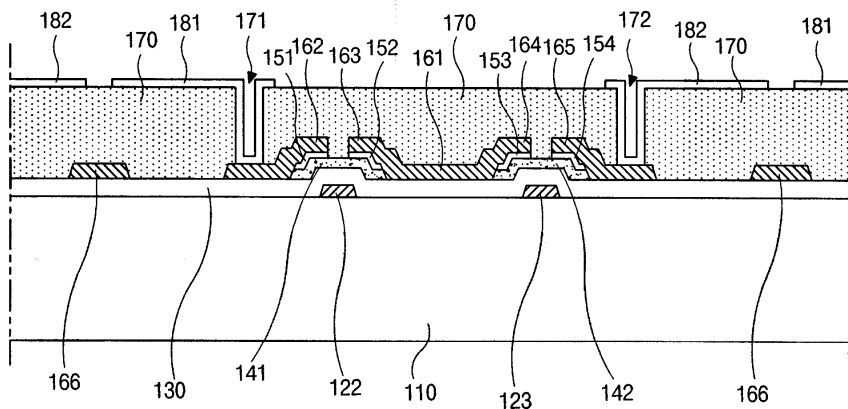
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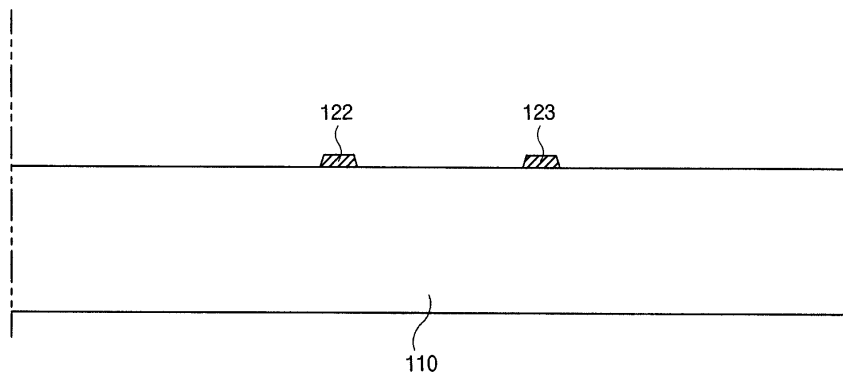
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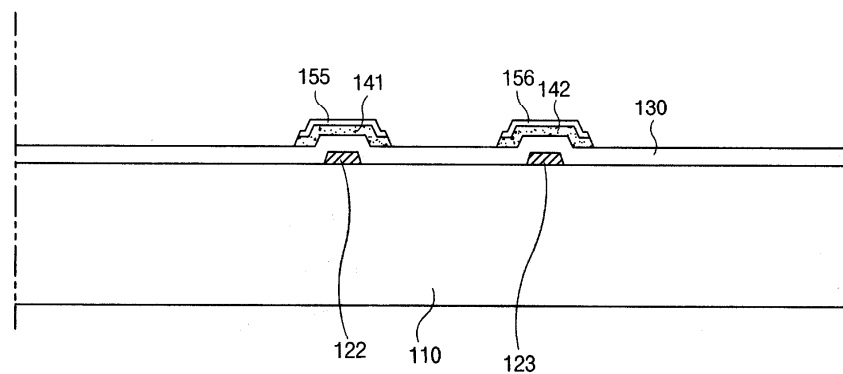
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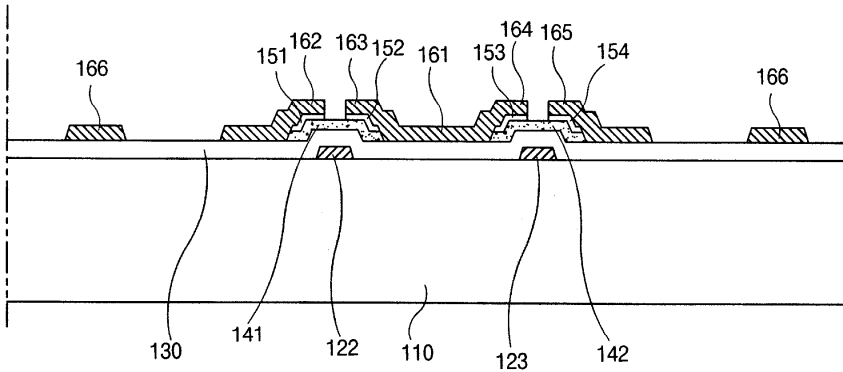
7a



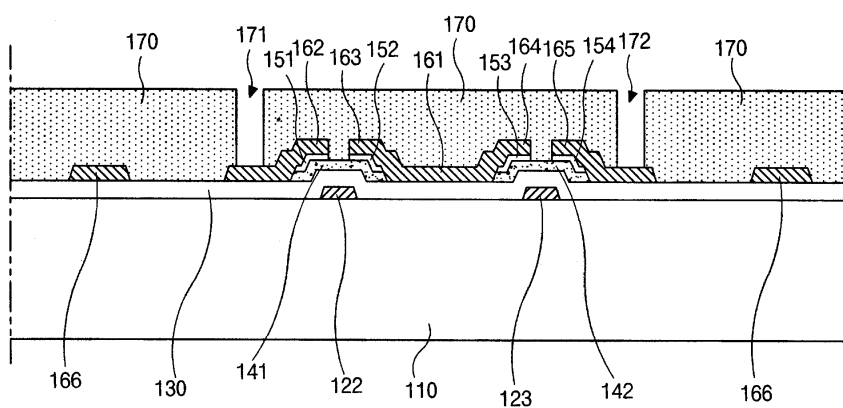
7b



7c



7d





专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020030052762A	公开(公告)日	2003-06-27
申请号	KR1020010082793	申请日	2001-12-21
[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 KYOSEOP 추교섭		
发明人	추교섭		
IPC分类号	G02F1/1343		
其他公开文献	KR100811641B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种具有宽视角的液晶显示装置及其制造方法。为了加宽液晶显示装置的视角，通过在公共电极上形成狭缝图案来形成使用边缘场的结构，在这种情况下，当使用辅助电极来增强边缘场时，处理的数量增加，概率增加，制造产量下降。在本发明中，为了通过在公共电极上形成狭缝图案以在公共电极和像素电极之间形成边缘场来改善液晶显示装置的视角，在一个像素区域中形成两个薄膜晶体管和像素电极，可以在与数据布线相同的工艺中形成，从而减少制造工艺并降低成本。6 指数方面 视角，狭缝图案，边缘场

