

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
G02F 1/136

(11)  
(43)

2003-0046641  
2003 06 18

(21) 10-2001-0076846  
(22) 2001 12 06

(71) . 20

(72) 501-201

2-1506

(74)  
:

(54)

가

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8a 8c 9a 9c

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11 3

12 13

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131 : 1 132 :

133 : 134 : 1

135a : 1 135b : 2

136 : 2 137 :

141 : 2 142 :

143a, 143b, 143c : 144 :

145 : 145a :

가

(Active Matrix LCD : AM-LCD)가

가



(multi-domain) 4

1 (61) (62) (63) (64) (64)  
 (63) BCB (65) (65) (64) (64)  
 6b) (65) (66a, 66b) (65) (65) (65) (64) (64)  
 (63) (66a, 66b) (65) (63) (66a, 6)

(71) (65) (66a, 66b) 2 (71) 2  
 가 (72)가 (72) (66a, 66b) (65)  
 (72) (73a, 73b, 73c)가  
 (74) (74) 가 (75)  
 (75) (65) (75a) 가 (75)

(65) (75) (80)

가 (75) (75a) (75) (65)  
 (80) 가 (fringe field)가 가 (75a)

(66a, 66b) (66a, 66b) (65)  
 (short) (65) (66a, 66b) (66a, 66b) (e)  
 c) (66a, 66b) (d) 4 μm 3  
 5 μm (65) (65) (65) (72)  
 (72)가 (65) (65) (65) (72)  
 5 μm 가

1 2 가 1  
 1 2 1 2  
 2 1 2



6 (121)가 (121a) (121a) (5 118) (121a) 가 (122a, 122b, 122c)가 (123a) 가 (123a) (121a) (123a) 5 6 7 7 5 6 7 (131) (132) (133) 가 (133) (132) (133) (134) (134) BCB (photo-acryl) (134) (135a, 135b) (133) 가 (135a, 135b) (135a, 135b) (135a, 135b) (135a, 135b) (h) 7 (133) 8 μm (g) 3 μm (135a, 135b) (i) 1 2 (135a, 135b) 2 (136) (137) (135a, 135b) (137) (137) ITO (135a, 135b) (j) 3 μm (storage capacitor) (137) 2 (141) 2 (141) (142)가 (142) (137) 가 (135a, 135b) (137) (137) 가 (142) (137) (143a, 143b, 143c)가 (144) (144) (144) ITO (145) (137) (145) (145) a) 가 (137) (145) (150) (150) (137) (vertical alignment) (twisted nematic) 가

가

8c , 8a , 8c 9a 9c 8a  
 , 9a 9c

8a 1 (131) (133)  
 (132) (132) ( ) ( )  
 (132) (133) ( ) ( )  
 (133) ( ) (133)

8b (133) BCB 1 (134)  
 (135a, 135b) (135a, 135b) (133)  
 (137)

8c (135a, 135b) 2  
 (136) ITO (137)  
 (137) (135a, 135b) 가

9a 2 (141) (142)  
 (142) (black resin)

9b (142) (143a, 143b, 143c)  
 (143a, 143b, 143c)

9c (143a, 143b, 143c) (144) ITO  
 (145a) (145) (145a)  
 (143a, 143b, 143c)

8c 7  
 (dispensing)

가

2 2 1 10  
 2 가

10 2 (145) (145a) 2 (14  
 1) (142a)

가 (137) (145) 가 (137) (145)  
 가 (150) (145a) (145a)  
 가 (disclination) 2 (145a)  
 (142a)가 (142a) 1 (131) (133) (145a)  
 1 2 1

가 .

3 1 2 3 가 , 11 .

11 , 3 (133) 1 (134) (138) (138) (138) (138) (138) 1 (134) , (138)

, 2 1 (131) 2 (141) (145a) (142a)

, 3 , 1 3 가 , x , + , y , 가

12 13 .

12 (221)가 , (221a) 가 (222a, 222b, 222c)가 (223a) 가 (223a)

, 13 , 322a 322b 322c , 321 (323a) , 321a

가

가

(57)

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**13.**

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**14.**

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**15.**

14 ,

**16.**

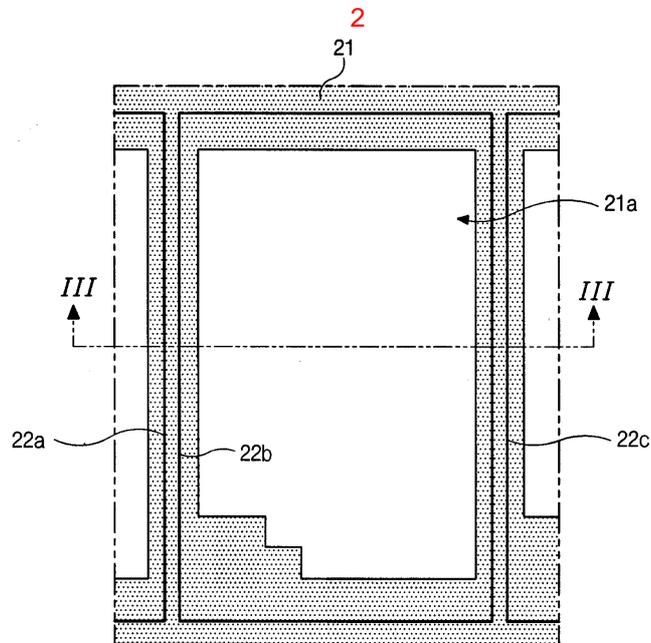
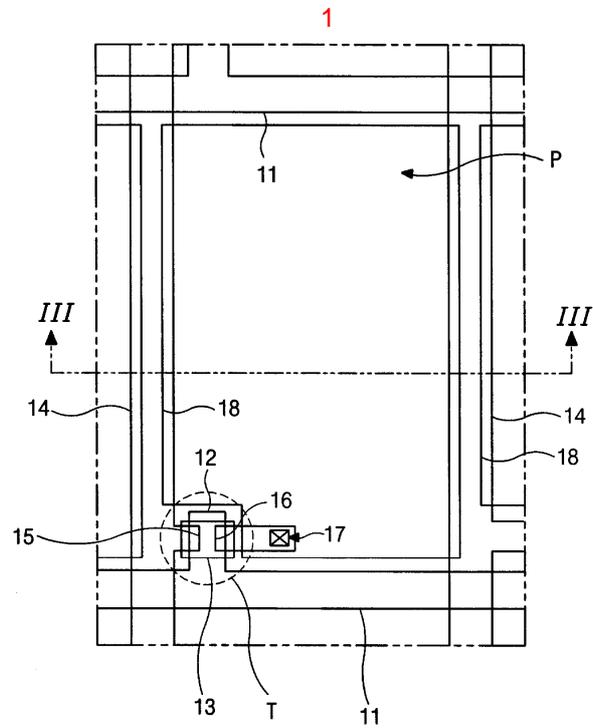
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**17.**

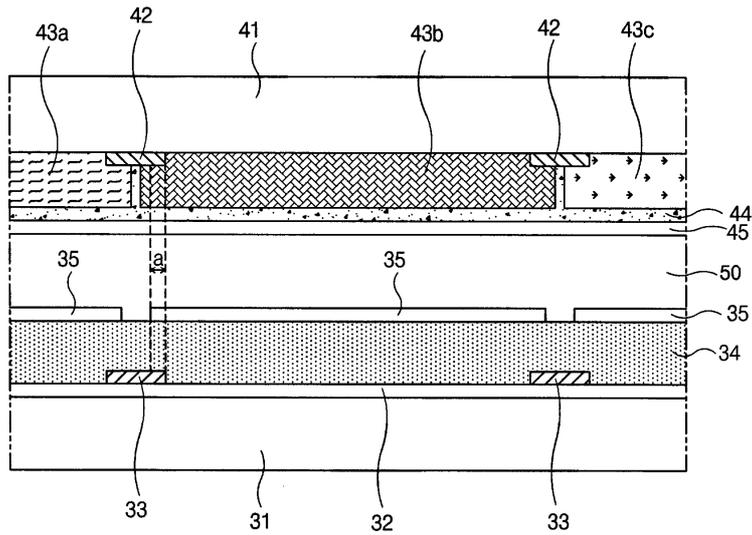
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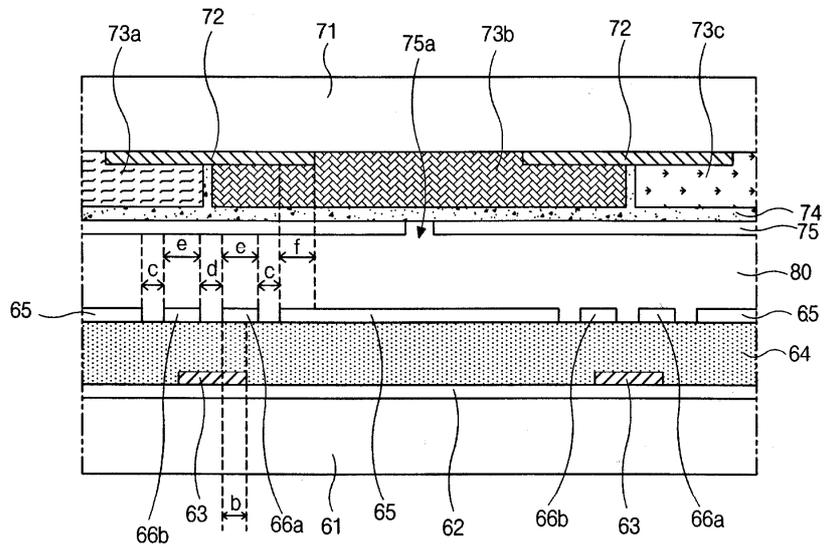
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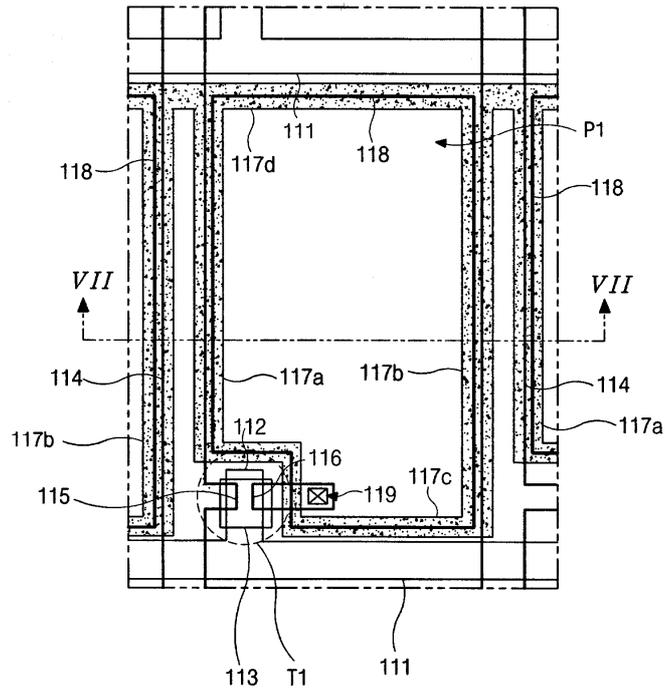
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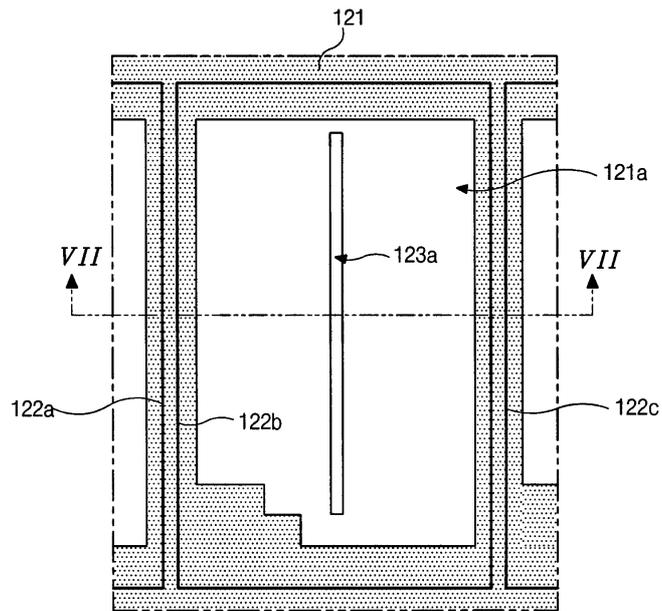
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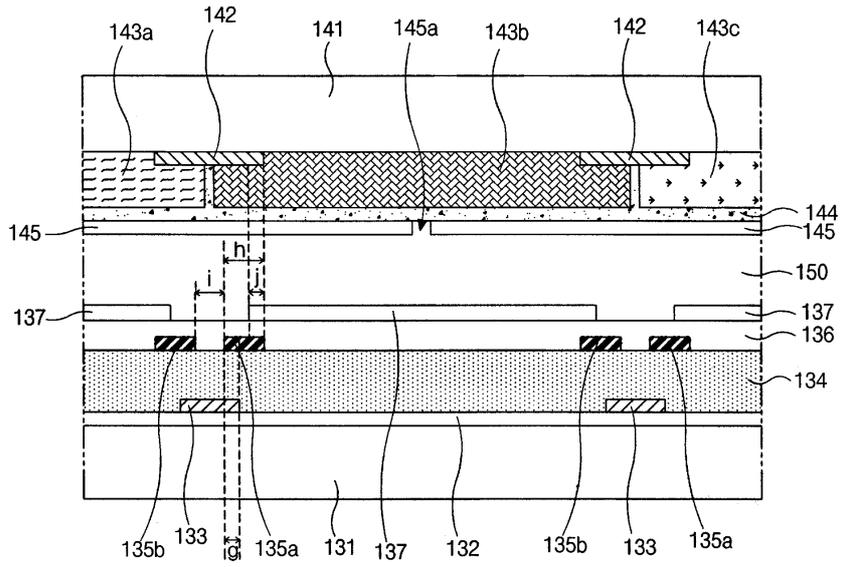
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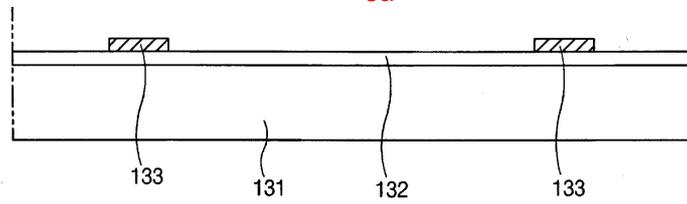
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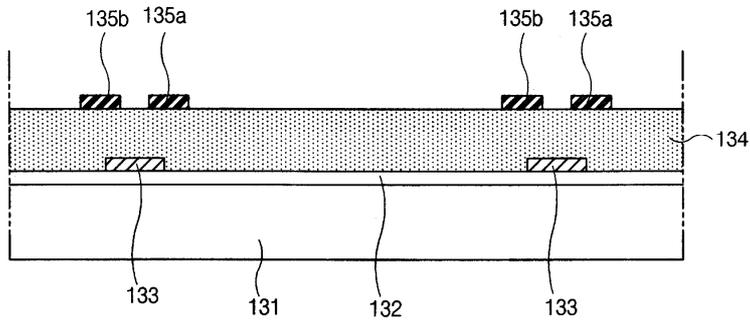
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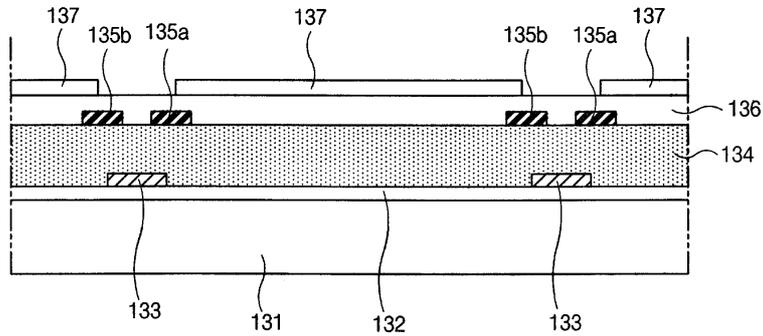
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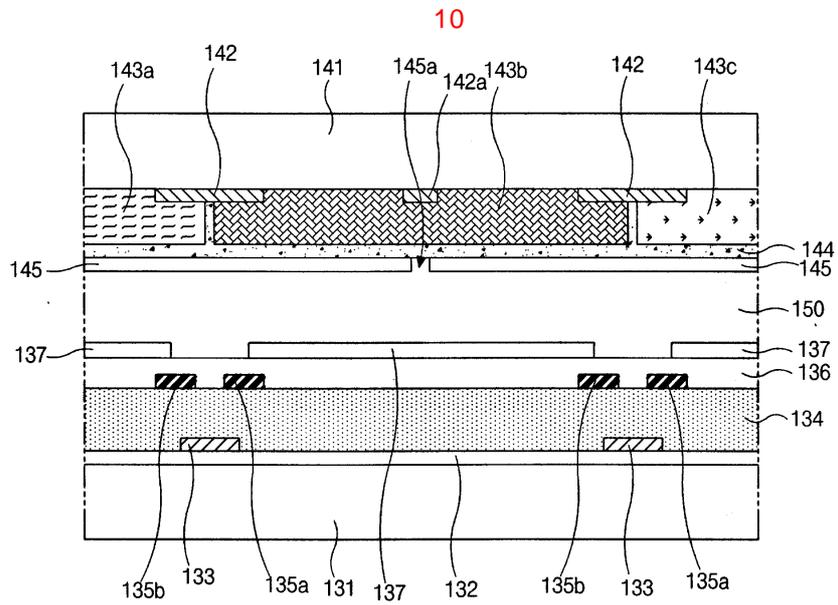
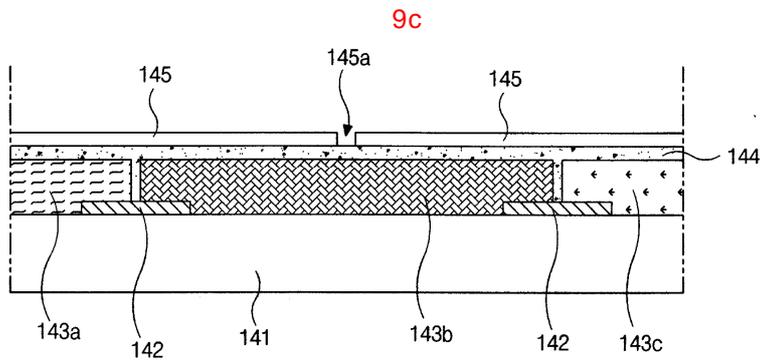
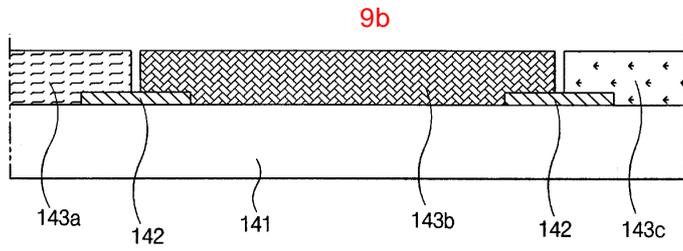
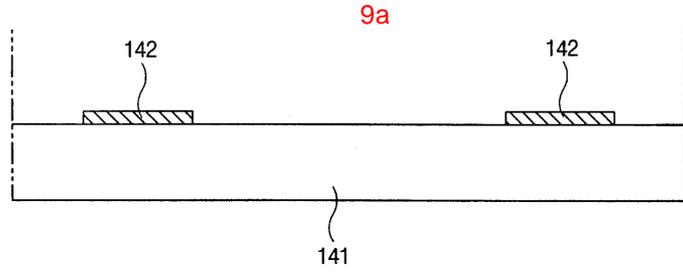


8b

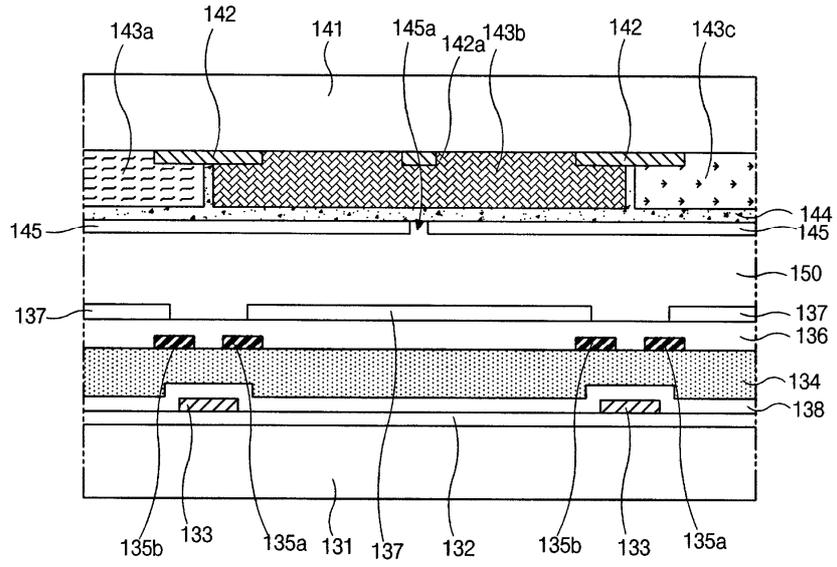


8c

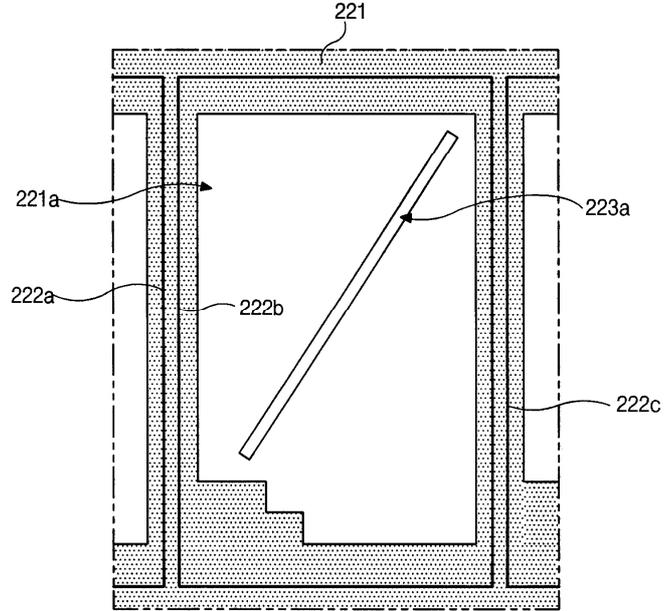


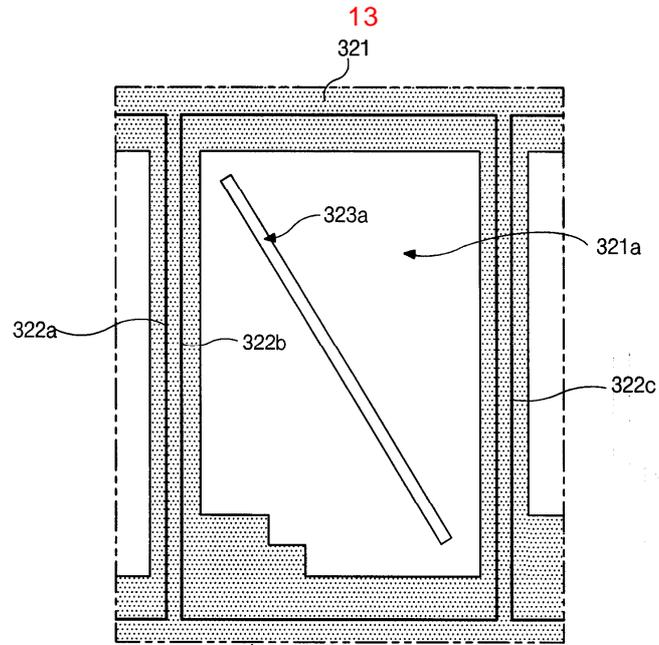


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专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	<a href="#">KR1020030046641A</a>	公开(公告)日	2003-06-18
申请号	KR1020010076846	申请日	2001-12-06
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	CHOO KYOSEOP 추교섭 KIM DOSUNG 김도성		
发明人	추교섭 김도성		
IPC分类号	G02F1/136 G02F1/1333		
CPC分类号	G02F1/133707 G02F2201/128 G02F2201/121		
其他公开文献	KR100857132B1		
外部链接	<a href="#">Espacenet</a>		

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。当使用在公共电极上形成狭缝图案以形成具有不同液晶分子取向的区域的方法以扩大液晶显示装置的视角时，出现了液晶显示装置的开口率降低的问题。在本发明中，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。在液晶显示器中，形成用于增加边缘场的辅助电极以与数据线重叠，辅助电极用作黑矩阵，从而可以减小黑矩阵的面积并且可以增加孔径比。7 指数方面 视角，孔径比，黑矩阵，

