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2004 02 27

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10-2002-0049532

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2002 08 21

(71)

.

20

(72)

6 449

106 1305

(74)

:

(54)

Cr BM

BM

,

가

, BM

(coupling)

,

(cross talk)

4

1

2 1

3

4

5 4

6

7a 7c

* * *

203: BM 205:

213: 214:

215: 216:

223: 233:

237: 239:

가 BM(black matrix)

(matrix)

(integrated circuit : IC)

(color filter)

가 가

가

1

가

1

가

가

가

가

가

가 가

1

$$(113) \quad \text{,} \quad (100) \quad (109) \quad (113) \quad \text{,} \quad (109) \quad (114)$$

(115) (109) (115) (114)
 (102) (101) 가 , (114)
 (113) (108)
 (113) (109)
 .
 , (109) 가 가 , (113) (101) 가 가
 (108)
 , (113) (116) (102) (101)
 .
 , (113) (102)
 , (101) (108), (109), (113) (114,
 115) BM(Black Matrix;103) (113)
 BM(103)
 BM (Cr) BM
 2 1 ,
 , (102) (101) (116) (139)
 , (105)
 , (101) (131) 가 가
 (114) (133) (137)
 (132), / (137a/137b) (135) (132)
 (135) (134) (136) (135) /
 (137a,137b)
 , (132) (133) / (13
 7a,137b) (137) (138)
 , (102) (121) BM(103) (122)가 BM(103)
 (122) (overcoat layer;123)
 가 (102) BM(103) (116)
 , BM(103) BM (121) , BM(103)
 BM(103) (121)
 , 3 BM Cr BM(103a) BM
 Cr BM (133) (137) (cross-talk)

BM

BM

BM

BM

1 2 ; : 1 1 2 BM ; BM
; BM ; 1 2
. , .
2 , 가
.
, 1 2 ; 1 BM ; BM ;
1 2 ; BM ; ;
1 2 , .
, .
, .
4 1 .
(216) , (202) (201)
(201)
(208) (214) (214) (215) (209) (213) , (213)
, (214) (215) (202) (201) 가 (213)
, (214) (215)
(208) (215)
(213) (209) .
, (202)
BM(203) BM , (213) (213) (216) (223)
BM , 가
가 , BM
.
, , BM(203) Cr CrOx BM (223)
.
5 4 ,
(202) (201) (216) (214)
(205) (239)
(201) (231) , /
가 가 (214,215) (233) (237)
(232), / (237a,237b) (235)
(232) (235) (234) ,
(235) / (236)
(205) (column spacer) (202)
, (232) (233) / (23
7a,237b) (237) (233)

(202) R, G, B (221) Cr (222)가 CrOx BM(203) , BM(203)
 R, G, B 가 ,
 BM
 (213) BM(203) (216) BM(203) (222) (223) , BM(
 203) (216)
 Cr CrOx BM BM
 BM
 , BM , BM 가
 , 6 (223a)
 , 7a 7c
 , 7a , (214), (231) Al, Mo, Ta, Ti, Cr, Cu Al (232), (233)
 (234) , (234) SiNx () SiOx CVD (214) (235)
 (236) , n+
 , 7b , Al, Cr, Ti, Ta, Cu, Mo, Al (237a,237b)
 b), (237) / (237a,237b) (236)
) / (237a,237b) (238) , (238)
 가 가
 (233) (237) / (237a,237b) (233) (237) ITO IZO , (213)
 , 7c , Cr CrOx BM(203) (spin coating) (223) (2
 13) BM(203) (202) (222) (223) (213)
 BM(203)
 (202) (216) (201) 가
 BM BM BM BM
 BM BM BM BM

가 .

(57)

1. 1 2 ;
:
1 BM ;
BM ;
BM ;
1 2
2. 1 , BM Cr CrOx
3. 1 ,
4. 1 ,
5. 1 , 2 ;
;
;
;

가

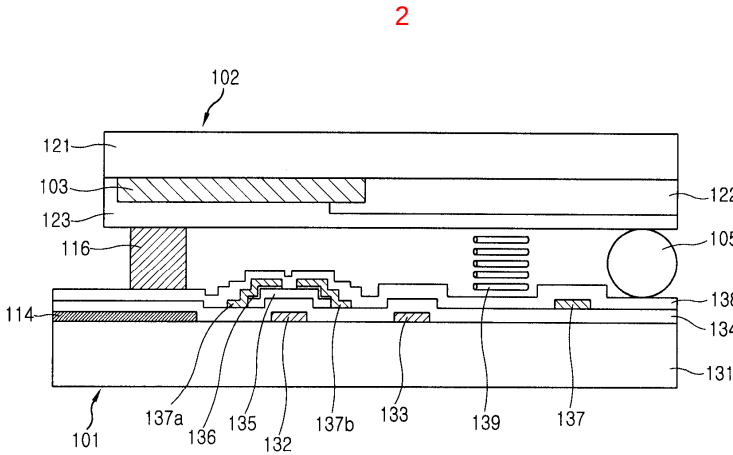
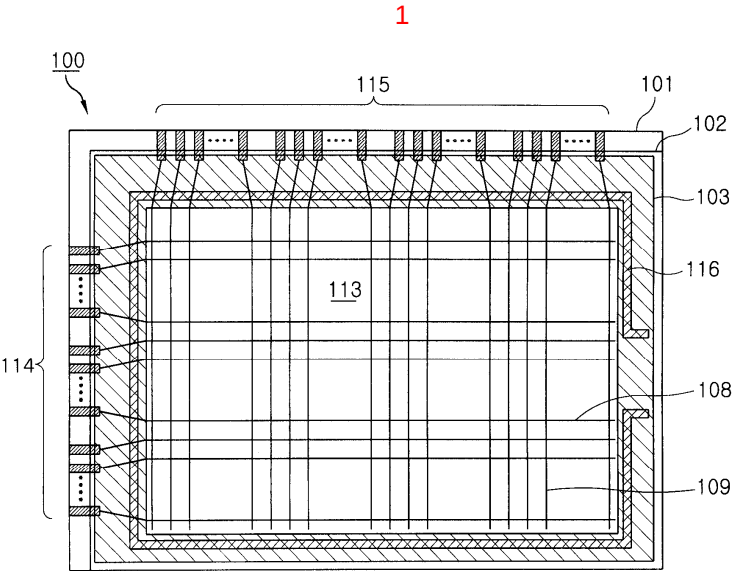
6. 1 2 ;
1 BM ;
BM ;
BM ;
:
1 2
7. 6 , BM Cr CrOx
8. 6 ,
.

9.

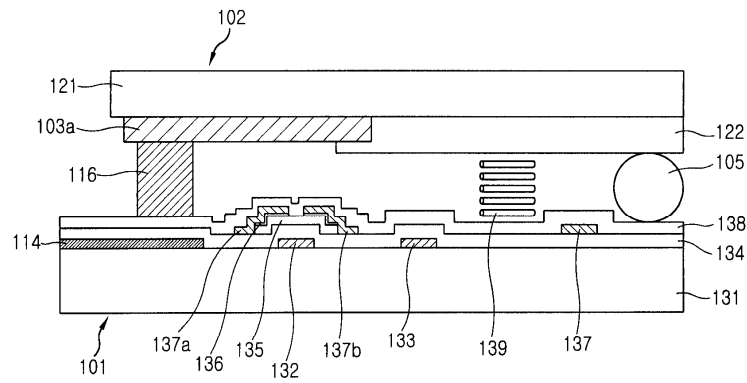
6 ,
.

10.

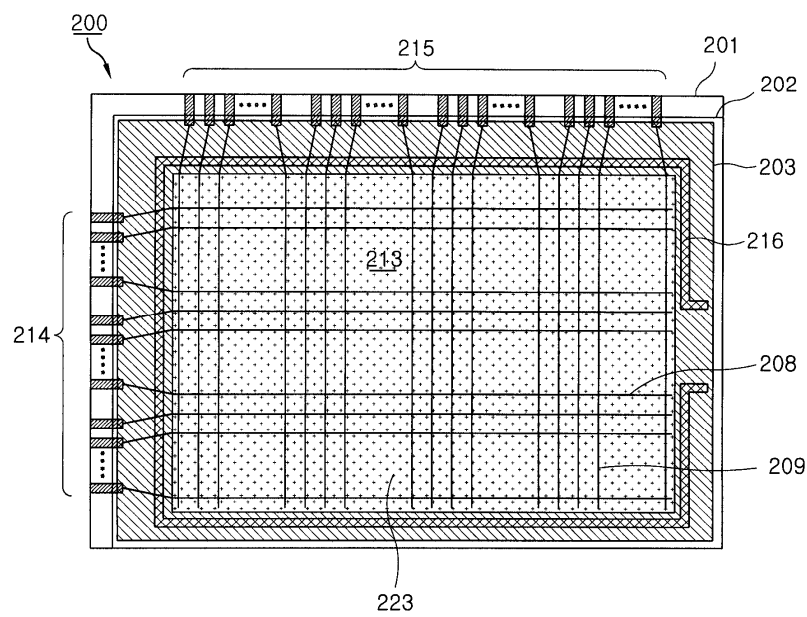
6 , 2 , 가



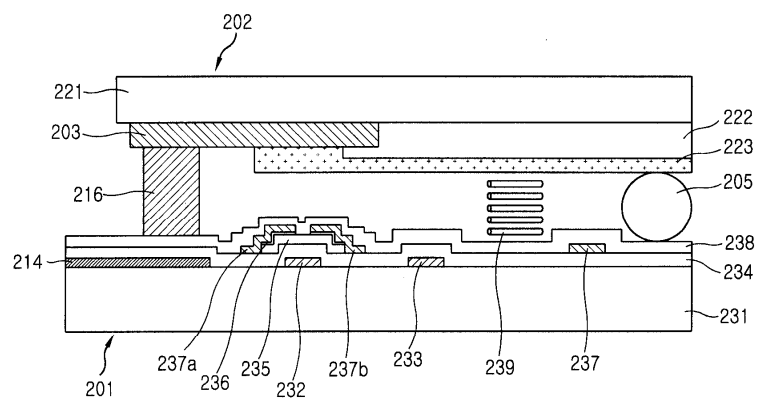
3



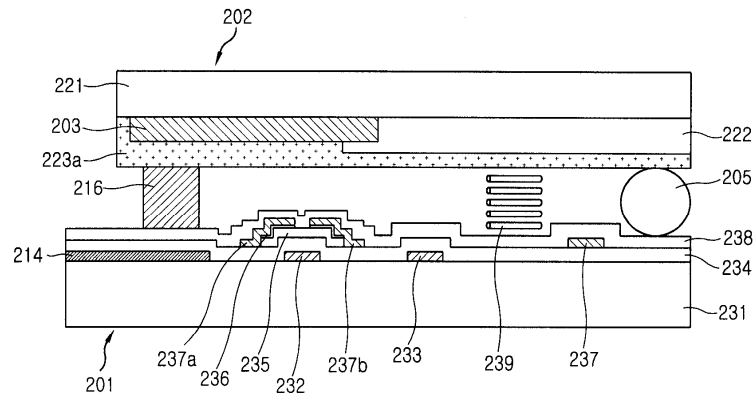
4



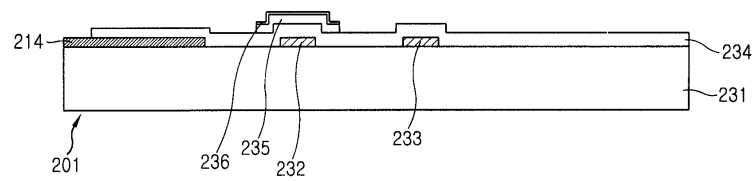
5



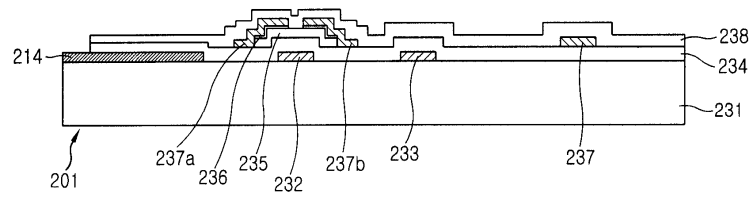
6



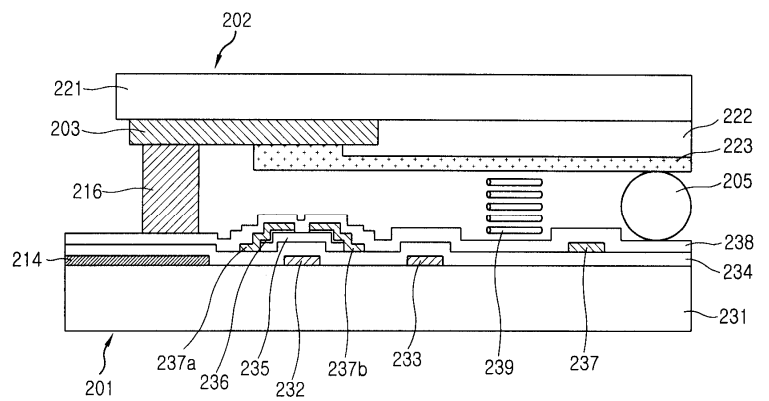
7a



7b



7c



专利名称(译)	横向电场型液晶显示元件及其制造方法		
公开(公告)号	KR1020040017463A	公开(公告)日	2004-02-27
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其他公开文献	KR100870665B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种面内切换模式液晶显示器及其制造方法，通过使用金属黑色矩阵代替树脂黑色矩阵来防止密封破坏，并通过形成减少金属黑色矩阵引起的串扰，从而提高产量。有机薄膜，从而提高图像质量。

