

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

(51) Int. Cl.⁷
 G02F 1/1335

(11)
 (43)

10-2004-0086734
 2004 10 12

(21) 10-2004-0003224
 (22) 2004 01 16

(30) 1020030021390 2003 04 04

(KR)

(71) . 20

(72) 6가86 5 105

(74)

:

(54)

, (column
 n spacer)

, 가 ,

,
 (column spacer)
 가 , (through hole)

, (through hole)

1

3 2 A-A

4 2 B - B

5 2

6 5 C-C

7a 7e

• 30

110 : 111, 151 :

115 : 117 :

120 : 121 :

123 : 125 :

130 : 135 :

140 : 145 :

150 : 155a, 155b : ,

163 : 165 :

180 :

TH : (Through Hole) RA :

TA : d1 :

d2 : P :

(flat panel display)

plasma display panel
(electroluminescence display),
field emission di-
(liquid crystal display)가

가 , (color) , (notebook) (deskto
p monitor)

, 가

(panel) (backlight)

(transmission type)

(power consumption)가

(reflection type)

가 가 , 가
PDA(Personal Digital Assista nt)

Transflective)

1

, (80) . (50) (10) (10,

(50) , , (51) (55a, 55b, 55c) (53) 가 , , , , (53) (55a, 55b, 55c) (53) (55a, 55b, 55c) (63) (63) (65) .

(10) (11) (15), (20), () (21) ,
 가 (30) (40) (45) (25) (30) . , , ,
 0) (45) (TA) (45) (RA) (45)

(50) (10) (80)
(70)가 (50) (53)

가

(80) , (55a, 55b, 55c) (55a, 55b, 55c)
 5b, 55c) (80) , (45) , (80)
 가 (55a, 55b, 55c) (55a, 5

, , , , (cell gap)
 (Through Hole)

가 (mobile), PDA
 (hot issue) 가

가

가

가 가

(53) (70) (53) 가
 , (Through Hole)
 (Through Hole)

(Through hole)

1 , ; 1 , ; 1 , ;
 2 ; 1 3 ; 1 , ; 2 , ;
 , , ; , , ;

, , , , , , ,
 가 , , , , , , ,

1 2 ; 1

< 1 : 3 >

7a 7e
, 7a , (151) (154)
) , (190) (T1) (190) (B1)
· .
· , (190) (RED) (190) (RED) (190) (190) ()
· , (B1) (B1) (B1) (B1) (B1) (B1) (B1)
· , (T1) (T1) (T1) (T1) (T1) (T1) (T1)
· , (THA) (THA) (THA) (THA) (THA) (THA) (THA)
· , (154) (154) (154) (154) (154) (154) (154)

(263)

가

(57)

1.

1 2

1

1

1 3 ,
2 ;

1 3 ;

2 , , ;

, ;
; ;

2.

1 2 ;

1 ,
; ;

;

1 3 ,
2 ;

1 3 ;

1 3 ;

2 , , 가 가 ;

;

;

3.

1 ,
;

,

,

,
;

4.

1 ,
;

,

,

가 가

,
;

5.

1 4 ,
;

(BCB), (photo acryl), (cytop),
(perfluorocyclobutene)

6.

1 2 ,
 1

7.

1 2 ,

8.

1 2 ,
1 3

9.

1 2 ,
1 2 , 1 3
1 3

10.

1 2 ,

11.

, ,
, ;
, ,
, ;
,

12.

, ,
, ;
,

13.

11 12 ,
,

14.

13

, ,

15.

13

, ,

가 가

16.

11

12

,

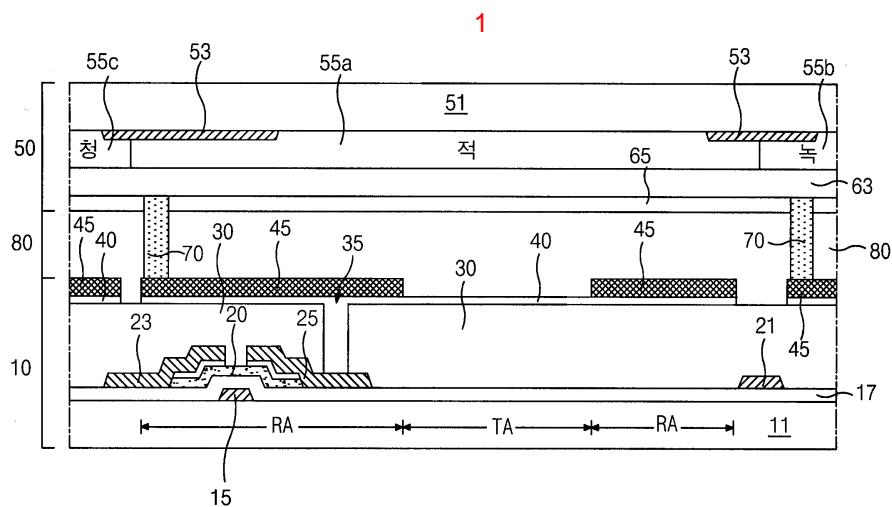
, ,

가 가

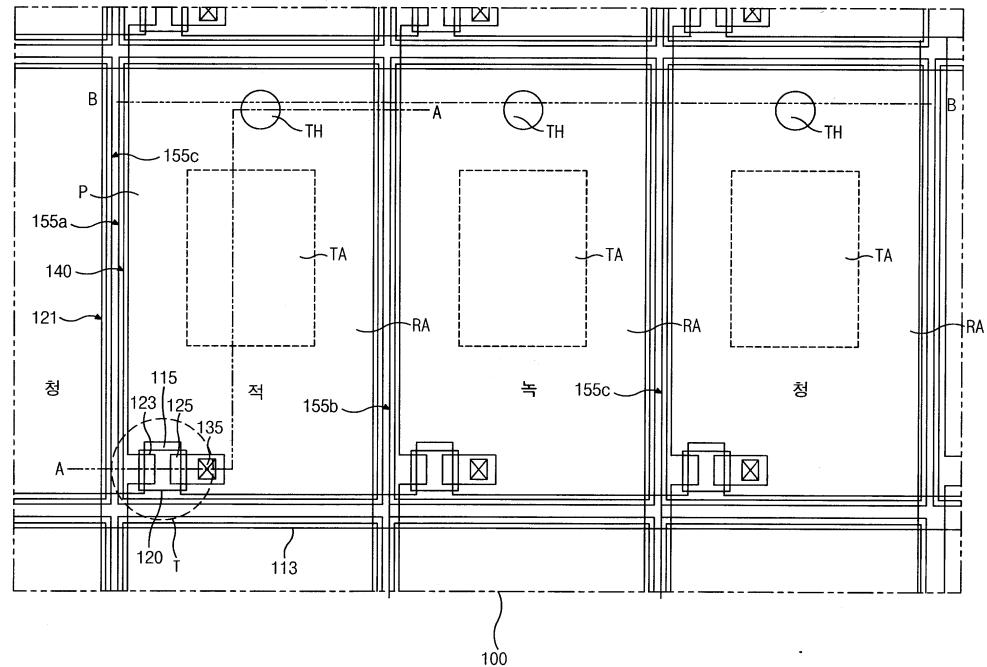
17.

16

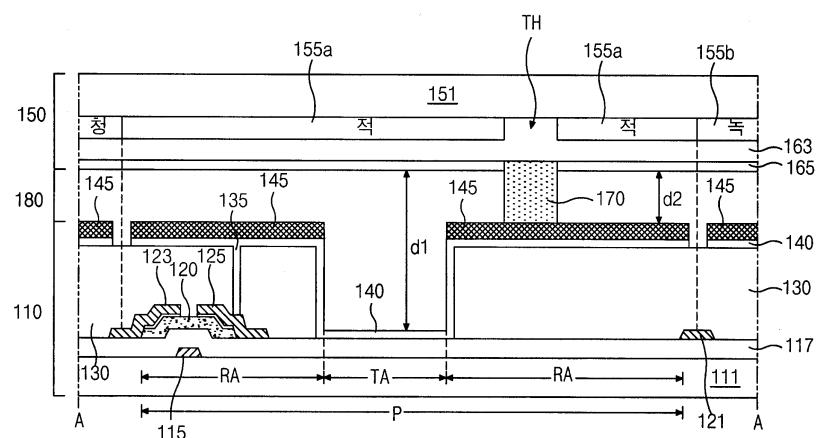
,



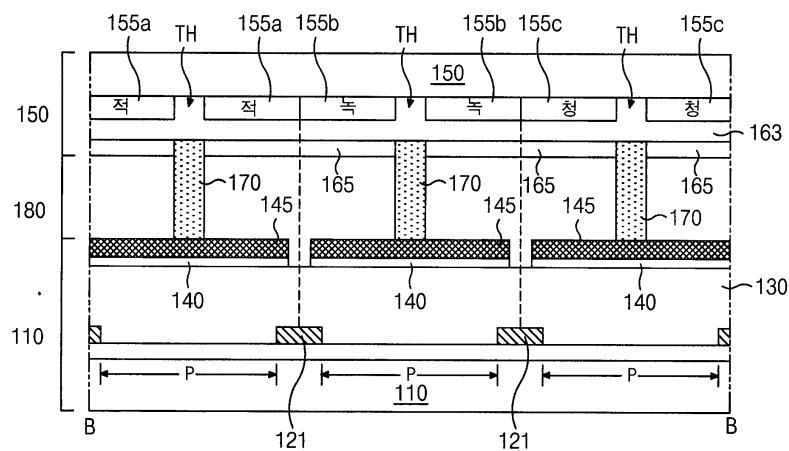
2

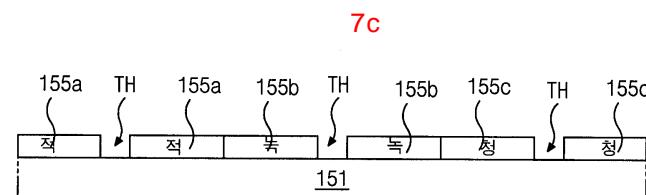
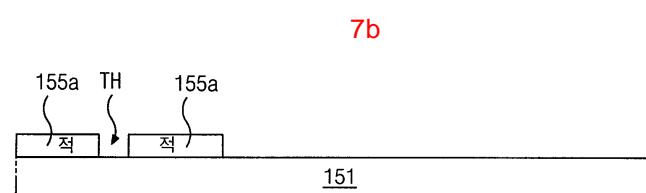
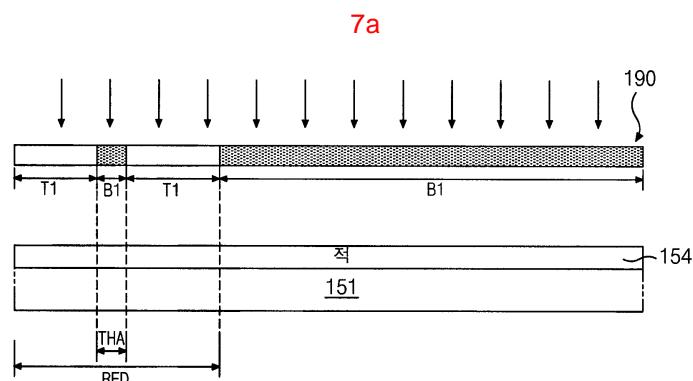
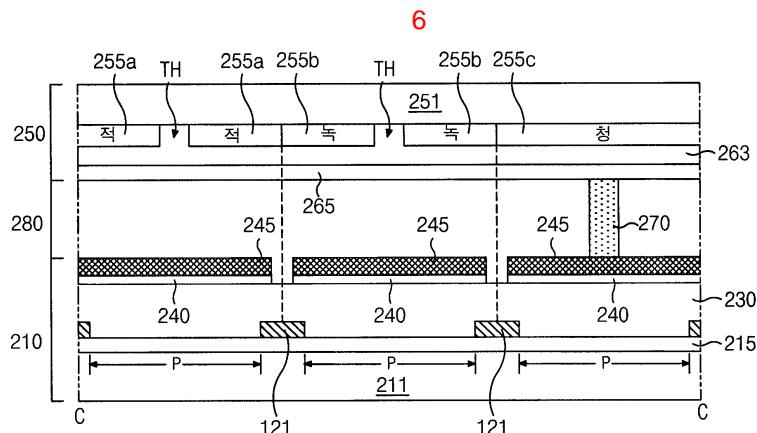
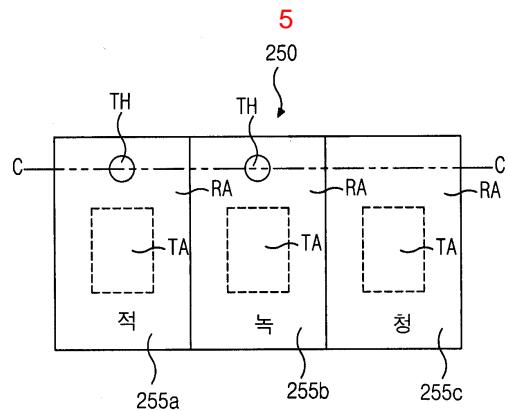


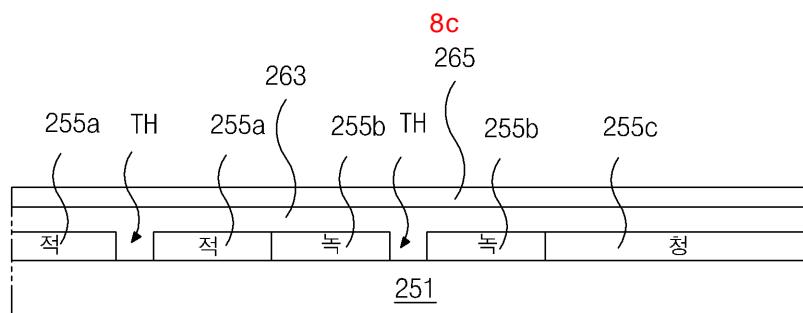
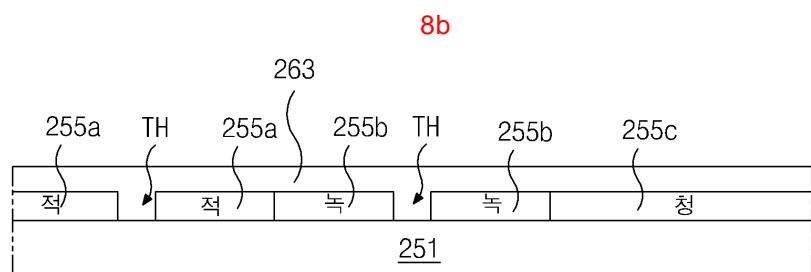
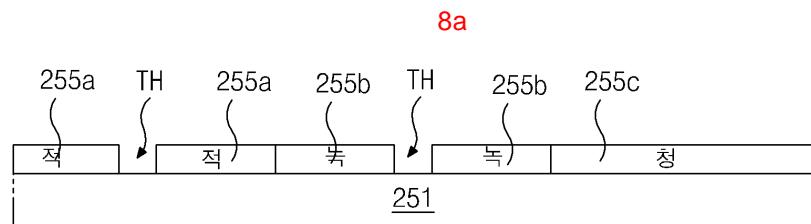
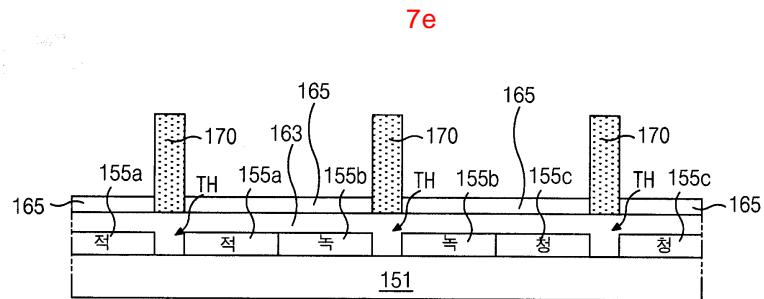
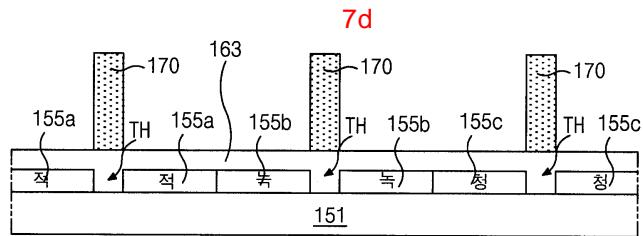
3

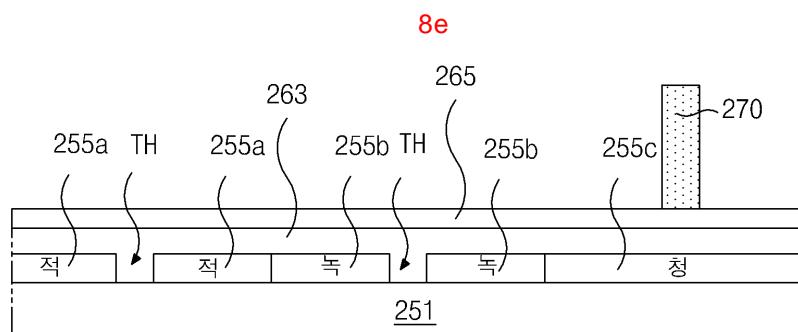
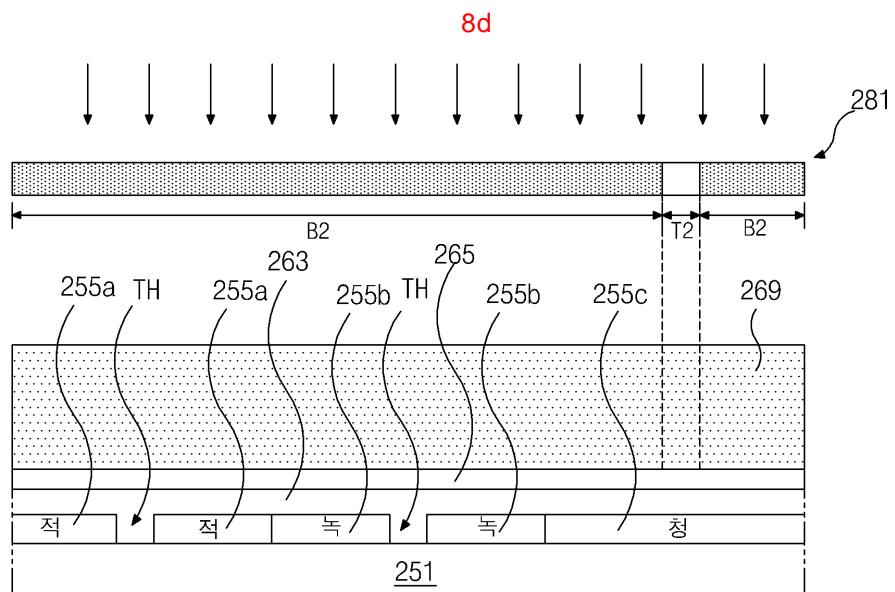


4









专利名称(译)	反射透射式液晶显示器		
公开(公告)号	KR1020040086734A	公开(公告)日	2004-10-12
申请号	KR1020040003224	申请日	2004-01-16
[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	HWANG HANWOOK 황한욱		
发明人	황한욱		
IPC分类号	G02F1/1339 G02F1/1335 G02F1/1333		
CPC分类号	G02F1/133371 G02F1/133514 G02F1/13394 G02F1/133555 E01D21/00 E01D22/00 E01D2101/32 E02D27/04		
优先权	1020030021390 2003-04-04 KR		
其他公开文献	KR101012494B1		
外部链接	Espacenet		

摘要(译)

本发明涉及半透半反型液晶显示装置，特别涉及高分辨率半透半反型液晶显示装置的柱间隔物形成。近来，对于半透射型液晶显示装置，虽然夸大了客户对产品的需求，但是优选具有高清晰度触摸屏功能的高质量产品。它必须以高分辨率和高开口率结构形成，以实现高清晰度。它确保了使用柱状垫片对触摸屏功能的信心。但是高分辨率高开口率结构的半透射型液晶显示装置是通孔，反射模式的亮度和透明模式以及颜色顺序适合于对应于在像素中形成的滤色器图案的平衡。高质量的像素尺寸很小。因此，在本发明中，提供了一种高分辨率半透射反射型液晶显示装置，它可以有效地利用高分辨率模型的窄像素区域，特别是通过叠加柱状衬垫和通孔并形成反射体区域。透射型，柱状间隔物，通孔，液晶显示器。

