

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
G02F 1/1333

(11)
(43)

2003-0075921
2003 09 26

(21) 10-2002-0015404
(22) 2002 03 21

(71) 3 416

(72) () 511 1302

(74) :

(54)

가 . , , , , 1 , 1 1 , 1 , , , .

7

, , , , ,

1 .

2 / .

3 .

4

5

6

7

8

9a 9g

, , , , /

1

1 2 , (120), 1 (110) 2 가 1 (110), 1 (110)
 (130) (pixel) (120) (135) (130) 1 (110)

1 (110) 1 (140) 1 (140) (TFT)(145)
), (170) (145) (175) (150), (155), (160), (ohmic) (165)

(145)가 1 (140) (177) , (resist)
 (175) (180) (180) (145)
 (185) (185)

(185) (180) (135) (135) (185)
 (175) , (135)

(135) 1 (orientation film)(200)

1 (110) 1 (120) 2 (205), (210), (215), 2 (220),
 (225) (230)

2 (205) 1 (140) (225)
 (230) 2 (205) (210) 2 (205)
 , (210) 2 (220) 2 (120)
 2 (220) 1 (110) 1 (200) (130)

1 (110) 2 (120) (235, 236)가 1 (110) 2 (120)
 , 1 (110) 2 (120) (130)
 2 /
 2 , / 1 (340) (320)가
 324,326 , 323 322 , 328b , 328a
 , (320) (323) (329)
 (330) , (330) (329) (320)
 (328a)
 , (330) / (340,360)
 / (340,360) (340) (360)
 (360) 가 (365) , / (340,360)
 (340) ITO IZO , (360)
 , 1 (340) (380) 2 (390) , (370)
 / 가
 , / 가 가
 , (PR)
 3, 4
 3 4 , 3
 , 4
 , (414, 424) (414, 424)
 가 가 가

1 ;

1 ; 1

1 ;

1

5

5 (512) (514) (514a, 514
b, 514c) (512) ITO (516)

(514a, 514b, 514c) (512)

6

6 (522) (522) 가 (524) (522)
(522) ITO (526)

(524) (522) 1 2 (524a) (524) 가
(522)

가

가

7

7 (532) (532) 가 (532)
(532) (534)

(- ' , - ' , - ')

가 1 2 (534a, 534b) (534) (534)
(532) , 3 4 (532a, 532b) (534)

가 5 (534c) (534) (534)
(532) , 6 (534d) (534) (534)
가 7 (534e) (534) 가 (532) (532)
, 8 (534f) (534) 가 (534)

가 (532) 9 (534g) (534) (534)
 , 12 (534j) 10 (534) 11 (534h, 534i) (532) (534)
 , (534) ITO (532) (536) (532)
 가
 , TFT , TFT 가
 8 9a 9g
 8 (590) (600) (610) (600)
 TFT (700) (810) (700) (800)
 (600) (700) TFT (800)
 9a 9g
 8 9a (590)
 (W) (590) (Al), (Mo), (Cr), (Ta), (Ti), (Cu)
 (600) (700), (700) (611, 711) (590) TCP() 가
 (611, 711) (700) (590) (patterning) (610) 가 (610)
 (700) (711) (600) (700) (610) 가 (611)
 (611) (711) (610)
 (711), (611) (610) - (Al-Cu)
 (Al-Si-Cu)
 9b (SixNy) (611), (711) (610) (590)
 (613, 713, 813)
 9c (713) (in-situ) n⁺
 n⁺
 (715) (716) (713) (711)

(715)

(590)

(810) (819) (717) (819) (719) (610) (810), (810)

(590) (700) (711), (715), (716), (717)

(719) 가 (600) (800)

(611) (819)가 (810) (610)

(613, 713, 813) (810) (610)

9d (600), (700) (800) 1

3 (621, 721, 821) 1 3 (621, 721, 821)

(600), (700), (800)

9e (611) (623a, 623b, 623c)

(700) (723a, 723b) (800)

(823a, 823b, 823c) (611) (613) (600) (623a, 623b, 623c)

9f (590) (700), (600) (800)

(resist) 1 3 (624, 724, 824)

1 3 (624, 724, 824) (BCB; bisbenzocyclobutene) (PFCB; perfluorocyclobutene)

(611), (700) (821) 1 3

(624, 724, 824) 1 3 (624, 724, 824)

(611) (625a, 625b, 625c) (700)

(825a, 825b, 825c) (725a, 725b) (821)

9g 2 (724) (730) (730)

ITO IZO (730a, 730b) (719)

(611) 1 (624) (625a, 625b, 625c)

(611) 1 (630) 1 (630) (630a, 630b, 630c)

(821) 3 (824) (823a, 823b, 823c)

(251) 2 (830) 2 (830) (830a, 830b, 830c)

c)

1 2 (630, 830) ITO IZO

1 2 (630, 830) 1 3 (624, 824) (630a, 630b, 630c)

0c, 830a, 830b, 830c) (611, 821)

9a 9g 2

(724) ()

2 (724)

() ,

,

,

,

.

,

.

, /

.

가

(57)

1.

,

,

,

,

;

1 ;

1 , 1 ;

1 ,

.

2.

1 , 1 , 1

.

3.

1 , 1 , 1

.

4.

1 , ,

, 1

;

1 ;

, 2 ;

2 , 2 ;

1

2

1

5.

1

2

2

3

2

3

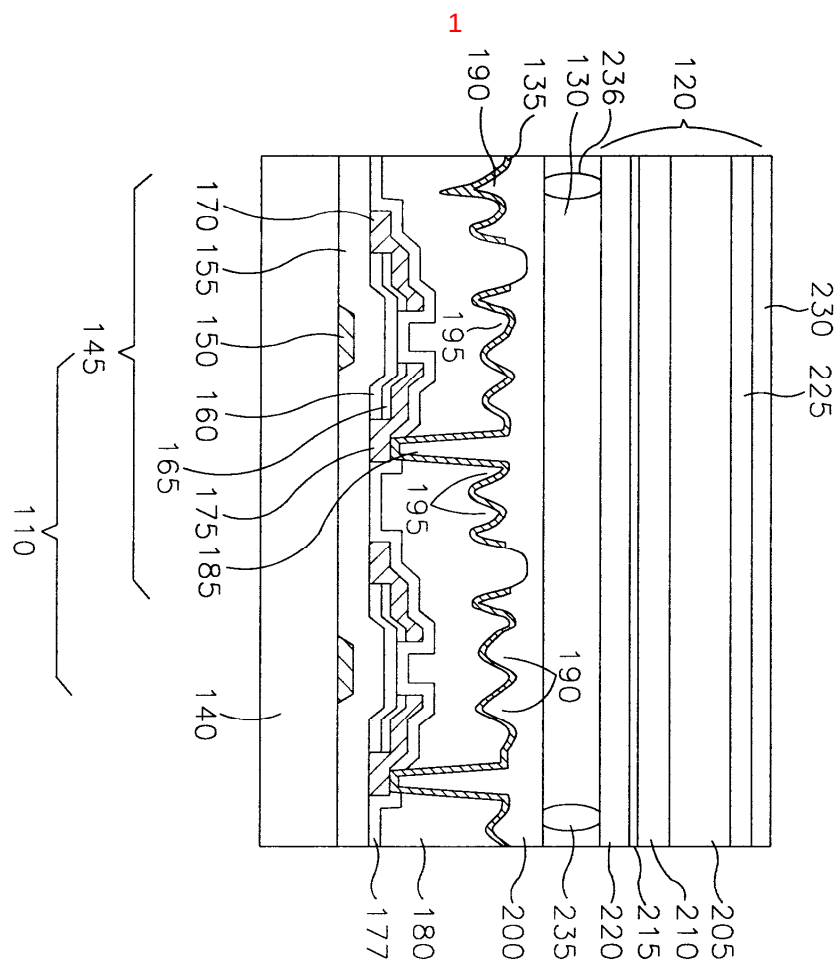
2

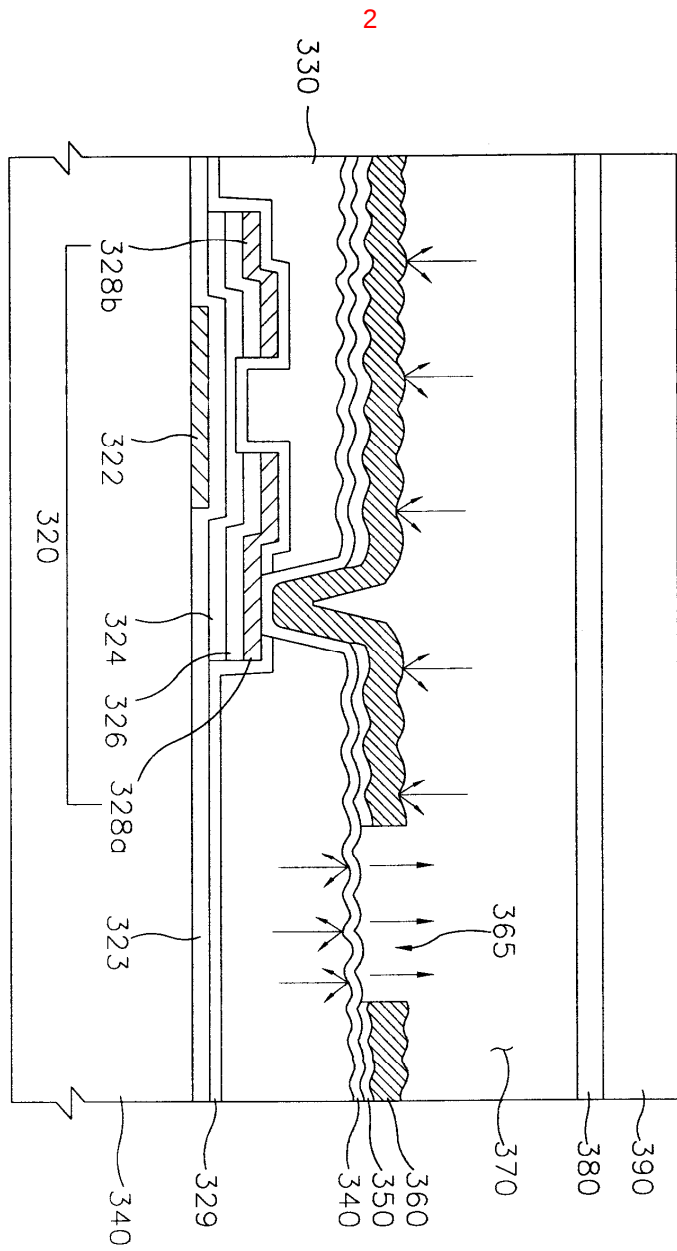
2

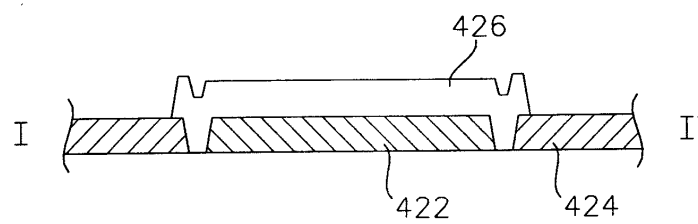
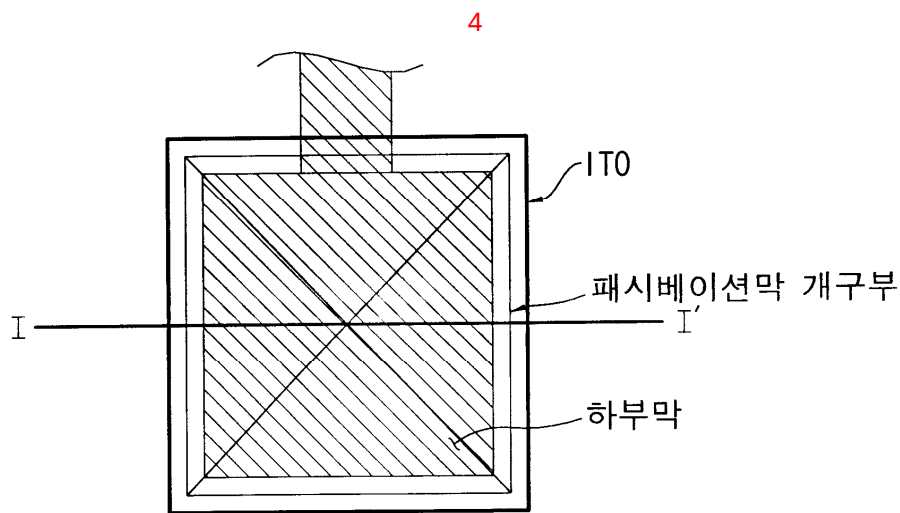
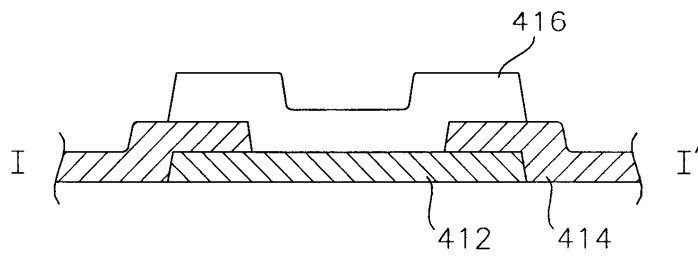
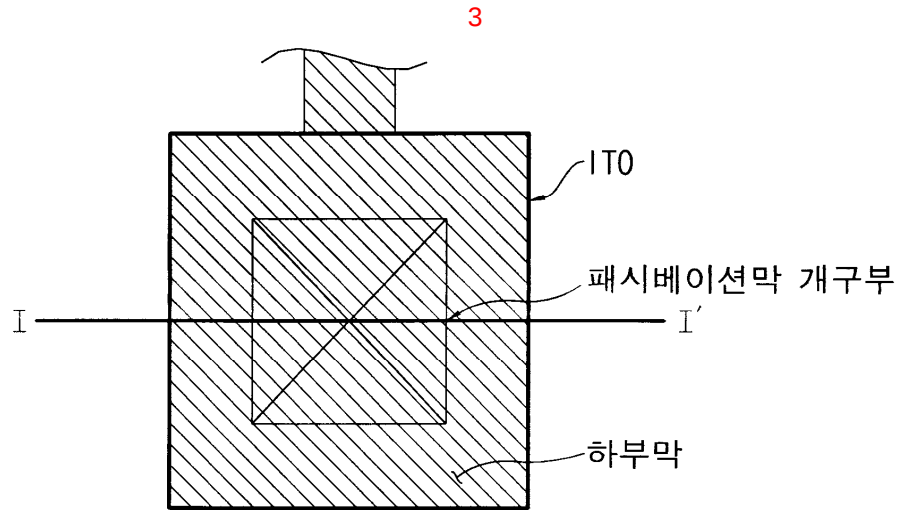
3

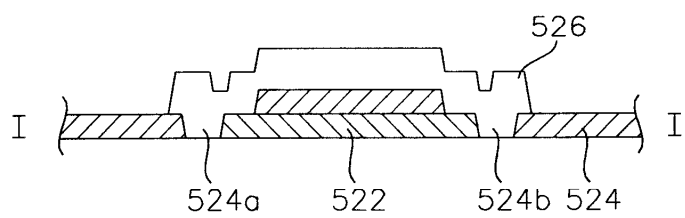
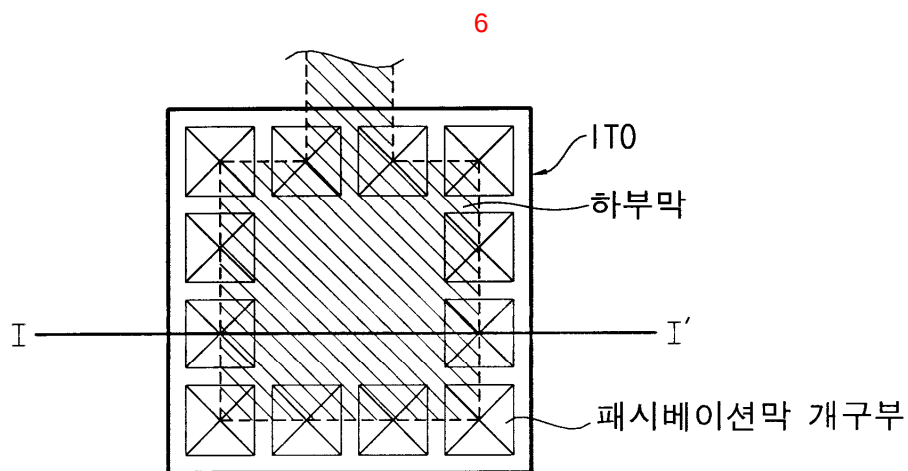
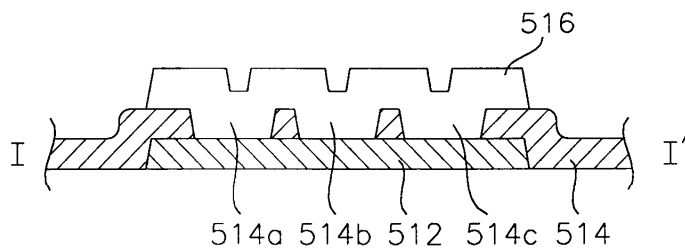
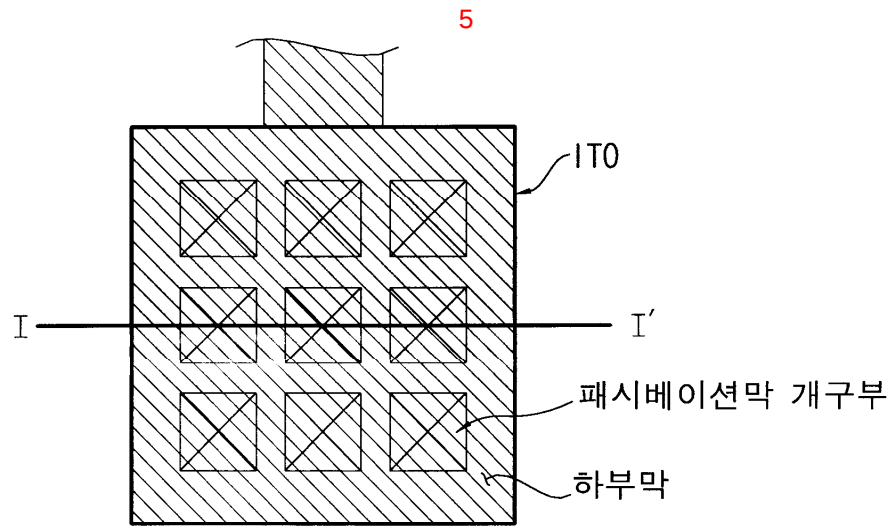
3

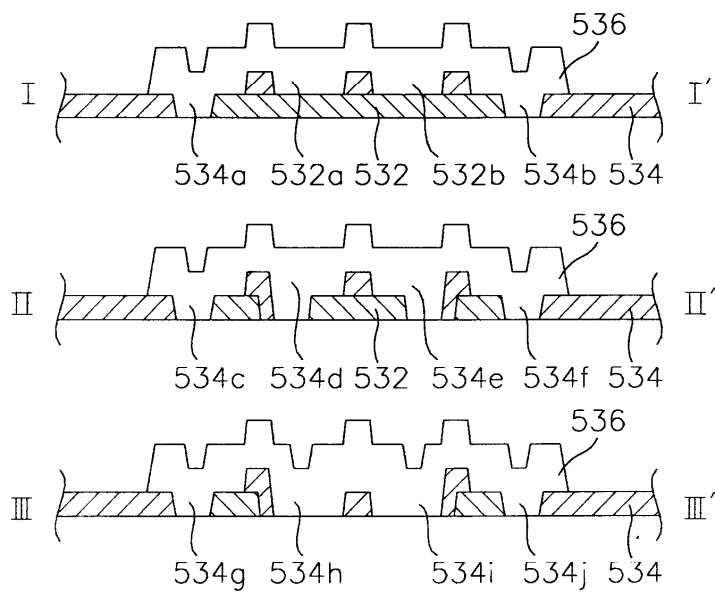
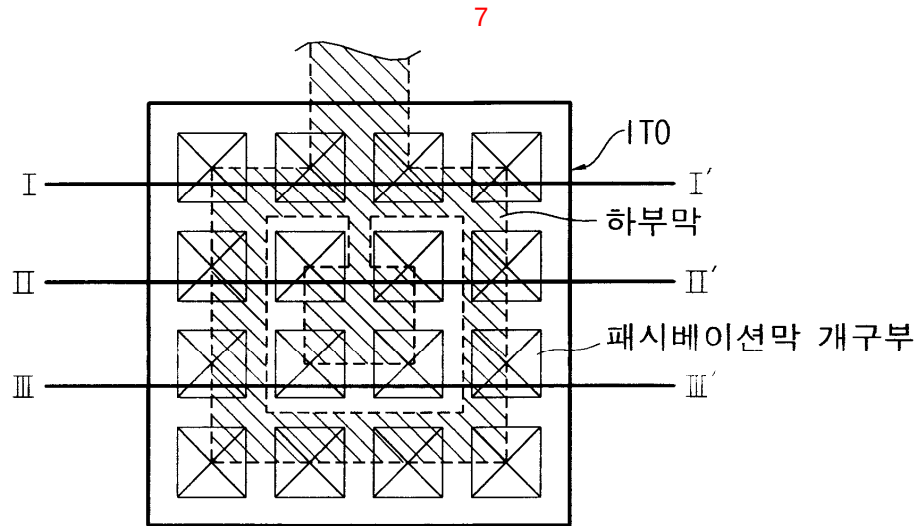
2

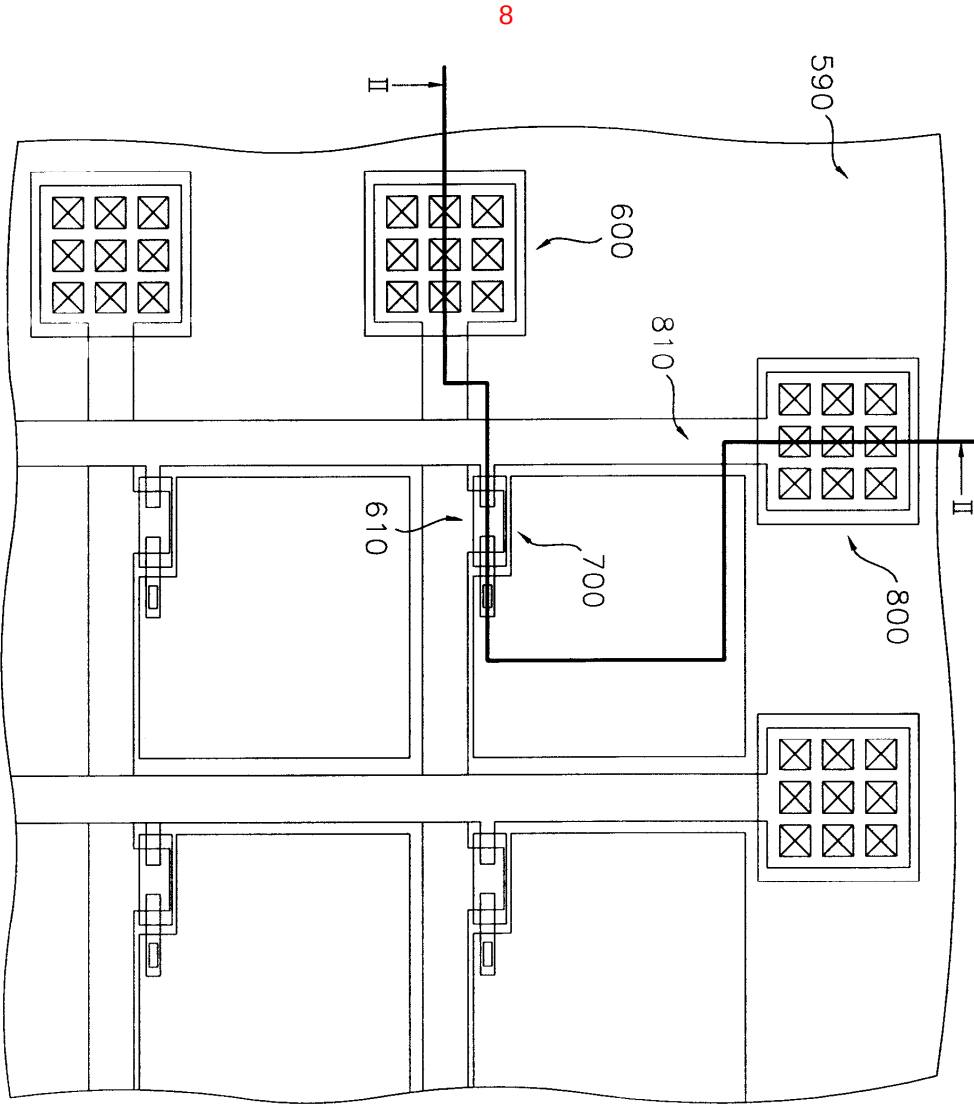


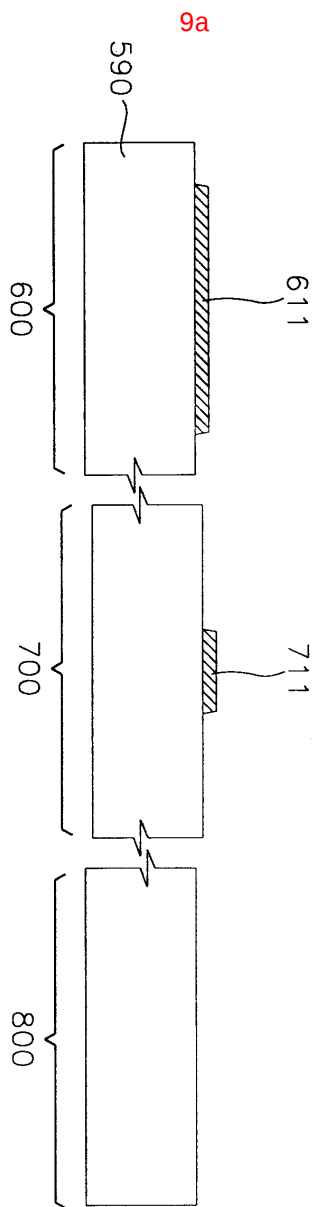


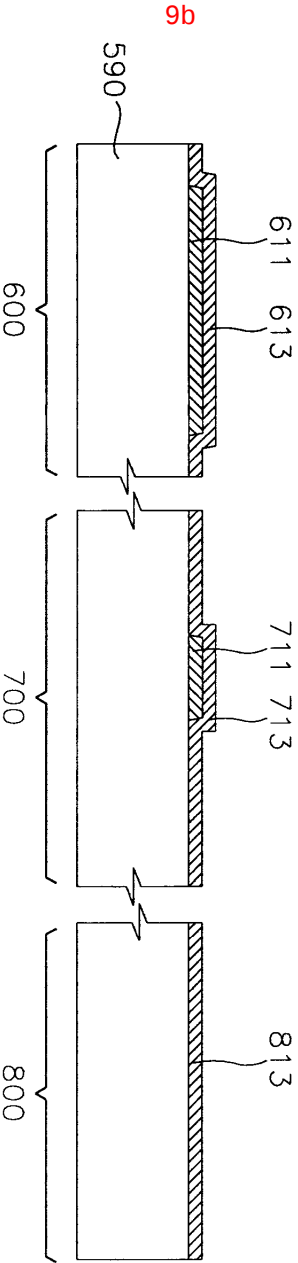


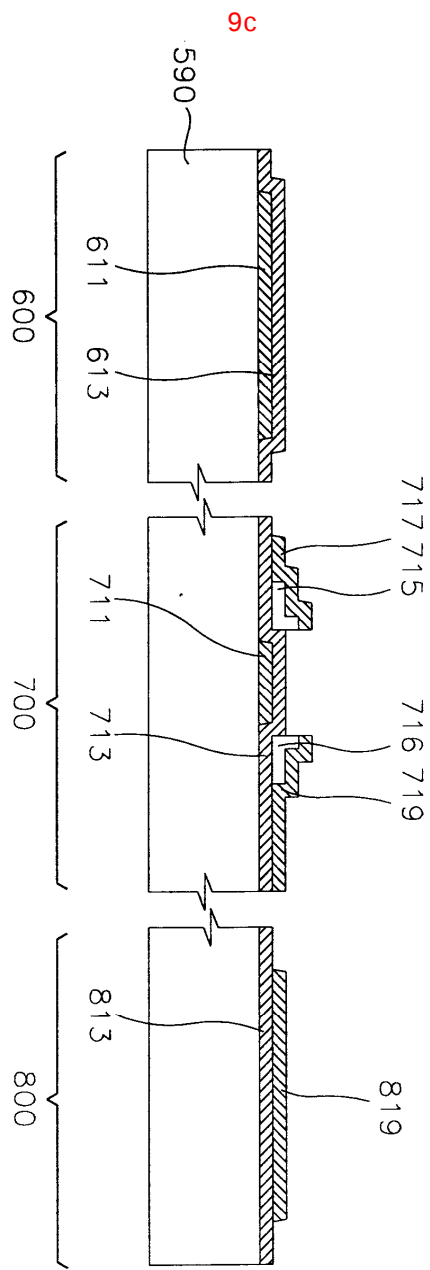


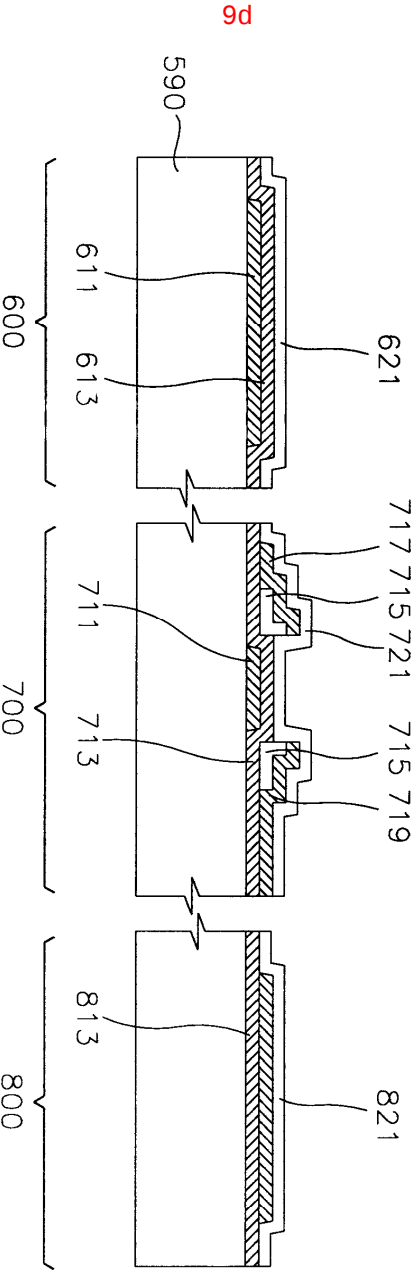




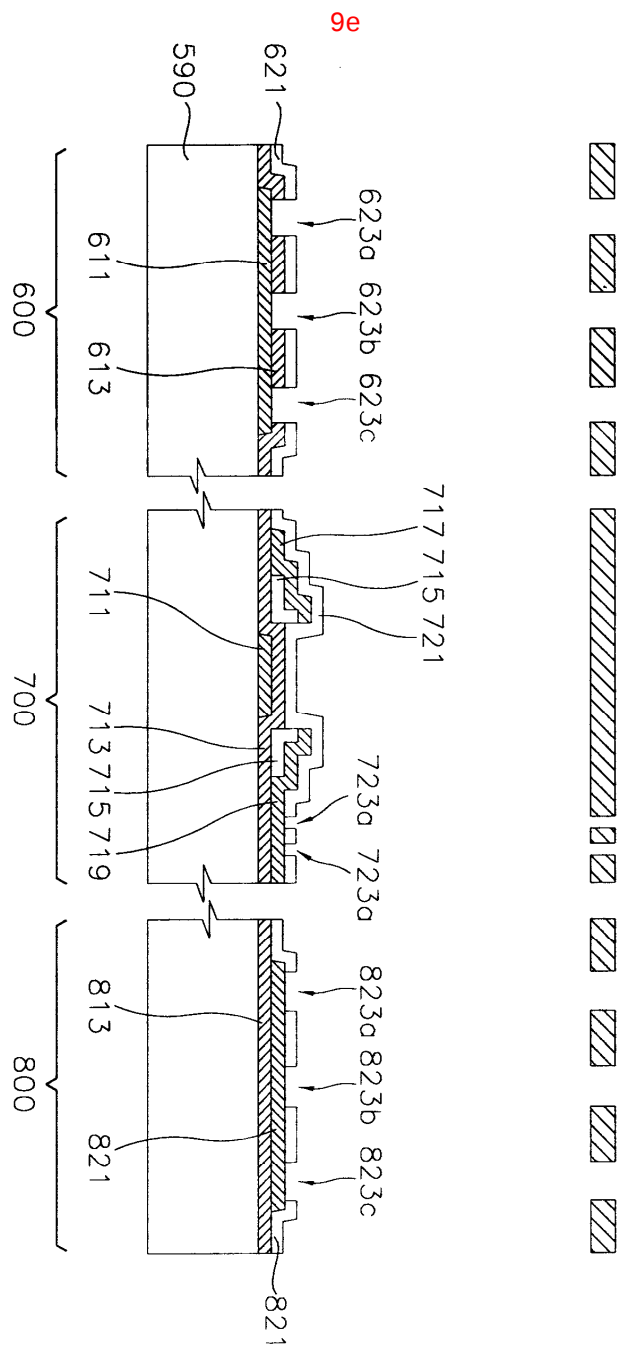


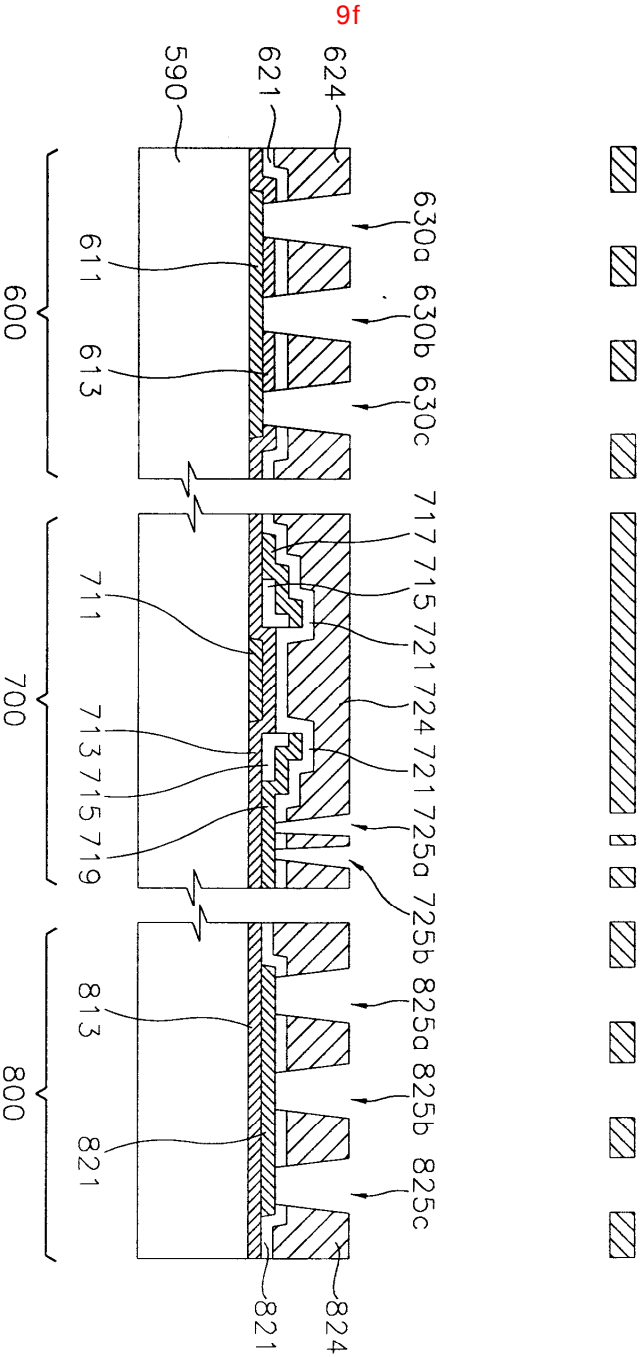


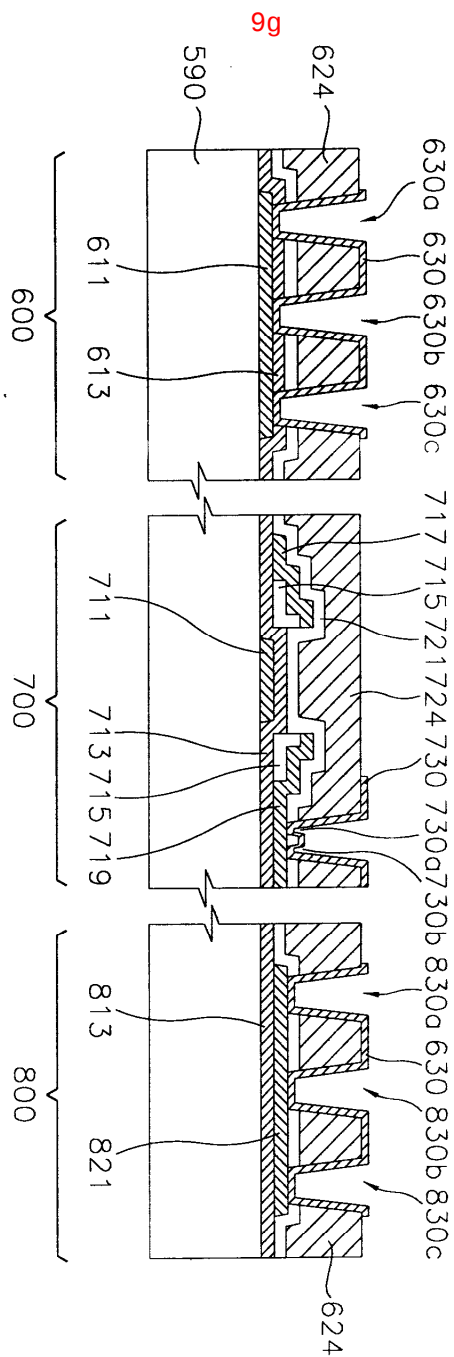




9a







专利名称(译)	具有多孔钝化膜的液晶显示装置		
公开(公告)号	KR1020030075921A	公开(公告)日	2003-09-26
申请号	KR1020020015404	申请日	2002-03-21
[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		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	LEE WONKYU 이원규		
发明人	이원규		
IPC分类号	G02F1/1333		
CPC分类号	G02F1/133345 G02F1/1335 G02F1/136227 G02F1/136286 G02F1/1368 G02F2201/123		
代理人(译)	PARK, YOUNG WOO		
其他公开文献	KR100878201B1		
外部链接	Espacenet		

摘要(译)

本发明公开了一种液晶显示器，用于具有多孔钝化层，用于减少底层，特别是通过钝化膜的拓扑结构去除有机绝缘膜。包括透明基板中的多个像素和从数据线的一端延伸的数据焊盘部分。从数据线的一端延伸的数据焊盘部分连接到从连接到像素的栅极线的一端延伸的栅极焊盘，并连接到像素。这里，像素包括开关元件，包括与栅电极电连接的源电极和栅电极以及漏电极和漏电极，开关元件被覆盖，该开关元件是通过通孔与漏电极电接触的像素电极。多方面，它是暴露的。因此，特别地，位于有机绝缘膜的下部的底层减少了通过钝化膜的拓扑结构污染的有机绝缘膜的产生。可以减少指示真实图像的部分处的斑点。钝化，有机绝缘膜，阶梯式滑轮，图案，通孔，接触孔。

