

(19)
(12)

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(11)
(43)

10-2004-0012223
2004 02 11

(21)

10-2002-0045666

(22)

2002 08 01

(71)

136-1

(72)

3 157-1

202

934-3

465 6 604 604

(74)

:

(54)

VA(Vertical Alignment) TN(Twist Nematic)

1 1 , 2 ,
2

가

5

1

2

3	2	-	.
4		1	.
5	4		.
6		2	.
7a	7g	2	.
8a	8g	2	.

wist Nematic) , VA(Vertical Alignment) TN(T
 1 .
 , 1 (10)(20) 가 (10)(20) (10)
 가 (30) (20) . (10)(20) 가 (10)
 (10)
 or)(12), 가 (Thin Film Transist
 ()
 14 ()
 (20) (22) () 24 (color filter)
 (22) , (22) 가 가 가
 , 가 가 가
 , 가 가 가
 가가 가가 가
 가
 (transition) .
 2 (transition)
 , 3 2 -
 2 3 (12)가 (10) (30) (20) (40)
 . IPS(In Plain Switching) (mode), FFS(Fringe Field Switching)
 TN(Twist Nematic) , VA(Vertical Alignment) .

(20) (10) (60)

(40) (nickel) (paste)가 , (5)

가

(40) , ,

(40) Ag, Ni ,

(20) (100 (40) (52)

(40) Ni Ag , 가 3μm

(cell gap) Ag Ni가 가 ,

ODF(One Drop Filling) ODF , VA

ODF Tr

1 1 2 2

1 1 1 2

2 2 1 1

1 2 0.1 0.4mm , Cu, Ag Ni

2 / 1 1 1

1 400 .

2 , 2 ,

2 2

2 2

2 1/2 .

4 1 . 5 4

200) , 1 () , 4 (202) , 5 (200) (202) 1 (208) (204) , (200) 2 (208) 2

1 2 가 가 2 (200) 1 2 (208) (206)

6 2

7a 7g 2

2 1 , 2

가 1 2 (106) , 6

가 .

1 (106) 가 .(6

•) , (106)

102 , 104

, VA

7a 7g 2

2 (200) (100) (104) , 7a

, 7b (100) (104) (210)

, (212, 214, 216-

8) , 7c (220) , / (218) (220) , (21

1 (250) 7d (221)

(104) (232) (230)

1 (232) 7e (233)

0.1 0.4mm 1 (233) (232) Cu, Ag Ni

1 2 (240)

7f (241) 2 (241) 1 (233) 2

2 (241) (241) (216,214,21

219 /

2 7g (242)

(244) 1 (233) 400

8a 8g 2

2 (300) (BM:Black Matrix)(302) 8a

8b (302) (304)

8c (310)

8d (302) (304a)(304b)(304c)

8e (304a)(304b)(304c) (314)

2

8f (304a)(304b)(304c) 2 (315)

(320) (322)

8g (315) (323)

2 (323) 0.1 0.4mm (232) Cu, Ag Ni

2 (323) 1/2

(326) (326) 2 (323)

400

2 (233)(323)

가

2 가 가

가 가

가 가

VA

TN

1 가
2 가

(57)

- 1. 1 , 2 , 1 2
- 2. 1 , 1 1 , 1 2 2
- 3. , 1 , 1 2
- 4. 3 , 1 2 0.1 0.4mm
- 5. 3 , 1 2 Cu, Ag Ni
- 6. , / 1 , 1

1

7.

6 1 400

8.

2

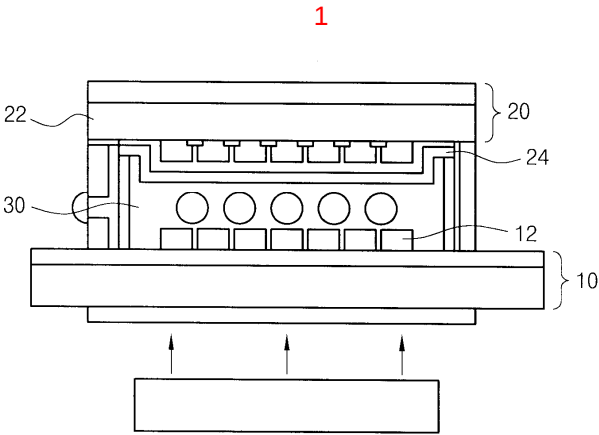
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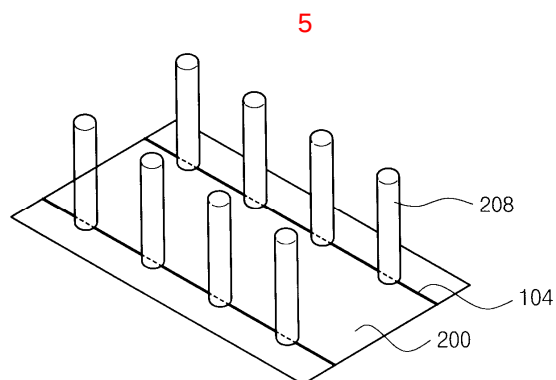
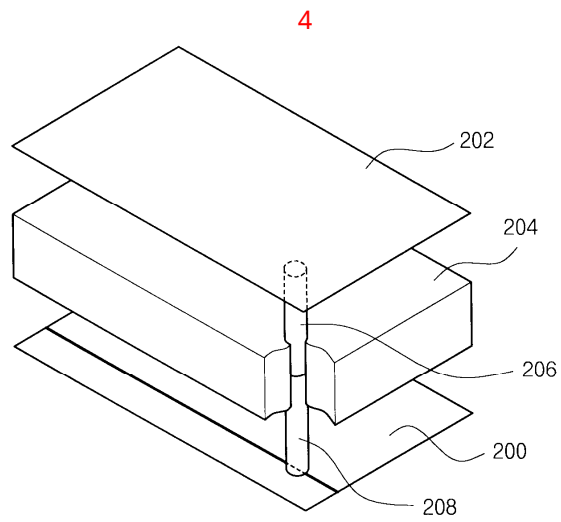
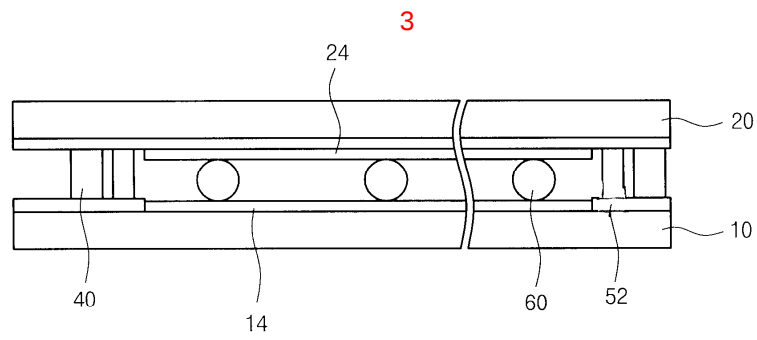
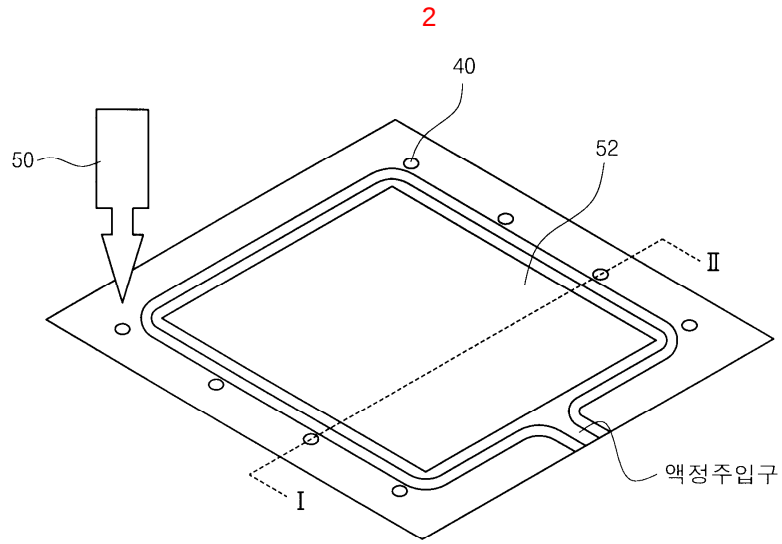
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9.

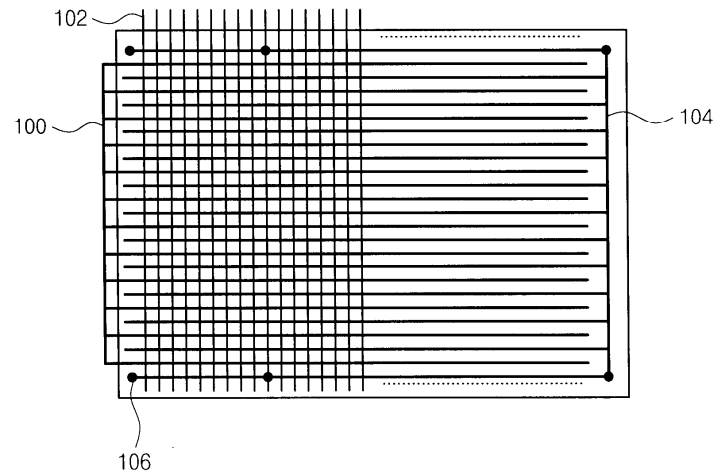
8 2 2

1/2

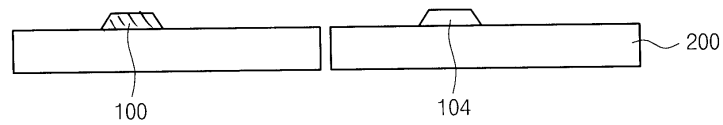




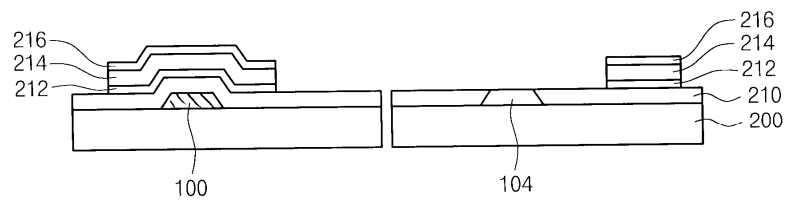
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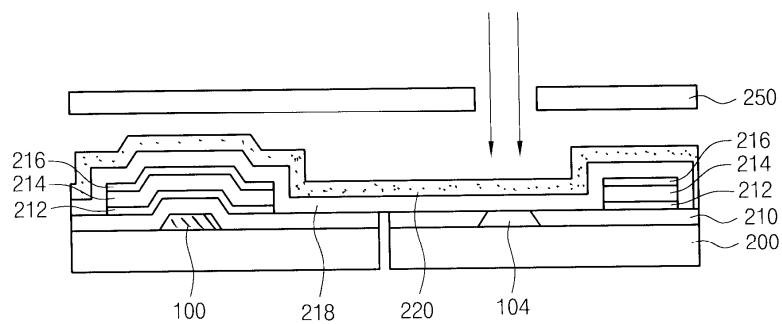
7a



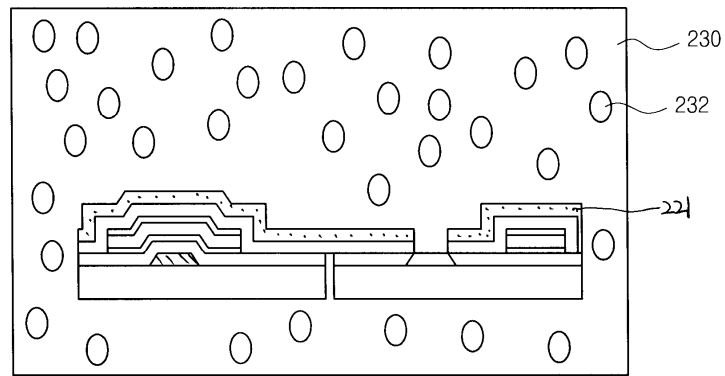
7b



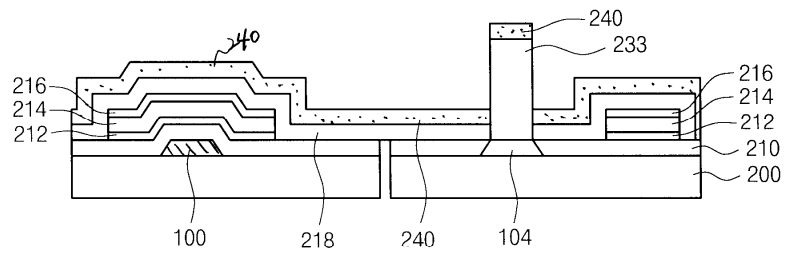
7c



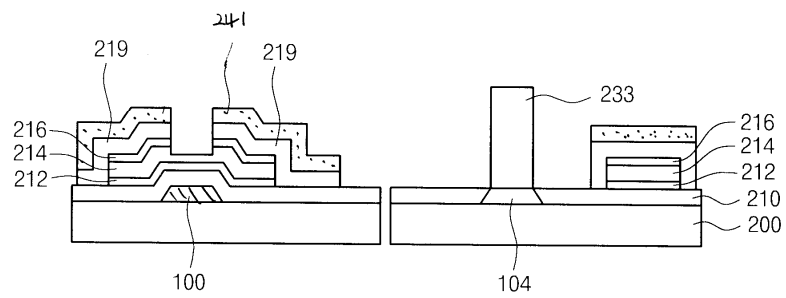
7d



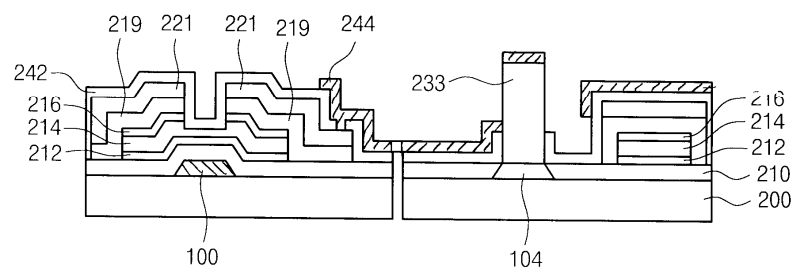
7e



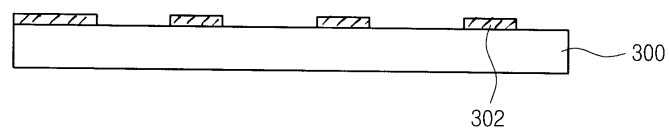
7f



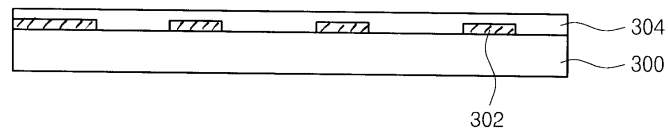
7g



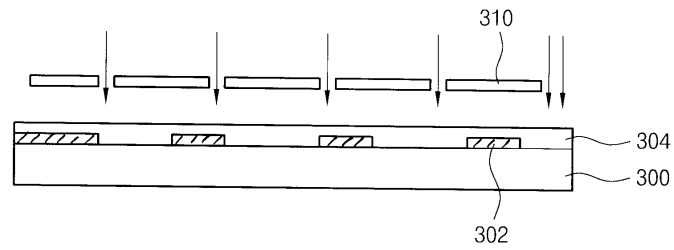
8a



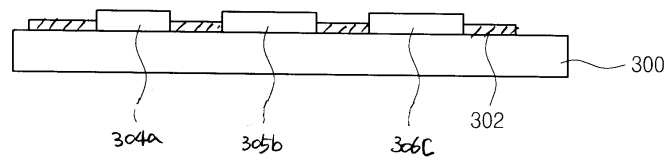
8b



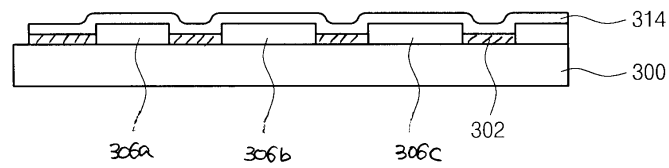
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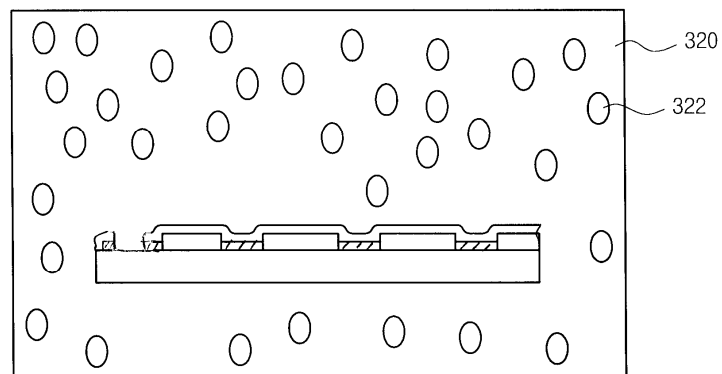
8d



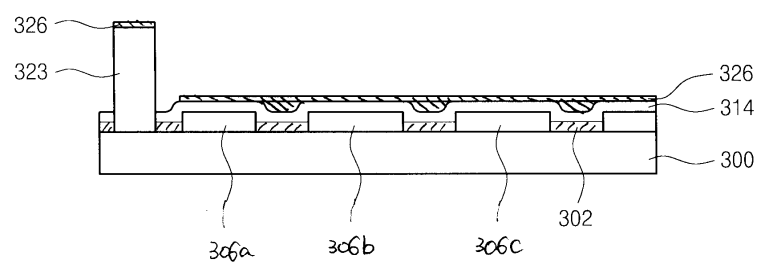
8e



8f



8g



专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020040012223A	公开(公告)日	2004-02-11
申请号	KR1020020045666	申请日	2002-08-01
[标]申请(专利权)人(译)	HYDIS TECH HYDIS技术有限公司		
申请(专利权)人(译)	하이디스테크놀로지주식회사		
当前申请(专利权)人(译)	하이디스테크놀로지주식회사		
[标]发明人	YOO SEJONG 유세종 LEE SEUNGMIN 이승민 KIM JINMAHN 김진만		
发明人	유세종 이승민 김진만		
IPC分类号	G02F1/136		
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代理人(译)	赵龙HYUN		
其他公开文献	KR100852832B1		
外部链接	Espacenet		

摘要(译)

本发明公开了甚至可应用于VA (垂直取向) 模式或TN (扭曲向列) 模式的液晶显示器及其制造方法。本发明的液晶显示器包括下板, 其配备有第一公共电极和上板, 配备有第二公共电极和下板, 第一公共电极形成在上板和单元间隙之间。保持两个基板, 并且导电条连接第二公共电极。因此, 本发明涉及宽屏幕中公共电极线的电阻增加。并且减少了人海战术信号失真现象的产生和整个面板的公共电极稳定。并且由此, 可以提高整个面板的屏幕质量。

