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10-2005-0002562
2005 01 07

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10-2003-0043945

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2003 06 30

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3 967-14

(74)

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(54)

2 1 ; 1
가 2 ; 1
2 1 ; 1 2 . 2 ; 1

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3

4a 가 가

4b 가 가

5 가 가

6a 가 가

6b 가 가

7a 7e

8 4 가

★

300a : 1 300b : 2

301a : 1 301b : 2

303b : 2 304 :

305 : 306 :

309a, 309b :

가 , LCD
(Liquid Crystal Display), PDP(Plasma Display Panel), ELD(Electro Luminescent Display), VFD(Vacuum Fluor
escent Display) 가 가 ,

hode Ray Tube) LCD가 가 CRT(Cat

가

가

가

가

(Multi-domain)

(pixel)

2

가

가

1, 2

1, 2

1, 2 (spacer) (sealant)

1

1 (1) 2 (2) (3)

(5) (4) 1 (1) (P) (4) (6) (5)

(6) 가 (4) (T)가 / (5)

(P) 2 (2) (P) (7) (9)

R, G, B (8)

(3) 1, 2 (1,2) ()

() (T) (4) , (5)

(6) - - (indium-tin-oxide : ITO)

(3) (Twisted Nematic : TN) , TN
.
(VA;Vertical Alignment) ,
가 .

2
2
2
(70, 80) , (90) (70, 80) (60)가 , (70)
(60)가 , (80) , (60)가 ,

3, 4a 4b 3 ~`

1, 2 (301a, 301b) 1 (300a) ; 1 (300a)
 (300a) (301a, 301b) (309a, 309b) 가
 (302) ; (302) (303a) ; 1 (300a)
 2 (300b) 2 (303b) ; 1 (300a) 2 (300b)
 (307a, 307b)

1 (300a) (302) (302) (309a, 3
 09b) (306)

1 (300a) (309a, 309b) 가 (306) (30
 6) (302) (302) (306) (30
 309a, 309b) 가

(302) (302) (309a, 309b) 1
 (303a)

(309a, 309b) 가 1
 (300a) 1 (301a) (309a) 2 (301b) 가
 (309b) 가 1 (301a) (309a)
 (309b) 가 2 (301b) 가

(309a, 309b) 가

(301a 301b) (309a 309b)

2 (300b) (305), (304) (307a, 307
 R, G, B 2 (303b) b)

1, 2 (303a, 303b) (307a, 307b)
 가

1 (300a) (302) 2 (300b)
 (305)

(302) (302) (309a, 309b)
 (305)

(302)

(302) (304) 가 (302) (304)
 가 (307a, 307b)

(307a, 307b) 가 가
 1, 2 (303a, 303b) 가 가
 1, 2 (303a, 303b) 가

4a 가 가 , 5 4b 가 가

1 , (300a) 1, 2 (301a, 301b) (302) (304) 가 , 4a ,
 , 1, 2 (303a, 303b) (307a, 307b)

1 (300a) 1 (301a) 1 (303a) 1 (303a) (309a)
 가 (309a) 1 (303a) (309a)

1 (303a) (309a)
 1 (303a) 2 (303b) 1 (303a) 2 (303b)

2 (303b) 2 (303b)

2 (301b) 1 (303a) 2 (303b) (301a, 301b)
 2 (303b) 가 가

(308)가 (302) (304) 가 , (302) (304)
 (308) 4b , 1, 2 (301a, 301b)

5 1 (301a) (309a) (310a) 2 (301b)
 (309b) (310b) , 1 (301a) 2 (301b)
 9a) (310a) (311a) 2 (301b)
 9b) (310b) (311b)

1, 2 (303a, 303b) (308) 1,
 2 (303a, 303b) 가

(301a, 301b)

6a 가 가 , 6b 가 가

6a 6b 1 (301a) 2 (301b)

가 가 , 6a ,

1 (303a) 1 (303a) (309a 309b) (309a 가 ,
 1 (303a) (309a 309b)

1 (303a) , 1 (303a) 1
 (300a) +10 ° -10 ° (80 °) 1 (300a) 90 ° 1 (303a)

, 2 (300b) 2 (303b) (309a, 309b) 2 (300b) 90 °
 , ,
 , 가 가 0 가 ,
 , 가 가 , 6b ,
 , 가
 , 1 (303a) 1 (300a)
 , , 1 가 가 ,
 90 ° , 1 (303a) 가 1 (300a)
 , , 가 가
 , (disinclination line) ,
 ,
 ,
 ,
 7a 7e
 , 가 1 (900a) , 가
 2 (900b)
 , 7a , 1 (900a) (803)
 , 7b , (803) (,) ,
 , 1 (806) 1 (801a) (803) 1
 , 2 (801b) (803) 1 2
 , 7c , (803) (804) ,
 (804) 가
 (804)
 , 7d , (804) 1 (805a)
 , 1 (805a) ,
 , 1 (805a) (Polyamide), P
 VA(Poly Vinyl Alcohol), (Polyamic Acid) PVCH(Poly Vinyl Cinnamate), PSCN(Poly Silo
 xane Cinnamate) CelCN(Cellulose Cinnamate)
 1 (805a) , 가
 , 7e , 2 (900) 2 (805b)
 2 (805b) 1 (805a)
 , 가

2, (803), (804) 1 (805a) 1 (900a) 2 (805b)
 2 (900b) (spacer)() (900a, 900b) (806) (sealant)(
)
 , (806) 1 (900a) 2
 (900b) 가 ,
 , 1 (900a) 2 (900b) 1 (900a) 2 (900b)
 ,
 1 (900a) 1 (900a) 2 ,
 1 (900a)
 8 4 가
 , 8 , 1 1, 2, 3, 4 (801a, 801b, 801c, 801d) 4
 , (801a, 801b, 801c, 801d) (800a, 800b, 800c, 800d)
 , 4
 가 가 가
 가

가

(57)

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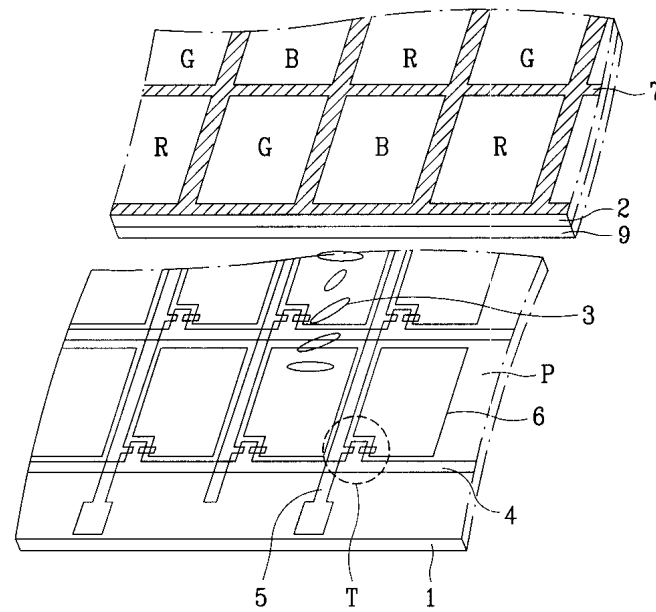
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11.

6

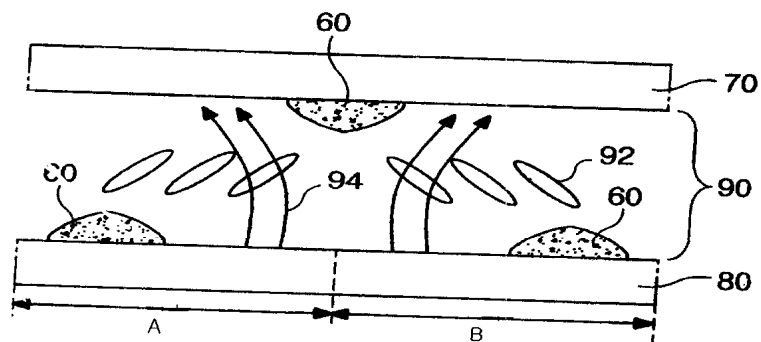
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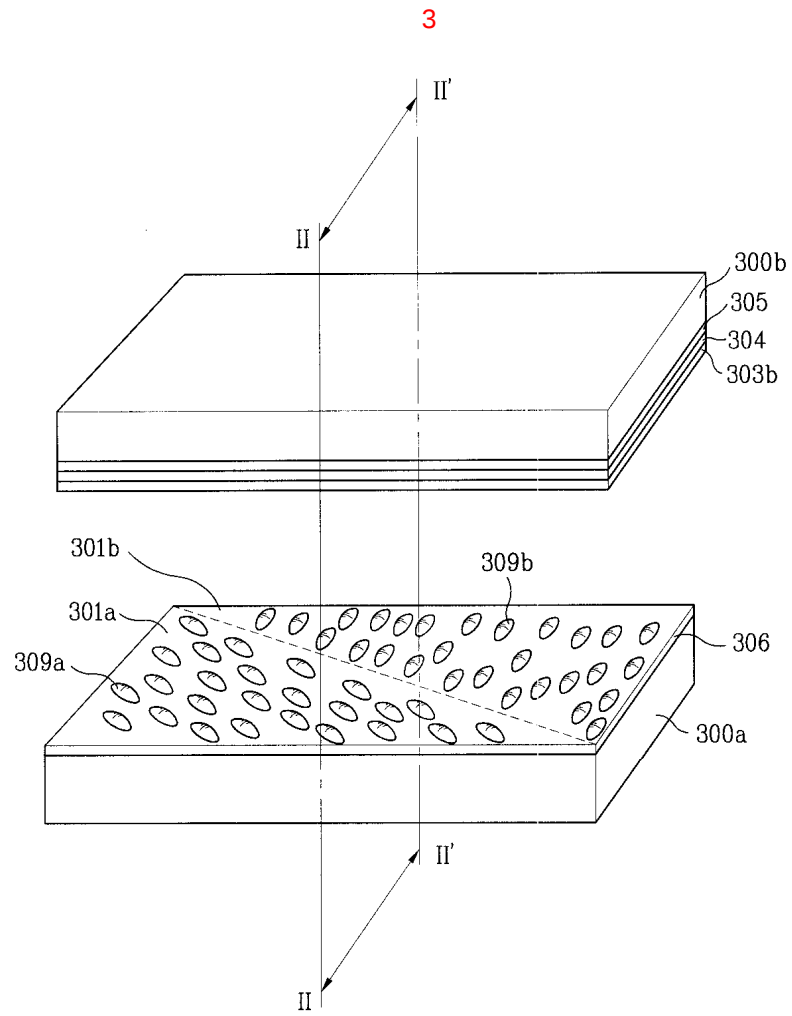
가

1

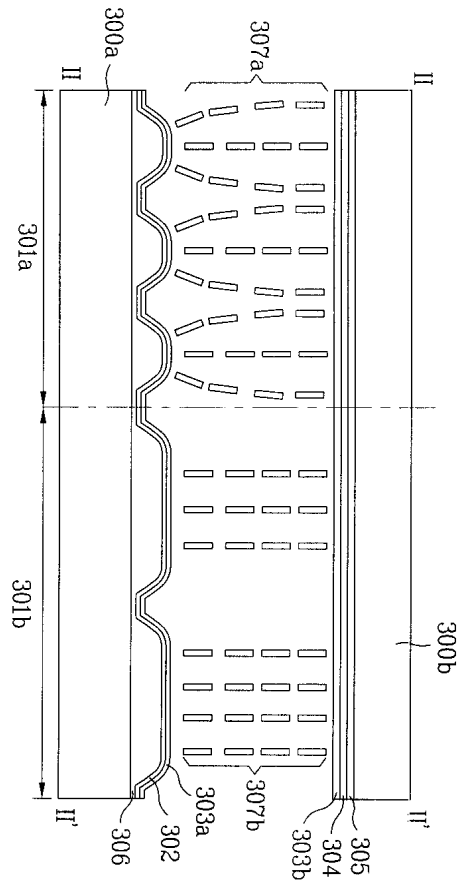


2

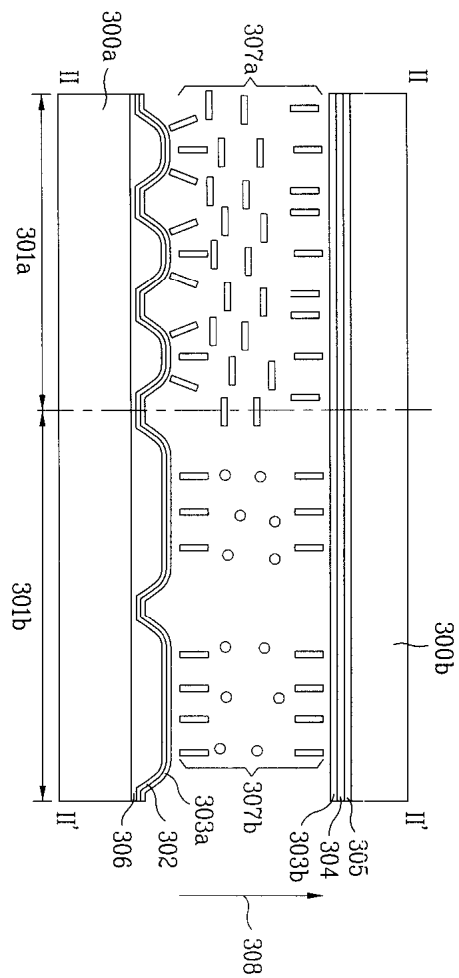




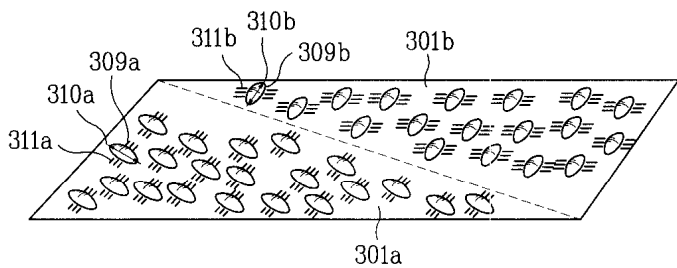
4a



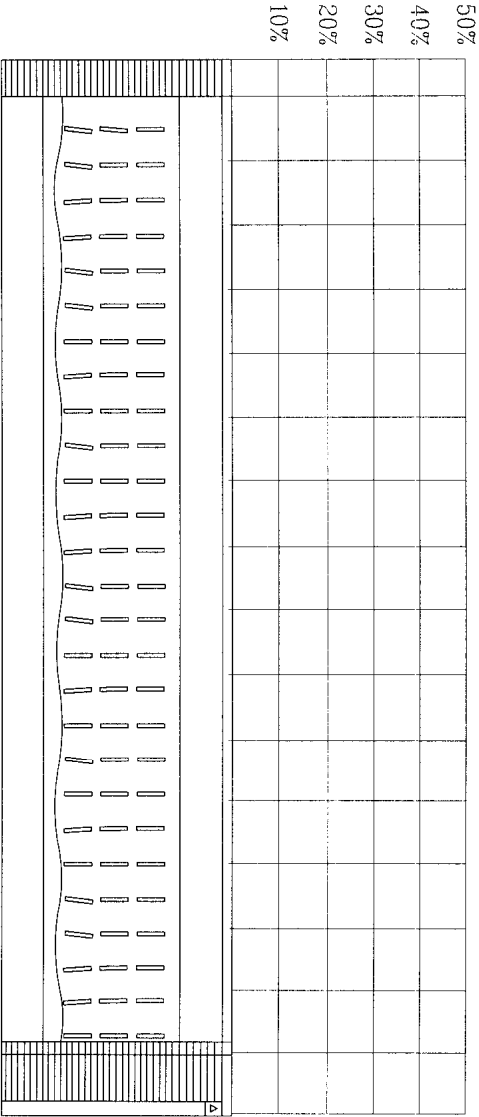
4b

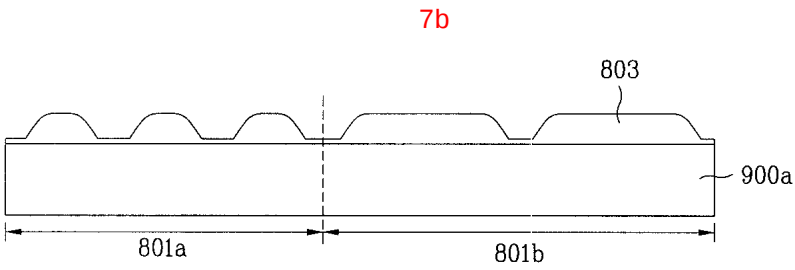
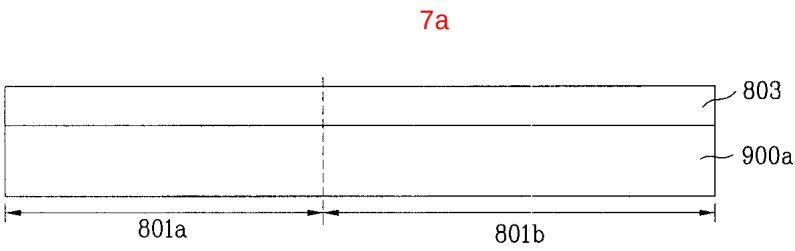
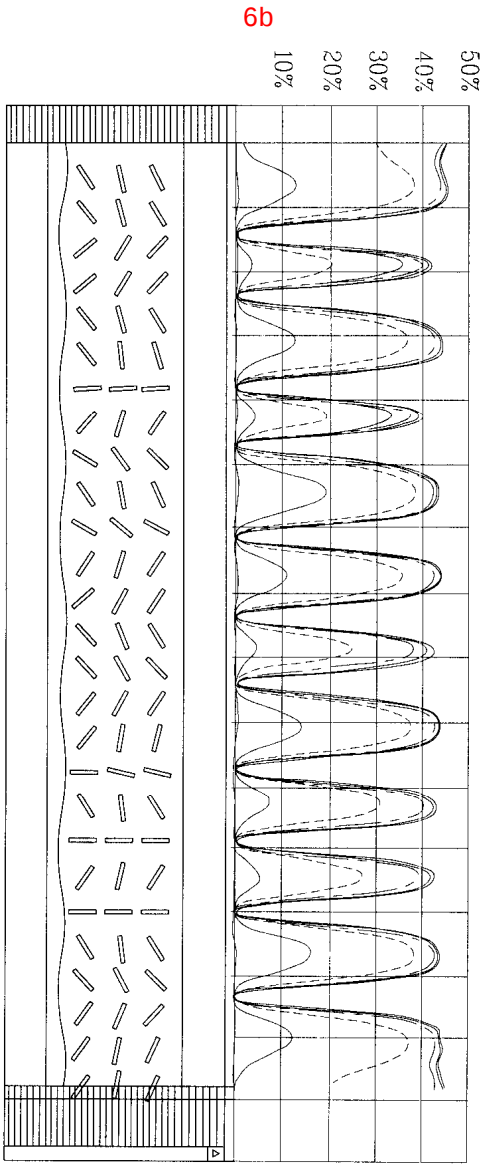


5

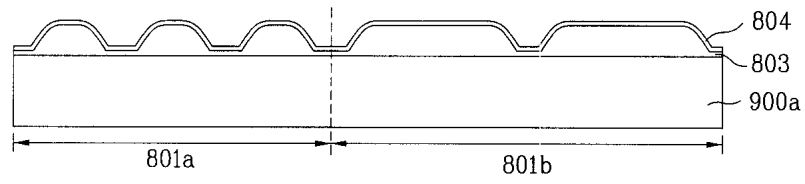


6a

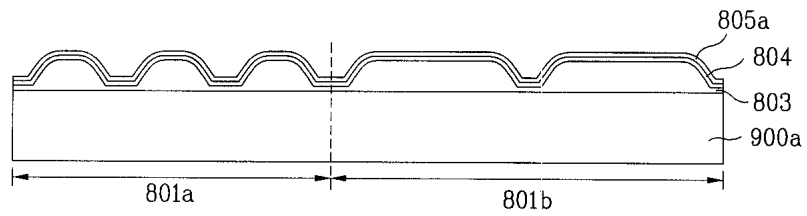




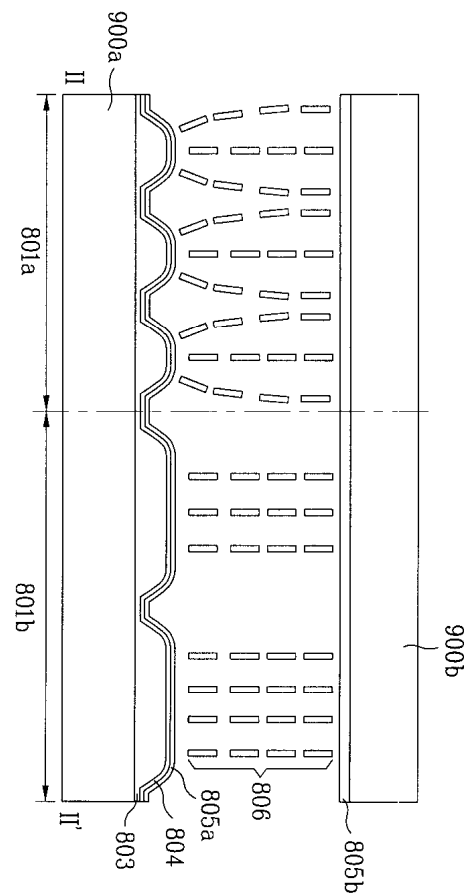
7c



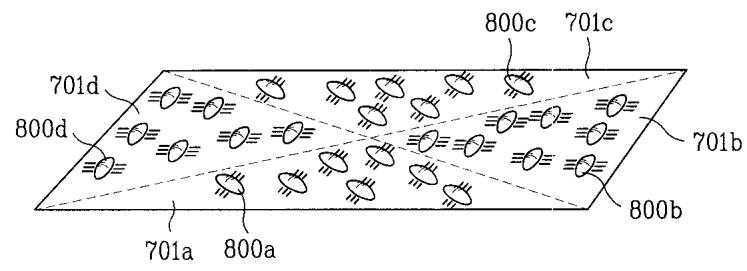
7d



7e



8



专利名称(译)	多畴液晶显示装置及其制造方法		
公开(公告)号	KR1020050002562A	公开(公告)日	2005-01-07
申请号	KR1020030043945	申请日	2003-06-30
[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	JIN HYUNSUK		
发明人	JIN, HYUNSUK		
IPC分类号	G02F1/139 G02F1/1343 G02F1/1337		
CPC分类号	G02F1/133753 G02F1/13439 G02F1/1393 G02F2001/133776		
代理人(译)	金勇 新昌		
其他公开文献	KR100769190B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种提高开口率和亮度的多畴液晶显示装置及其制造方法。并且是由具有分类像素区域的第一基板的2个或更多个区域组成的多个凹凸，并且在第一基板的每个区域中的不同方向形成在由第二基板之间形成的液晶层构成的第一基板上取向层：形成在第二基板上，对应于第一基板和第二基板。液晶显示器，多个域，反射电极，取向层，垂直取向。

