

(19)  
(12)(KR)  
(A)(51) . Int. Cl.<sup>7</sup>  
G02F 1/1339(11)  
(43)2003-0053164  
2003 06 28

---

(21) 10-2001-0083218  
(22) 2001 12 22

---

(71) . 20

(72) 106-807

108-504

617 205-1304

(74)

:

---

(54)

---

, , , , 1 , 2 , , 1  
, , 2 , , 1 , 2  
, , 2 , , 1 , 2  
, , 2 , , .

4c

, ,

1  
2a        2g  
3a,    3c,    3d  
3b    3a    A  
3e            TN  
3f    3e    A'  
4a  
4b            1        ,    4a    B  
4c            2        ,    4a    B  
5a        5g  
  
\*  
300, 400 :    1        305, 405 :  
309 :            313, 326 :  
314 :            315 :  
316 :            317 :  
319 :            320 :  
321, 430 :            322 :  
322a :            323, 418 :  
325 :            330 :  
331 :    1        335 :    2  
349 :            350, 450 :    2  
401 : Ag 403 :  
403a :            410 :  
412 :            416 :  
417 :            420 :  
460 :            470 :  
480 :

, , , , , , , PC

가

UV  
UV

가 , 가

UV  
가

1 가 Ag가 1 1 (100) . 1 , TFT가 Vcom  
 2 (150) 1 2 (112) (105)  
 (105) 2 (150) (105)  
 UV (110) 2 (150) , UV UV  
 (110) .  
 (120) (105)

UV (110) 가 . , UV (110) 가

2a 2g

2a 1 (100) Ag(101)

$$2b \quad 2 \quad (150) \quad (105) \quad . \quad (105) \quad 1$$

2c 2 UV (110)

2d 1 (103) . . , Z 가 가 ( )  
 2 (150) (170) 1 (100) XY 1 (100) ( ) UV  
 Ag(101)가 (160) . .

2e (170) (160) 1 (ga)  
 p)

2f , 1 2 (gap) , (103a)  
 , 2g UV (110) (180) 1 (100) UV  
 , UV 가 가

, , 1 2 , , 1 2 , , 1 ,  
 , , 2 , , 1 , , 1 ,  
 , , 2 , , 1 2 , ,  
 2

,  
 ,  
 3a, 3c, 3d , 3e TN , 3f 3e A' 3b 3a A  
 ) 3a , 1 (300) (309) (313) ( ( )  
 , (315) (309) (320) ,  
 , (319) (316) (317) (314)  
 , (314) (325) , (325) 1 (331)  
 ) 2 (350) (322) (321) (322) , (321)  
 , (323) Cr, CrO<sub>x</sub>, (323) (black resin) (323) (323)  
 , 2 (350) (305) (305) , (305) ,  
 UV (410) , 1 (300) (305) 2 (335) , 2 (350) , UV 1 ( ( )



TN	(Vertical Alignment; VA), OCB(Optically Compensated Birefringence), ferroelectric Liquid Crystal; FLC), , (322)						(F
3a, 3c, 3d	, , , , ,						(322)
3f	3e	A'	UV	(410)	UV	(305)가 (410)	
			(305)				
a 4a a B		, 4c	2	, 4a, B	4b	1	, 4
4a 10) 2	, TFT가	2 Ag가 (450)	1 (400)	1 (405)	(412)	UV (405)	(4
				2 (450)	2 (450)	UV (405)	
	2 UV	(410)		, UV (430)		UV (410)	
		UV	(410)		가	UV	
가							
		(420)	UV	(410)	(405)		
				5~30μm			(405)
(405)					가		
4b	1 (405) (410)	, 4a B		, UV (405)	(410)	UV	UV
4c	2 (405) (410)	, 4a B		, (420)	UV	UV	(410)
	(405)가 (405)	UV	(405)			UV	
		UV	(410)				
					1	2	가
5a	5g						
5a	1 (400)	Ag(401)					
5b (405)	2 (450) UV	2	1	(405)			(405)
5c	2 (450)	UV		(410)			
5d	1 (400) 2 (450)		(403)			가 가 (410)	
	(470) Ag(401)가 (460)	1 (400) XY	1 (400)	2 UV Z			
5e	(470)		(460)			1 (ga	

p)

5f , 1  
a) . 2 (gap) , (403  
, 5g , (410) (480) 1 (400) UV  
UV

가

, UV UV

, UV UV

가

(57)

- 1.**  
1 2 ,  
1 ,  
2 ,  
2 ,  
1 2
- 2.**  
1 ,
- 3.**  
2 ,
- 4.**  
1 ,
- 5.**  
4 ,
- 6.**  
1 , 1 2

7.

1 , 1 2

8.

1 , 2

2

1 2

9.

8 ,

10.

9 ,

11.

8 , 1 2

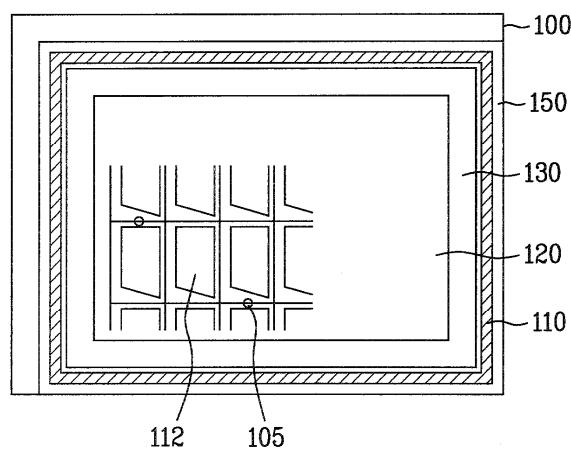
12.

8 ,

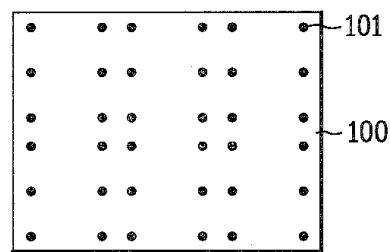
13.

8 ,

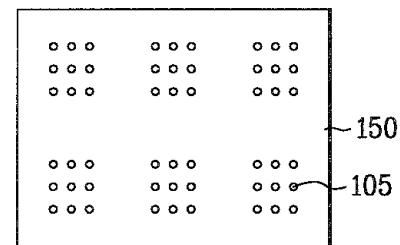
1



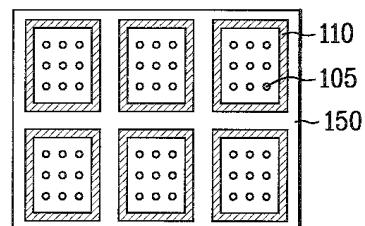
2a



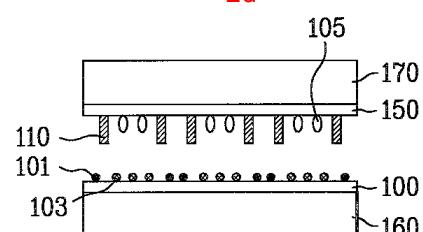
2b



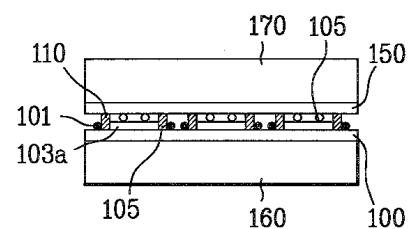
2c



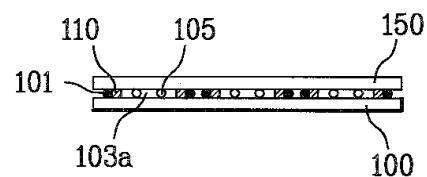
2d



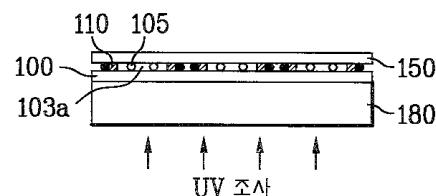
2e



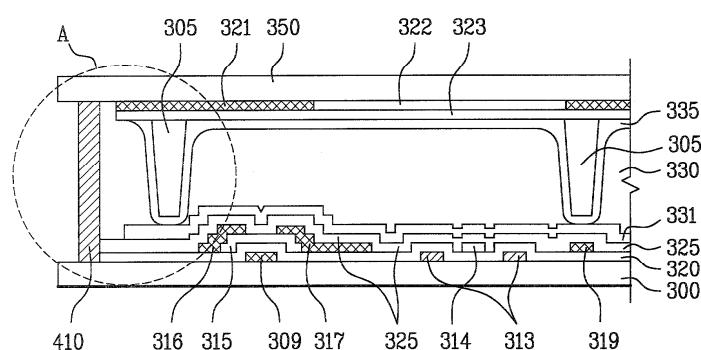
2f



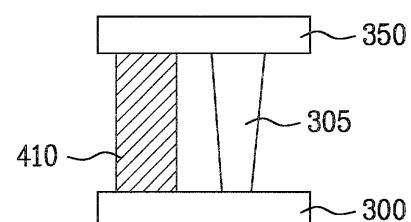
2g



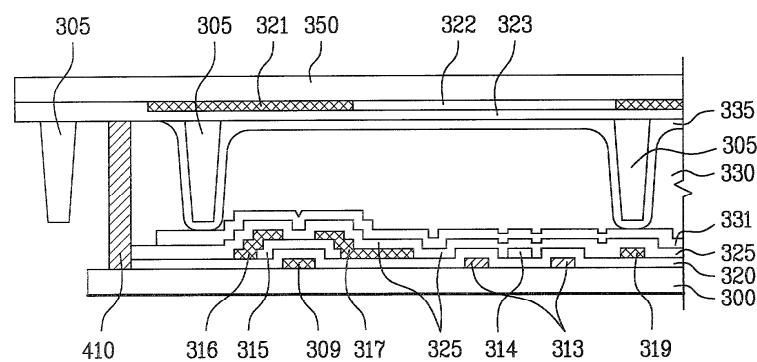
3a



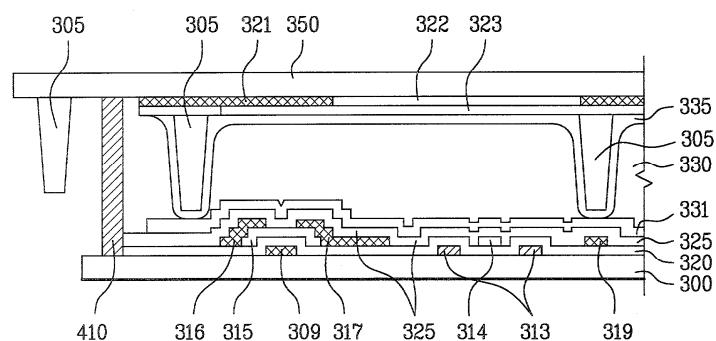
3b



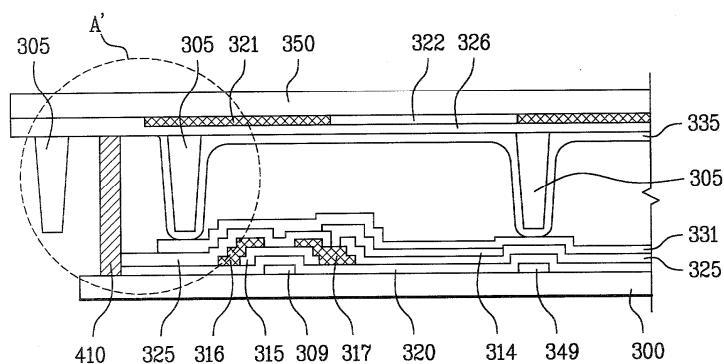
3c



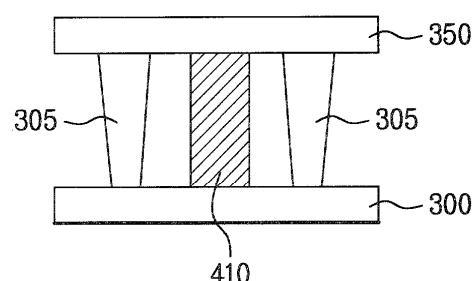
3d



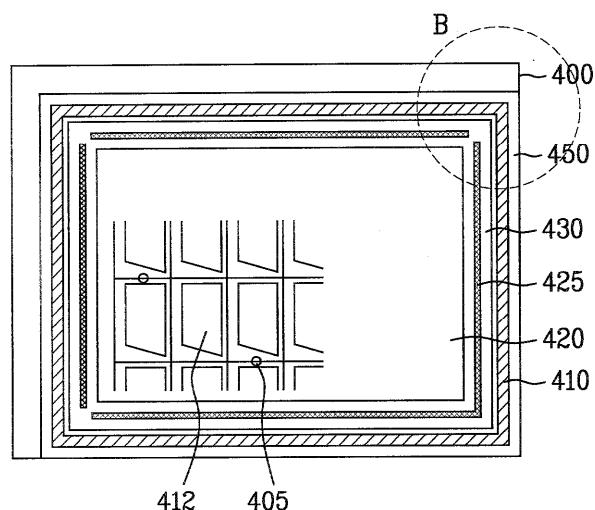
3e



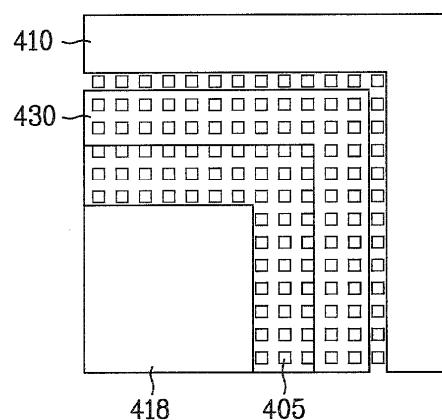
3f



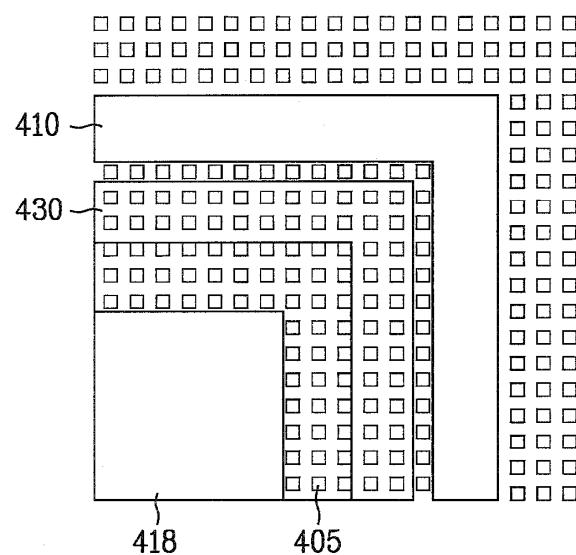
4a



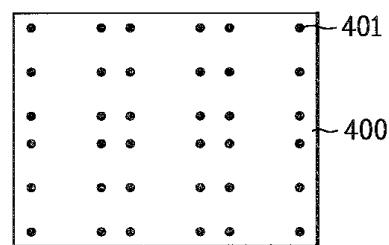
4b



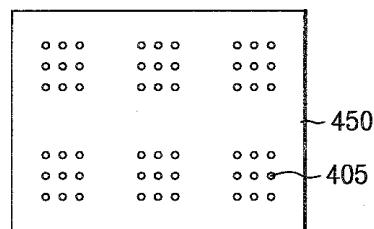
4c



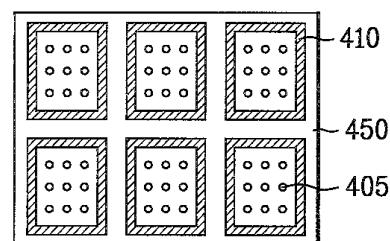
5a



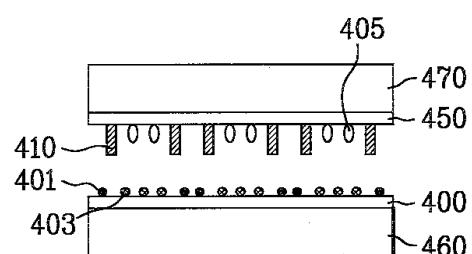
5b



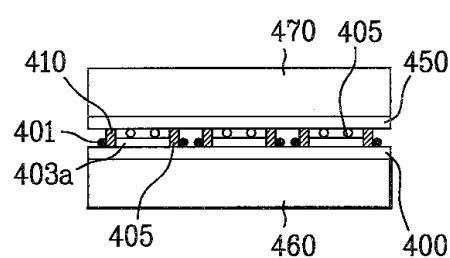
5c



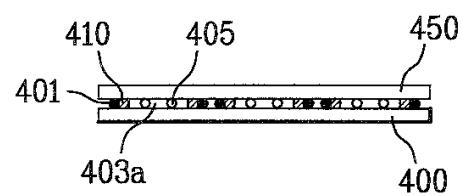
5d



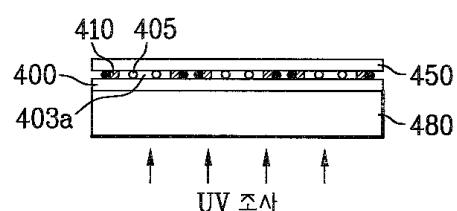
5e



5f



5g



专利名称(译)	液晶显示元件及其制造方法		
公开(公告)号	<a href="#">KR1020030053164A</a>	公开(公告)日	2003-06-28
申请号	KR1020010083218	申请日	2001-12-22
[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	KIM JONGWOO 김종우 KANG SUNGCHUN 강성천 HA YOUNGHOON 하영훈		
发明人	김종우 강성천 하영훈		
IPC分类号	G02F1/1339		
CPC分类号	G02F2001/13415 G02F1/1339		
代理人(译)	金勇 新昌		
其他公开文献	KR100685949B1		
外部链接	<a href="#">Espacenet</a>		

## 摘要(译)

用途：提供液晶显示器和制造液晶显示器的方法，以在密封剂周围形成柱状衬垫料，以获得均匀的间隙。

