

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
G02F 1/1339

(11)
(43)

10-2004-0052100
2004 06 19

(21)

10-2002-0079828

(22)

2002 12 13

(71)

.

20

(72)

LGPhilips-LCD

D 205

2 480-253

202 403

(74)

:

(54)

,

.

,

.

가

2

1

2

3

4a 4d

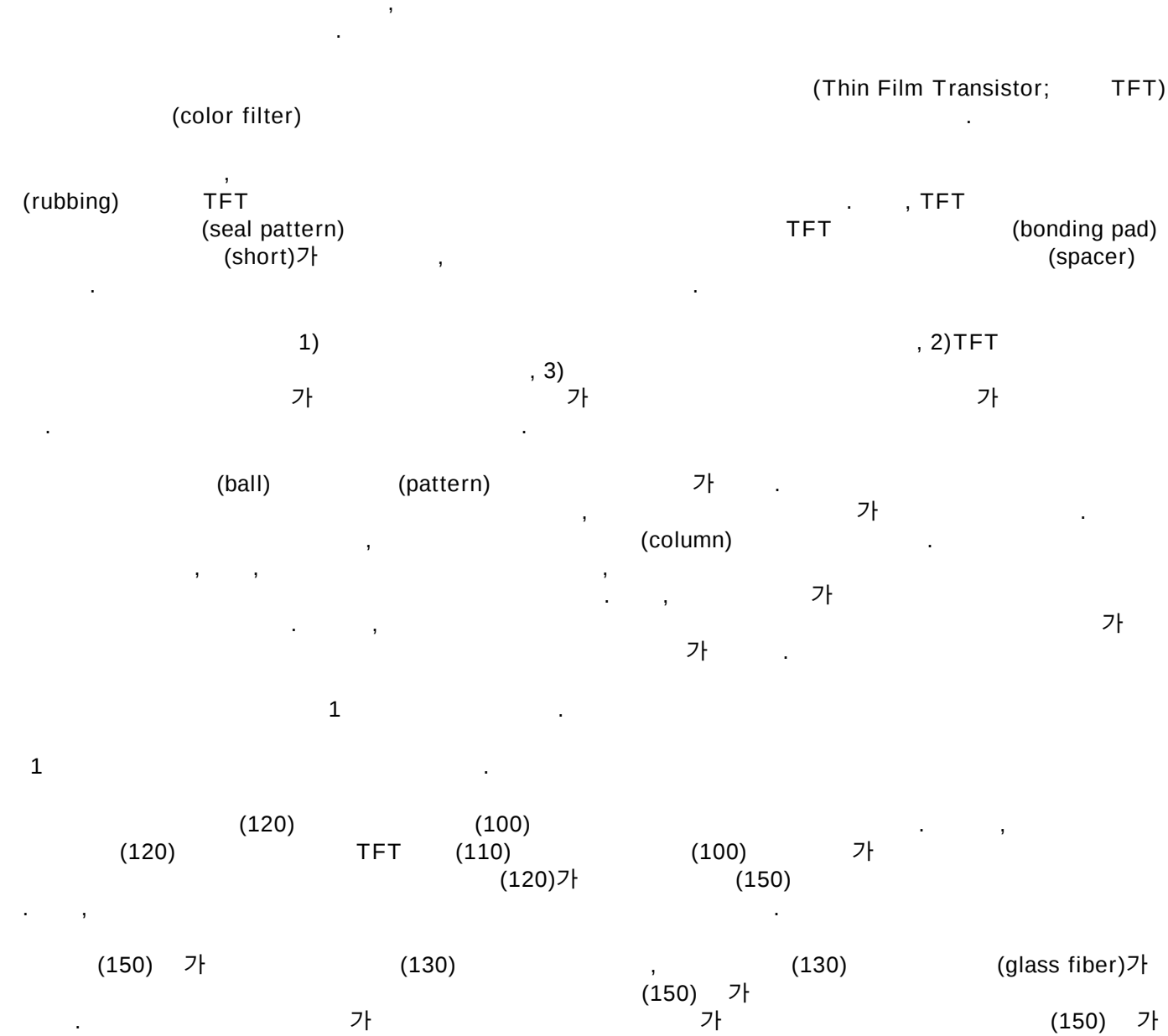
100, 300: 110, 310: TFT

120, 320, 322, 324: 130, 330:

150, 350: 200, 520:

500: 510:

530:



(150) 가
(black)

$$g_{\alpha} = \frac{1}{2} \left(\frac{1}{\alpha} + \frac{1}{\beta} \right) \quad (150)$$

가 .

가

가

가

•
;

•
;

•
;

•
;

•
;

가

2

(200)가 (R), (G), (B) (200)가 , R, G, B
Matrix; BM)가 (200) (Black
BM (320)가 (300) (320)
(300) (320) (300)
(322)가 , (300) (322)가

3

(350) (300) TFT (310) (330) (300, 310)
(320)가
(320)
가

(320)가 (300, 310) 가 , 가 가 .

(350) (320) (350) (320) (350) (350)

(350) 가 (320) (320) (350)

(350) 가 가 (350)

(350) 가 가 (350) 가 가 (320)가 가

(350) 가 가 (350) 가

(300) TFT (310)

가

4a 4d

T 4a (TFT array) (contrast ratio) (500) BM(510) BM(510) TF

BM(510) TFT (channel) (Cr) BM(510) (carbon) TFT 가

4b (520) (photolithography) (520) (520) (shift)

R, G, B (520) R, G, B (mask) (photo resist; PR)

4c (520) (520) (ov

ercoat; 530) (acryl) (spin coating)

(530)

(320) (320) (320) (320) (320)가 TFT (

TFT , TN(Twisted Nematic) (320)

TFT TFT

4a 4d TFT TFT TFT B

M

가 .

가

(57)

1.

;

;

2.

1

3.

1

4.

;

, ,

;

5.

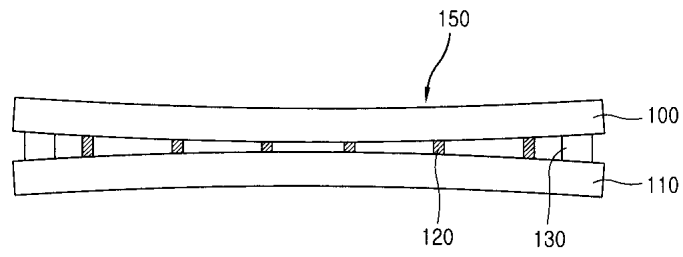
4

;

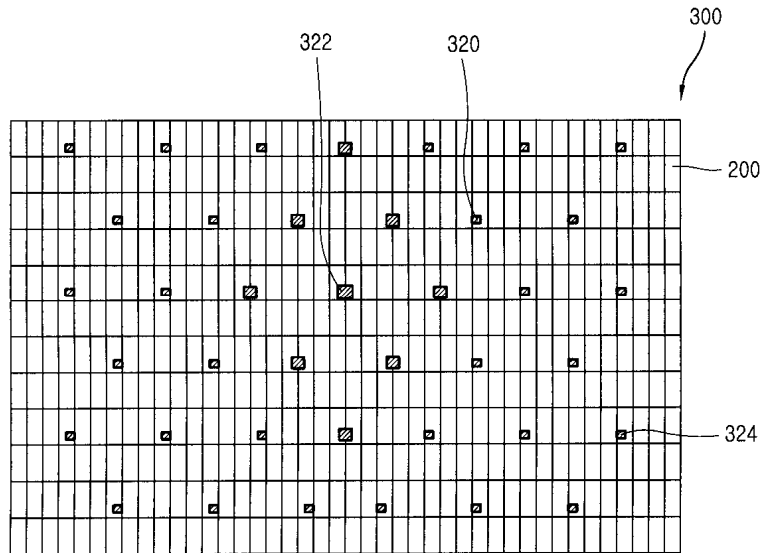
6.

4

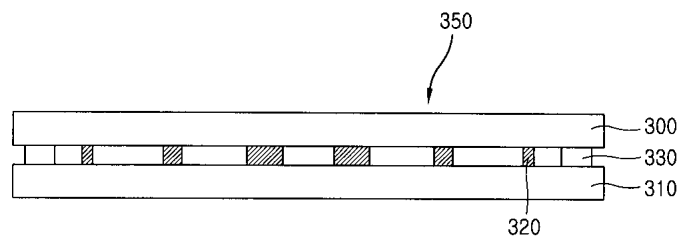
1



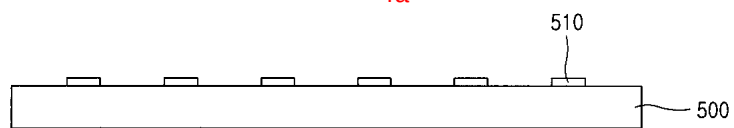
2



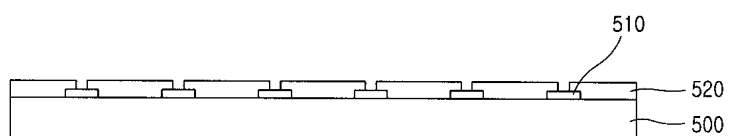
3



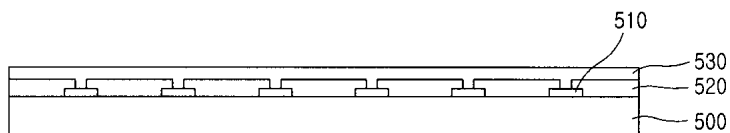
4a

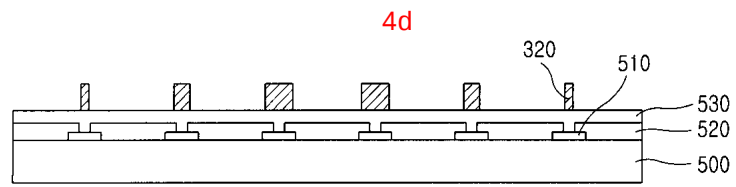


4b



4c





专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020040052100A	公开(公告)日	2004-06-19
申请号	KR1020020079828	申请日	2002-12-13
[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	BYUN WOOJUNG 변우중 KIM DEOKNYOUNG 김덕녕 KIM SUNGBUM 김성범		
发明人	변우중 김덕녕 김성범		
IPC分类号	G02F1/1339		
代理人(译)	PARK , JANG WON		
外部链接	Espacenet		

摘要(译)

液晶显示器技术领域本发明涉及液晶显示器，具体地说，涉及包括多个柱状间隔物的液晶显示器，所述多个柱状间隔物在形成为宽边的时间内保持在所述双板之间的单元间隙，其中心区域位于任何一个基板中。薄膜晶体管基板和滤色器基板。可以防止如上所述构成的液晶聚集到液晶面板边缘的重力故障。可以防止在液晶层形成中出现的产生与圆形污迹的液晶面板中心区域的摩擦。

