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(12)

(KR)  
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G02F 1/1335

(45)  
(11)  
(24)

2005 02 02  
10-0469561  
2005 01 24

(21) 10-2002-0083198  
(22) 2002 12 24

(65)  
(43)

10-2004-0056666  
2004 07 01

(73) .  
20

(72) LG 103 807

215-504

30 101 802

(74)  
:

(54)

BM

가

9b

, , thermal imaging,

1a 1d  
2a 2d

3a 3b  
 1  
 4a 4b  
 5  
 6  
 7  
 8a 8b 9a 9b 1  
 10 2  
 < >  
 160 : BM: BM  
 CP15 : 15 CP16 : 16  
 CP30 : 30 P15 : 15  
 P16 : 16 P30 : 30  
 LL1 : LL2 :

(flat panel display) 가 (liquid crystal display)가  
 가  
 가  
 (R), (G), (B) 가  
 1a (10) (Black Matrix ; BM) (15) ( ) BM(15) ( )  
 1b BM(15) (10) 가  
 (20) (10)  
 1c (17) 가 (17a)  
 (curing) (17a)  
 1d (17b, 17c) (17a, 17b, 17c) (25)  
 (ITO) (IZO) (25)  
 (17a, 17b, 17c) (17a, 17b, 17c)  
 (23) (curing)  
 가 1998-084557'  
 2a 2d  
 2a (30) BM(35)

2b (40) (30) , (40a), (40b), (30) (40c) , 1 (30)

2c (50) , 1 (50) (40) 1 (40) (40) (40) (4)

0b) (40c) (30) (50) (stripe)

1 , 2, 3 , 1 , 1 , 1

(40) 2d (45b, 45c) , 2, 3 , 2, 3

(45a, 45b, 45c) (45a, 45b, 45c) (4)

5a, 45b, 45c) ITO IZO (50) (47) (47)

(Through-put) 640\*3 1920 640\*480

VGA 1920 , 1, 2, 3 가 (spot)

VGA, SVGA, XGA 가

가 ,

3a (30) (52) (50)가 (52) (on), (off)

1 2 (55)

3b (45) (55) (45a) 1 BM(35)

BM

BM

; BM ; 가 BM

; ;

, n , n-1 가 5 $\mu$ m\*3 $\mu$ m 20 $\mu$ m \*3 $\mu$ m , BM n-1 n

n n-1 가 , n-1 n BM

M ; BM ; B

; 가 BM



가 BM (BM) (160) 가

8b (CP15) (LL1)가 BM (BM) 10 $\mu$ m (160)가 (P1) (PU (CP15))

1) 3 $\mu$ m 4490 $\mu$ m BM (BM) 10 $\mu$ m (LL)가 15 (P1) (PU (CP15))

9a 30 (LL2) (P30) (160) (P1) (CP30) 4480 $\mu$ m (PU1) 17 $\mu$ m 8970 $\mu$ m (CP30)

9b 20 $\mu$ m 4510 $\mu$ m (LL2) 8990 $\mu$ m (160) (LL1) 4490 $\mu$ m BM (BM) n

가 BM , n-1 , 4480 $\mu$ m  $\pm$  26 $\mu$ m가 4480 $\mu$ m 가

(162) 가 5 $\mu$ m 40 $\mu$ m (162) 가 BM (160) 가

BM 1 1 2 3

200 300 가

2 2 (260) (262) (on), (off)

1 BM BM BM 1

10 ( ) (260) (C

Pc) (262) (off) 가 (CPc) (off) (260) (260) (BM) (BM)

(LL2)가 (LL1) (CPd) (off) (262) (262)

BM

1

3 3 1 2 가 2

2 300 $\mu$ m 13 BM 212 20 $\mu$ m 가 224 (off) 270 $\mu$ m (off) 2 20 $\mu$ m 100 $\mu$ m\*

BM BM

(on)/ (off)

BM

(57)

1.

BM BM ; ; ; 가 BM ;

2.

1 ,

3.

1 ,

4.

2 ,

가  $5\mu\text{m} * 3\mu\text{m}$   $20\mu\text{m} * 3\mu\text{m}$

5.

n 1 , n-1 , BM n-1 ; 가 ,

6.

5 n-1 , n 가 BM

7.

BM BM ; ; ; (off) ; 가 BM ; 가 ;

8.

7 , (on)/ (off)

9.

7 , 가 (off)

10.

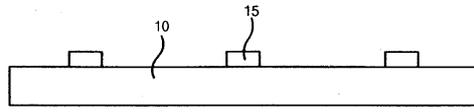
9 (off)

11.

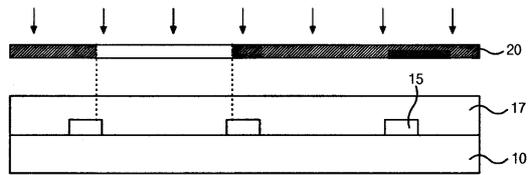
10

200 $\mu$ m 350 $\mu$ m

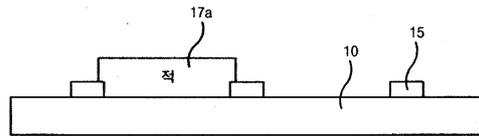
1a



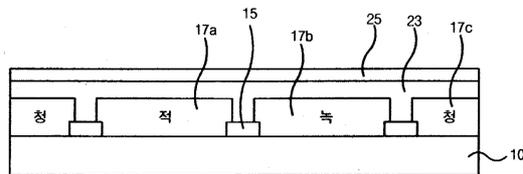
1b



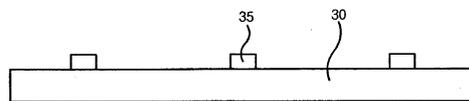
1c



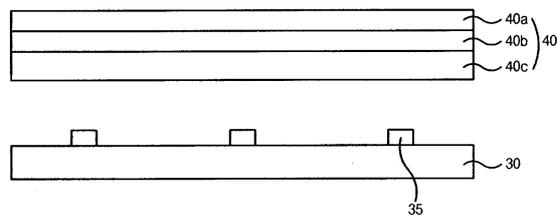
1d



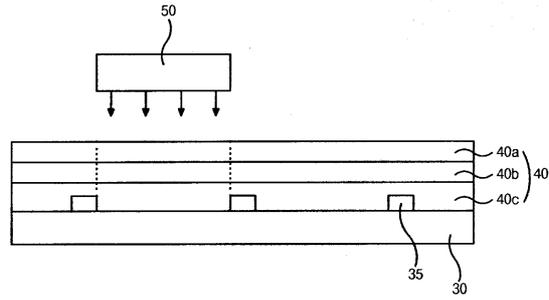
2a



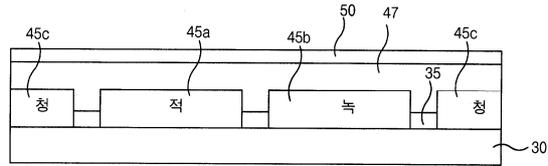
2b



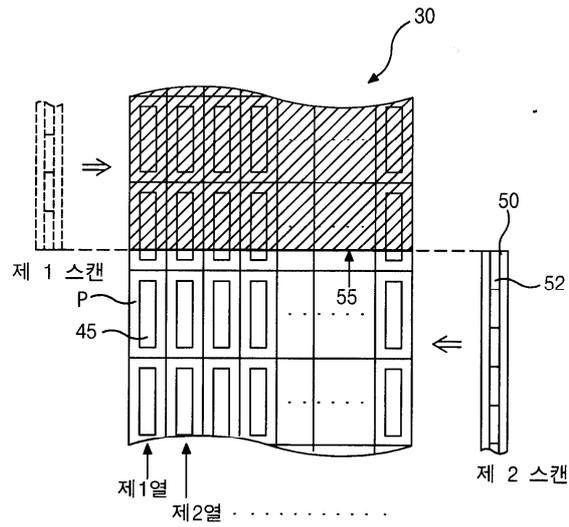
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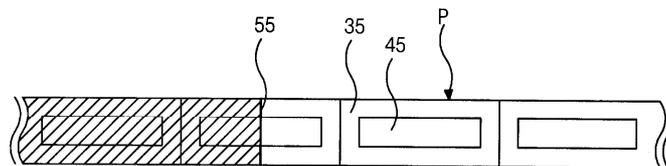
2d



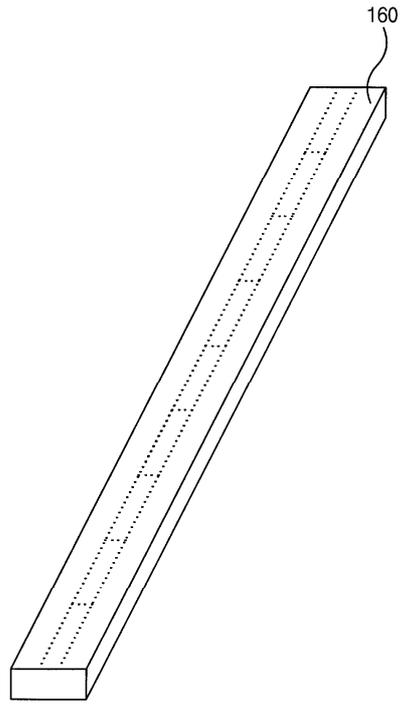
3a



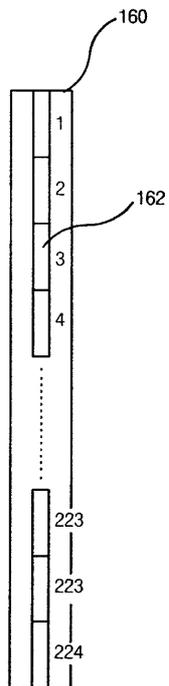
3b



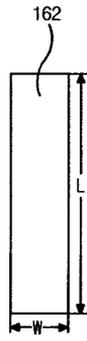
4a



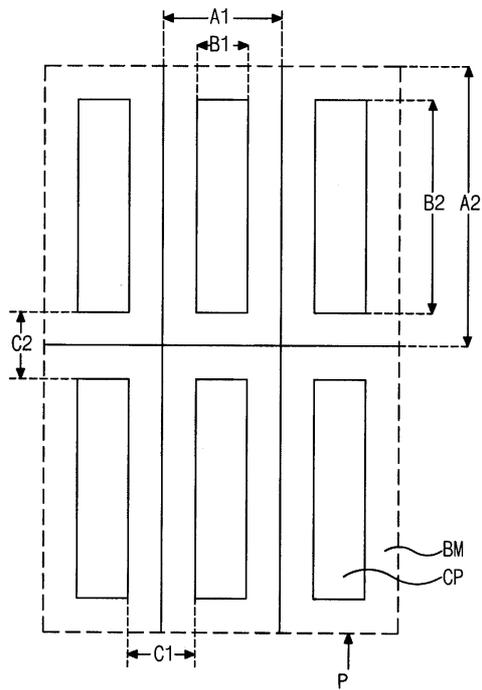
4b



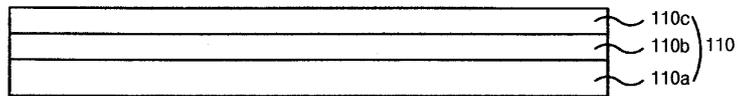
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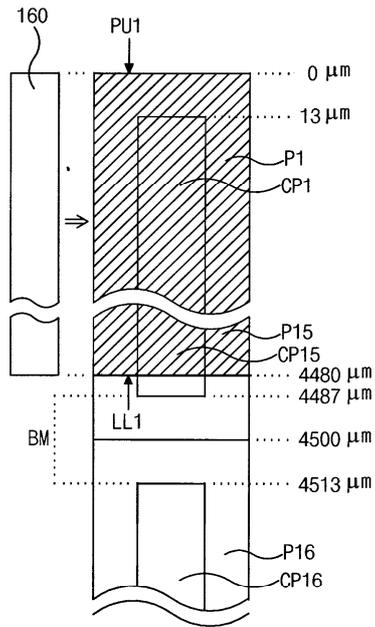
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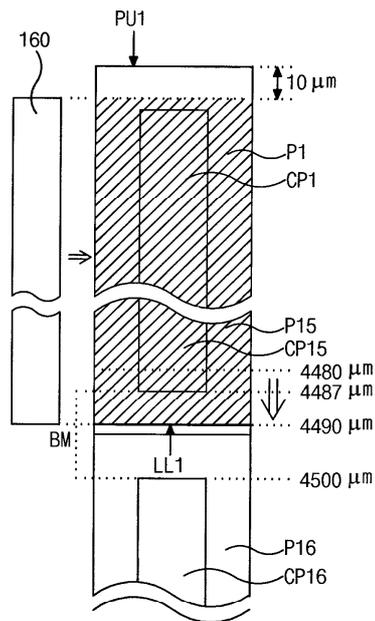
7



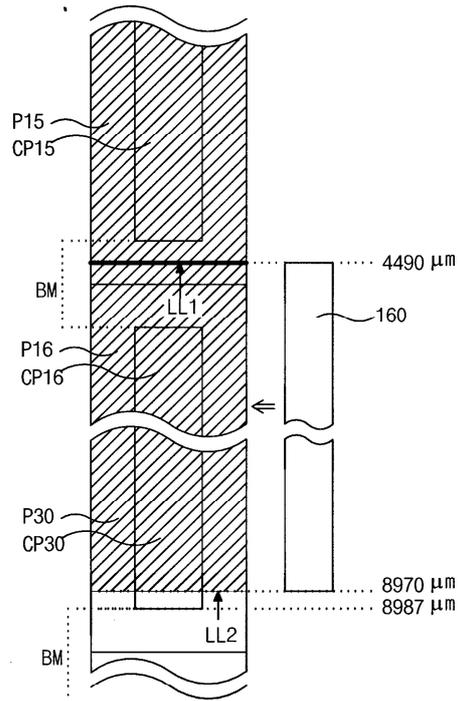
8a



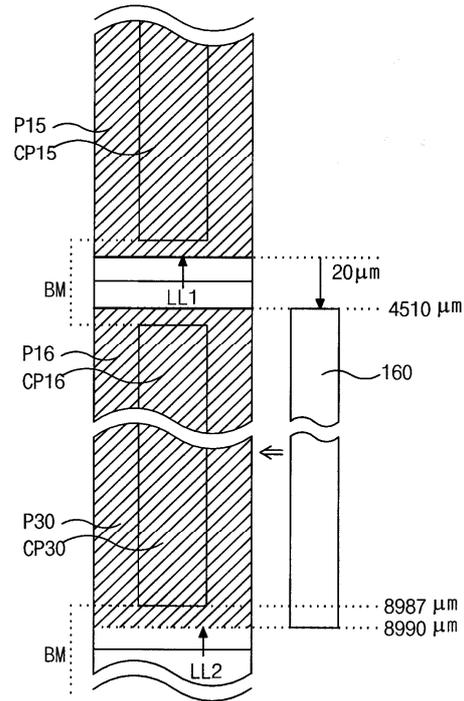
8b



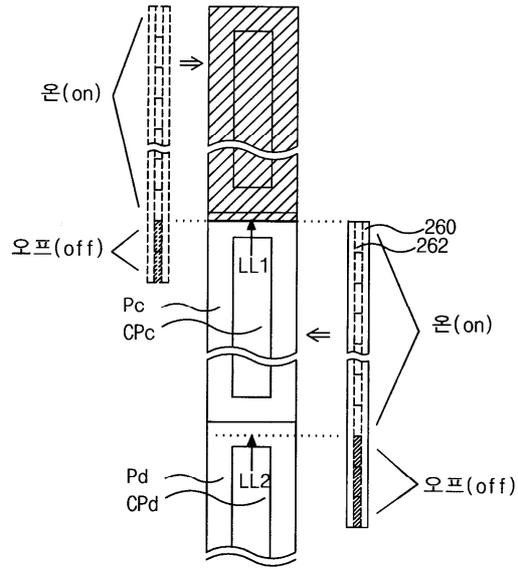
9a



9b



10



专利名称(译)	液晶显示器的彩色滤光板的制造方法		
公开(公告)号	<a href="#">KR100469561B1</a>	公开(公告)日	2005-02-02
申请号	KR1020020083198	申请日	2002-12-24
[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	CHANG YOUNGYOUNG 장윤경 LEE JUNGJAE 이정재 KIM SAMYEOL 김삼열		
发明人	장윤경 이정재 김삼열		
IPC分类号	G02F1/1335 B41J2/32 G02B5/20		
CPC分类号	G02F1/133516 G02B5/201		
代理人(译)	정원기		
其他公开文献	KR1020040056666A		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

目的：提供一种用于LCD（液晶显示器）的滤色器基板的制造方法，以通过控制滤色器的宽度和移动位置在滤色器的图案之间的BM（黑底）区域上形成激光扫描的边界。激光头或激光像素的开/关，从而改善了由于扫描区域而引起的扫描质量的不良影响。组成：第二个扫描未在第一个扫描区域的下边界（LL1）的4490um点处开始。激光头（160）的上端再移动到20um以下并定位在4510um点，然后进行第二次扫描。第二扫描区域的下边界（LL2）位于8990um点，即在BM区域上。这样，在执行第n-1次扫描之后，当控制激光头的垂直移动宽度然后执行第n次扫描时，扫描区域的边界始终位于BM区域上，从而避免了由于屏幕质量而造成的不良影响。扫描区域边界处的裸露痕迹。©KIPO 2004

도면1c

