

(19)
(12)

(KR)
(A)

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G02F 1/1335

(11)
(43)

10-2004-0056666
2004 07 01

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

(71) .
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) (17b, 17c) (17a)

1d , , (17a, 17b, 17c) (ITO) (IZO) (25) (25) (17a, 17b, 17c) (23)

(curing)

가 1998-084557'

2a 2d

2a , (30) BM(35)

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

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

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

1 , 2, 3 , 1 (40) 1 1 (45a) , 1

2d , 2, 3 , 2, 3 (45b, 45c) (45a, 45b, 45c) (45a, 45b, 45c) (47) (47) (4

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

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

VGA 1920 , 1, 2, 3 가 (spot)

VGA, SVGA, XGA 가

가
 3a
 (30) 1 2 (52) (50)가 (52) (on), (off)
 (55)

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

; BM ; 가 BM

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

, n n n-1 가 , BM n-1 n
 n-1 n
 BM

M ; BM ; B
 ; 가 BM

; 가 ; 가
 (on)/ (off) (off)
 (off) 200 μm 350 μm 가

4a 4b , 5

(162) (L)가 5 μ m 20 μ m (W) 3 μ m (162) 224
 , 20 μ m*3 μ m (162) 224
 (160) (160) 4480 μ m 가 (162) 4480 μ m * 3 μ m가 (160) (162)
 (on), (off)가 , ,
 (on), (off)
 6
 B1, B2 (P) A1, A2, (P) (CP)
 BM (BM) C1, (CP) (CP)
 1 C2 5 μ m 40 μ m 가 A1 70 μ m 100 μ m , A2 200 μ m 350 μ m, C
 14.1' XGA (P) (A1) (A2) 93 μ m
 280 μ m (CP) (A2) 69 μ m가 BM (BM) (C2) 24 μ m 가
 7 (110) 3가
 (110a) (110a)
 (LTHC ; light to heat convert)(110b) (110c)
 (110a) (110c) (110b) (110b)
 , IR- (110b)
 (110c)
 . BM
 (Cr) BM
 , BM BM , 1 1 가
 8a , 1 () ()
 (160) 1 () 가 200 μ m 350
 μ m (P) , 가 (P) 14 20 가 가
 가 (100) , BM ,
 가 100 μ m * 300 μ m, BM 26 μ m 15.1' XGA
 4480 μ m가 (P1) 15 7 μ m
 (P15) (CP15) 15 (LL1)가 (P15) (CP15) (CP15)

가 (CP15) BM (BM) 1 (160) 가 BM (BM) (160) 가

8b (CP15) (LL1)가 BM (BM) 10 μ m (160)가 (P1) (PU (CP15))

1) 3 μ m 4490 μ m BM (BM) 10 μ m (LL)가 15 (P1) (PU (CP15))

9a (160) 4480 μ m (LL2) (P1) (PU1) 8970 μ m (CP30)

30 (P30) (CP30) 17 μ m

9b 20 μ m 4510 μ m (LL2) 8990 μ m (160) (LL1) 4490 μ m BM (BM) n

가 BM n-1

\pm BM (C2) 4480 μ m \pm 26 μ m가

(162) 가 5 μ m 40 μ m (162) 가 BM (160) 4480 μ m 가

BM

1 1 2 3

200 300 가

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

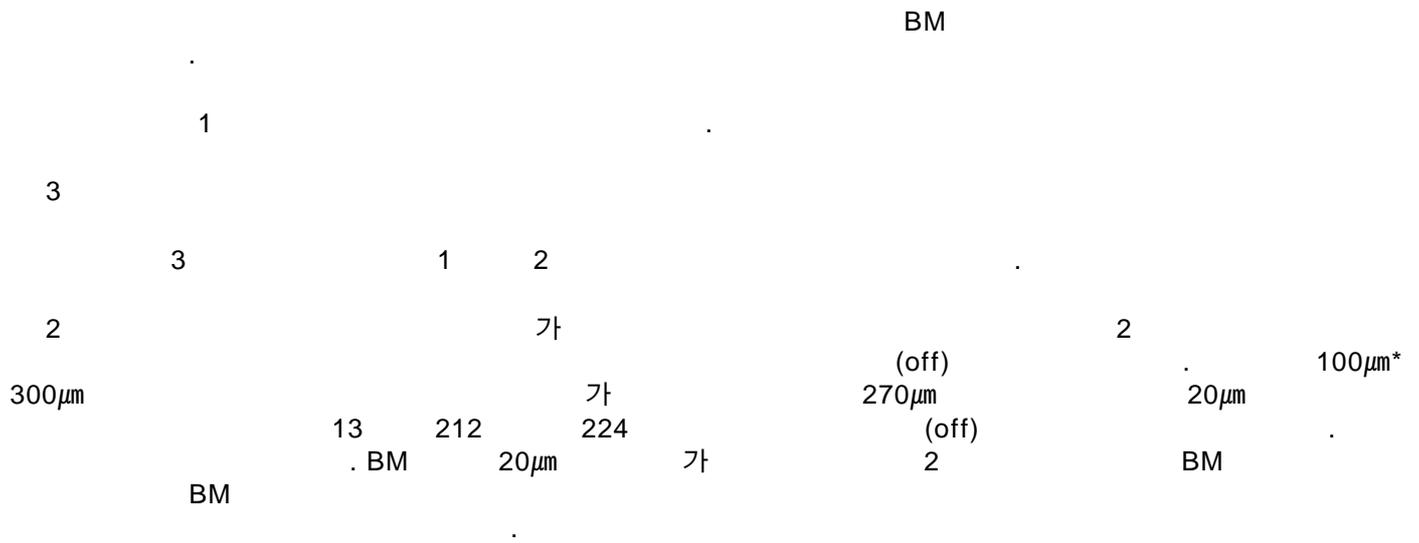
1 BM BM 1

10 1 () (260) (LL1)가 (C)

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

(LL2)가 (CPd) (LL1) (260)가 BM (BM) (262)

(off) (262)



(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.

1 ,

n n n-1 가 , BM n-1

6.

5 ,

n-1 n 가
BM

7.

BM ;

BM ;

(off) ; 가 BM

가 가

8.

7 ,

(on)/ (off)

9.

7 ,

가 (off)

10.

9 ,

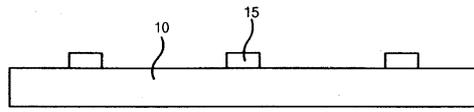
(off)

11.

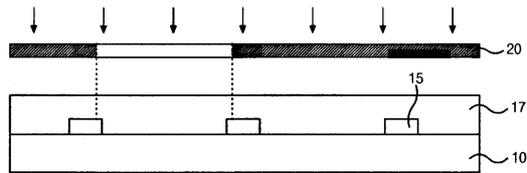
10 ,

$200\mu\text{m}$ $350\mu\text{m}$.

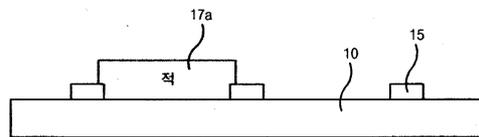
1a



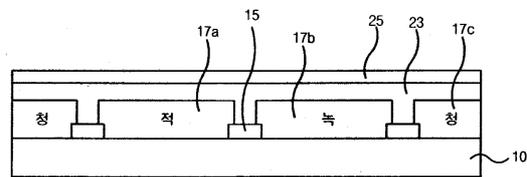
1b



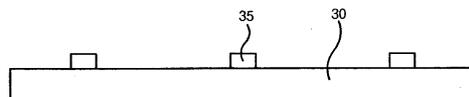
1c



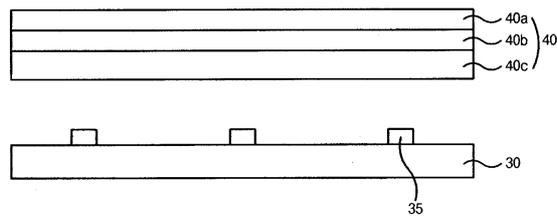
1d



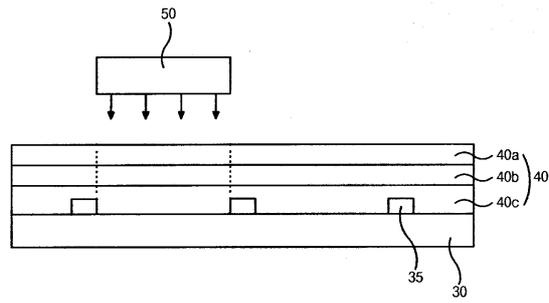
2a



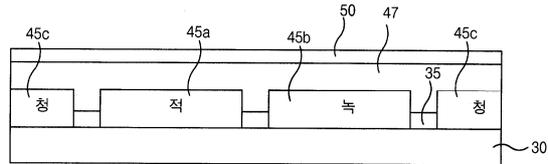
2b



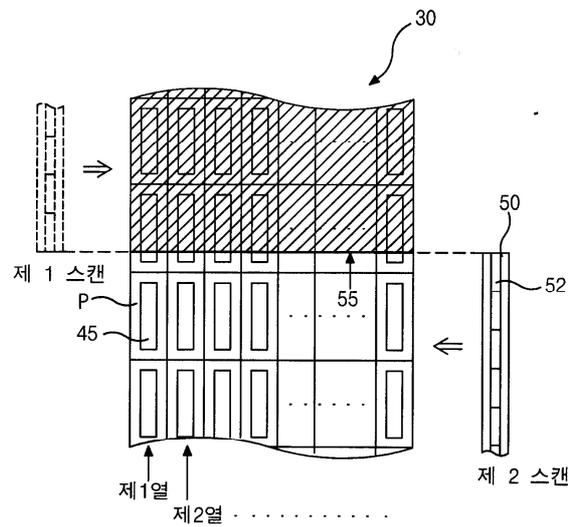
2c



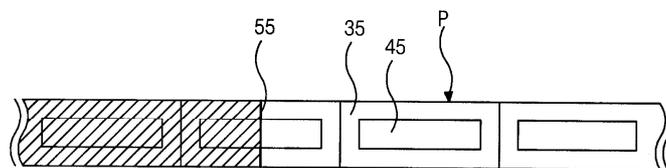
2d



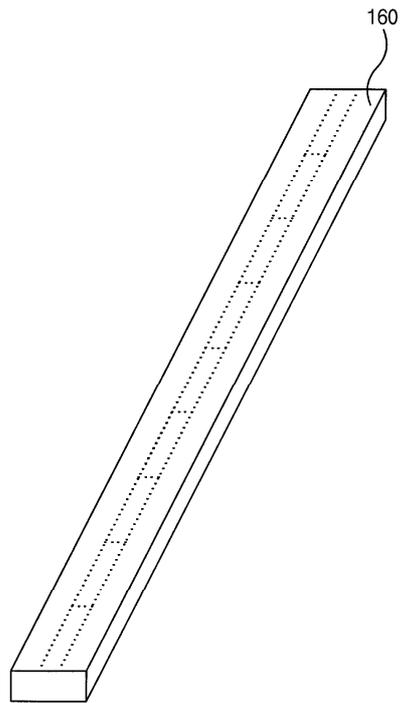
3a



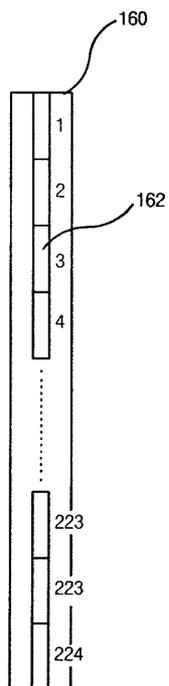
3b



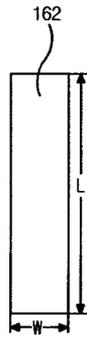
4a



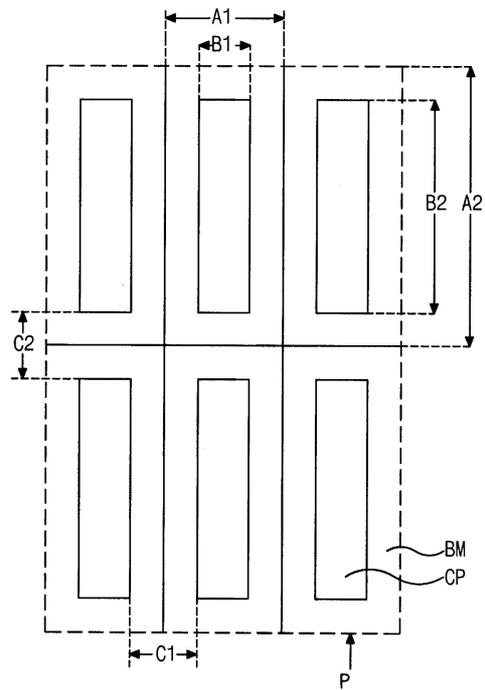
4b



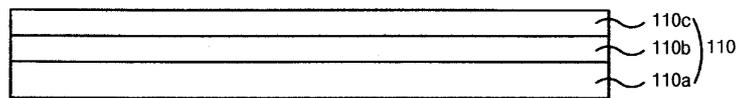
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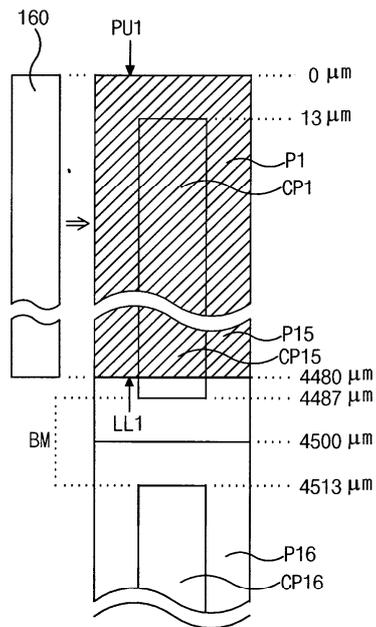
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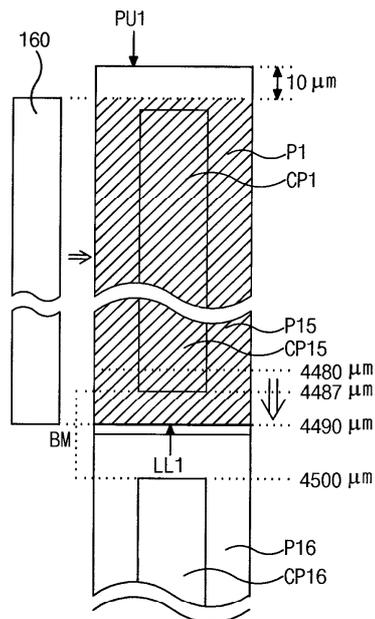
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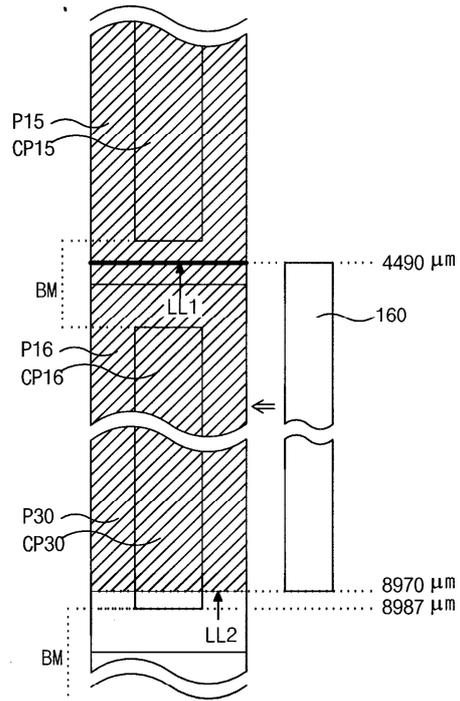
8a



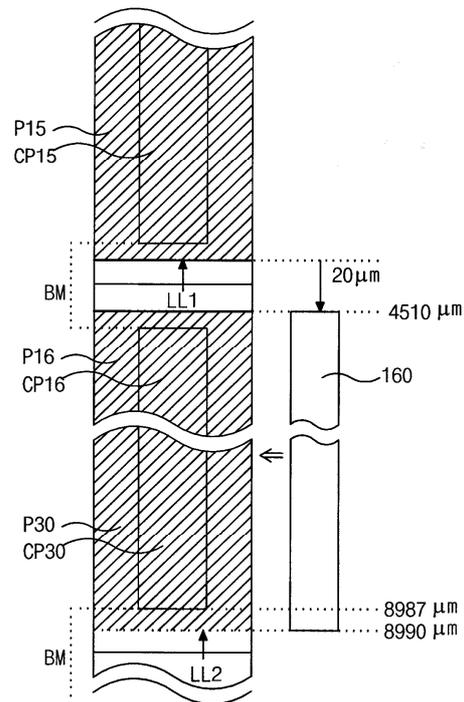
8b



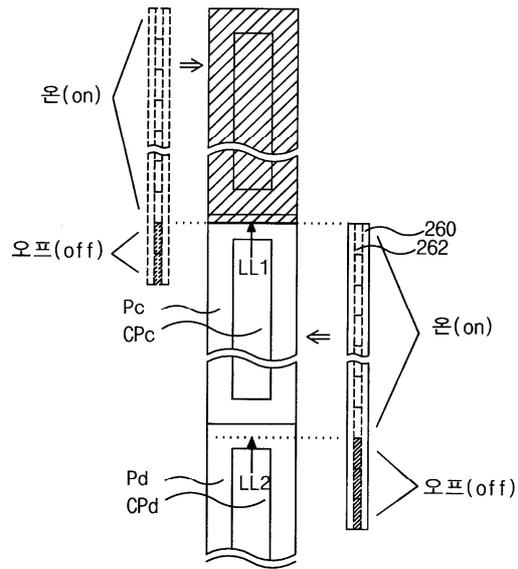
9a



9b



10



专利名称(译)	制造用于液晶显示器的滤色器基板的方法		
公开(公告)号	KR1020040056666A	公开(公告)日	2004-07-01
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	KR100469561B1		
外部链接	Espacenet		

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

도면2b

