

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
G02F 1/136

(11)
(43)

2001 - 0081677
2001 08 29

(21)
(22)

10 - 2000 - 0007715
2000 02 18

(71)

.

,

20

(72)

489 - 1

106

1

7 - 410

(74)

:

(54)

(stripe)

,

IC

,

(RGBW)

,

/

.

7

1

TCP

,

2a

2d

,

3

,

4 ,

5 ,

6a 6b .

7 .

< >

511 : 513 : IC

515 : IC 517 :

, RGBW 가 .

, ,

. (AMLCD) ,

가 .

(scanning signal) , ,

, ,

, , 가

, ,

, (sealant)

, 가 , 가 , 가 (gray level)

. 가 IC

, COB(chip on board), COG(chip on glass), TCP(tape carrier package) .

COB(chip on board) (segment)
 , (lead) 가 IC가 PCB (printed circuit board : " ")
 , 가 가 가 IC
 가
 COG
 가가
 (flexible printed circuit board)
 ACF IC
 가
 가 IC 가
 (tape carrier package) IC
 LCD 가
 1
 , IC(17) (19) , IC
 (13) (11)
 (ACF : Anisotropic Conductive Film) (18)
) 가 () , ()
 가 가 (frame) 가
 ine) 가 (inversion) (frame), (column), (l
 (dot inversion) 4가
 2a 2d
 2a , 가 ,
 () 2b ,
 , 2c , (가)
 2d ,

(cross - talk)

(flicker)

IC

IC

(double bank)

(single bank)

IC

IC

3

(quad type)

RGBW(red, green, blue, white)

RGGB(red, green, green, white)

가

(119)

IC

(111)

/

(119)

가

(

)

가

(controller)

(111)

IC(113a)(

113b)

(111)

IC(115a)(115b)

가

4

가

IC

IC(115a)

가

가

(121)

(123)

가

가

(signal delay)

(A)(A')

(121)(123)

(A)

(A')

(Stripe)

가
가 , , (Red)/ (Green)/
; 가
(Blue)/ (White) IC ; IC .
, IC .

RGBW(red, green, blue, white) (W) .
RGBW(red, green, blue, white) (W) 가 .

1 ;
/ / / 가 , 1 ,
2 ; 1 2 ;
1 2 가 1 ;
, 가 ; 2 1
, 가 .

5 .

(211) RGBW(/ / /)
(stripe) .

6a 6b 5 .

, (310) (CrO_x) (Cr) , (poto - lithography)
, RGBW (311) () (black matrix)(3
13) .

(313) (311) ,
, (contrast ratio) .

(313) , .

, 가 (resin) , 6a
(311) 6b , (410)
, (411) .

, RGBW .

, (413) , .

(PCB)

7

(517)

(517) 가

(511)

(513)

(515)

(515)

(+)

가 가

(-)

(515)

가 가

가

가

+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+

RGBW

RGGB

가

RGBW

RGGB

가

가

(57)

1.

가

가 ,

/ (Blue)

, (Red)/ (Green)/ (Blue)/ (White)

(Red)/ (Green)/ (Green)

;

가 ,

IC ;

가 ,

IC

IC

2.

1 ,

(W)

3.

1 ,

(W)

4.

1 ;

/ / /

가

2 ;

1 2 ;

1 2 ;

1 , 가 ;

2 , 가

5.

4 ,

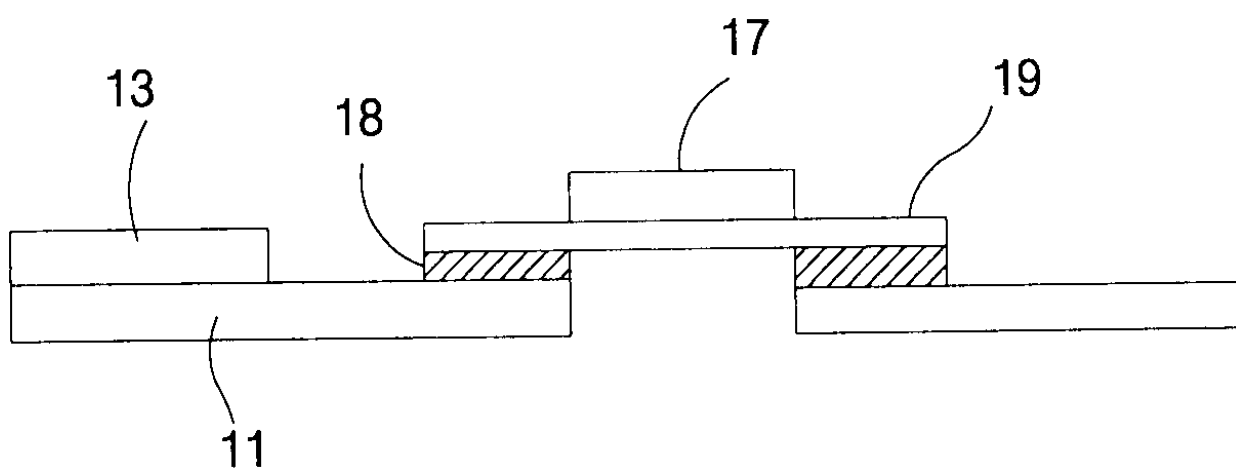
(W)

6.

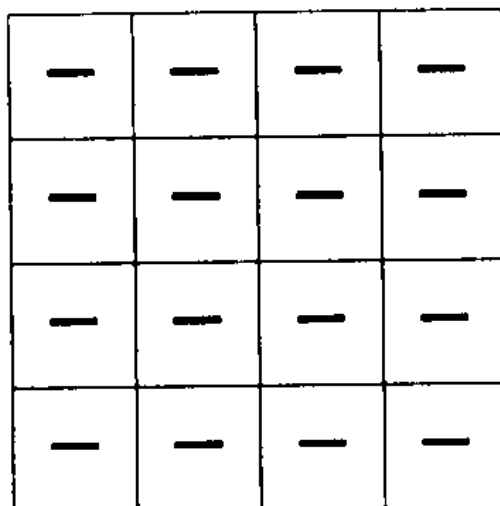
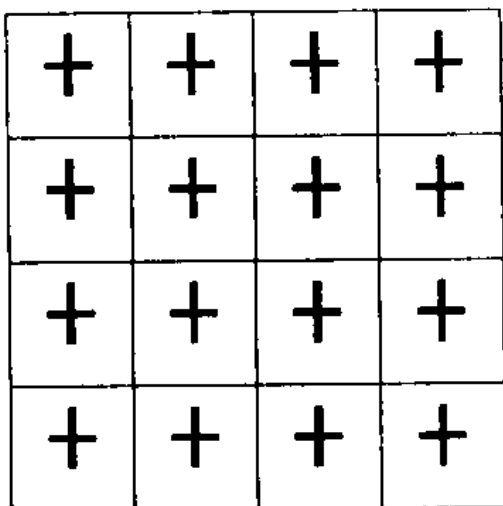
4 ,

(W)

1



2a



2b

+	-	+	-
+	-	+	-
+	-	+	-
+	-	+	-

-	+	-	+
-	+	-	+
-	+	-	+
-	+	-	+

2c

+	+	+	+
-	-	-	-
+	+	+	+
-	-	-	-

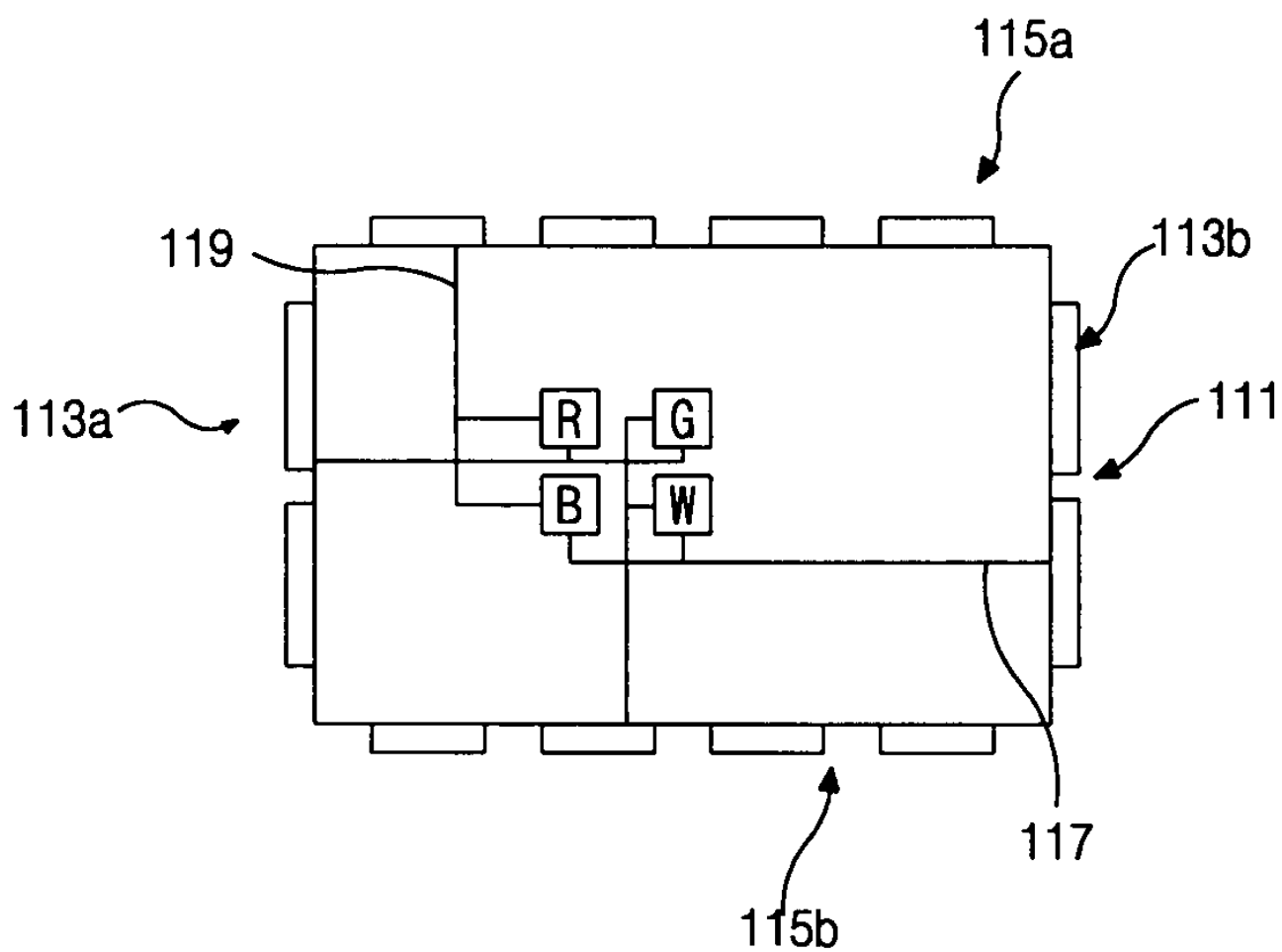
-	-	-	-
+	+	+	+
-	-	-	-
+	+	+	+

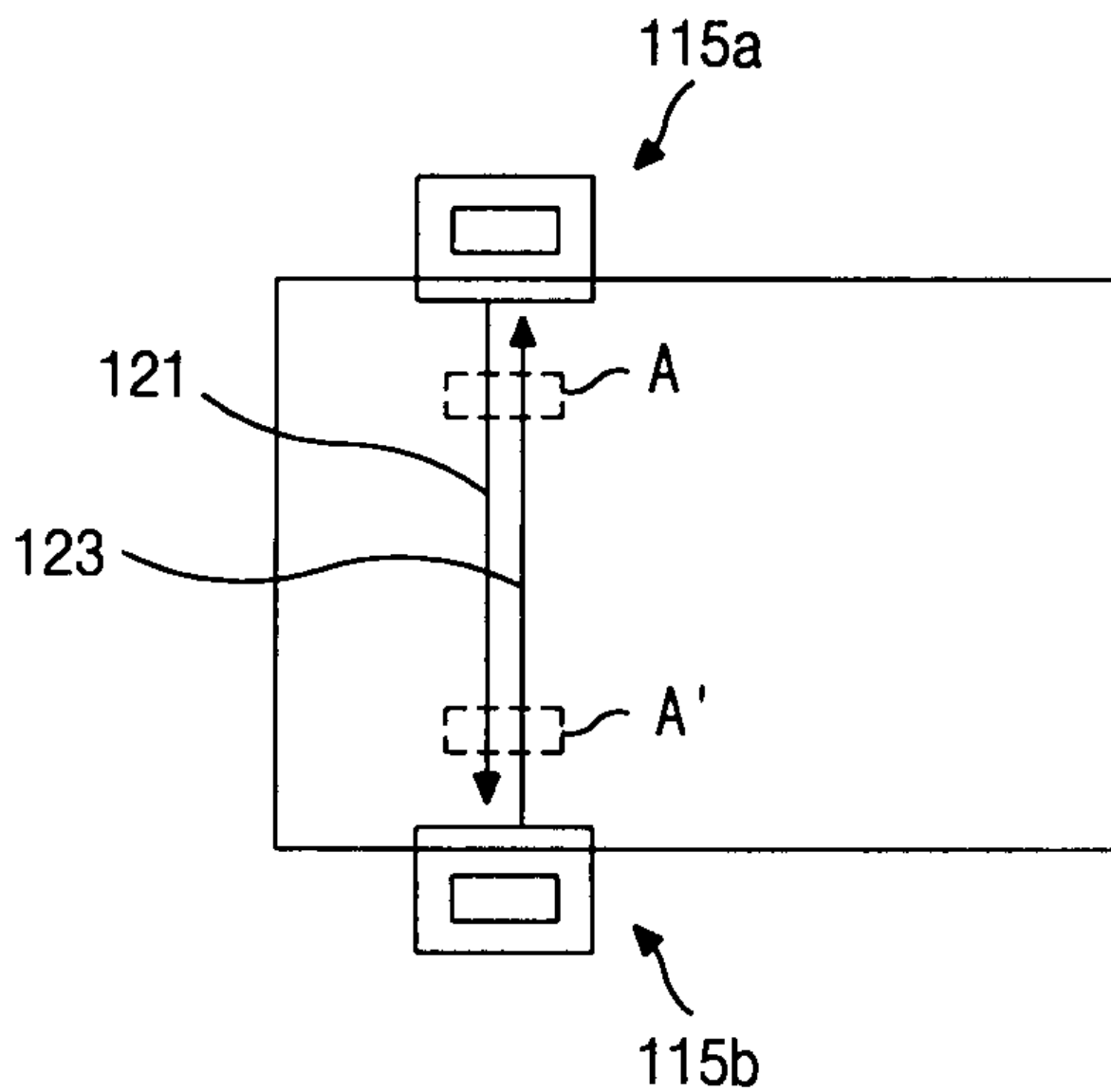
2d

+	-	+	-
-	+	-	+
+	-	+	-
-	+	-	+

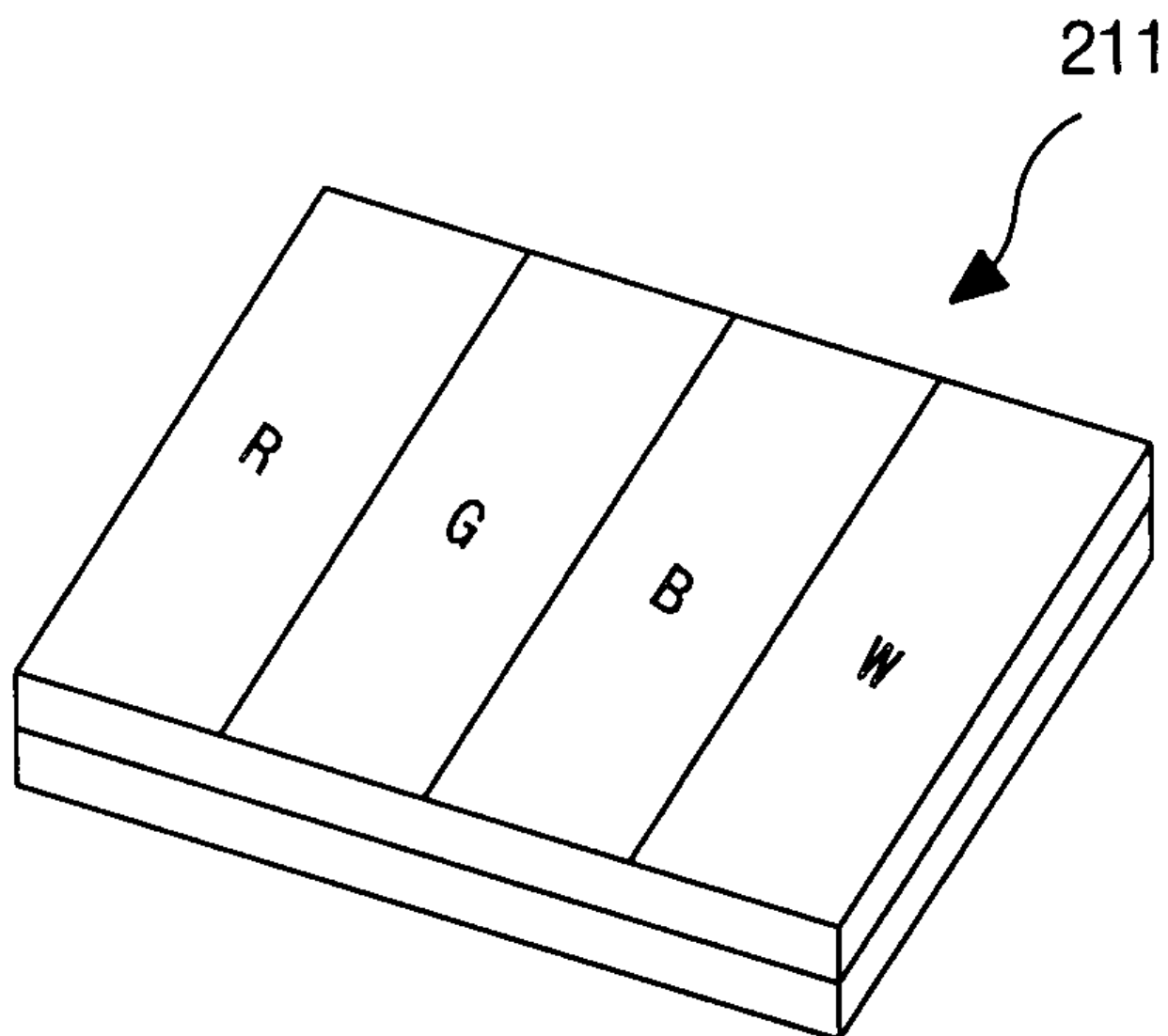
-	+	-	+
+	-	+	-
-	+	-	+
+	-	+	-

3

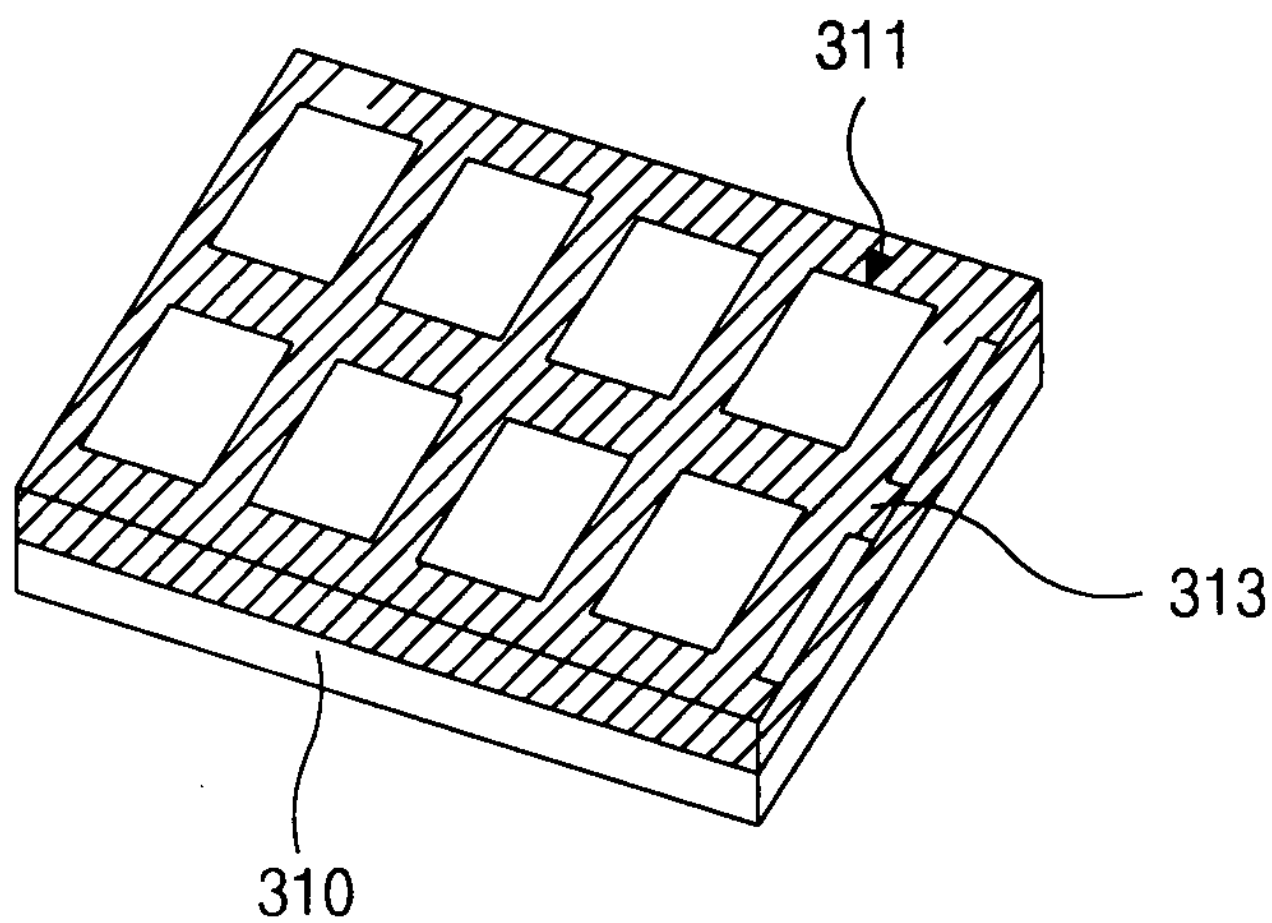




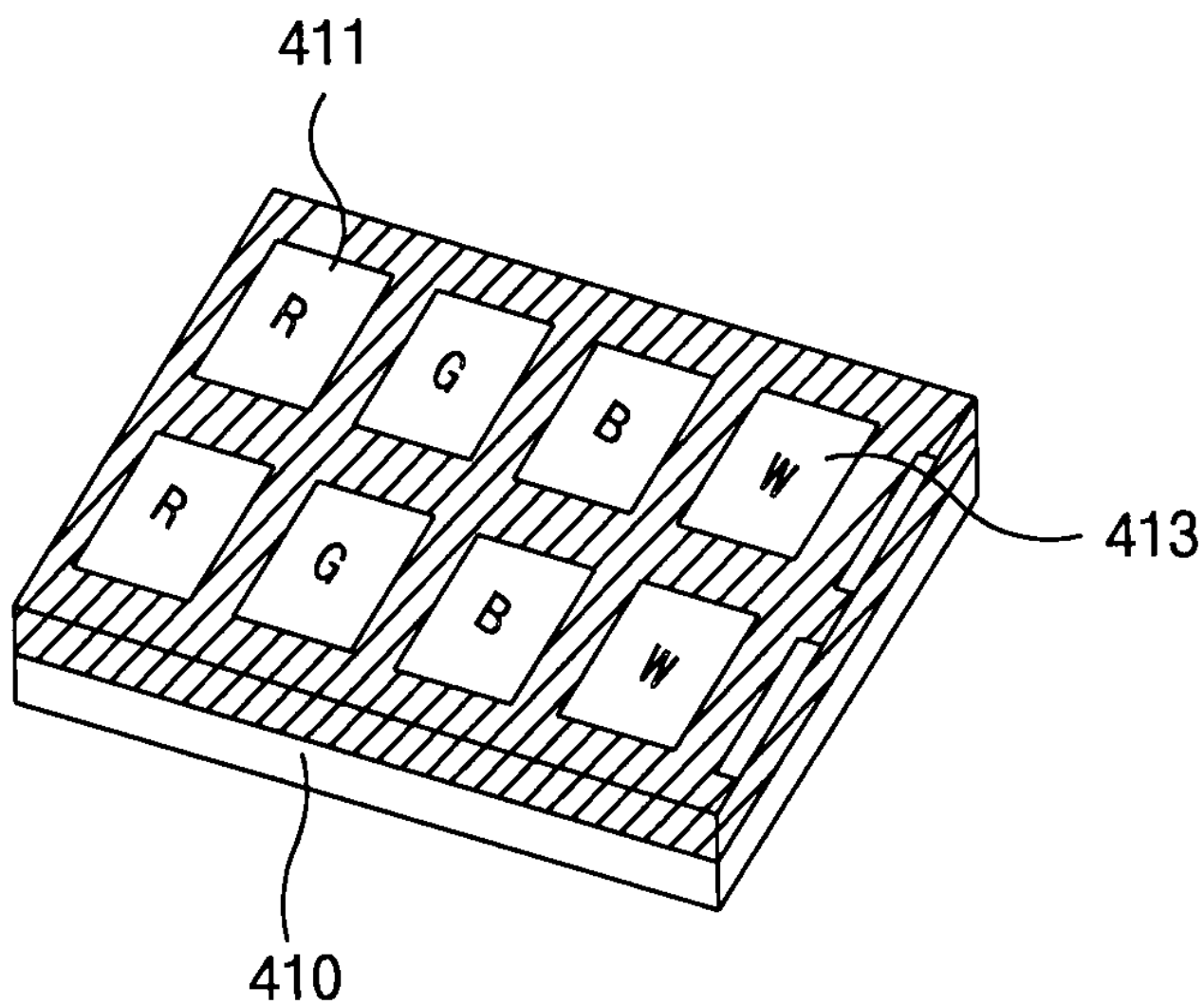
5



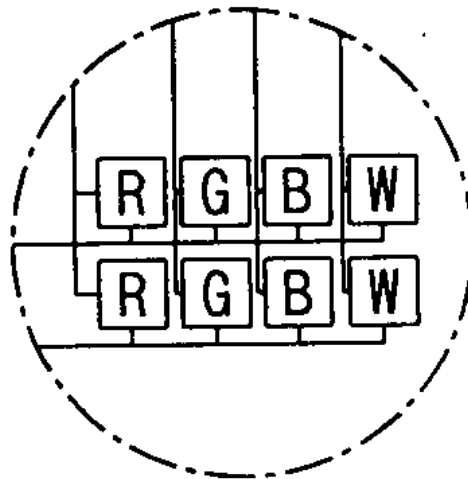
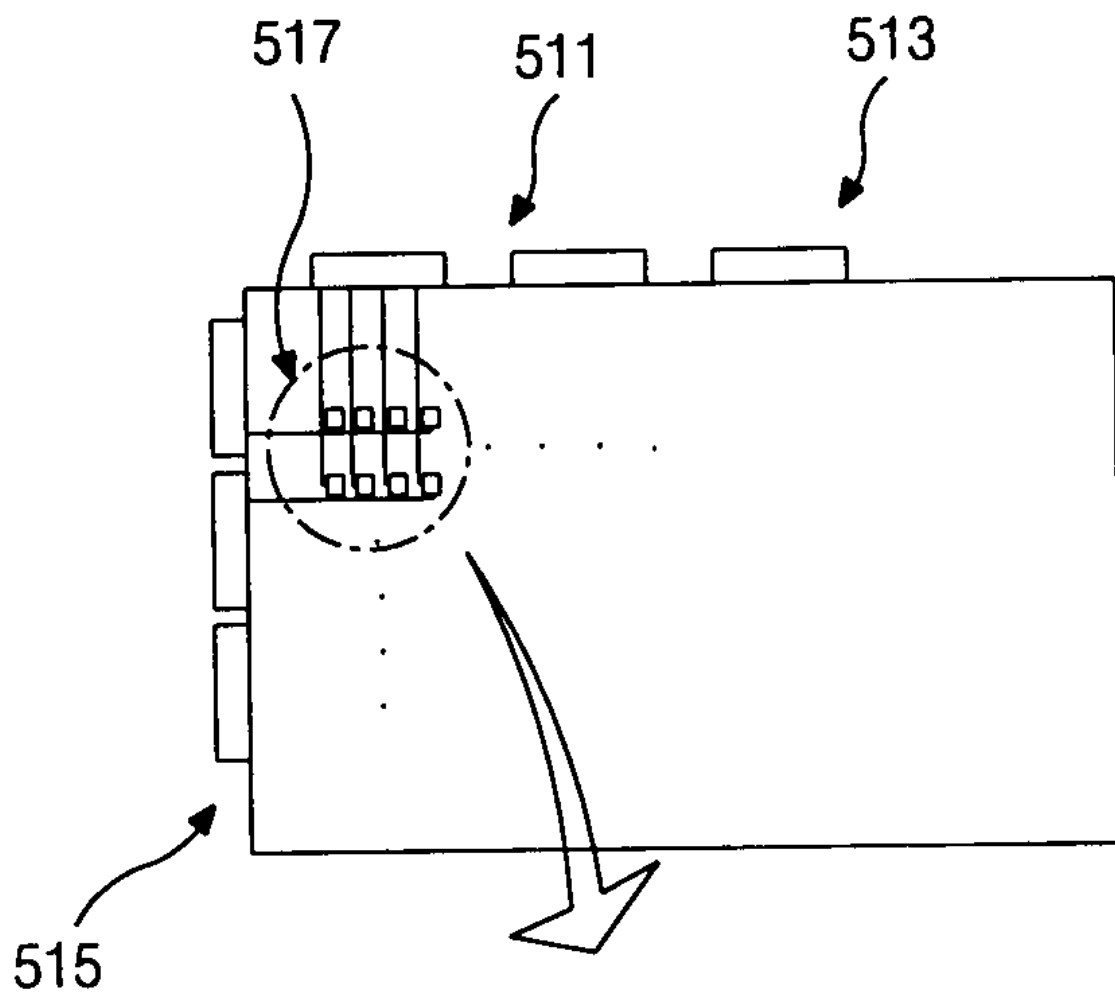
6a



6b



7



专利名称(译)	液晶显示装置的制造方法		
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[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	SONG IN DUK 송인덕 CHUNG IN JAE 정인재		
发明人	송인덕 정인재		
IPC分类号	G09G3/36 G02F G02F1/136		
CPC分类号	G09G3/3607 G09G3/3648 G02F2201/52 G09G2320/0223		
其他公开文献	KR100679521B1		
外部链接	Espacenet		

摘要(译)

液晶显示器本发明涉及液晶显示器。特别地，四边形（RGBW）滤色器以条纹排列作为液晶显示器的驱动模式。由于使用在面板侧共设置驱动器IC的单排驱动模式，可以防止在双排驱动中出现的垂直布线故障。以这种方式，可以制造高清晰度的液晶显示器，其中在液晶面板的相/下侧不发生污迹。

