

(19) (KR)
 (12) (A)

(51) 。 Int. Cl. ⁷
 G02F 1/136 (11) 2001 - 0081677
 (43) 2001 08 29

(21) 10 - 2000 - 0007715
 (22) 2000 02 18

(71) .
 , 20

(72) 489 - 1 106
 1 7 - 410

(74)

(54)

, , , (RGBW)
 (stripe) , IC , /

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
(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
 COG
 가 가
 (flexible printed circuit board)
 ACF IC
 가
 가 IC
 가
 IC
 (tape carrier package)
 LCD
 가
 1
 , IC(17) (19), IC
 (13) (11)
 (ACF : Anisotropic Conductive Film) (18)
) ()
)
 가 가 (frame) 가
 (frame), (column), (l
 ine) 가 (inversion) (frame), (column), (l
 ine)
 (dot inversion) 4가
 2a 2d
 2a , ,
 ()
 ,
 2c ,
 ,
 2d ,
 ,
 (가)

(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)

IC

(119)

가

(controller)

가

113b)

(111)

(111)

IC(115a)(115b)

IC(113a)(

가

4

가

IC

(123)

가 가

IC(115a)

가

가

(121)

(signal delay)

(A)(A')

(121)(123)

(A) (A')

(Sstripe)

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

(W)

RGBW(red, green, blue, white) (W) 가

5

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

6a 6b 5

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

(313) (311)
(contrast ratio)

(313)

가 (311) 6b (411) (resin)

RGBW

(413)

(PCB)

7

(517)

(513)

(515)

(517) 가

(511)

(+) ,

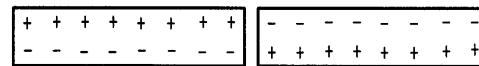
가 가 ,
(-)

(515)

가 가
(515)

가

가

RGBW RGGB
가

가

RGBW RGGB

가

(57)

1.

가

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

가

IC ;

가

IC

IC

2.

1 ,

(W)

3.

1 ,

(W)

4.

1 ;

/ / / 가 , , ,
2 ; ; ;

1 2 ;

1 2 ; ; ;

1 , 가 ;
2 , 가 ;

5.

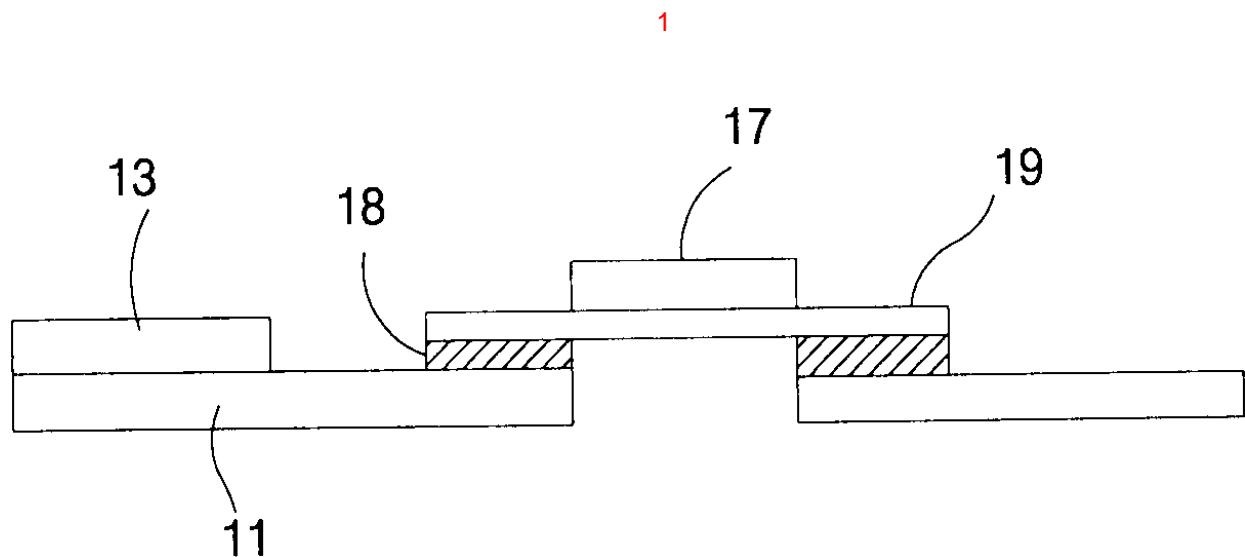
4 ,

(W)

6.

4 ,

(W)



2a

+	+	+	+
+	+	+	+
+	+	+	+
+	+	+	+

-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

2b

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

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

2c

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

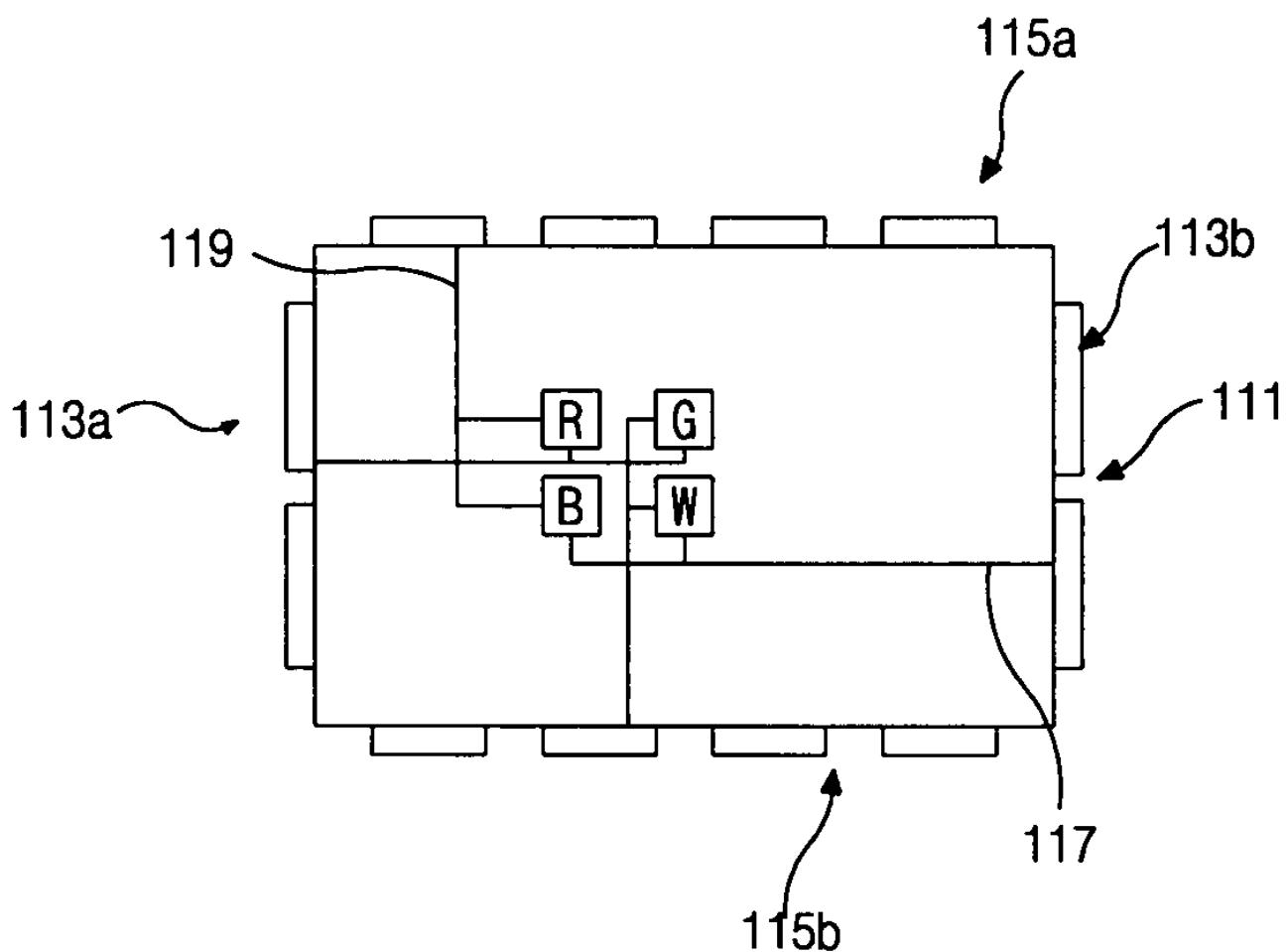
-	-	-	-
+	+	+	+
-	-	-	-
+	+	+	+

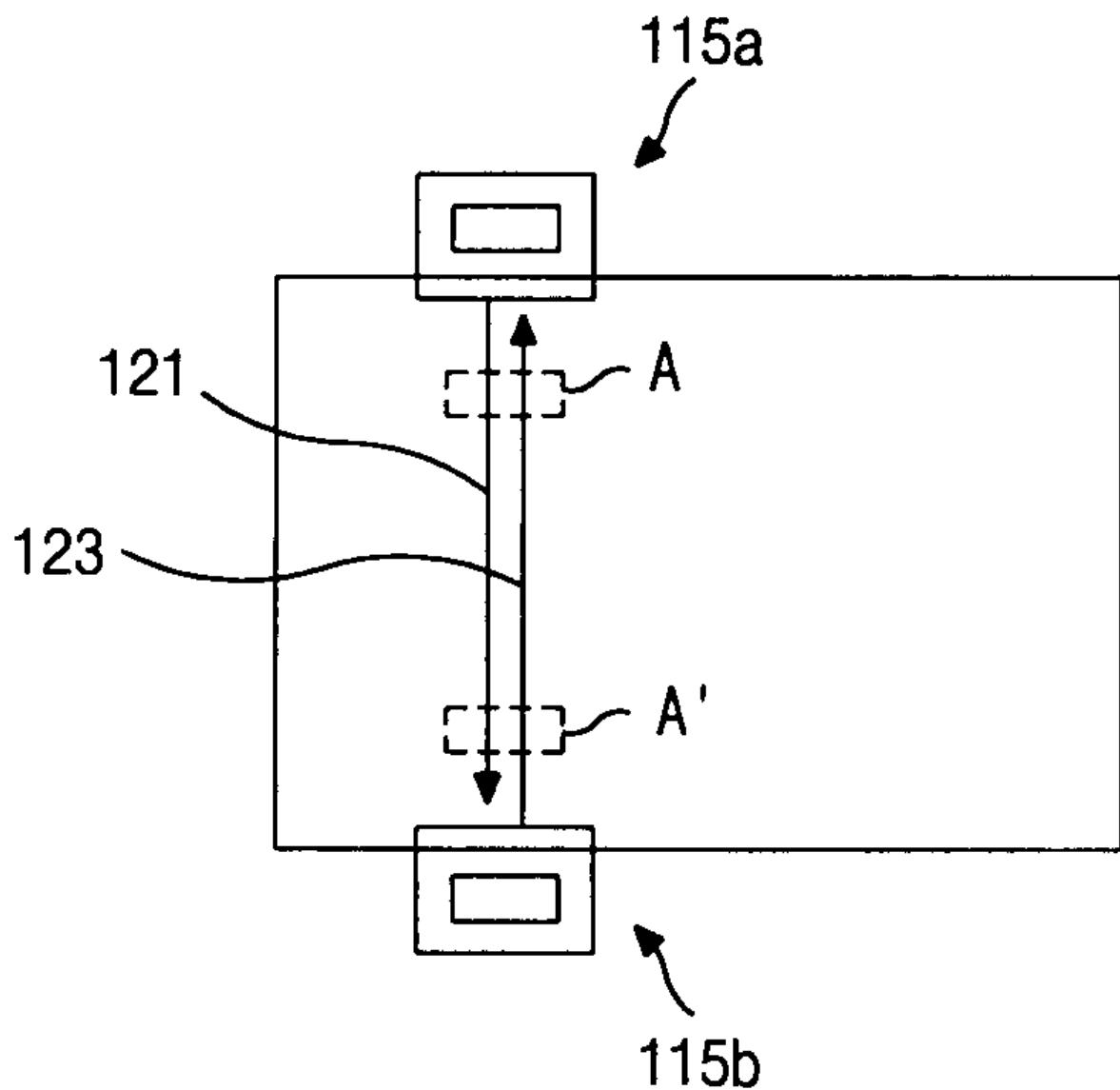
2d

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

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

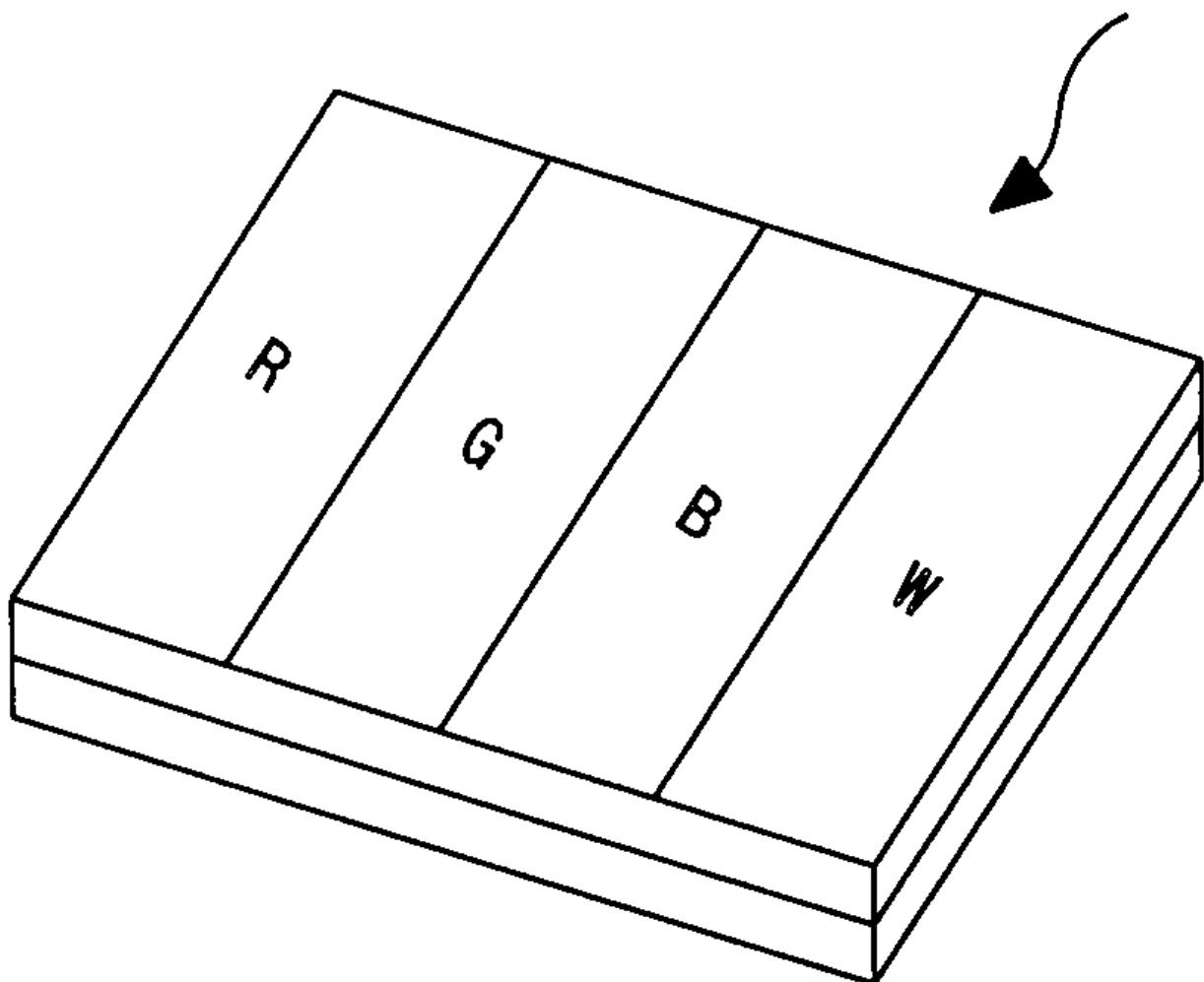
3



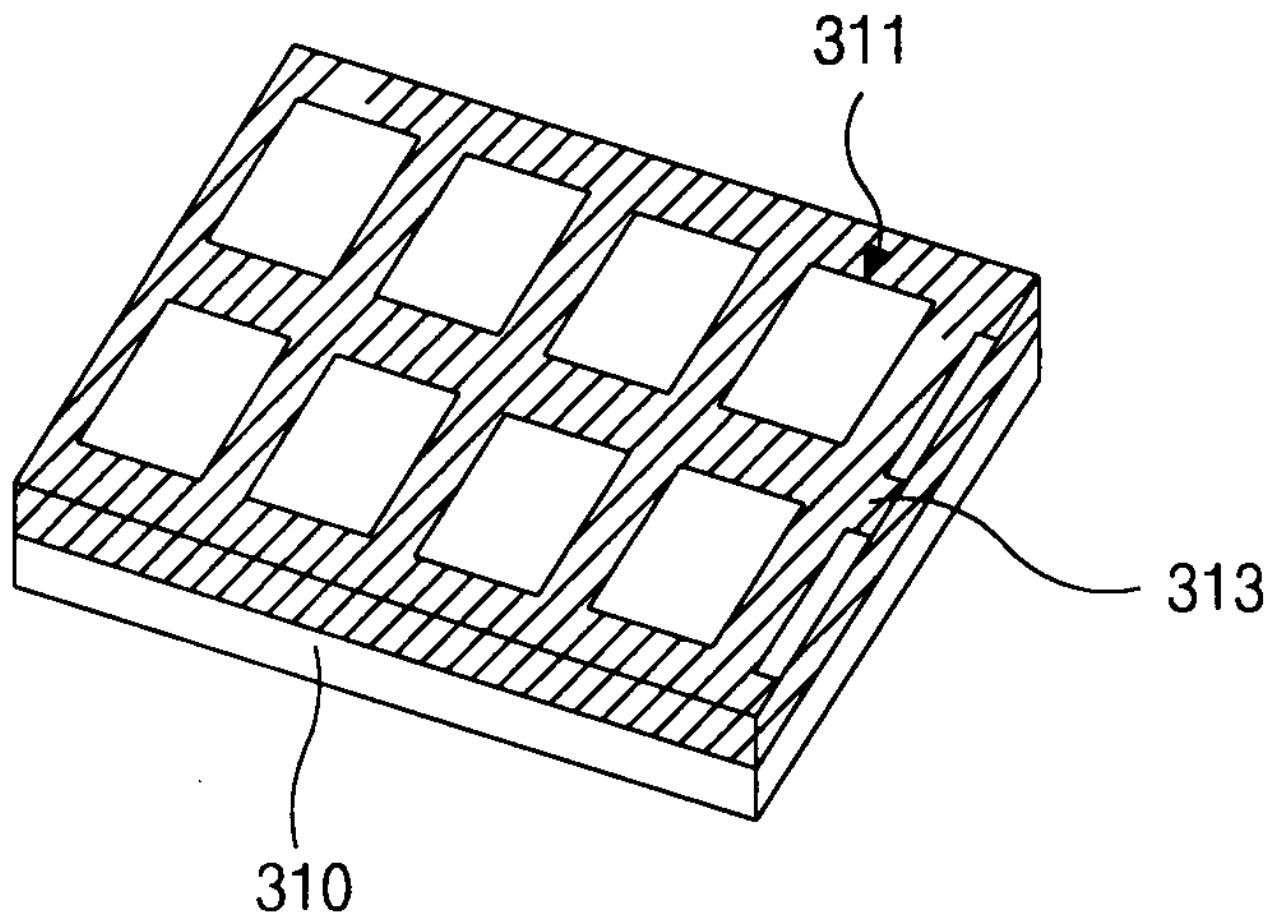


5

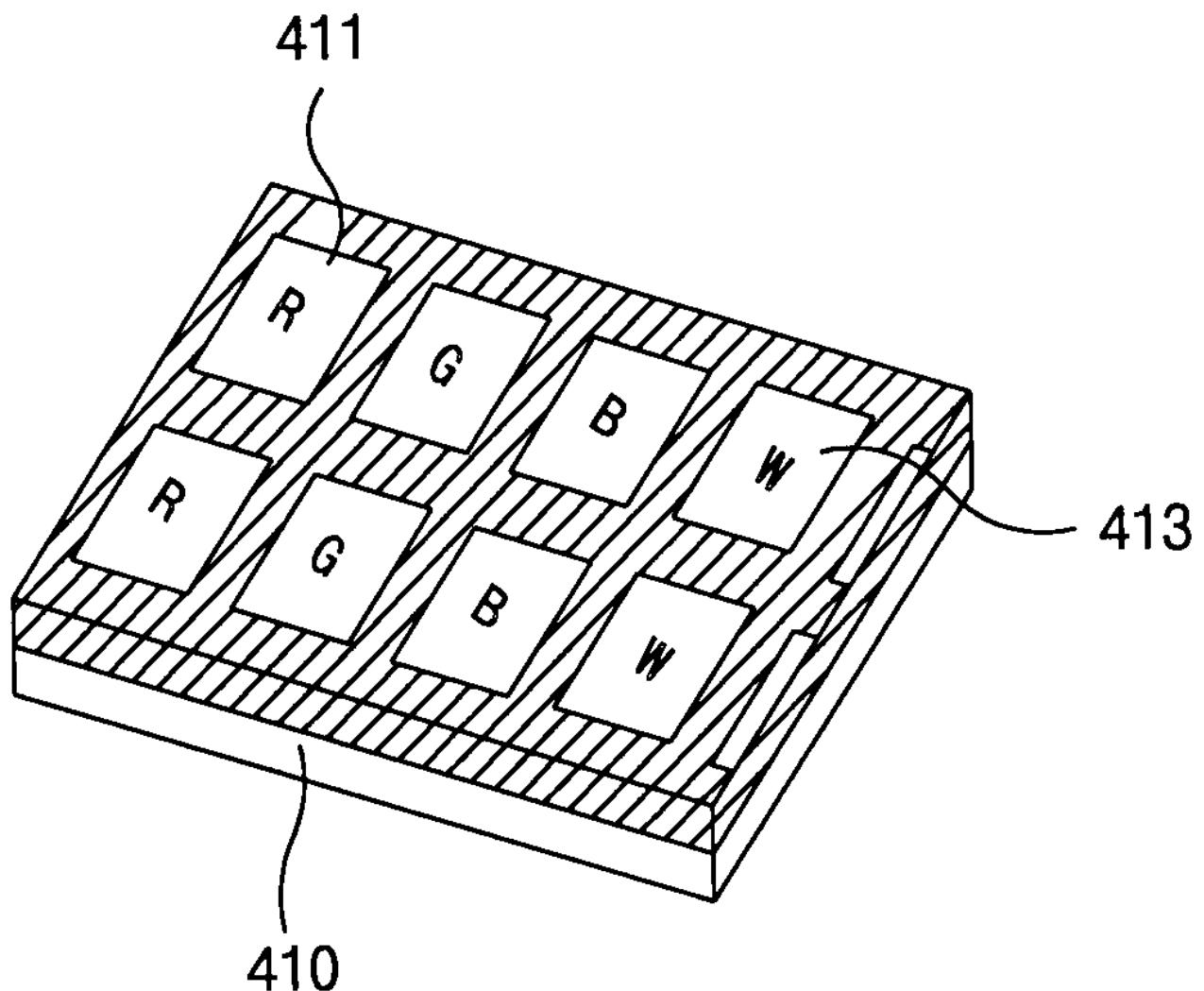
211

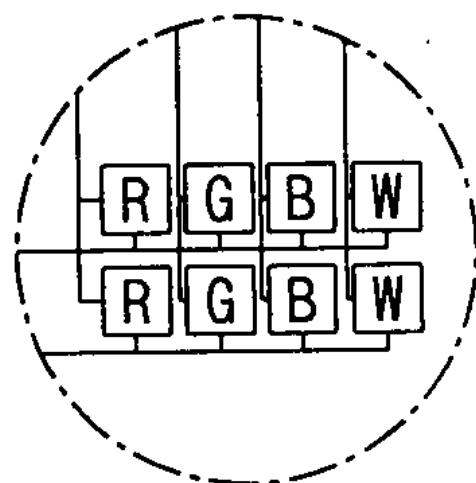
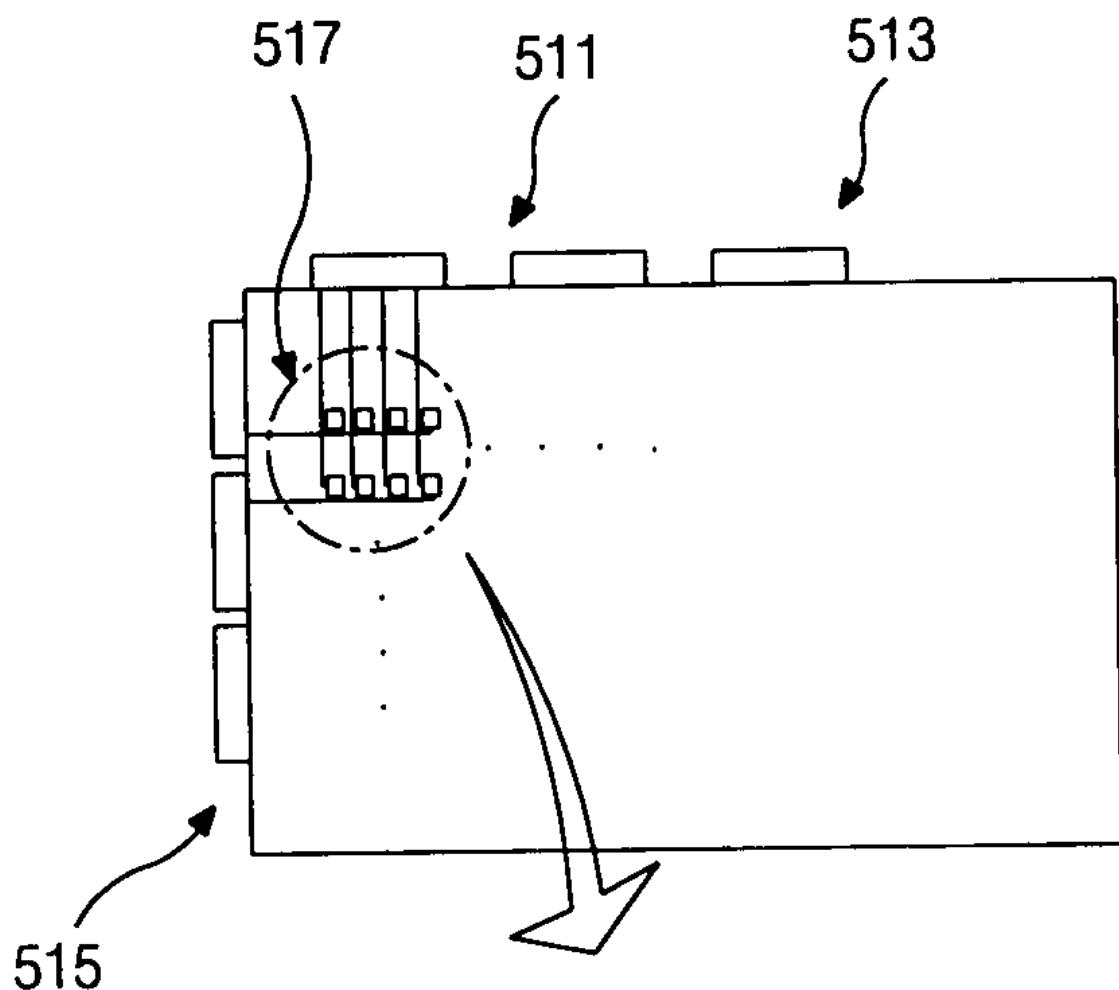


6a



6b





专利名称(译)	液晶显示装置的制造方法		
公开(公告)号	KR1020010081677A	公开(公告)日	2001-08-29
申请号	KR1020000007715	申请日	2000-02-18
[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。

