

(19)
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10-2004-0083648
2004 10 06

(21) 10-2003-0018196
(22) 2003 03 24

(71) 416

(72) 607 703

15 102 1301

112 205

1161 5 502 1305

(74)

1

(54)

1a

, RGBW

1a 1 ,
 1b 1a ,
 2 4 ,
 3a 3b 2 ,
 4 1 ,
 5 3 - ,
 6 2 ,
 7 3 ,
 8 4 ,
 9 5 ,
 10 6 ,
 11 .

< >

50 ; 51 ; 1
 52 ; 2 53 ; 3
 R ; G ;
 B ; W ;

, RGBW . .

가 ,
가 ,

가 , , , 가 , ,

가 , , ,
가 , , ,

, (R), (G), (B) , , ,

(stripe) , (R), (G), (B) , (R), (G), (B) (mosaic) , (delta) .

(W) (R), (G) (B) 3
가 RGBW . . . (R), (G) (B)
1:1:1:1 () 가 , 가
25% 가 , R, G, B W 4 30% 2 가
가 (text)가 (rendering) TV 가 (monitor)

BW , **RG**

1 , 1 , 2 가 2 , M, N , M , N , M

1 , 가 , 2

, 1 , 가 , 2

1 , 1 , 2 가 , 2 , M, N , M , N , M ,

, 1 , 가 , 2

, 1, 가, 2, ,

4 (4X) (B) 가 , 가
 (R) , (50) (G) 1/2 (B) (W)
 , 가 , ,
 ,
 2 4 가
 2 (B) , (W) (R) (B) (W) , (R)
) , (G1, G2, G3, G4), (B1) , (W1) , (R)
 (G1, G2, G3, G4), (B1) , (W1) , (R)
 (G) (B) (B) (G) 가 , (R)
 4 (R) 가 4 (G) 1/2 가 (B) (W) 2 (W) , (rend
 ering)
 3a 3b 2 가
 3a (R) (W) (R) 가
 , 3b (R) (R) (W) (R) 가
 가 , 4 (R) (R) (W) (R) 1/4 (R)
 (R) 가 , 1 (R) 4 (R)
 2 (600, 11) 가
 , (B) (B) 가 (R) (G)
 , (W) , , 가
 ,
 , (B)
 ,
 4 5 가 1
 , 5 3

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

, (G) (50) (B) 1/2 (R) (W) (50)
 , (R) (R) (W) 2 (W) (rendering) (B) (G) 1/2
 8 4 (50) 가
 (W), (R), (G) 2 (B) 1 (51), (B), (G) 2 (52)
 1 (W), (51) (R), (B) (G) 가 , 2 (52)
 1 (R), (1X) 1 (51) 2 (52) 가
 (B), (B), (G), (W), (B), (G) 가
 , 1 (1X) 2 (2X) (50) 가
 (G) (50) (B) 1/2 (R) (W) (50)
 , (R) (R) (W) 2 (W) (rendering) (B) (G) 1/2
 9 4 5 (50) (R) 1/4, (B) 1/4 가 (W)
 1 (R), (51) (G) (R), (W) 가 (B) 가 , 3 (53) , 2 (W), (G)
 1 (R), (1X) 1 (51) 2 (52) 가
 (R), (G), (B), (G), (B), (R), (G), (W) 가
 , 1 (1X) 2 (2X) (50) (W) 가
 (B) 가
 , 1 (1X) 2 (2X) (50) (G) 3/4
 , (50) (R) (50) (G) 3

(400) (500) 가
 (1000) TFT , TFT ,
 (Von, Voff) 가 . (400) (600)
 (CPV 0E) (G1, G2, ..., Gn)
 가 .

) 2 (600) (R) (W) 2
 (500) (400) , , (R) (W) 가 .

가 가 가

RGBW

(W) RGB

가 50% 70% 가

RGBW
가

RGB

RGBW
가

가 가

(57)

1.

, 2 , M, N

1 , ,

M 1 2 가 , M , M N ,

M N

2.
1 ,
1 , 가 , 2 ,
가 .

3.

1 ,

1 , 가 ,

, 2 ,

4.

2 3 ,

5.

;

;

;

;

, 2 , M, N 1 , ,

M M 1 2 M 가 , M N , , .

M N

6.

5 ,

1 , 가 , 가 , , 2 , ,

7.

5 ,

1 , 가 , , 2 , , 가

8.

6 7 , ,

9.

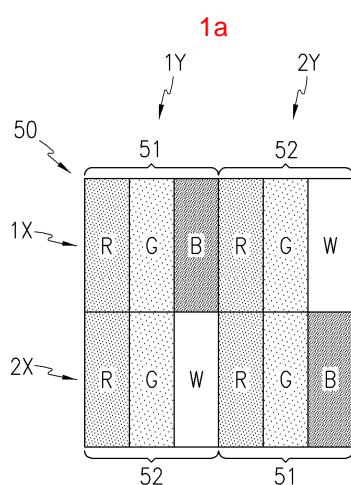
;

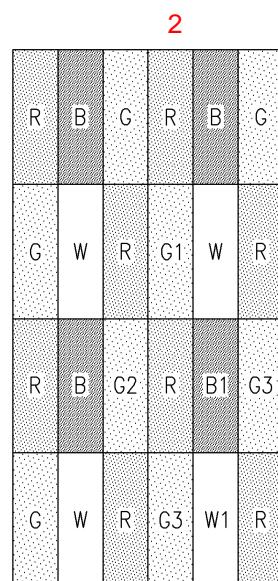
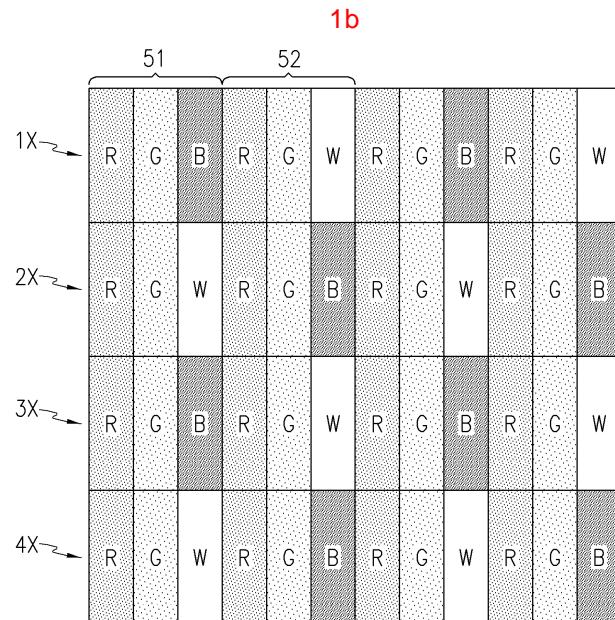
;

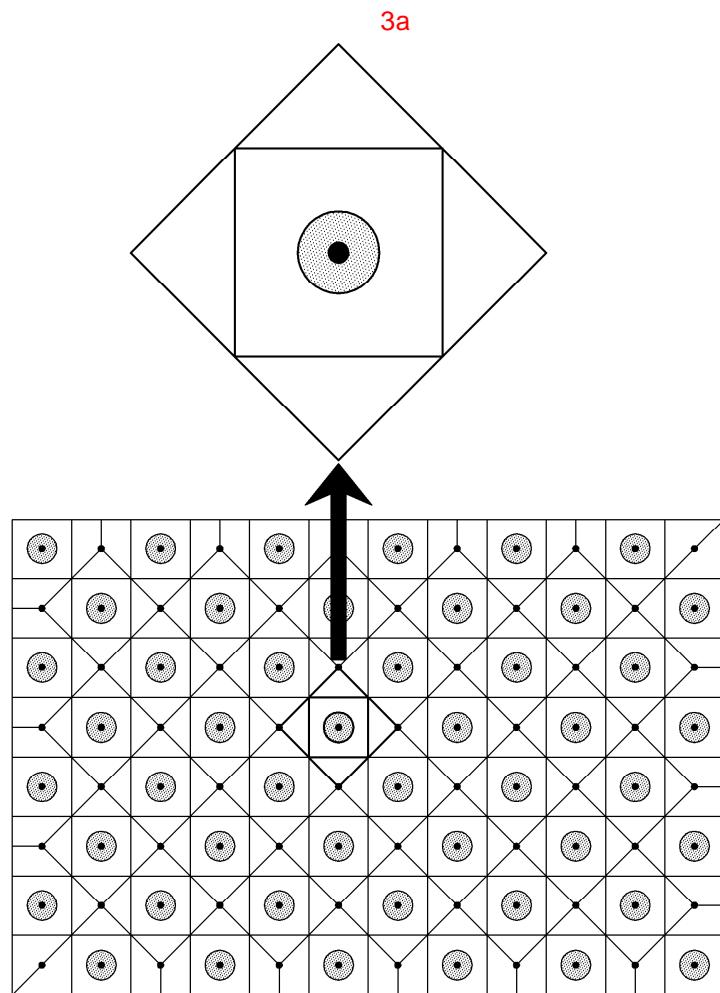
;

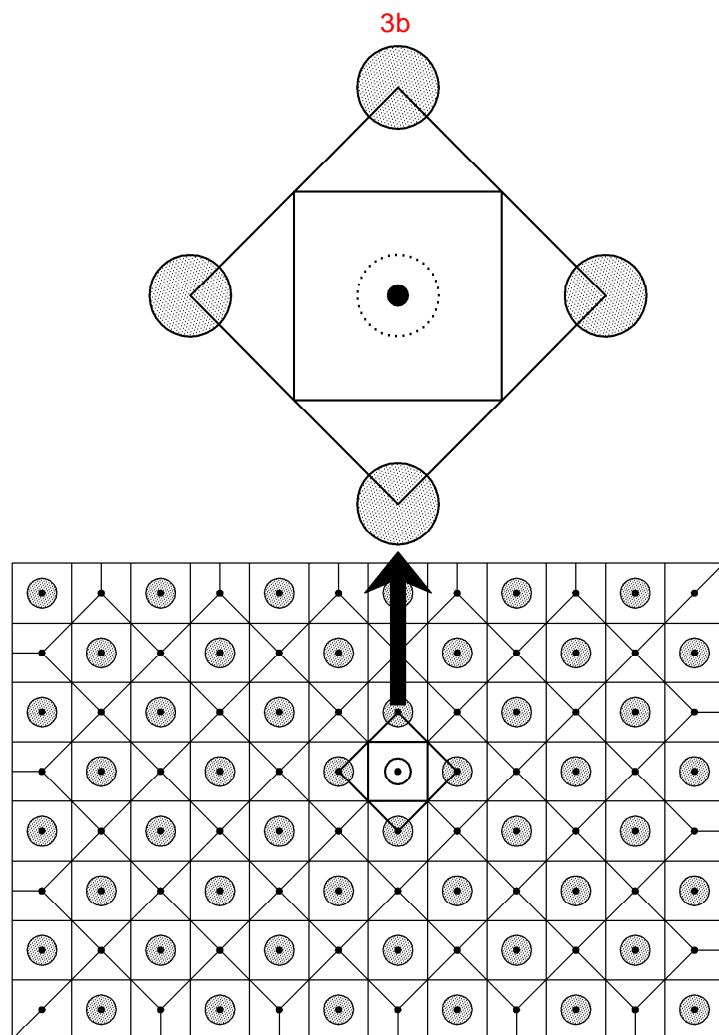
;

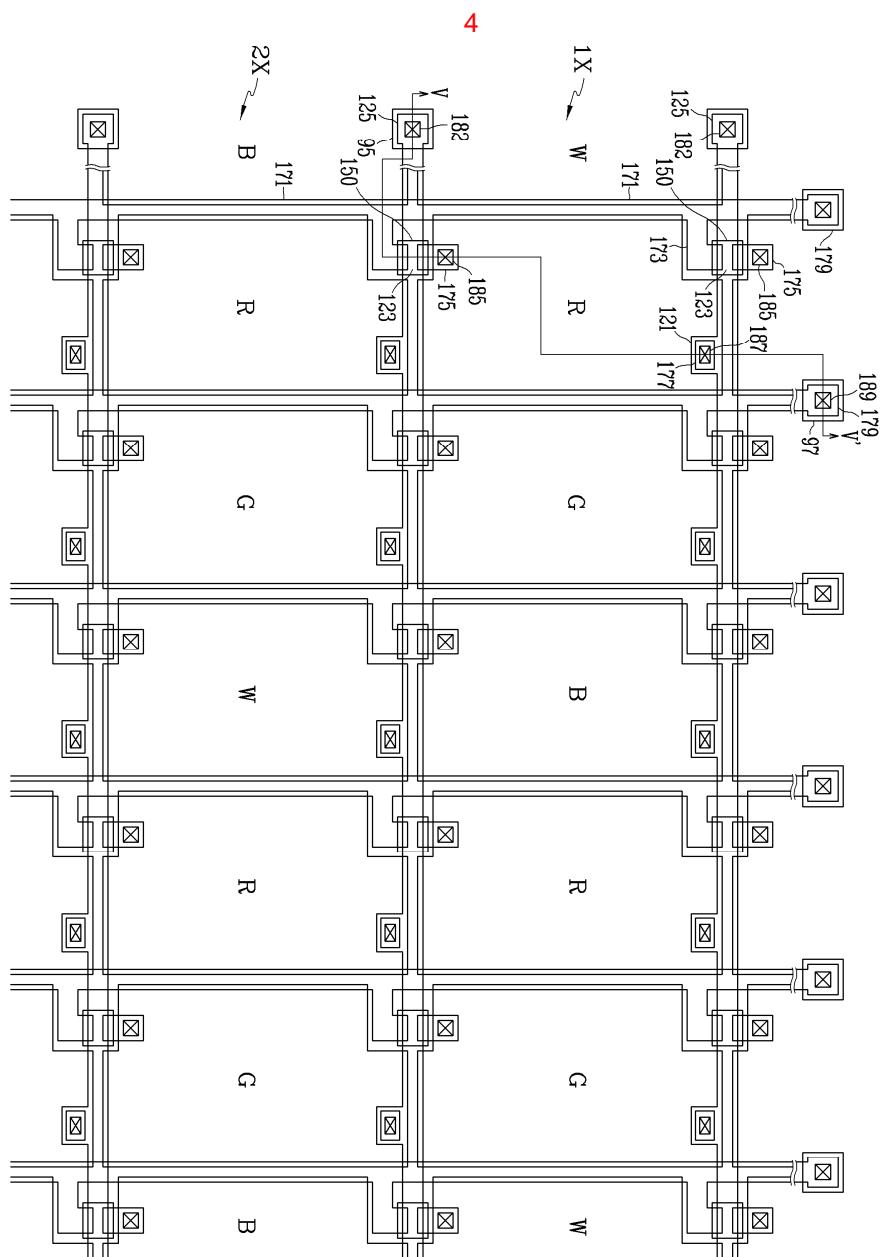
N , 2 , , 1 , , 3 , M, M , 3 가 1 , 2 가 , M N 1
 M N .
10.
 9 , 1 , , 가 , 3 , , 2 , 가 ,
 .
11.
 9 , 1 , , 가 , 3 , , 2 , 가 ,
 .
12.
 10 11 , , 가 , , 가

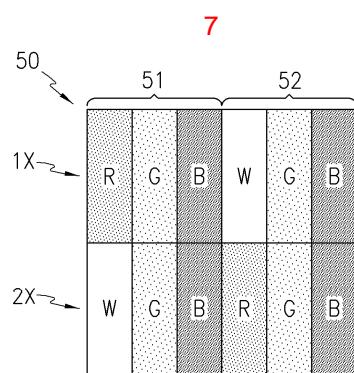
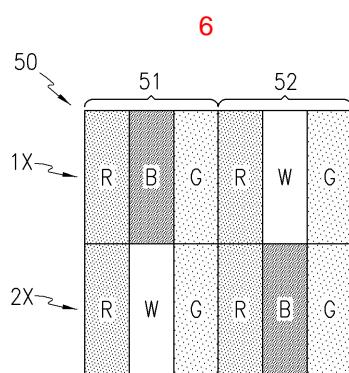
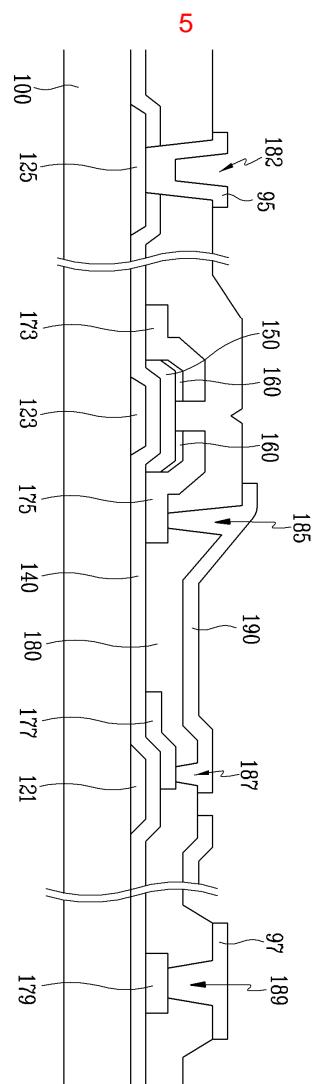


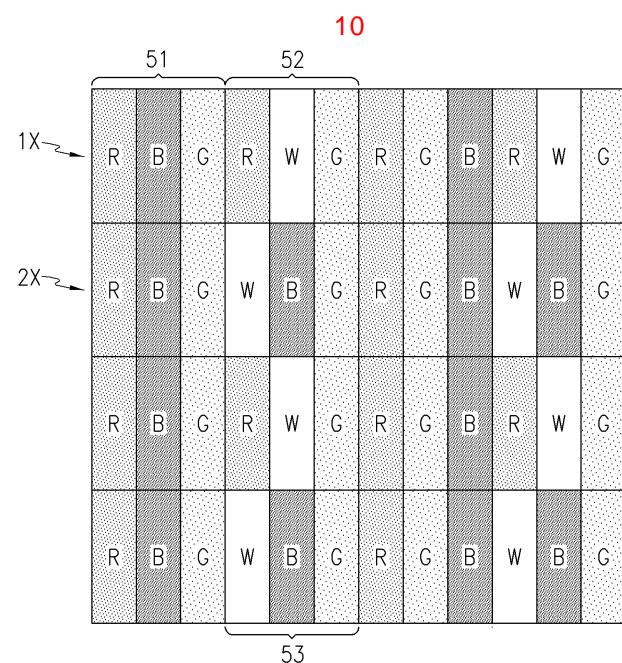
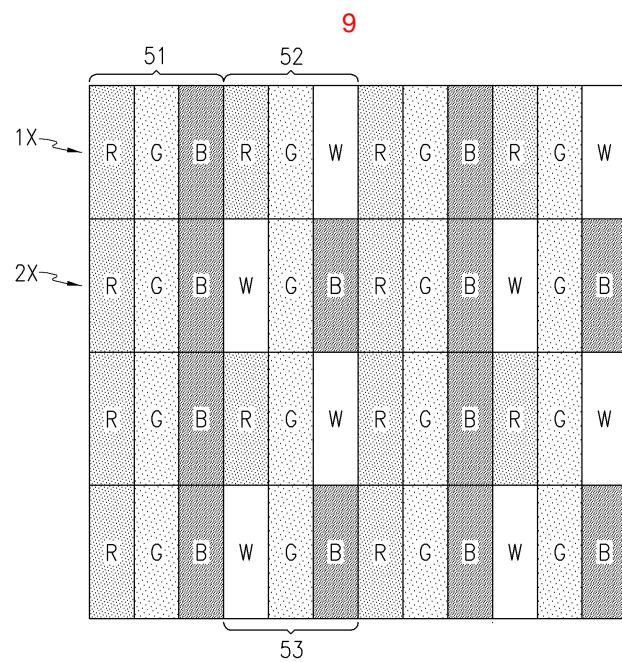
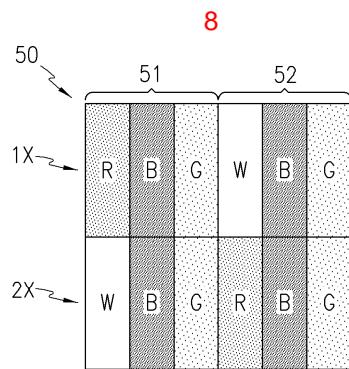


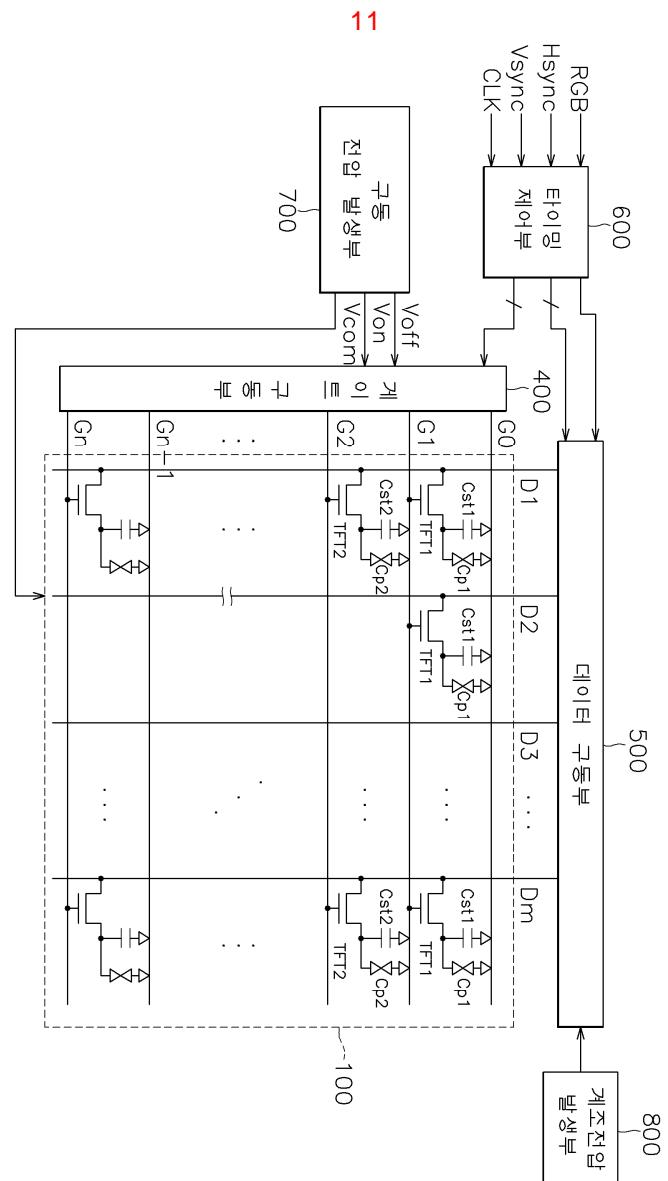












专利名称(译)	液晶显示器		
公开(公告)号	KR1020040083648A	公开(公告)日	2004-10-06
申请号	KR1020030018196	申请日	2003-03-24
[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	三星电子有限公司		
当前申请(专利权)人(译)	三星电子有限公司		
[标]发明人	ROH NAMSEOK 노남석 LEE SEONGDEOK 이성덕 HONG MUNPYO 홍문표 KIM CHANGYEONG 김창용		
发明人	노남석 이성덕 홍문표 김창용		
IPC分类号	G02F1/1335 G02F1/133		
CPC分类号	G02F1/133514 G02F2201/52		
其他公开文献	KR100915238B1		
外部链接	Espacenet		

摘要(译)

其中相应的奇数和由M像素行组成的像素组与M像素行相邻的N像素行的液晶显示器被布置为M像素行移动到行写入方向的形式，与之相比较。M像素行作为点，第二点连续排列，N像素行连续第二点，M，N点由第一点，红色像素和绿色像素组成，白色像素点由红色像素组成暗示并对应于像素电极，绿色像素和蓝色像素绝缘基板，在绝缘基板上形成有线写入方向的多条栅极线，多条数据线，连接到栅极线的多个开关元件和数据线，和连接到开关元件的多个像素电极排列。多条数据线与栅极线绝缘，同时在绝缘基板上形成列方向并且相交。渲染和RGBW。

