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(12) (A)

|                                             |                 |              |                            |
|---------------------------------------------|-----------------|--------------|----------------------------|
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| (71)                                        |                 | 3 416        |                            |
| (72)                                        |                 | 602-54201    |                            |
|                                             |                 | 621 1206     |                            |
|                                             | 4               | 1 1505       |                            |
|                                             |                 | 104 104      |                            |
| (74)                                        |                 |              |                            |
|                                             | :               |              |                            |
| (54)                                        |                 |              |                            |

|    |    |   |   |   |   |   |   |   |
|----|----|---|---|---|---|---|---|---|
| 1  |    | 2 |   |   |   | , |   |   |
| 3  |    | 1 | 2 |   | A | B |   | , |
| 4  |    | 1 |   |   |   |   |   | , |
| 5  |    | 1 |   |   |   |   |   | , |
| 6  |    | 2 |   |   |   |   |   | , |
| 7  |    | 2 |   |   |   |   |   | , |
| 8a | 8b |   |   |   | A | B |   |   |
|    |    |   |   |   |   |   |   | , |
| 8c | 8b |   |   |   | A | B |   |   |
|    |    |   |   |   |   |   |   | , |
| 8c |    | 1 | 2 |   |   |   | A | B |
|    |    |   |   |   |   |   |   | , |
| 9a | 9b |   |   |   |   |   |   | , |
| 9c |    | 1 | 2 |   |   |   |   | , |
| 10 |    | 3 |   |   |   |   |   | , |
| 11 |    |   | A | B |   |   |   | , |
| 12 |    |   |   |   |   |   |   | . |

(liquid crystal display : LCD) (active a  
(step and rep  
(shift), (rotation), (distortion) 가  
( 가

1 LCD



, 411, 413) . , a, b

(407) 가 .

1 a, b a A  
, b B . ,

(407)  
가 .

4 1 LCD

1 , 가 가 A  
B 가 가 가 .

9 10 1 A  
2 9 B , 2 B A  
, A , 3 B 가 3 8 B .

가 가 A B

8c 가 A , B 가 8c  
A B 1 가 A B 가 가

9c 1 LCD .

9c 가 , 가 A , B , A B  
가 A B .

, 6 2 LCD , 7 2

6 2 가 가 가  
, A B 가 가 가

, 9 10 , 1 A 8  
A 90% , B 10% , 2 A 70% , B 3  
0% , B 20% , 3

가 B

가 가 A B 가 .

, 2

2 , 7 a, b, c, d

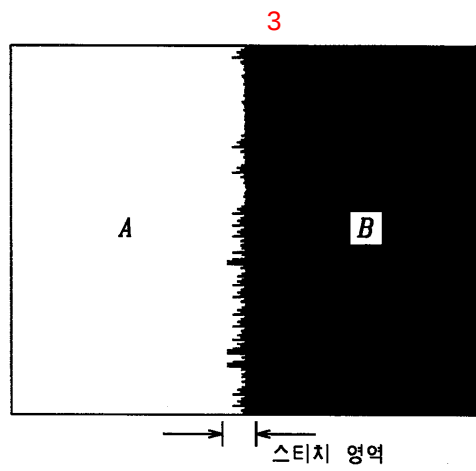
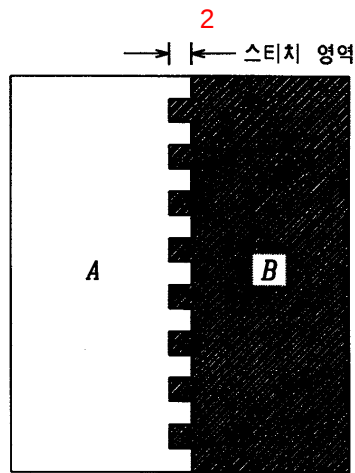
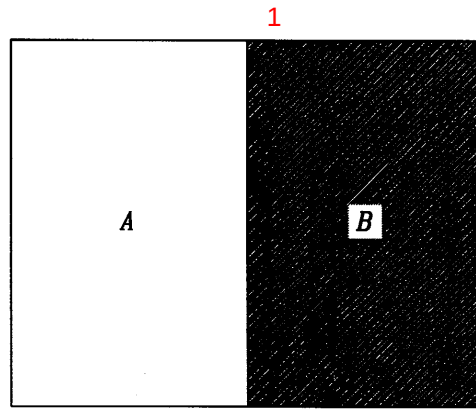
, 7 2 .

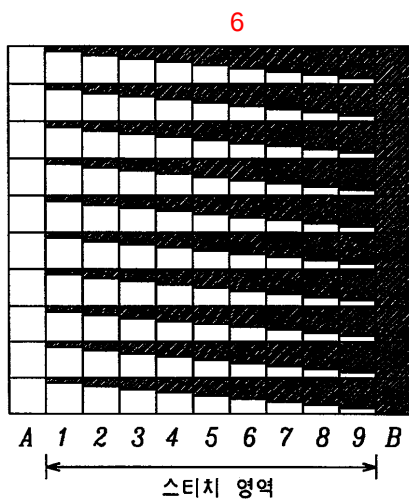
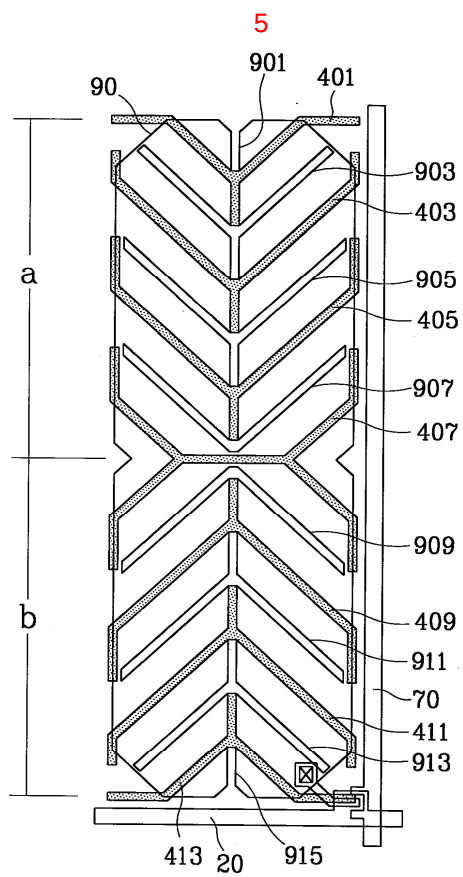
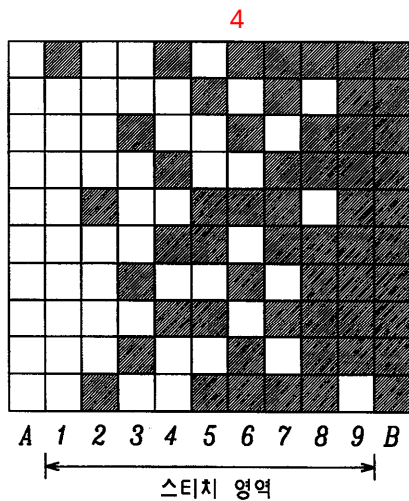
7 , 가 (20) (901, 903, 905, 907, 9  
(70) , (901, 903, 905, 907, 9  
09, 911) 가 (90) (401, 403, 405, 407, 409, 411, 413) 가  
( ) (401, 403, 405, 407, 409, 411, 413)  
(90) (901, 903, 905, 907, 909, 911) (401, 403, 405, 407, 409, 411, 413  
) a b  
, b c , c d  
, a, b, c, d  
가 (401, 403, 405, 407, 409, 411, 413, 901, 903, 905, 907, 909, 911) 가  
.  
.  
2 a, b, c, d  
A B (a : b, c, d), (a, b : c, d), (a, b, c : d), (a, d :  
b, c)  
(401, 403, 405, 407, 409, 411, 413, 901, 903, 905, 907, 909, 911)  
가  
2 8c 9c 8c 9c  
1  
10 3  
7 , 가 (20) (901, 903, 905, 907, 9  
(70) , (901, 903, 905, 907, 9  
09, 911, 913, 915) 가 (90) (401, 403, 405, 407, 409, 411, 4  
) (401, 403, 405, 407, 409, 411, 413, 415)  
13, 415) 가 (90) (901, 903, 905, 907, 909, 911, 913, 915) (401,  
403, 405, 407, 409, 411, 413, 415)  
.  
16 10 a  
2 16  
, 1 2 가  
16 16  
3 가 2 가 가  
11 3 11 A B B  
11 , 가 B 6 가  
가 1 가 B  
, A B A 가 B  
A

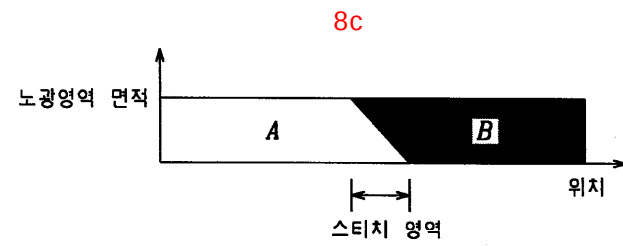
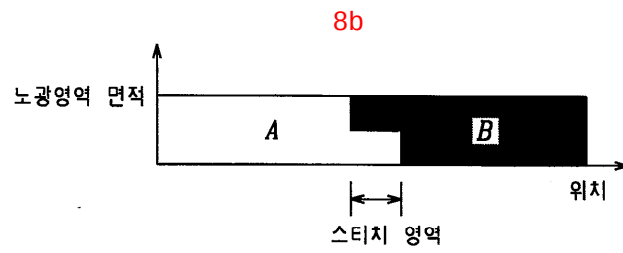
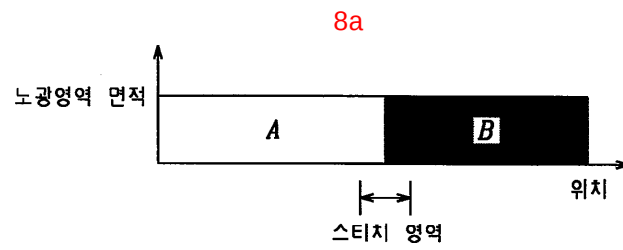
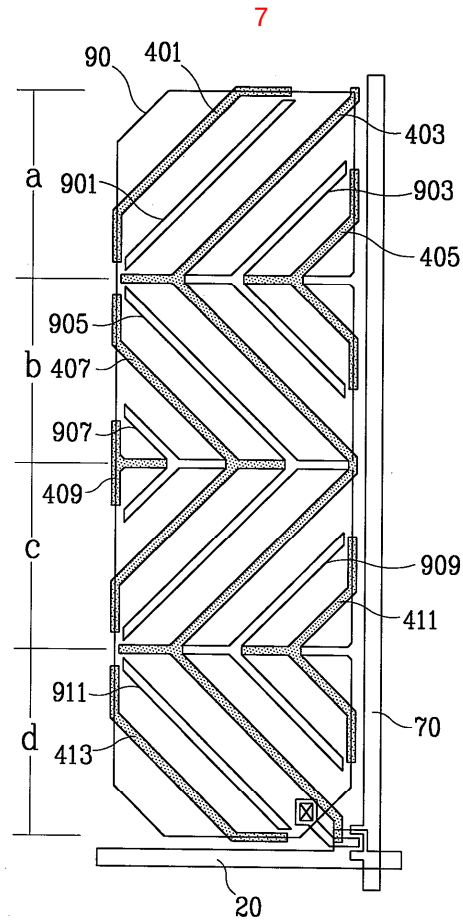
12  
12  
가  
가  
(AMLCD)  
가  
, LCD  
LCD

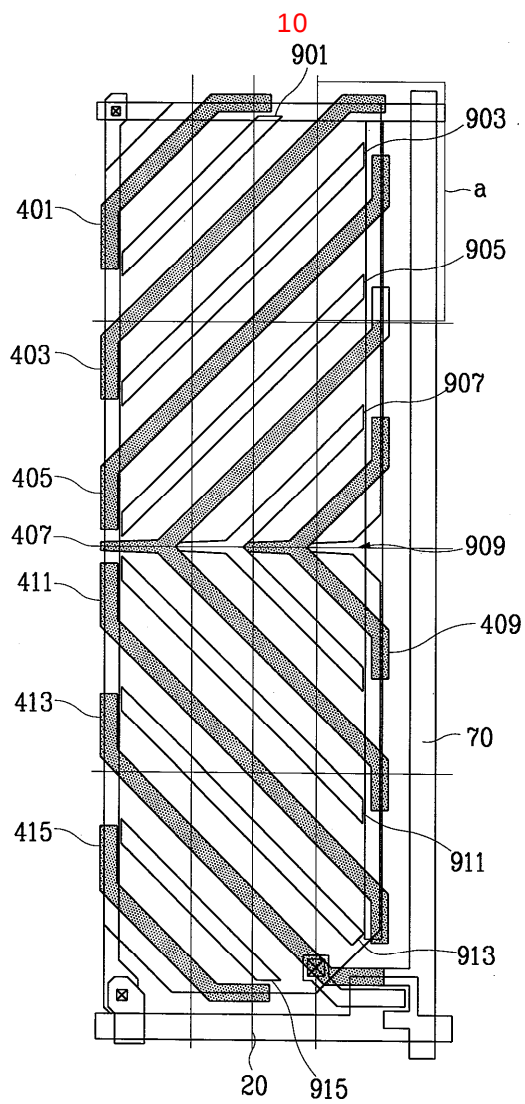
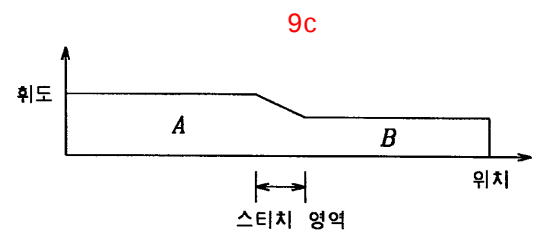
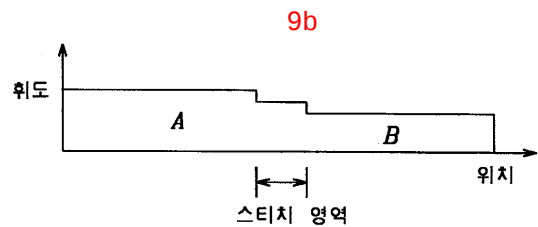
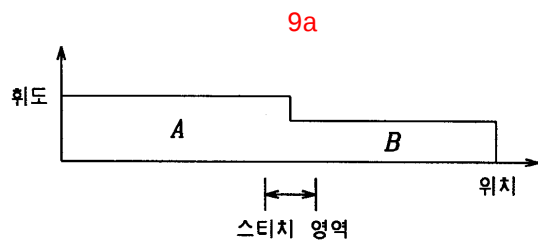
(57)

1.  
1 1 2 1 2 1 2  
2 1 가 1 2 가  
2
2.  
1 ,
3.  
1 ,
4.  
1 3 ,

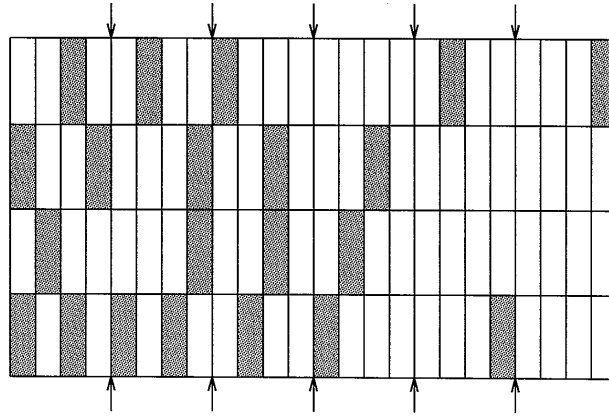








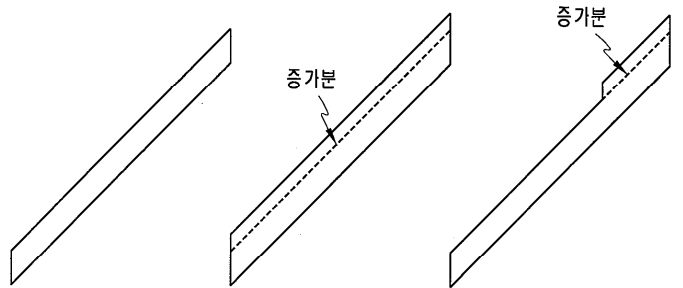
11



12

정렬이 올바른 경우

오정렬 발생시



종래 기술에 따른 설계시  
Domain 면적의 증가

본 발명에 따른 설계시  
Domain 면적의 증가

|                |                                                                                             |         |            |
|----------------|---------------------------------------------------------------------------------------------|---------|------------|
| 专利名称(译)        | 制造液晶显示器面板的方法                                                                                |         |            |
| 公开(公告)号        | <a href="#">KR1020030051142A</a>                                                            | 公开(公告)日 | 2003-06-25 |
| 申请号            | KR1020020026467                                                                             | 申请日     | 2002-05-14 |
| [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                                                                                    |         |            |
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| 发明人            | 탁영미<br>박운용<br>최권영<br>박명재                                                                    |         |            |
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| CPC分类号         | G02F1/1362 G02F2001/13625 G02F1/136286 G02F2001/13606                                       |         |            |
| 优先权            | 1020010079365 2001-12-14 KR                                                                 |         |            |
| 其他公开文献         | KR100853214B1                                                                               |         |            |
| 外部链接           | <a href="#">Espacenet</a>                                                                   |         |            |

#### 摘要(译)

当本发明在基板上进行分割曝光并且制造液晶显示器时，制作在相邻镜头之间的边界重叠的区域，并且为了逐渐增加边界左右镜头的面积，减少·它曝光和由于区域之间的两个针脚错误而产生的亮度差异减小。例如，当沿顺时针方向沿着针脚区域中的水平轴行进时，左侧拍摄曝光单位针迹区域编号逐渐减小，并且右侧拍摄曝光单位针迹区域编号逐渐增加并且亮度连续变化。此时，针脚区域将一个像素区域划分为2个或更大，并且将其用作单位针迹区域。液晶显示器，针脚，域分割，开口部分。

