

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

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 (43) 2001 11 14

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(21) 10 - 2000 - 0023332  
 (22) 2000 05 01

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(71) ,  
 , 20

(72) LG B - 703403

(74)

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(54)

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CVD

, , , ,  
 , , , ,  
 , , , ,

, , CVD

1			
2		1	
3a	3d	2	A - A'
4a	4d	2	B - B'
5		2	
6a	6d	5	A - A'
7a	7d	5	B - B'
8		3	
9	8	A - A'	

20 :                    21 :

21a :                    22 :

23 :                    23a,23b :                    /

24 :                    25 :

26 :                    27,27a,27b,27c :

31,31a :                    32,32a :

51,51a :

(short)

(CRT: Cathode Ray Tube),  
, CRT ,

가

CRT , (Liquide Crystal Dispaly: LCD) 가  
가 .

, (TFT - LCD)  
VGA(Video Graphic Array; 640 × 480 )  
SVGA(800 × 600), XVGA(1024 × 768)

TFT - LCD 가 , 가 , 가 , 가 , 가

,  
1  
1 , (2) (1) (1) (2) (1)  
( ) ( ) TFT - LCD (5) 가  
TFT - LCD (5) 2 (open point) 가 (3,4)

1 , 2 가 (3,4) , (3,4)  
, (2) (6) , TFT - LCD (5) (3)  
(2) , 가 가 (3)

TFT - LCD ,  
가 가 , TFT - LCD  
가 .  
, ( ) ) 가 가 ,  
, CVD

가 , 가 ,  
 , , CVD  
 ,  
 2 1  
 2 (repair) (21) , (21) , (21) , (23)  
 (21) (25) (25)  
 , (25) (23) (27,27a) (迂回) ,  
 , " □ " (25) (21) (25)  
 (27) (27)  
 (27,27a) ,  
 (defect) (27) , (27a)  
 (25) , W( ), Mo( ), Ni( ), Cr( ), (Fe)  
 1  
 3a 3d 4a 4d 1  
 , 3a 3d 2 A - A' , 4a 4d B - B'  
 , 3a 3b 4a 4b (20) (21a) (21) ,  
 3a 4a (21) (21a) (22) (21)  
 3b 4b (21) (21a) (22) (24) (23)  
 , (23) / (23a/23b) (24) (23)  
 (23b) (23b) (27c) (26)  
 , 3b " 27"  
 , , 가 ,  
 ,

, 3c 4c , (21) (short) (23) ( )  
 21) , (31,31a) , (21) (23)  
 가 (32,32a) . (27)  
 (cutting) .

, 3d 4d , (32,32a) (23) (25) , 1  
 CVD(Laser Chemical Vapor Deposition)

, (25) (23) (27) (迂回) ,  
 (23) , (25) (31,31a)

, (25) (23) , 2 ,  
 (27,27a)

, 2 3d , (27,27a) (27,27a) (25) (27,27a)  
 2 , , (21) (cutting) , (27)  
 , (21) (27,27a) (defect) .

, (21) (27,27a)  
 (25) , , W( ), Mo( ), Ni( ), Cr( ), Fe( )

, 1 (21) (23) , (23)  
 , CVD (25)

, 2  
 5 2

5 , 2 (25)  
 (27,27a) (迂回) (23) (23)

, (25) (23) (23) (25)  
 (51) , (21) (23) , (23)  
 가 .

6a 6d 7a 7d  
 6a 6d 7a 7d 2  
 , 6a 6d 5 A - A' , 7a 7d B - B'  
 6a 6b 7a 7b , 1

(57)

1.

;

가

가 ,

2.

1 ,

3.

1 ,

4.

;

가

;

가 ,

5.

4 ,

6.

,  
;  
;

CVD

7.

6 ,

8.

6 ,

9.

6 ,

10.

9 , W( ), Mo( ), Ni( ), Cr( ), (Fe)

11.

6 ,

12.

, ;  
;

CVD

13.

12 ,

14.

12 ,

15.

12 ,

16.

15 , W( ), Mo( ), Ni( ), Cr( ), (Fe)

17.

12

18.

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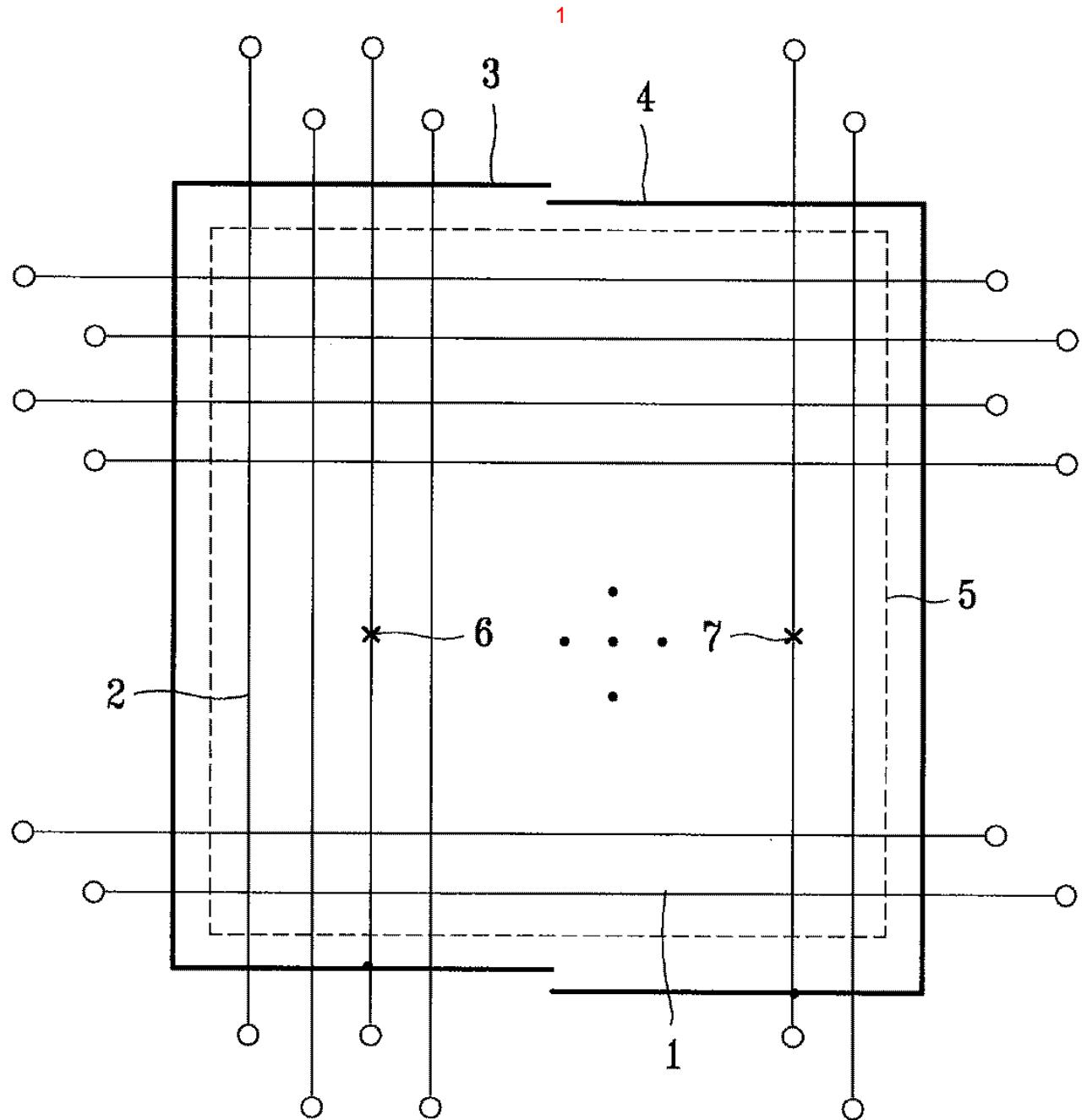
CVD

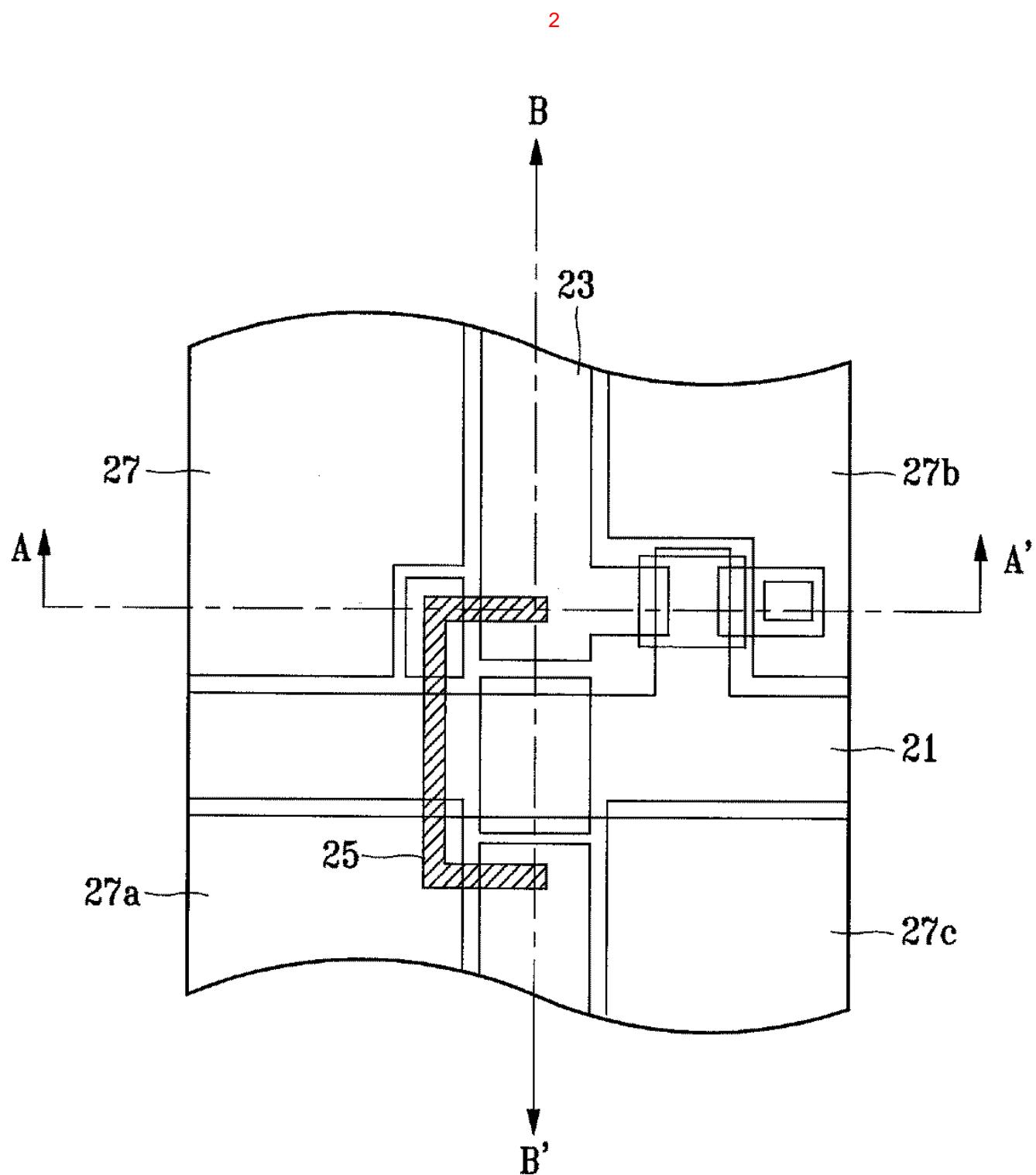
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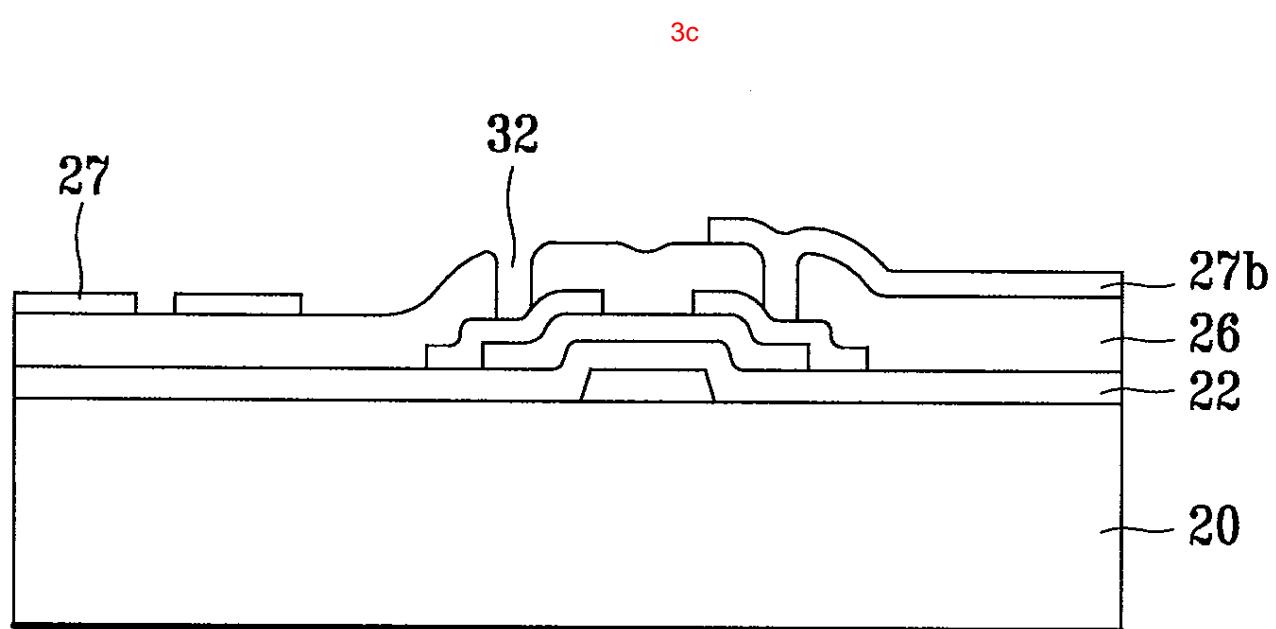
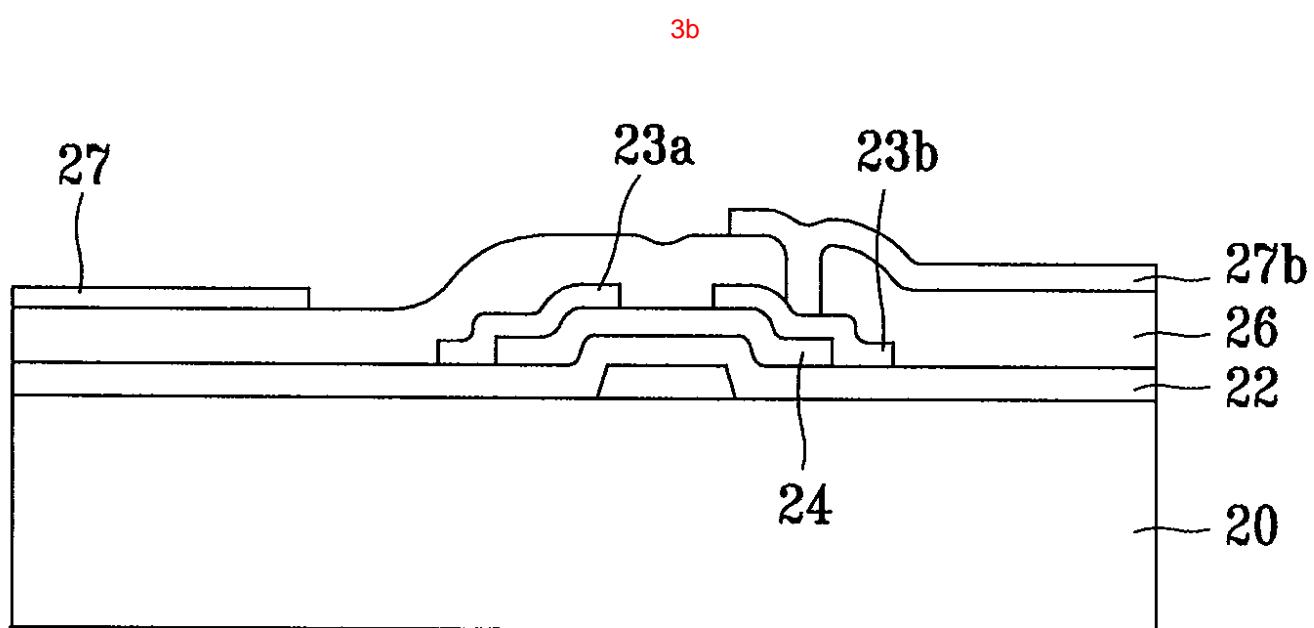
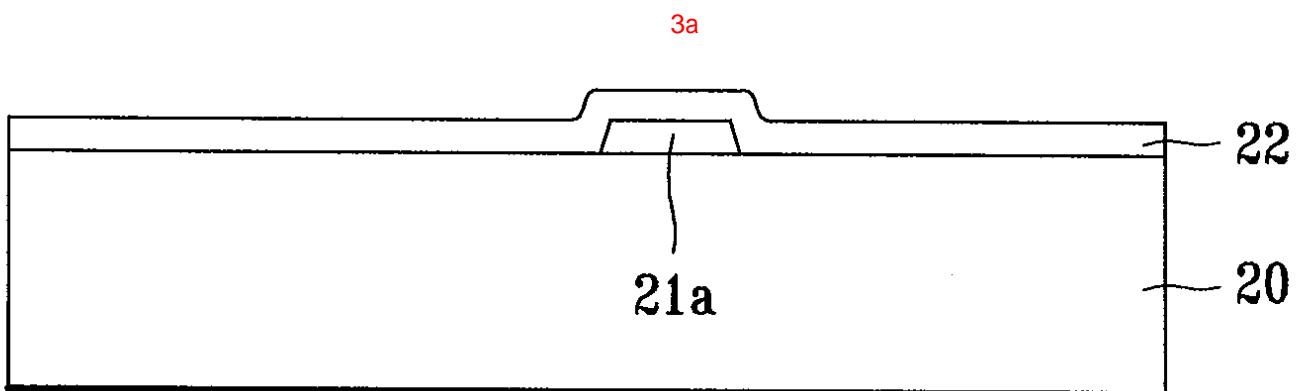
18

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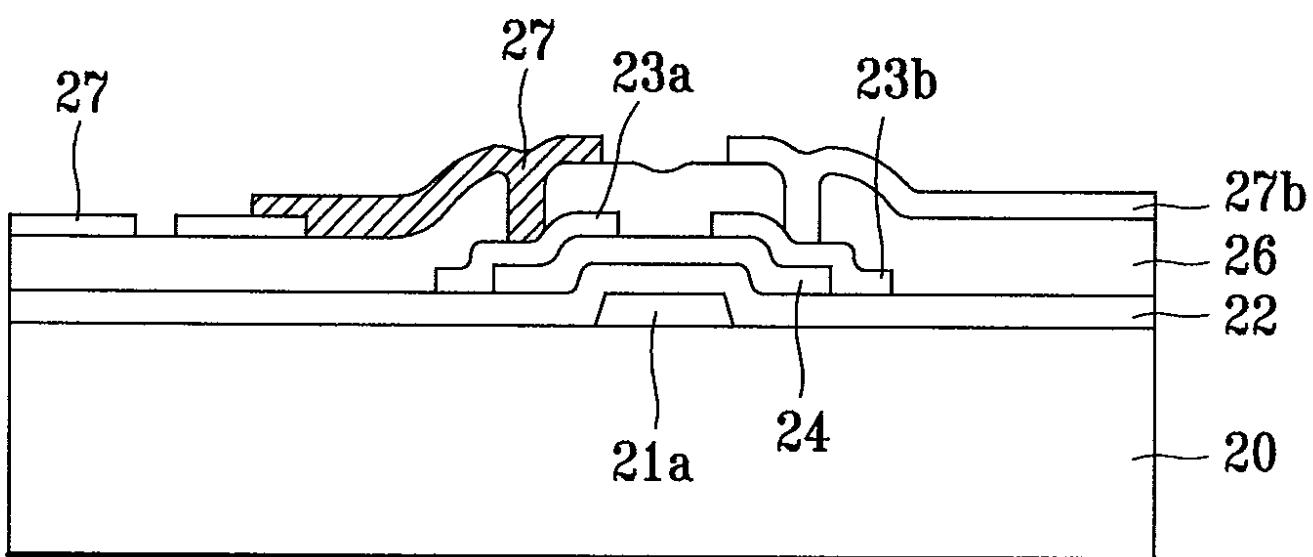
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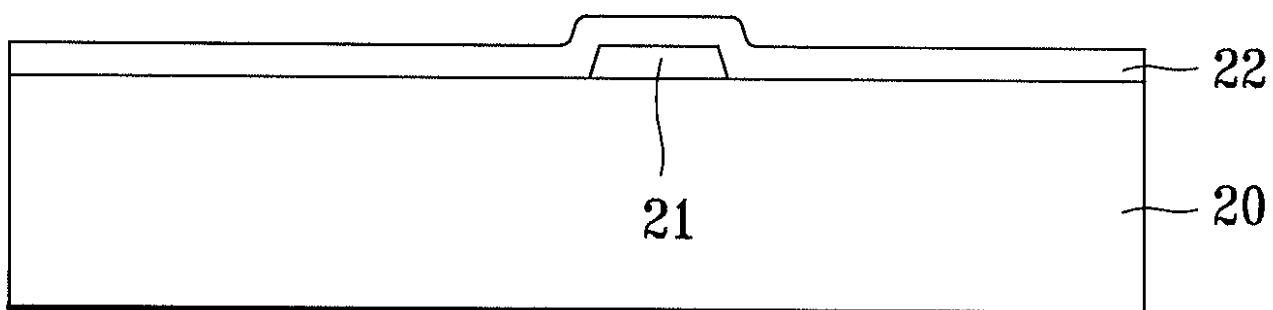




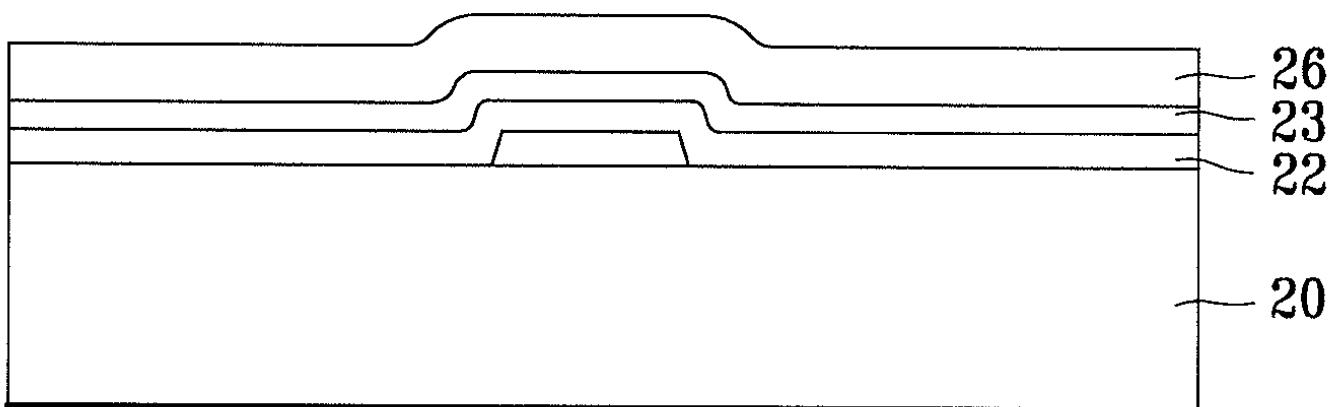
3d



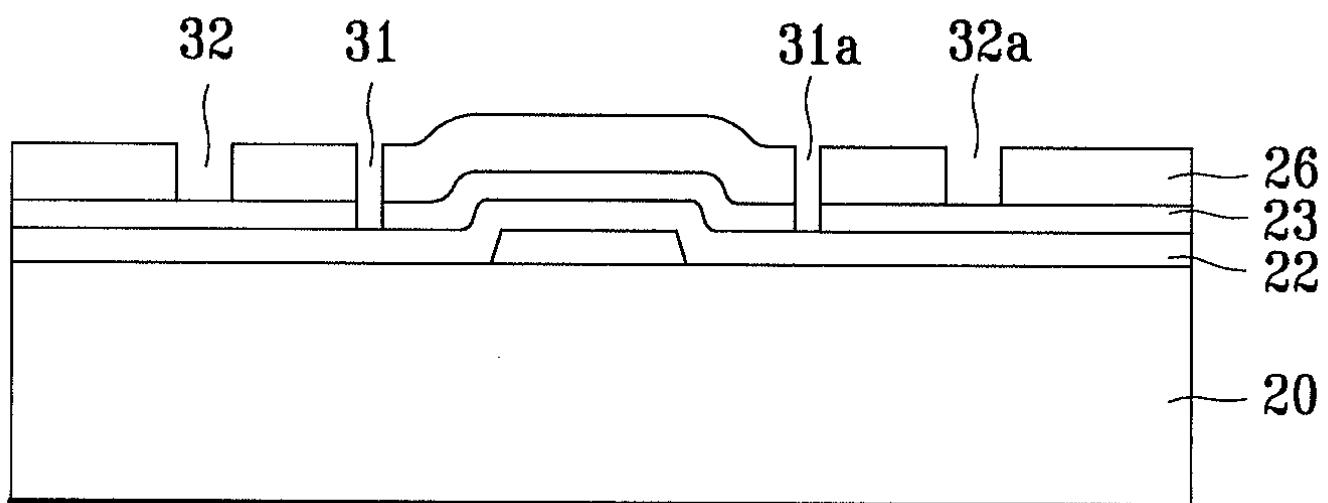
4a



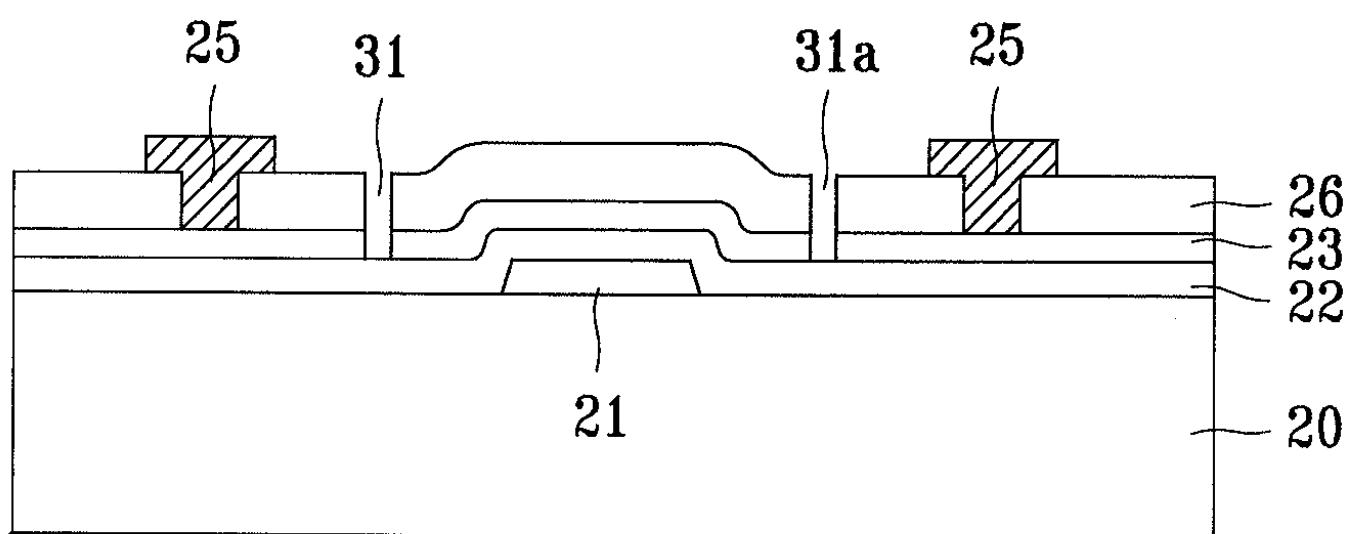
4b

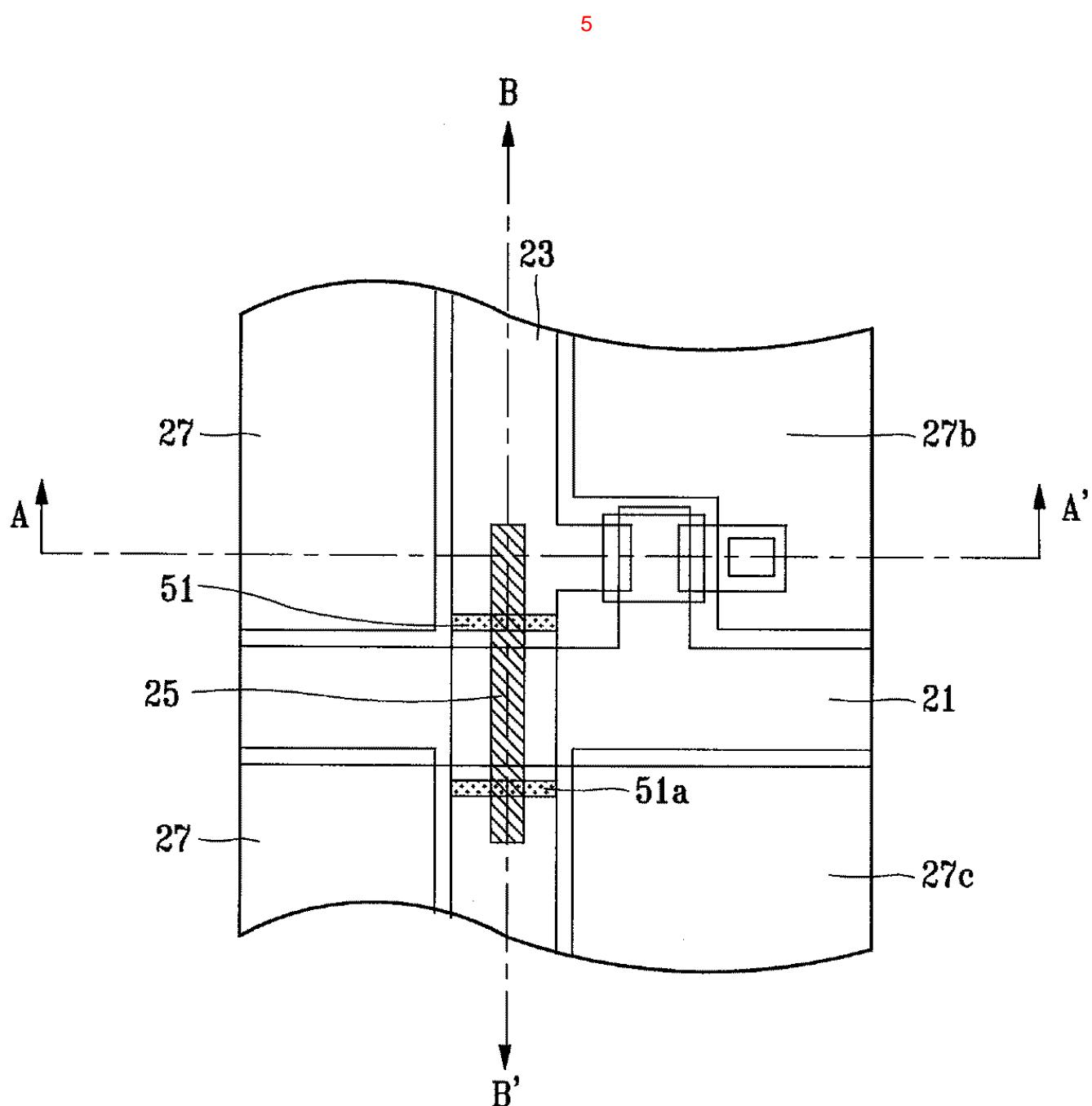


4c

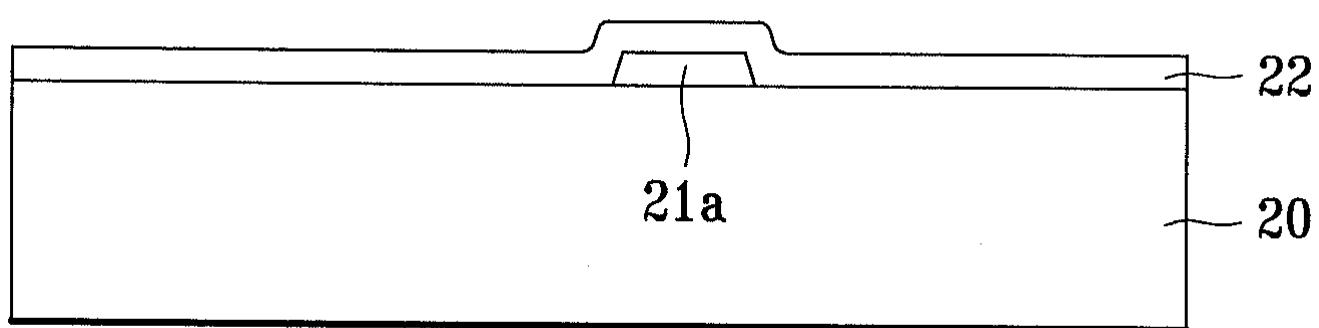


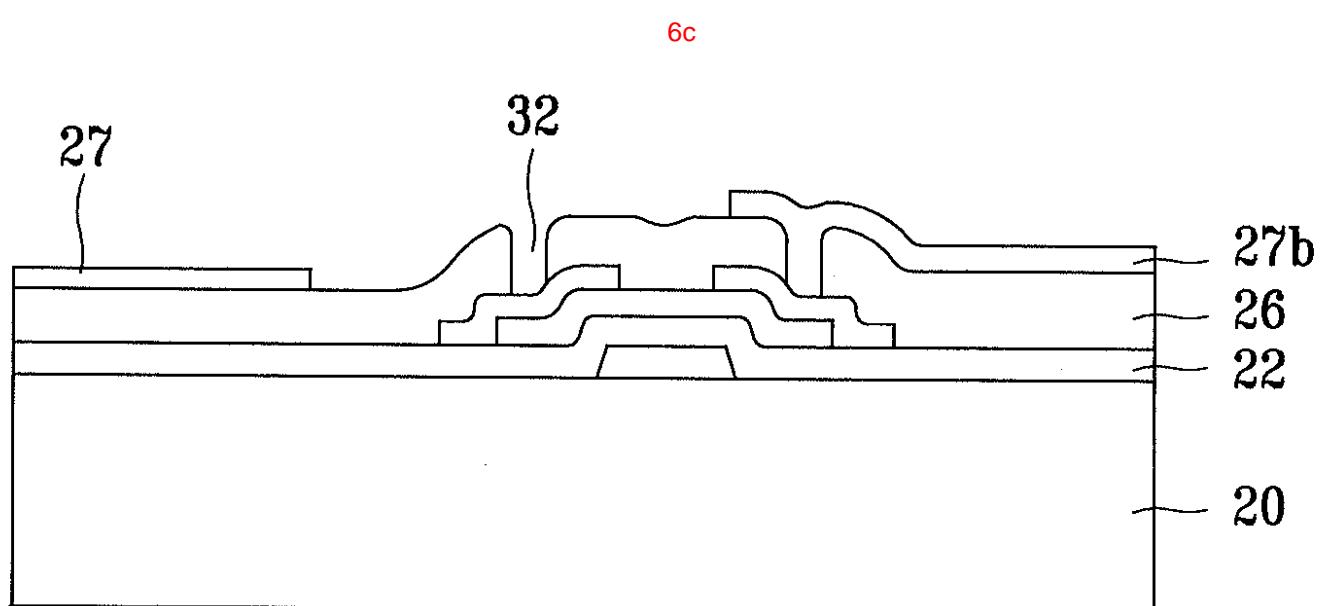
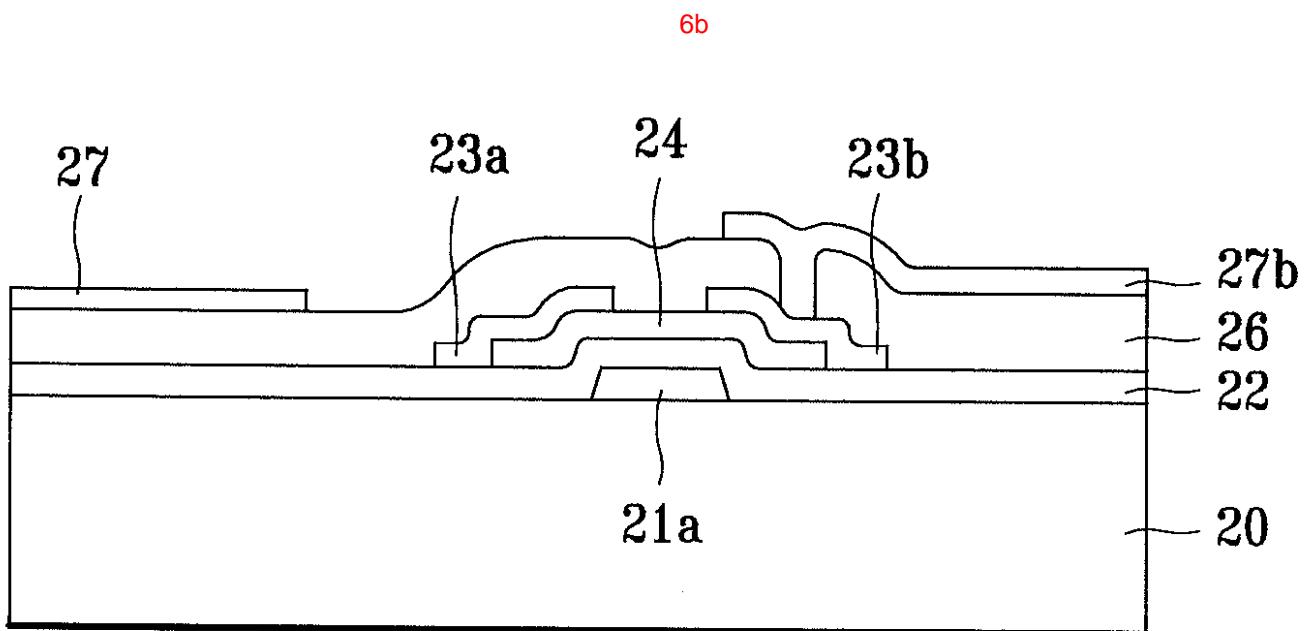
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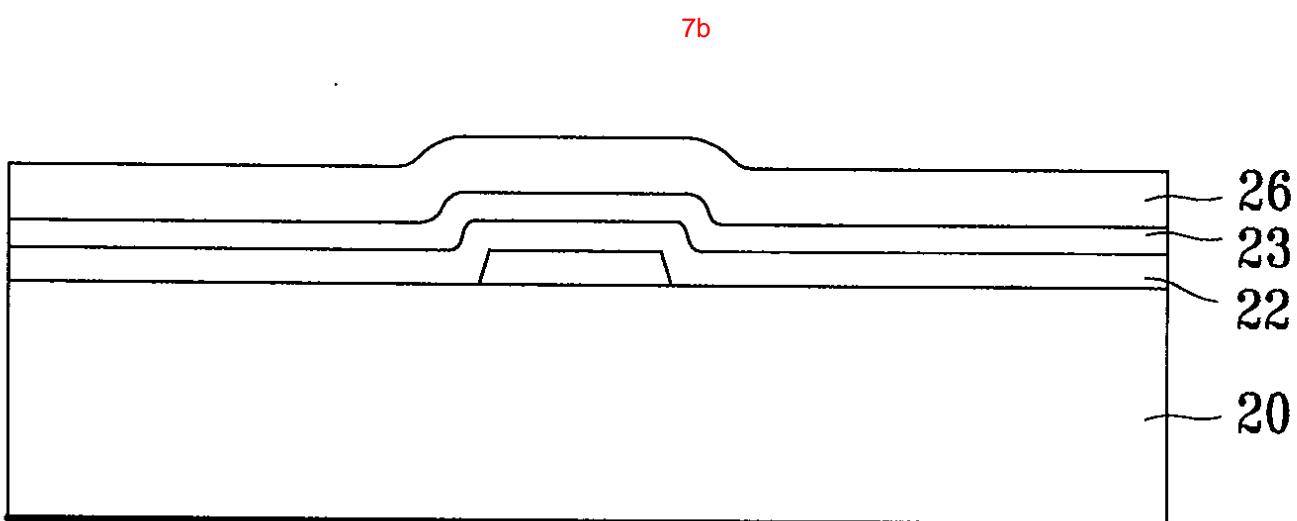
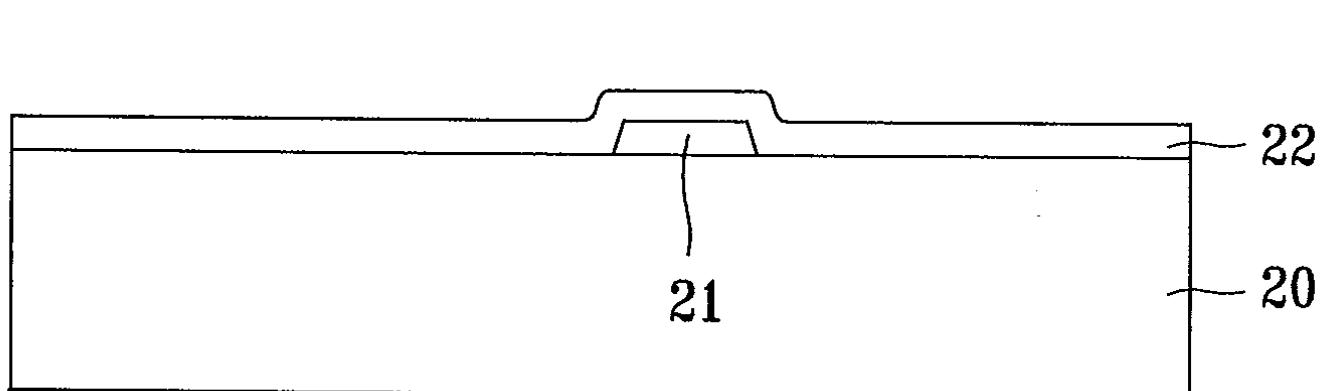
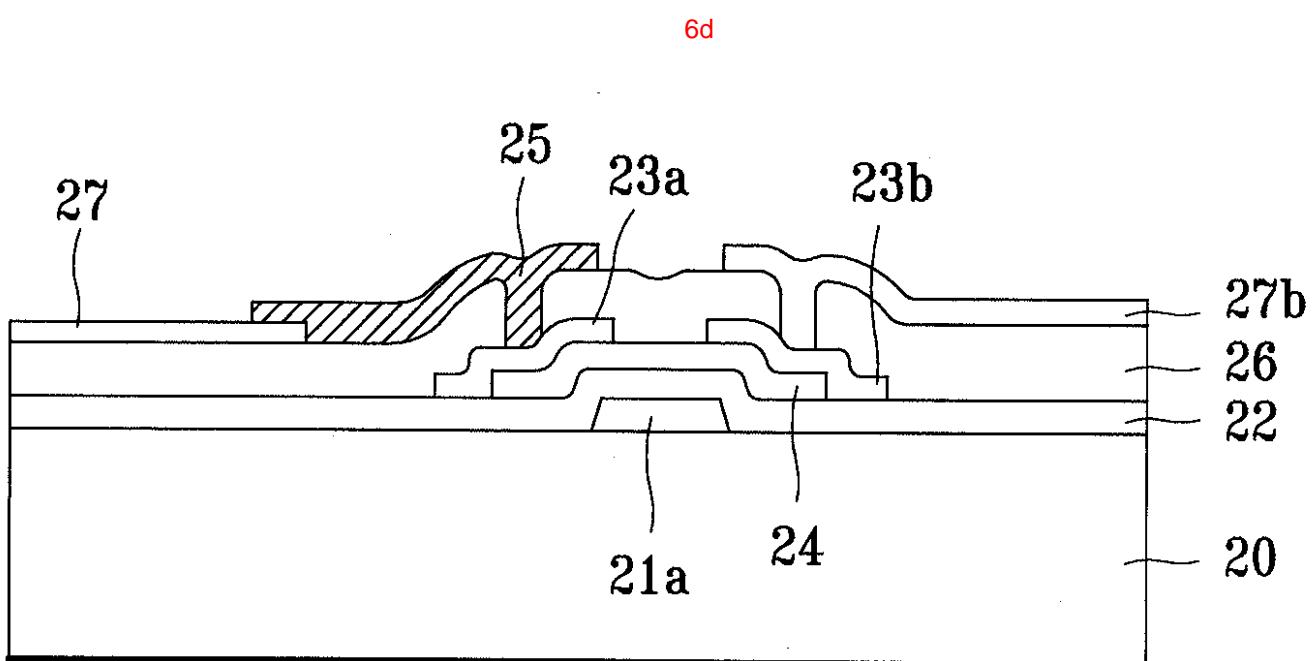




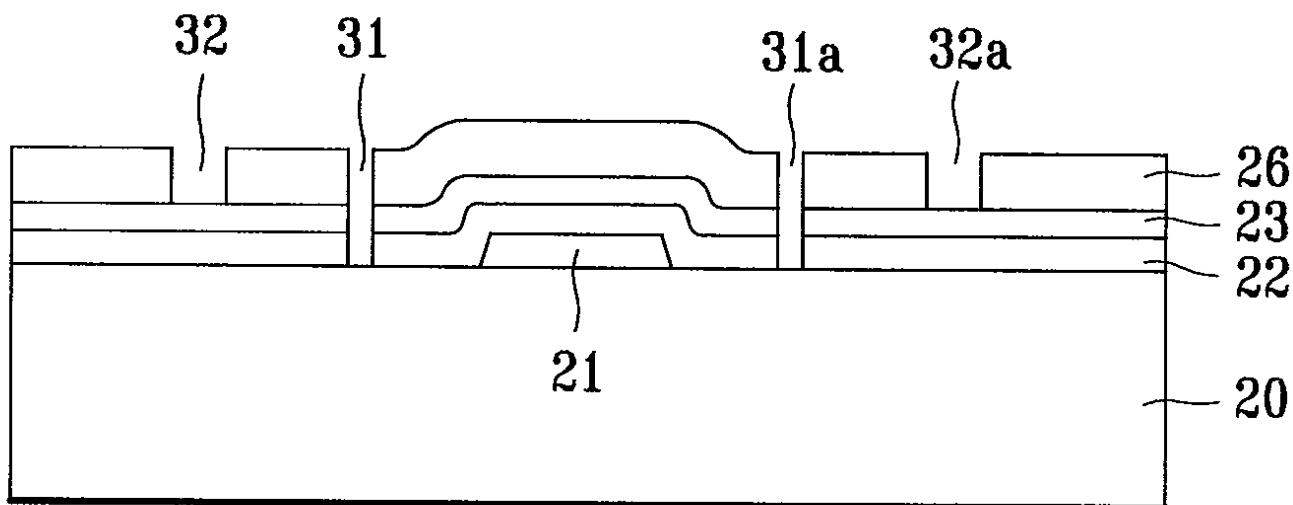
6a



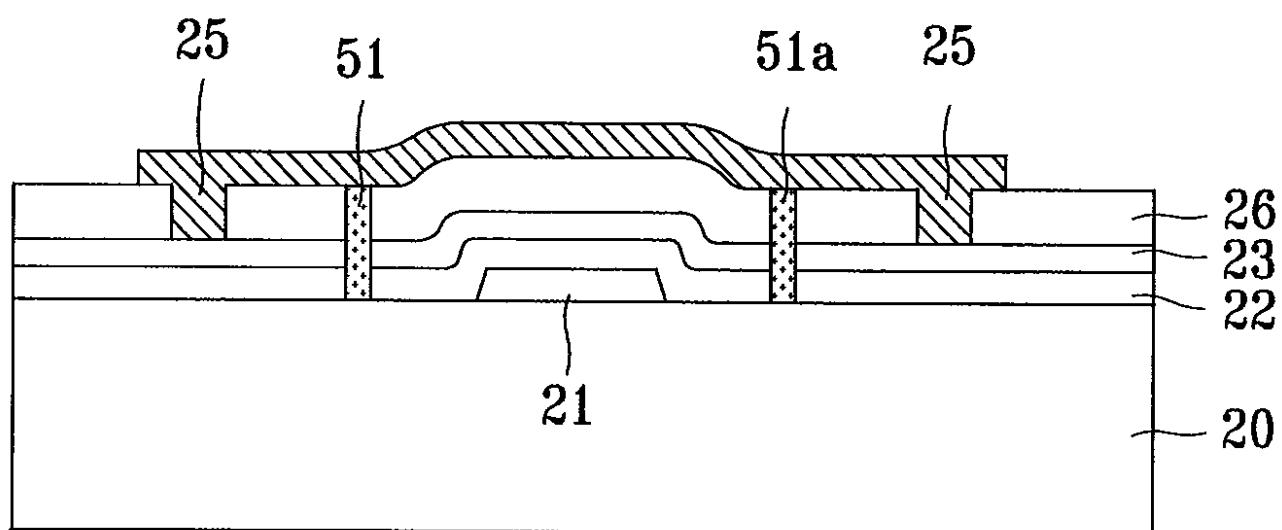


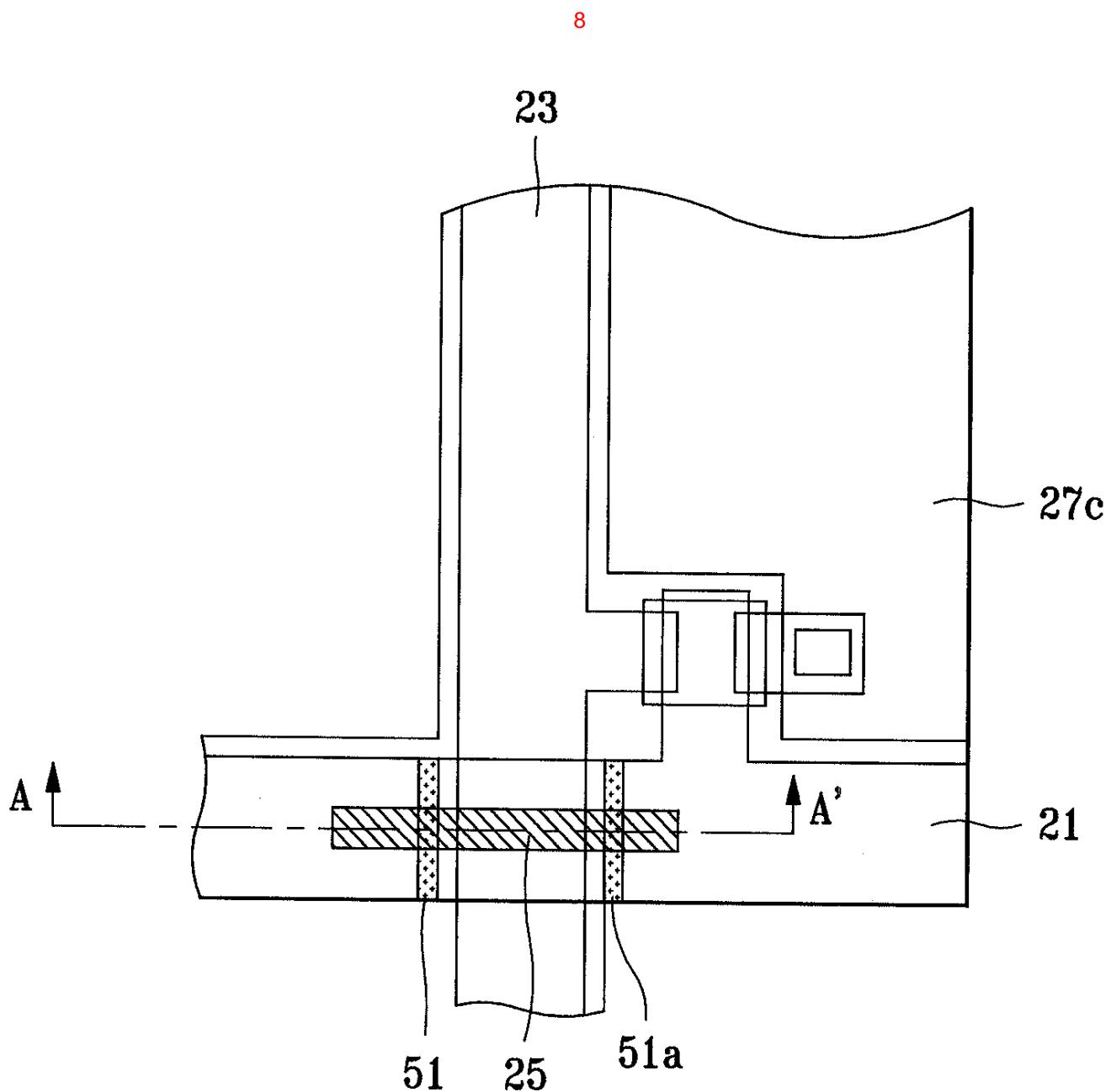


7c

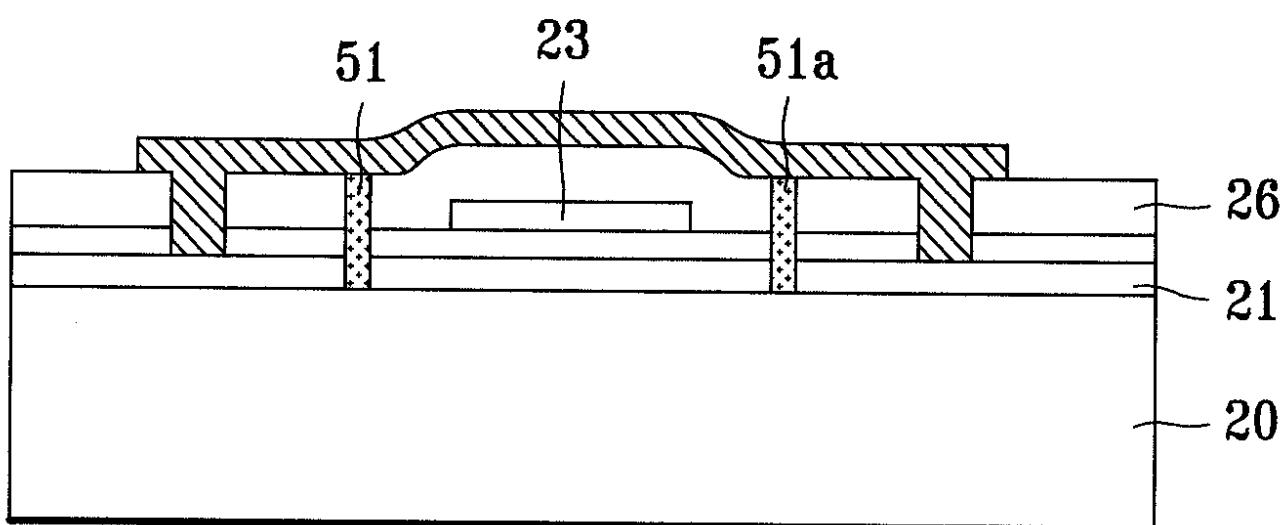


7d





9



专利名称(译)	液晶显示器的维修结构及维修方法		
公开(公告)号	<a href="#">KR1020010100378A</a>	公开(公告)日	2001-11-14
申请号	KR1020000023332	申请日	2000-05-01
[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	CHOI WOOHYUK 최우혁		
发明人	최우혁		
IPC分类号	G02F1/1362 G02F1/13		
CPC分类号	G02F1/1362 G02F2001/136263		
代理人(译)	金勇 新昌		
其他公开文献	KR100382456B1		
外部链接	<a href="#">Espacenet</a>		

### 摘要(译)

本发明中，本发明的一个修复结构涉及一种修复结构以及液晶显示装置的修复方法，其可以通过修复引起的扫描线，并使用激光CVD法数据线的短路的损害提高成品率形成在一个方向上扫描线和扫描线和相交的地方，并越过断开数据线，并且在上述扫描线的交叉区域的区域没有相交，扫描线电连接到彼此的数据线的一部分不相交的扫描线和修复模式。和修理方法根据本发明，根据液晶显示装置的修复方法补偿了短的扫描线和数据线之间发生，切割扫描线和数据线的短路的扫描线的任一侧上的步骤并且，通过利用扫描线和两侧工艺，激光CVD方法，其中，所述曝光的各数据线包括：形成电连接到暴露的数据线的修复图案的步骤。  
2 指数方面 扫描线，数据线，修复模式

