

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷ G02F 1/133		(11) (43)	2003-0057043 2003 07 04	
(21)	10-2001-0087415			
(22)	2001 12 28			
(71)	.	20		
(72)		2001 112 103		
		511-3		
(74)	:			
(54)				

, 1, 2

6

1					
2a	2e	1	II - II		
3a	3e	1	III - III		
4a	4e	1	IV - IV		
5					
6					

7

8

201: 213:

215: 223:

233: 225:

245,246: 1, 2 255,256: 1, 2

(Thin Film Transistor : TFT)

(Active Matrix Liquid Crystal Display,

)

가 가 ,

가 ,

가, 가, 가

가

가

가

가

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가

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가

$$),$$
$$\left(\frac{1}{2}, \frac{1}{2} \right).$$

가

((cell gap))

1, 1 ||-||

3a 2a 2e , 1 III-III
 3e , 1 IV-IV

1, 2a, 3a 4a , (1) , (11), (13), (15), (25), (45) (11) (13) (15) (13) (25) (25) (15) (25) (Hillock) (19) (11), (13), (15), (25) (45) , (15) (25) (15) (25) (15) (25) 2a (1) (19) (11) (15) (45) (13) (45) (1) 3a (1) (19) (15)가 (19) (45) (25) (45) (1) 4a (19) (1) (25)가 2b, 3b 4b , (11), (13), (15), (25) (45) (1) (17) 2b 가 (17) (35) (37) 3b 4b (15) (25) (17) 1 (51) 1 (61) 1 (51) (25) (15)) 2c, 3c 4c , (35) (37) (1) (21), (31), (23), (55) , (65) 2c (21) (31) (11) (37) (21) (31) (15)가 3c (55) (1) 7) 1 (51) (15) (25)가 4c (65) (17) 1 (61) (25) 2d, 3d 4d , (21), (23), (31), (55) (65) (1) (41) 가 2d (41) 가 (31) (71)

, (15)가 (55) 3d 2 (41) 가 (53) .
 , (25)가 (65) 4d 2 (41) 가 (63) .
 (41) clobutene), SOG(spin on glass) Acryl , BCB(benzocy
 , (45) (1 A) 가 (15) (25)
 . (45) (25) (,
). (45) (15) (,
).
 2e, 3e 4e , (41) ITO(Indium Tin Oxide)
 , 가 2e (33) (71)
 (31) .
 , (15)가 (55) 3e (57)가 2
 (53) .
 , (25)가 (65) 4e (67)가 2 (63)
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 , - 가 , 가 - . ,
 가 ,
 가 .
 가 가 - ,
 가 .
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 , 가 (scanning) ,
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 , 가 가
 , 가 , 가

2

(10-024449 10-0271038).

10-0244449 10-0271038

5

$$\begin{array}{ccccccc}
 & & (101) & & (113) & & \\
 (123) & , & & , & (113) & & (123) \\
 & & (113) & & (123) & & \\
 (TFT) & & (TFT) & & (&) & (133)
 \end{array}$$
$$\begin{array}{ccccccc} (113) & & (115) & & (113) & & \\ (115) & 1, & 2 & & (145,146) & . & (113) & , & (145) \\ & (115) & , & 2 & (146) & & (115) & & \end{array}$$
$$\begin{array}{ccccc} (123) & & (125) & & (123) \\ (125) & 1, 2 & (155,156) & . & 1 & (155) \\ (125) & , 2 & (156) & & (125) & . \end{array}$$

$$\begin{aligned} & \text{1} \quad (145) \quad \text{2} \quad (146) \quad - \quad \text{가} \quad , \\ & \text{(115)} \quad \text{(113)} \quad \text{(TFT)} \quad \text{(TFT)} \quad \text{(155,156)} \\ & \text{가} \quad , \quad \text{가} \quad , \quad \text{1, 2} \quad (123) \\ & \text{(TFT)} \quad , \quad \text{가} \quad . \end{aligned}$$

$$\begin{aligned} & \text{(TFT)} \quad \text{가} \quad - \quad \text{(TFT)} \\ & \quad \text{가} \quad . \quad (133) \quad , \quad \text{(133)} \quad \text{가} \quad . \\ & - \quad \text{(TFT)} \quad \text{(133)} \end{aligned}$$

5) 1, 2 (155,156) 가 가 , 1
10V 가 , 2 (156) 5V 가 .

5) 가 (155) (125) , 2 (156) (123) 10V (125) (133) (125) (123) 5V 2 (156) 가 ()

133)

$$\begin{aligned} & \text{ , } \quad (123) \quad (123) \quad . \quad (123) \end{aligned}$$

1, 2

2

가 가 .

가 가

;

1, 2

6

6, (201) (213) (213) (223) (223) (TFT) (233) (TFT) (213) (223) (213) (233) (213) (215) (245,246) (213) (245) (215) (215) 1, 2 (246) (215) (223) (225) (223) (255,256) (223) (255,2 (225) (225) 1, 2 (255) (256) (225) (245) 2 (246) 가 (TFT) (213) (TFT)가 1, 2 (255,256) (225) 가 (223) (TFT) (TFT)가 (233) (TFT) (233)가 (255) 1, 2 (255,256)가 (256) 5V 가 1 (225) (255) 2 (256) (223) 10V 가 (233) (225) (233) (223) 5V 가 (233)

(223) 1 (255) (225)
10V 가 (233) 10V 가 ,
(225)
(233) .
가 , 2 (256) (225)
(223) 5V 가 (233) 5V 가 ,
(225)
(233) .
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 ,
 ,
 1, 2 가 , 1, 2
 , 7 .
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 , 1, 2
 , 8 1, 2
 ,
가, , 가 1, 2
 , 1, 2
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 , 1, 2
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 , 가

(57)

1.

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1, 2

2.

1 , 1, 2
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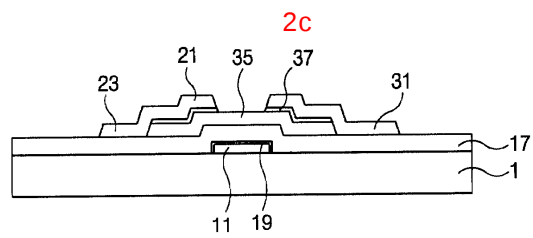
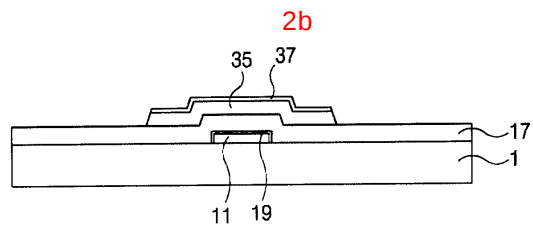
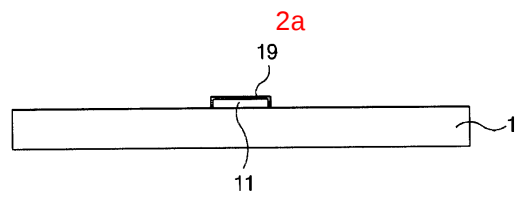
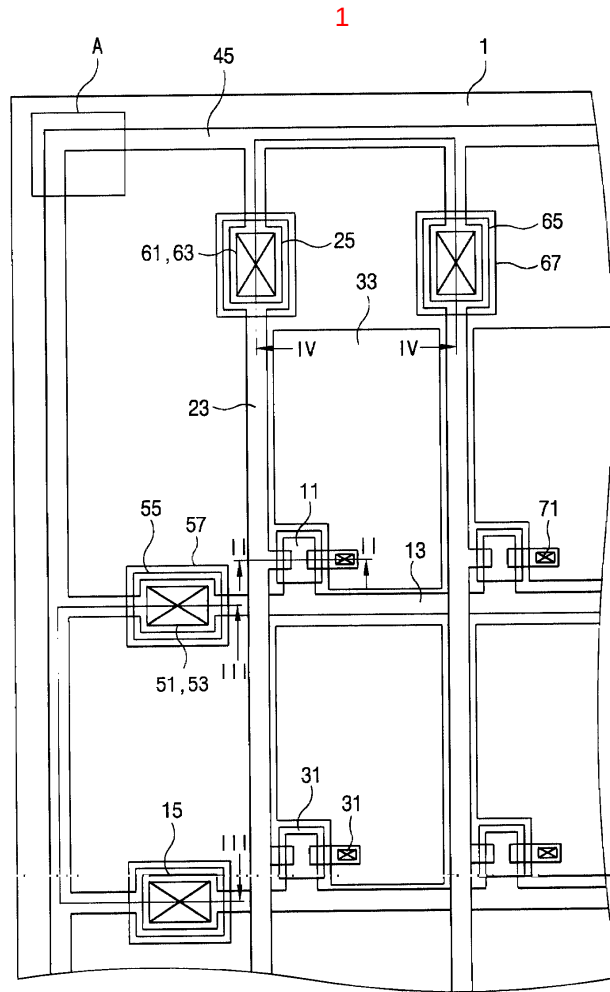
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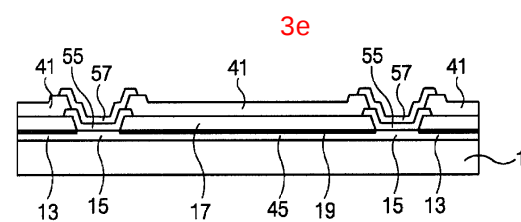
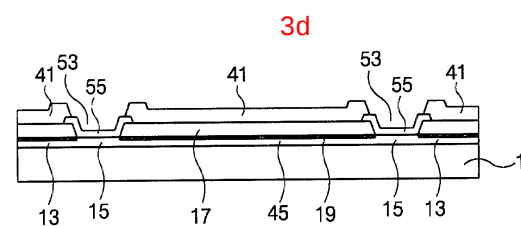
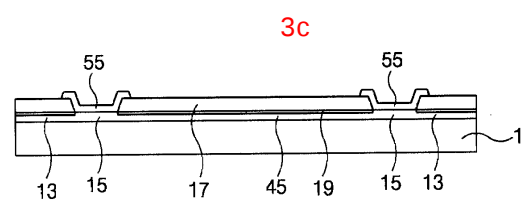
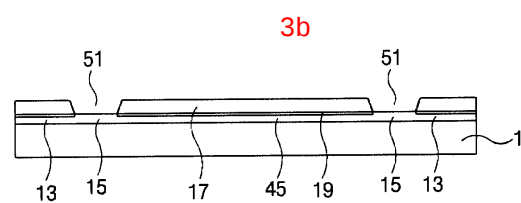
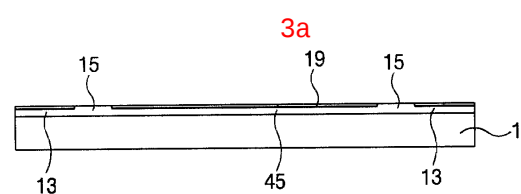
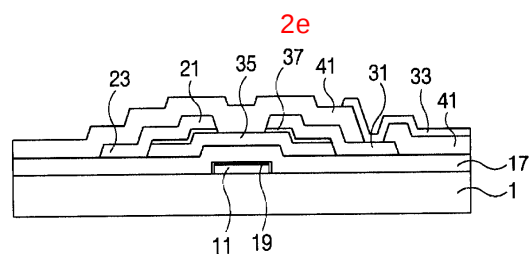
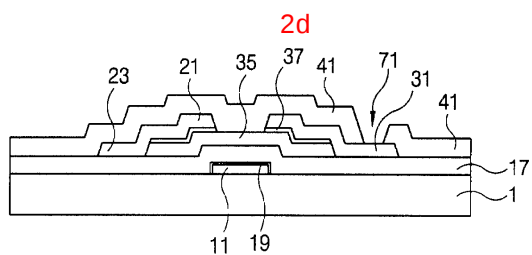
1 , 1, 2
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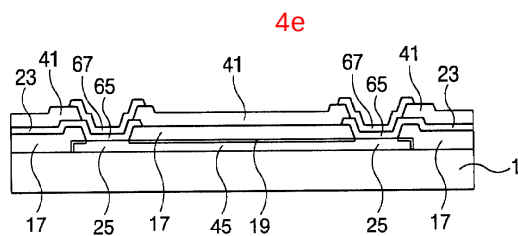
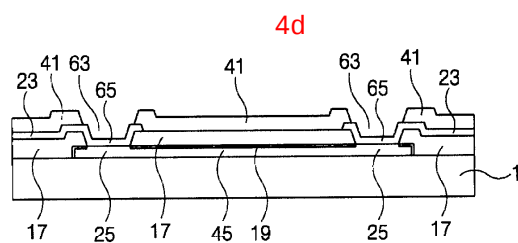
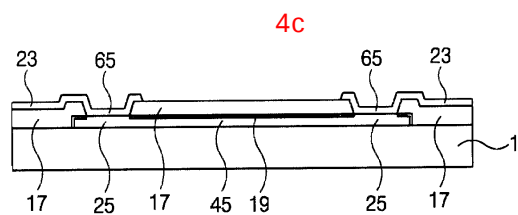
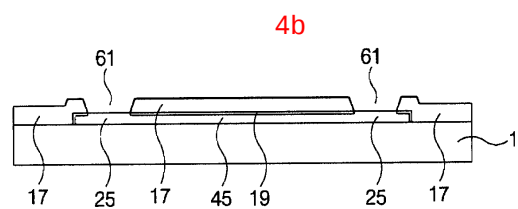
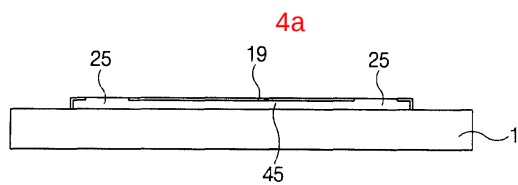
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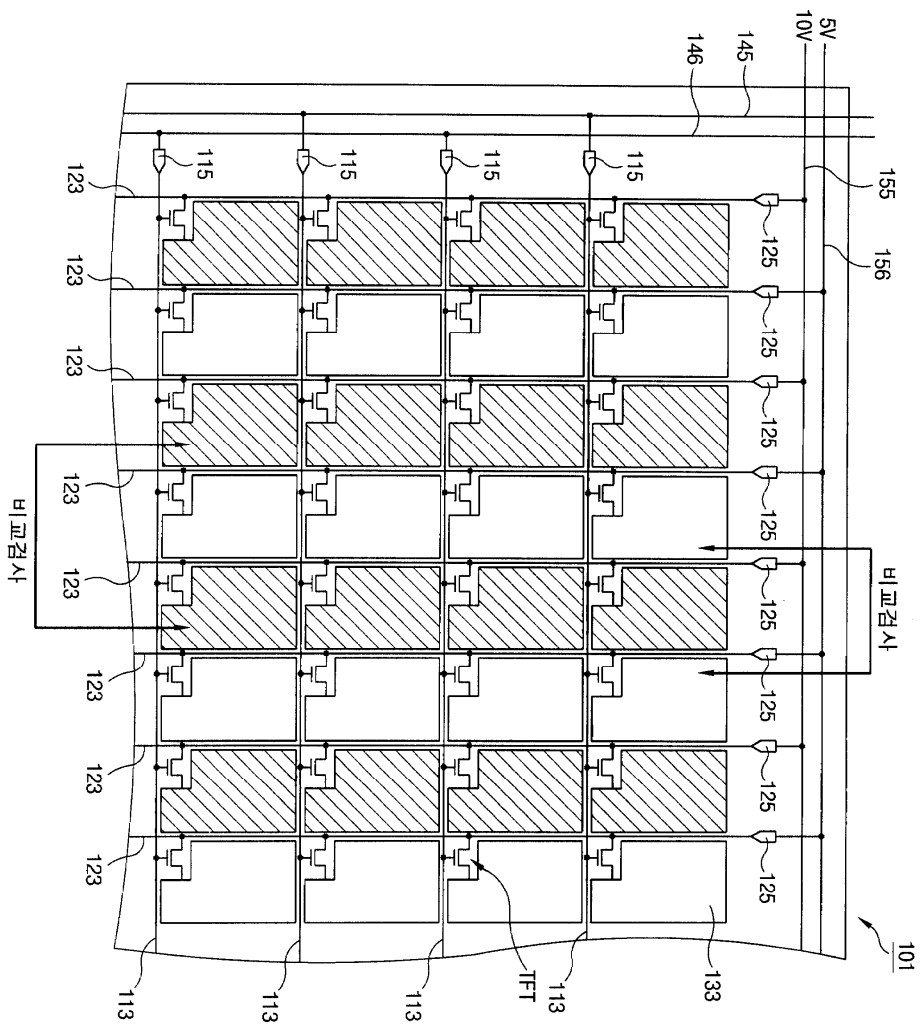
1 , ;
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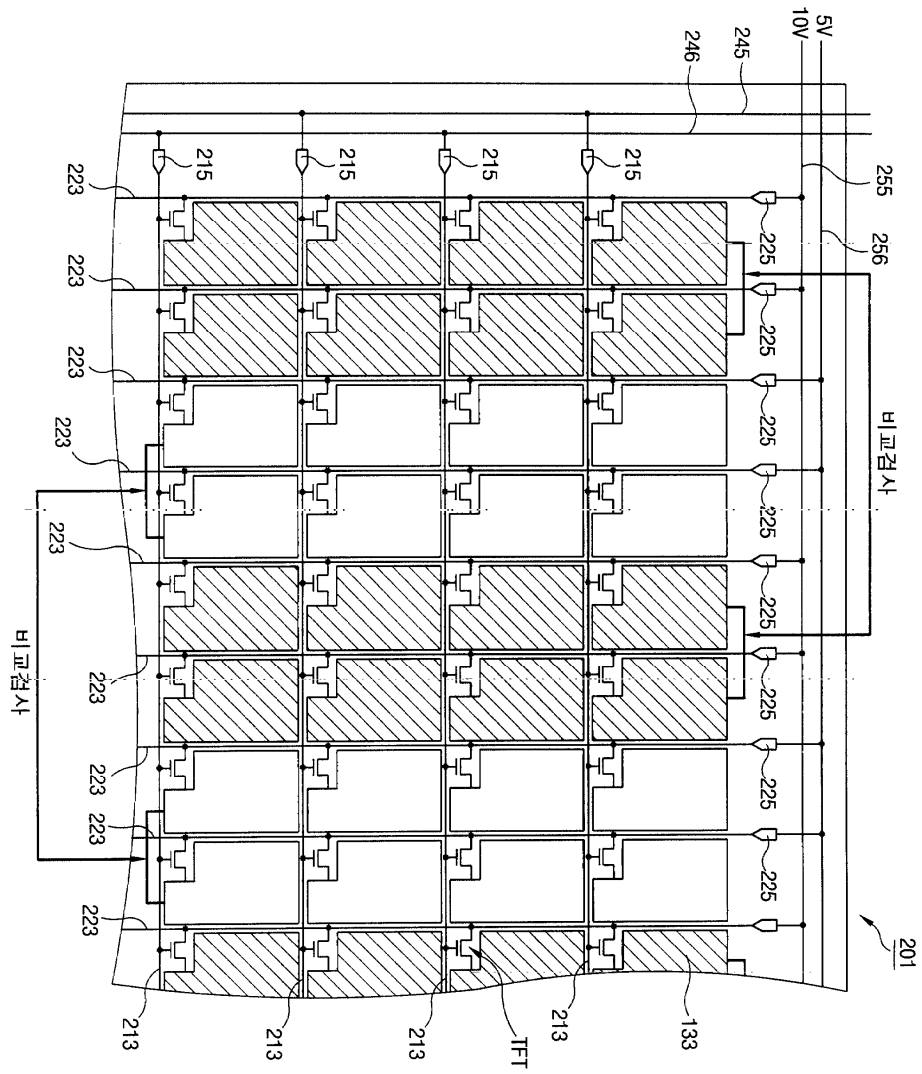
5.
4 , . ,
6.
1 , 2 . 1 ,
7.
1 , 1, 2
8.
; ;
; ;
; 1, 2
9.
8 , 1 , 2
10.
8 , 1, 2 .



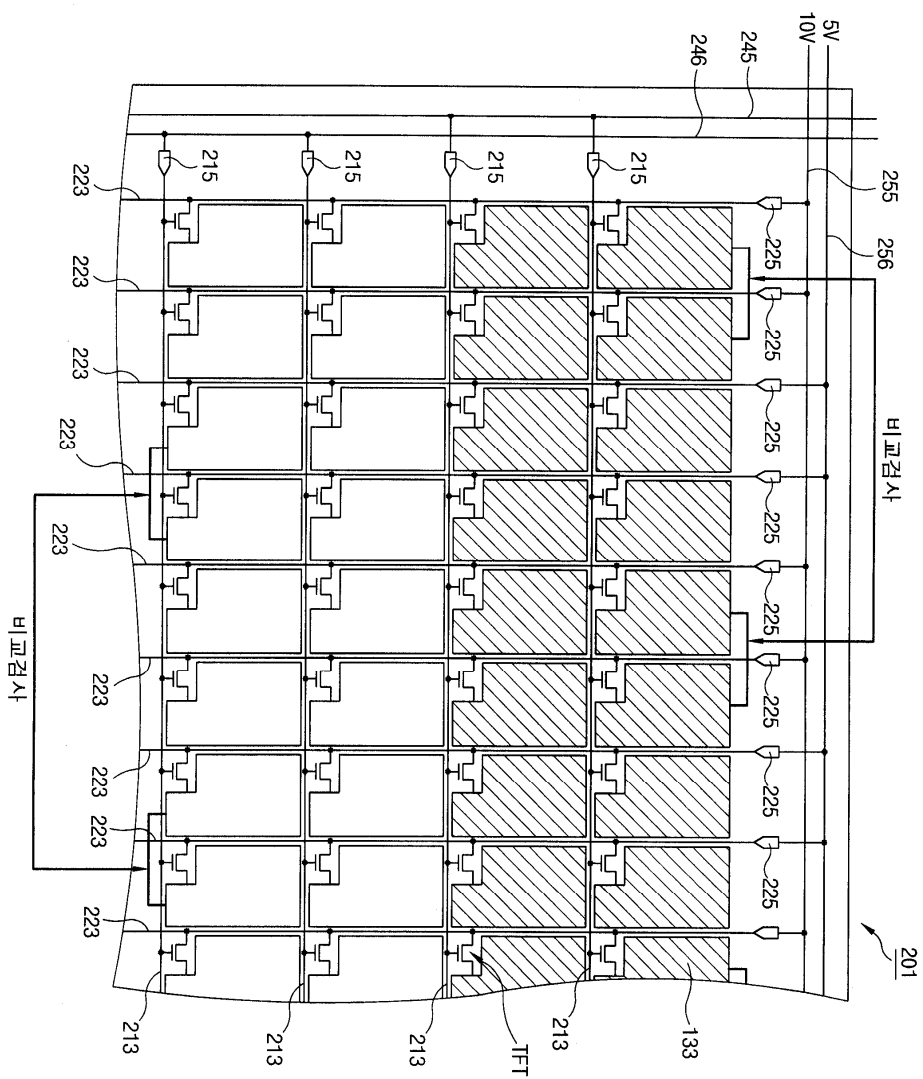


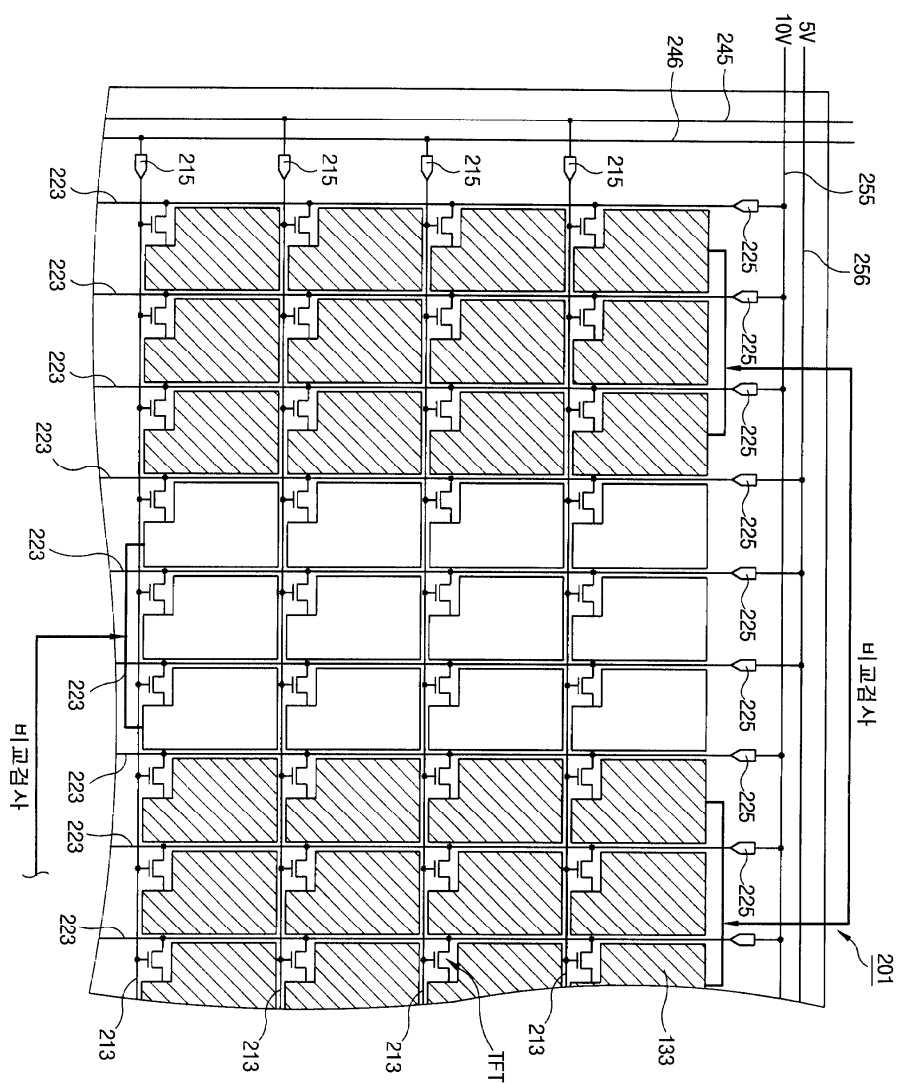






7





专利名称(译)	具有用于薄膜晶体管检查的短路布线的液晶显示装置		
公开(公告)号	KR1020030057043A	公开(公告)日	2003-07-04
申请号	KR1020010087415	申请日	2001-12-28
[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 SEUNGKYU 최승규 KIM HYUNTAE 김현태		
发明人	최승규 김현태		
IPC分类号	G02F1/1362 G02F1/13 G02F1/133		
CPC分类号	G02F1/1309 G02F2001/136254		
代理人(译)	PARK , JANG WON		
其他公开文献	KR100841613B1		
外部链接	Espacenet		

摘要(译)

目的：提供一种用于测试TFT（薄膜晶体管）的短线LCD（液晶显示器），用于测试高清显示器的有源面板并提高生产率。组成：门线（213）和源线（223）垂直相交在基板（201）上。与TFT的漏电极连接的像素电极放置在单元液晶单元中。TFT的源极与源极线连接。栅电极与栅极线连接。第一和第二栅极短线（245,246）与栅极线的一端的栅极焊盘（215）连接。源极焊盘（225）形成在源极线的一端上。第一和第二源极短线（255,256）与源极焊盘连接。源极短线交替连接两个源极焊盘。两个像素电极被识别为一个。

