

(19) (KR)  
(12) (B1)

(21) 10-2001-0041251 (65) 2003-0005797  
(22) 2001 07 10 (43) 2003 01 23

(73) . 20

(72) 2 112 403

1 206-18

(74)

(54)

5

1a                  1e  
2a                  2d

3a      3d  
4  
5  
6    5      , ESD  
7    5      , ESD

\*  
G1~G768:      VGL:  
VCOM:      D1~D3072:

,  
가

,  
가

,  
1a      1e  
(2)      (1)      ( 1a) ;      ,      ,  
               ( 1b) ;      ,      (4)      ,      (2)  
               ( 1c) ;      ,      (8)      ,      (5)      (6)  
               ( 1d) ;      ,      (3)      ITO      ,      (8)  
,      (4)가      ,      (1)      (2)      (3)      (4)  
,      1a  
,      (1)      (1)      (2)  
,      1b      ,      (3)      (4)  
,      1c  
,      (4)      (3)      (4)  
(3)      ,      1d  
,      (7)      (5)      (6)  
,      1e  
(1),      (7)      (3),      (7)  
,      (2)      (6)      (7)  
,      (G)      (5)      (D)  
,      (D)      (G)  
,      가  
(21)  
(22)      ( 2a) ;      (22)  
(23)      ( 2b) ;      (23)      (21)  
(24)

	( 2c) ;		(25)	( 2d)
,	2a	(5)	(21)	,
,	2b	(22)	(22)	,
,	(23)	(23)	(8)	(23)
,	2c		(23)	(24)
,	2d	(25)	(24)	(8)
,	(25)	가 ,	가	(Vcom) 가 ,
,		가		가
3a	3d	(30)	(25)	(31)
,		(31)	,	,
(33)		(34)	,	(31) ( 3a) ;
,		(35)	,	(30) (33) (33)
,		(32)	,	(31,34) (30)
,	3a		(30)	(31)
,			(25)	(31)
,			(31)	(31)
,		(31)	(32)	
				(SEAL DISPENSE)
(32)		, 가	(32)	,
,	(32)		(30)	(33)
,	(32)			(32)
,	3b		(33)	(7) (8)
,		(34)		(34)
,		(35)		(35) (33)
,		(34)		
,		(35)		
,		(35)	가	,
,		(35)		(35) 가
,	3c		(30)	(31,34)
(30)	(33)	가 가	(33)	
,			(30)	,
,			(33)	(32)
,	3d		(30)	
,		(33)	(32) 가	(36)
,		(36)	,	
3				
,		(2)	가 ,	(33) ESD(GLESD1~GLESD768) 가
		(G1~G768) ;		(G)
1~G768)	(VGL)	ESD(GESD1~GESD768)	(G1~G768)	
	(30)	가 ,	(G1~G768)	
	(VCOM)	;	(VGL)	ESD(CESD)
)	ESD(DESD1~DESD3072)		가 가 ,	(VCOM)
M)	(VGL)		(D1~D3072) ;	(VCO
	ESD(ESD1) ;	ESD(CESD)	ESD(DESD3072)	
)		(VCOM)	ESD(DESD1)	ESD(ESD2)

, (G1~G768) , 1 (G1~  
 G768) ESD(GESD1~GESD768) (VGL) ,  
 (G1~G768) ESD(GLESD1~GLESD768) (VCOM) (33)  
 (VGL) ESD(CESD) (33) .  
 , ESD(ESD1) , (D1~D3072)  
 DESD3071) . (D1~D3072) ESD(DESD1~  
 . (D1~D3072)

, ESD(ESD1) 가 , ESD(CESD) , (30) ESD(ESD1) (VGL)  
(VCOM) (VCOM) 가  
가

D , 가 ESD , ES  
D , 가 가

, (G1~G768) 1 (G1~  
 G768) ESD(GESD1~GESD768) (VGL),  
 (G1~G768) ESD(GLESD1~GLESD768)  
 , (G1) 가 (VGL) 1 (G1) ESD(GESD1)  
 , (G1) (VGL) 1 ESD(GLESD1)  
 , (G2~G768)

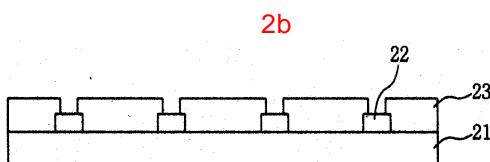
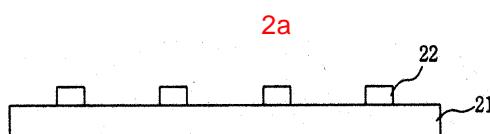
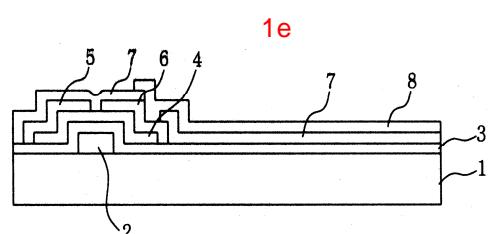
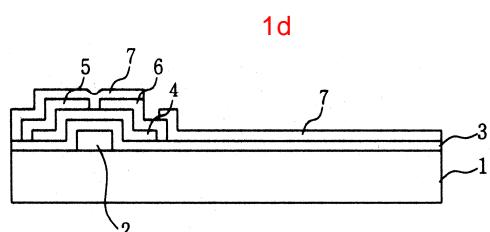
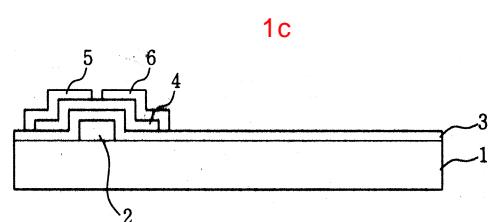
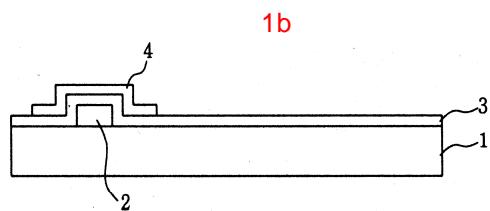
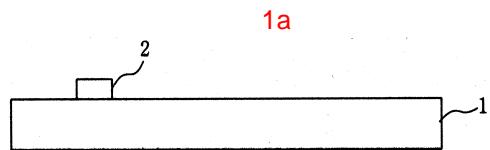
, (G1) (VGL) (30) ESD(CESD) (VCOM) (33)

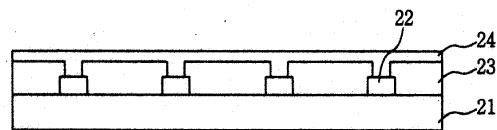
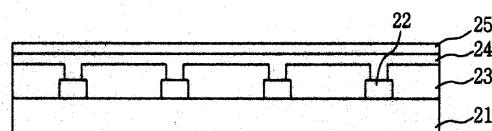
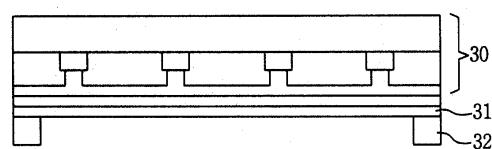
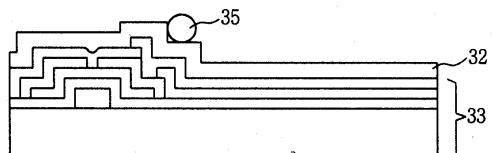
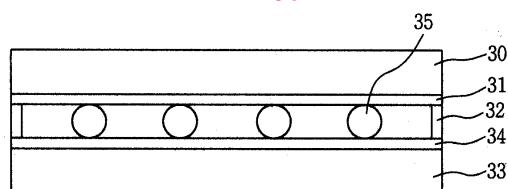
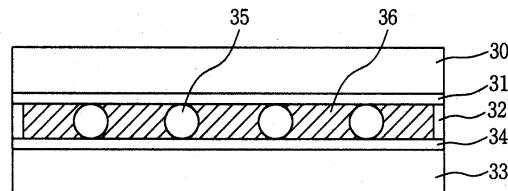
2.  
1 , 1 5 , 가

3. 가, 가, ; 가, ;

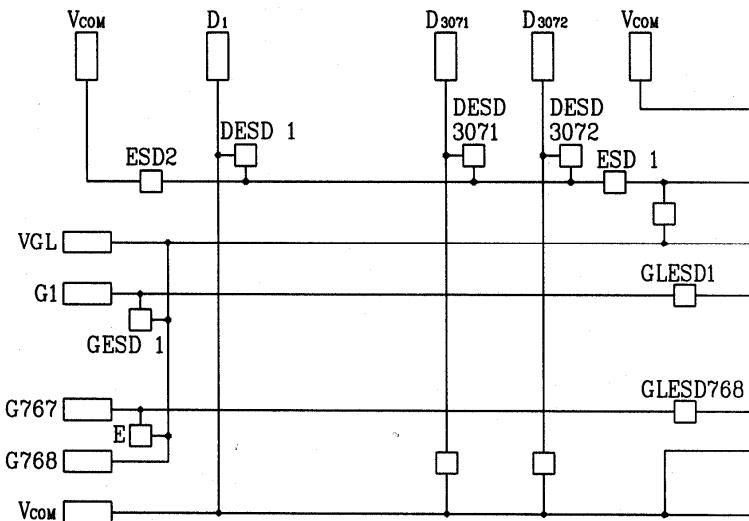
4.

1      2      ,      1      5  
 1      2

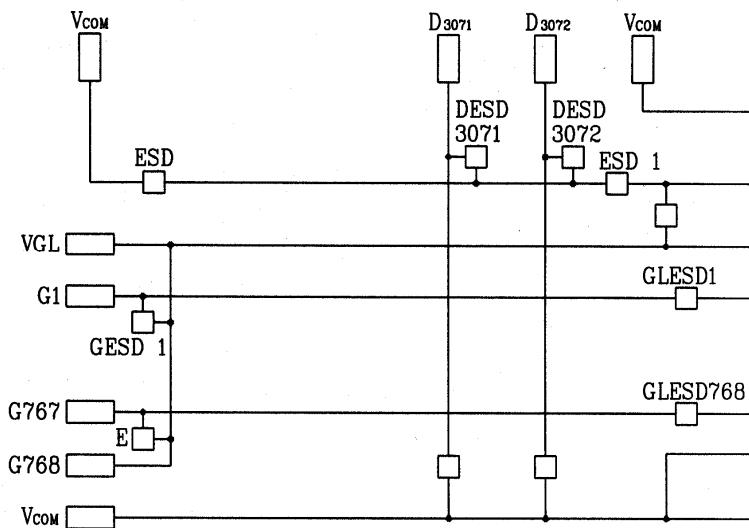


**2c****2d****3a****3b****3c****3d**

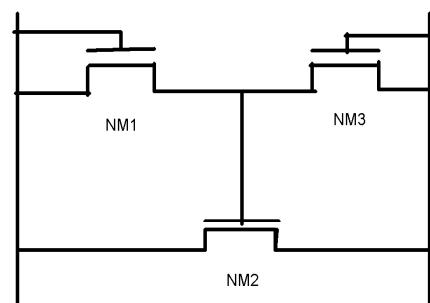
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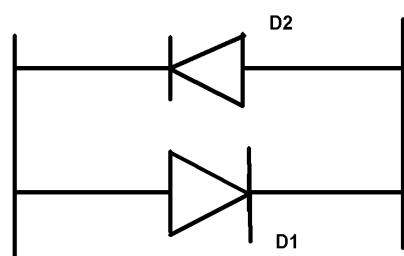
5



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专利名称(译)	薄膜晶体管显示装置的静电放电防止电路		
公开(公告)号	<a href="#">KR100386849B1</a>	公开(公告)日	2003-06-09
申请号	KR1020010041251	申请日	2001-07-10
[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	LEE HYUNKYU 이현규 KIM YOUNGGOO 김영구		
发明人	이현규 김영구		
IPC分类号	G02F1/1368 H01L27/06 G02F1/1345 G02F1/1362 H01L21/822 H01L27/04 H01L29/786		
CPC分类号	G02F1/136204		
代理人(译)	박장원		
其他公开文献	KR1020030005797A		
外部链接	<a href="#">Espacenet</a>		

### 摘要(译)

目的：提供一种TFT显示装置的静电放电防止电路，通过减少数据线的电阻数而将静电分配给多条数据线。多个栅极线(G1至G768)位于为了向多个栅电极施加栅极电压。多条栅极线ESD(GLESD1～GLESD768)位于栅极线(G1～G768)的后端侧。栅极公共电压线(VGL)与栅极线(G1～G768)的后端侧连接。此外，栅极公共电压线(VGL)通过栅极线ESD(GLESD1～GLESD768)与栅极线(G1～G768)的前端侧连接。公共电压线(VCOM)通过ESD与栅极公共电压线(VGL)连接。多条数据线(D3071，D3072)通过数据线EDS(DESD3071，DESD3072)与公共电压线(VCOM)连接。电感ESD(ESD)位于公共电压线(VCOM)和数据线ESD之间。©KIPO 2003

