

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>7</sup>  
G02F 1/136

(45)  
(11)  
(24)

2004 08 04  
10-0443030  
2004 07 23

(21)	10-2001-0045386
(22)	2001 07 27

(65)  
(43)

10-2002-0010098  
2002 02 02

(30) JP-P-2000-00233150 2000 07 28 (JP)

(73)                   가         가

가         4         6

(72)

	1	5-1	가	가
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1      5-1      가      가

(74)

1

(54)

‘ , ‘

,

가

가

,

1

,

,

1	1
2	2

•

•

[illegible]

1, 1' :  
2 :  
3, 7 :  
4 : TFT( )  
5 :  
6 :  
8 :  
9 :  
10 :  
11 :  
12, 12' :  
13 :  
14 :  
15 :

가 TFT 가 TFT

10-39292

TFT

가 . ,

가

(1)

가

(2)

가

(3)

가

(4)

가

(5)

(3)

(4)

(6)

(3)

(4)

(7)

(3), (4)

(5)

가 가

(end ca

(8)

(3)

(7)

가

(9)

1, 1 (2), 4 TFT( ), 5, 3  
 6, 10, 7, 11, 12 (2), 8, 9, (3), (6), (7),  
 (1), (2) (TFT: 4)가, (5), (8), (10), (13)가, (12),  
 (7), (9)가, (9), (11)가, (10), (11'), (12'), (11') (seal), (14)  
 (1), TFT 가 0.7mm (2), (2) 100nm (2)  
 SiN (4) (3) CVD( ) 가 300nm  
 가 300nm (5) (6) TFT (7)  
 가 300nm (7) CVD 가 500nm SiN (7)  
 90 30 가 (7) (8)  
 230 30 가 0.8 $\mu$ m (8)  
 가 1.1 $\mu$ m 90 30 가 (7)  
 210, 30 가  
 가 1.5 $\mu$ m 90 30 가 210, 30 가  
 가 1.5 $\mu$ m (10) 가 0.3 $\mu$ m (10)  
 90 30 가 (7) (13)  
 230 30 가 (7) (13) CF<sub>4</sub> O<sub>2</sub>  
 가 (ITO ) CF<sub>4</sub> 95%: O<sub>2</sub> 5% (5) 130nm  
 (5) (11) ITO (5) HBr 25  
 ITO ITO  
 가 (12)

(1') 가 0.7mm (11': ITO )  
 가 130nm가  
 (12') (micro pearl) 가  
 TFT (9)  
 (10) 2 2 2 1 (9)  
 (1) (2) (3) (7)  
 (TFT: 4) (5) (6) (8) (9)가  
 (9), (7) (8) (13)가  
 (11) (5) (11') (1)  
 (9)가 (1') (12') (14) (3) (7) SiN SiO<sub>2</sub>  
 2 3 3 1 1  
 가 3 3 가 가 (8) (1)  
 3 1 (8) 4  
 (9) (10)  
 90 30 가 (7) 230 30 가  
 가 0.3μm [ (10)]  
 (5) (7) CF<sub>4</sub> O<sub>2</sub> 가  
 (13) 가 (ITO : 11) 130nm (13) (5) (9)  
 1 4 4 1  
 (15) 4 ( )  
 5 5 2 (15)  
 6 6 (15) 4  
 가 6  
 7 7 5  
 (15) 6 ITO (13) ITO  
 8 가 (13)

, 9, 10, 11, (16, 18, 20, 22) 12, (17, 19, 21, 23) 11, 8 (20)

, 8

1 90 30 가 , 230 30 가 (1) , 가 0.5 $\mu$ m

, 230 30 가 , 가 0.5 $\mu$ m , 90 30 가 ,

, 13 , 90 30 가 ,

0.4 $\mu$ m

O<sub>2</sub> 가

O<sub>2</sub> CF<sub>4</sub> O<sub>2</sub> CF<sub>4</sub> 가 ( 95%: 5%)

가 (5) (ITO ) (

가 130nm), 1

9

1 15 16 가 , Ar<sup>2</sup> 17 18 가 , 13

Ar<sup>1</sup> Ec 19 30 가 , 200 30 가 N- -2- 250 30 가

0.8 $\mu$ m

가 가 (架橋) , 가 가

1 가 , 90

30 가 , 230 30 가 0.3 $\mu$ m

1

20 1

IC ITO ITO

ITO

가

8

8

ITO IC ITO

ITO

가  
24 10 24 (a) 24 (b) A-A'  
(1) 9 (31)  
(3) (1) (2) : 2 (3) (TFT: 4)가  
( : 6) ( : 5) (8) (7)가  
(11) (14)  
(1') (12, 12')  
10 (가 : 5) (31) 가  
[1: (1')]  
(1) 1 9  
(1) (2)  
(3) (4)  
, TFT

(57)

1.

(狹持)

1

2.

1

3.

1

4.

1

5.

1

6.

2

7.

3

8.

4

9.

2

10.

4

11.

1

(end cap)

(前驅體) 가

12.

2

가

13.

3

가

14.

4

가

15.



3 ,

16.

4 ,

17.

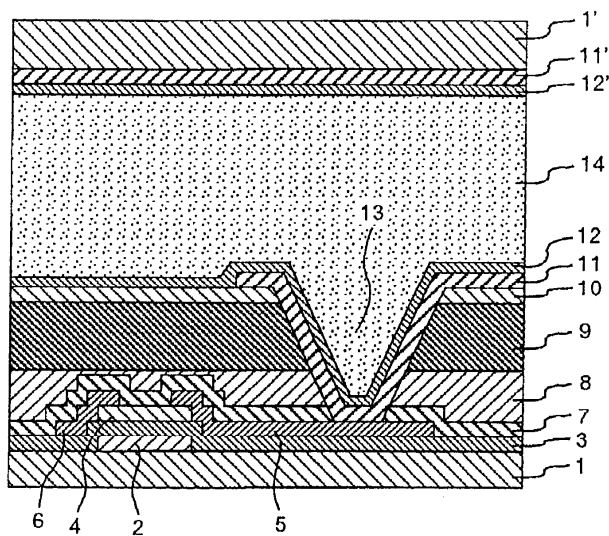
3 ,

18.

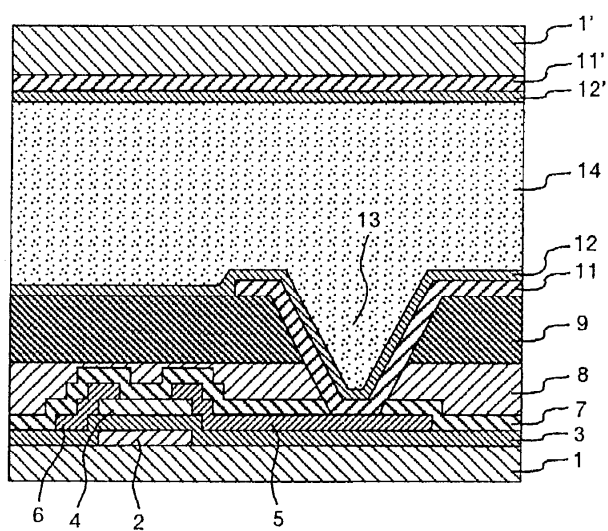
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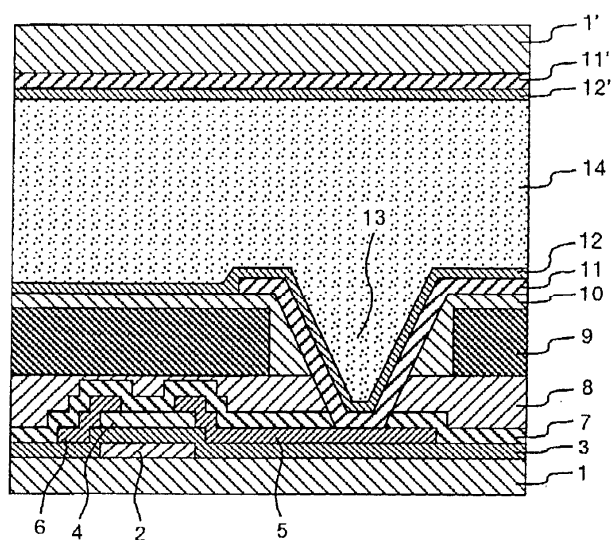
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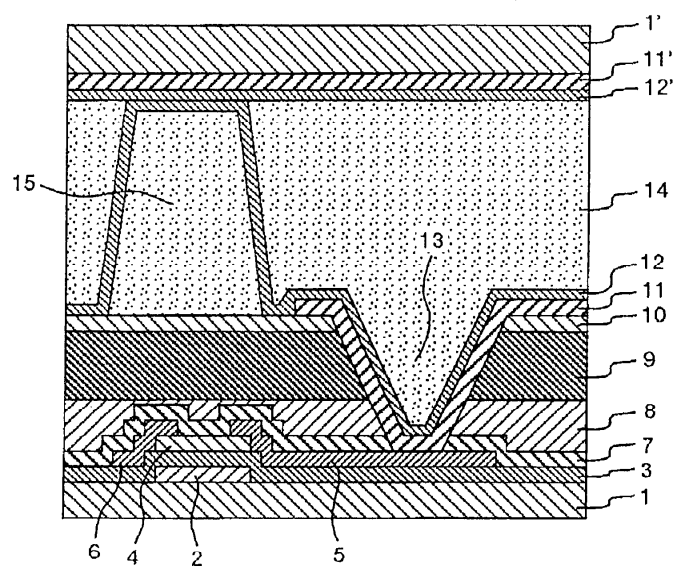
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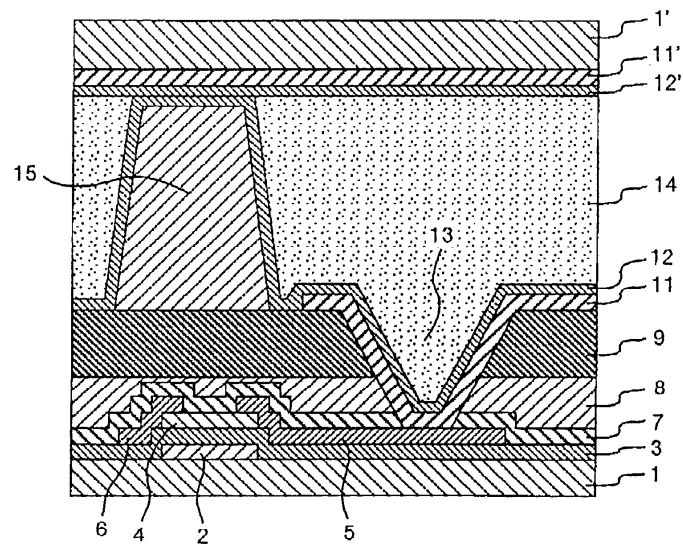
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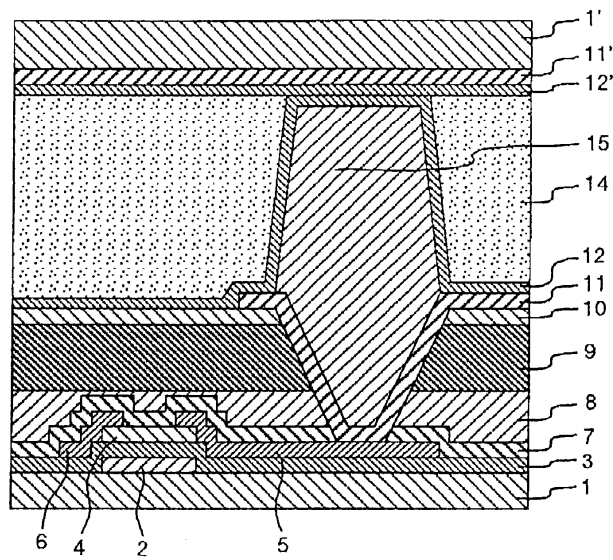
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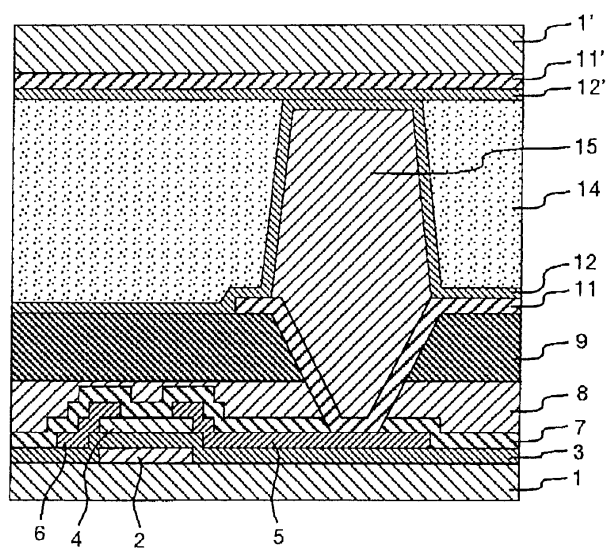
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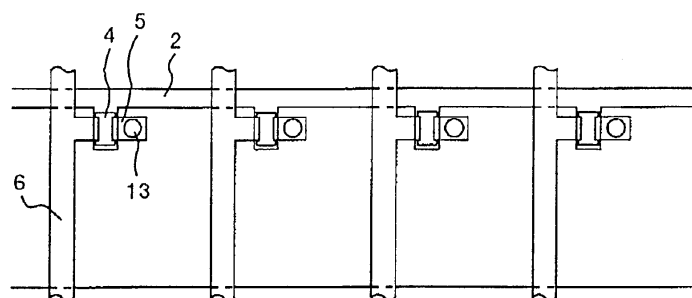
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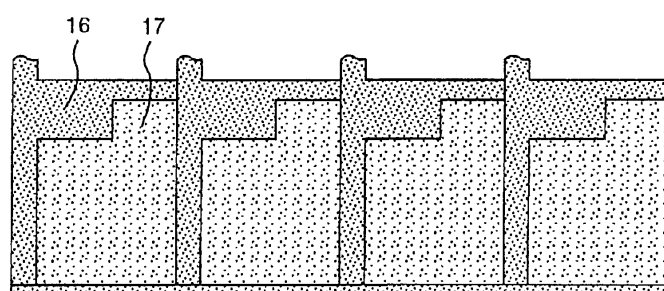
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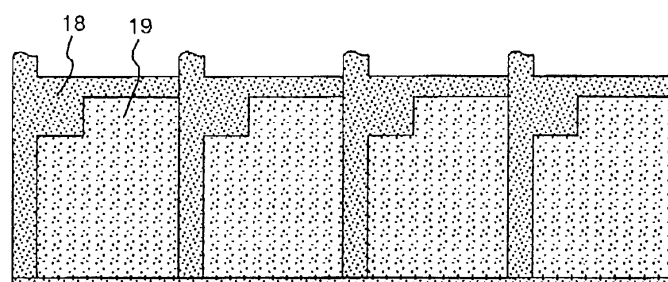
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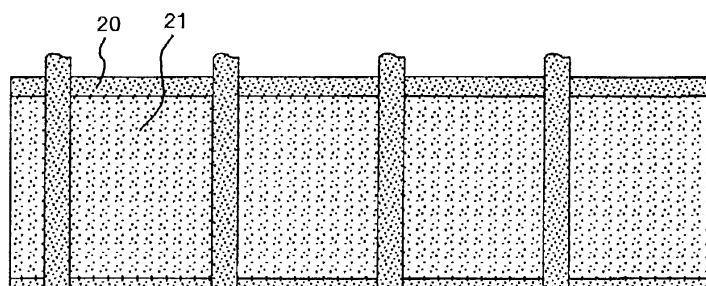
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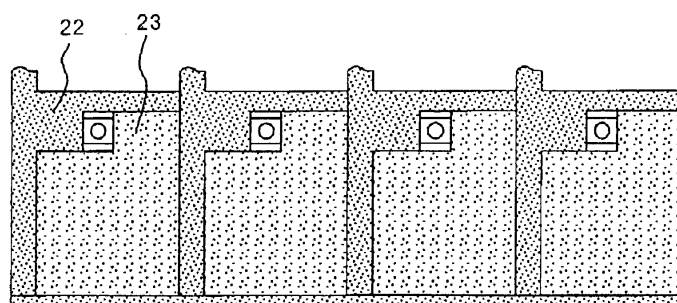
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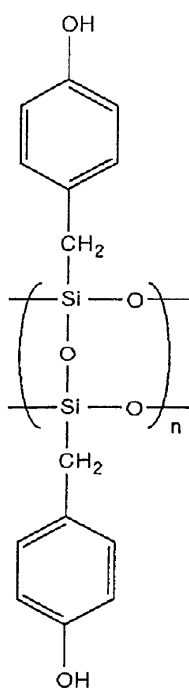
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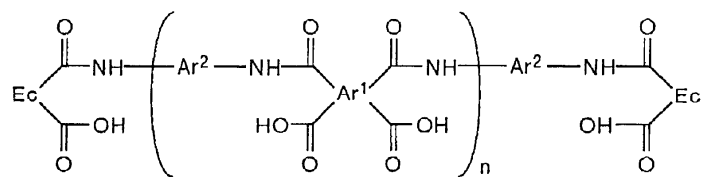
12



13

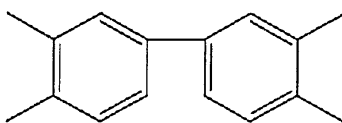


14

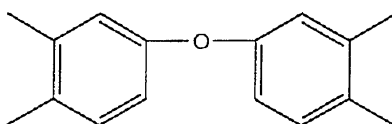


Ec :엔드 캡 기본 골격  
Ar<sup>1</sup>:산 무수물 구조 기본 골격  
Ar<sup>2</sup>:디아민 구조 기본 골격

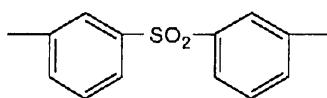
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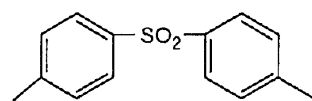
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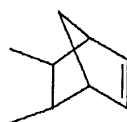
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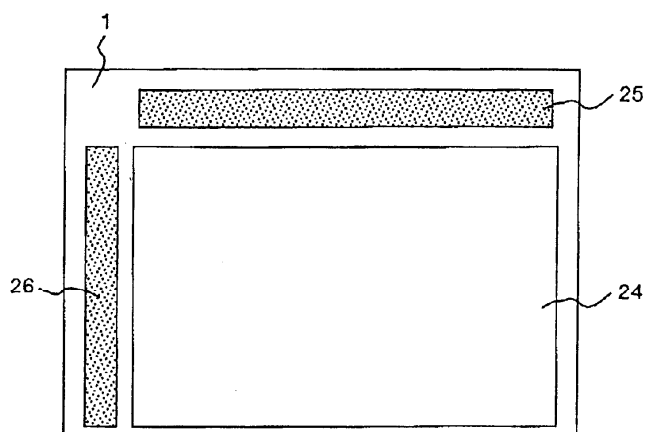
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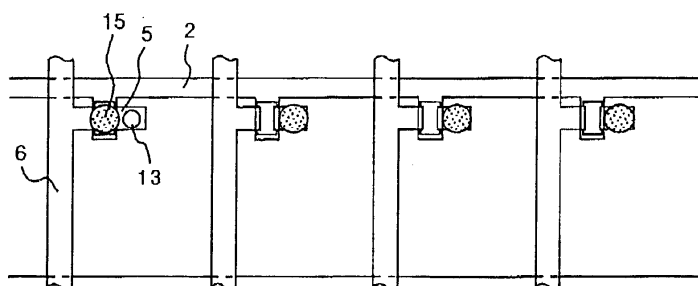
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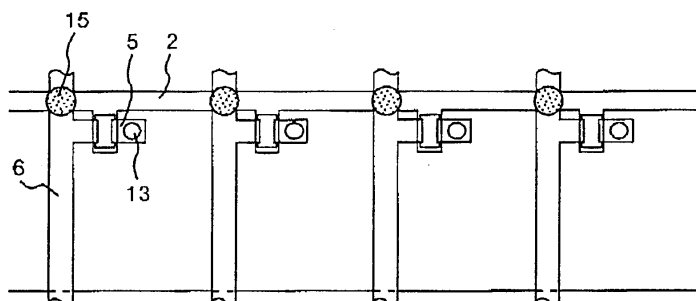
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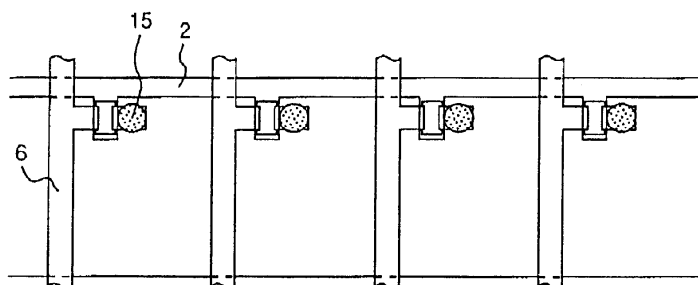
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22

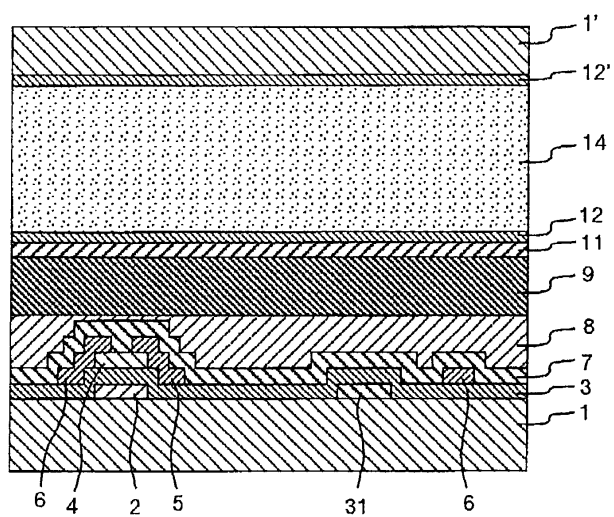


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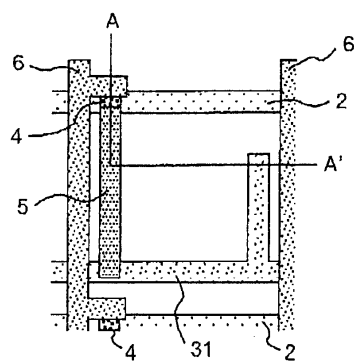


24

(a)



(b)





专利名称(译)	彩色液晶面板和彩色液晶显示器		
公开(公告)号	<a href="#">KR100443030B1</a>	公开(公告)日	2004-08-04
申请号	KR1020010045386	申请日	2001-07-27
[标]申请(专利权)人(译)	日立HITACHI SEISAKUSHODBA		
申请(专利权)人(译)	株式会社日立制作所		
当前申请(专利权)人(译)	株式会社日立制作所		
[标]发明人	TANAKA JYUN 다나까준 SEKIGUCHI SHINJI 세끼구찌신지		
发明人	다나까준 세끼구찌신지		
IPC分类号	G02F1/1333 G03F7/037 G02F1/1368 G02F1/1362 G09F9/30 G02F1/1335 G03F7/075 G02F1/136 G02B5/20		
CPC分类号	G02F1/133514 G02F1/136227 G02F2001/136222		
代理人(译)	CHANG, SOO KIL		
优先权	2000233150 2000-07-28 JP		
其他公开文献	KR1020020010098A		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

在一个基板上设置夹着液晶的一对基板：与像素对应地排列成矩阵形状的薄膜晶体管元件；薄膜晶体管元件的布线部分；像素电极；在像素电极和无机绝缘层之间形成用于覆盖薄膜晶体管元件的布线部分的滤色器层，滤色器层至少包括下部透光平坦层和原色型彩色图案，并且设置有开口，薄膜晶体管元件的布线部分和像素电极的连接部分穿过该开口。采用这种结构，薄膜晶体管和滤色器可以形成在同一基板上，并且可以抑制滤色器的光谱特性的劣化。

