

(19)  
(12)

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(A)

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2002 05 22

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(30) JP - P - 2000 - 0034 2000 11 15 (JP)  
7711

(71) 가 가 가  
가 가 1 6 2

(72) 1 - 1 - 1 - 314

(74)  
:

(54)

(3) (5) , (3) (6) (6a)  
(12) , (6a) (5) (5)  
(3) (Cds) .

1

2 1 -

3

4 3 -

1: 2:

3: 4:

5: 6:

6a: 11:

12: 13:

14: 15, 16:

17: 18:

19: 20:

3

(1) (1) (2) (3)

, (4) (5) , (5)

(6) (2)

(5) 1 R( ), G( ), B( ) 3 (5)

( ) (2)

(5) , (3) (5)

(5)

3 Y-Y

(1) (11)

(2) 4

(6) , (12)

(11) (12)

(13)

(13) (14)

(14)  
(15, 16)

(13) n

(3) (15) (12) (17)  
(3c) 3 (3) (3a), n (3b),  
6) (3a) (13) (13) (15, 16) (15, 1  
(3b) (17)  
(3c)

(11), (16) (18) (17) (1  
8) (12), (3)가 (13), (14), (15, 16), (12) ITO  
(5) ( ) (19) (3) (19) (20) (18)  
(5) (5) (19)

$\mu\text{m}$  (19) (5) (3) (5)  
(3) 가 (3) (3)  
(5) (5)  
(3) (G) 가  $4\mu\text{m}$  (5)  
(3) (L)  $2\mu\text{m}$   
(3) (W)  $8\mu\text{m}$

(5) (3) (3) 가 (C  
ds) 가가 (5) (3) (Cds) 가 (C  
( ) ,  $= Cds/Cp = Cds/(Cds + Clc + Cs + Cgs)$  { Clc 1 1 (5) (Cp)  
, Cs (5) (6) ( ) , Cgs (5)  
(2) }  
Clc가

(Cds)

0.045 (Cds) (Cs) (= Cds/Cp)가  
 가 .

1 X-X , 2  
 3 4

1 (1) (1)  
 (2) (3) (4) (5)  
 (5) (6) (2)

(5) 1 R( ), G( ), B( ) 3 (5)  
 (2) (5)  
 (3) (Wd) 가 (5)

(5)  
 (6) (3) (Wc) (6a)가 (3)  
 (6a) (Wc) (Lc)  
 (Wd) (3) (5) (S)

1 X-X 2  
 (1) (11) (2) (12)  
 (6a) (6) (12)  
 (11) (12)  
 (13) (13)  
 (14) (14) (13) n  
 (15, 16)

(15) (12) (17)  
 (3) (3) (3a), n (3b),  
 (3c) 3 (3a) (13) (13)  
 . n (3b) (15, 16) (15, 1)  
 6) (3c) (17)  
 (17)

(11), (16) (18) (17) (1)  
 8) (12), (3)가 (13), (14), (15, 16), (17) (12)  
 ( ) (19) (3) (19) ITO

(5) (5) (19) (20) (18)  
 (6) 1500 3000 , (12) 2000 4000 ,  
 (13) 200 1000 , (14) 1000 2000 , (15, 16) 30  
 0 1000 , (17) (18) 3000 5000 , (19) 1μm 4μm .

(3) (6a) (3) (3) (5) (5)  
 (3) (6a) (5) (3)  
 (Cds) (Cds) 1 (5) (5) (Cp) ( { = Cds/Cp  
 (Clc) (Cds) 1 (5) (Cp) ( { = Cds/Cp  
 = Cds/(Cds + Clc + Cs + Cgs) } ) 가

3μm , (19) 3.0 , 1 (19)  
 (3) (S) 0 1μm , (Cds) 0.02 0.03fF/μm (5)  
 3 , (Cds) 0.1fF/μm (5) (3) (L) 1 2μm  
 (Cds) 1/4 1/5 (Cds)  
 (Cds) 1 (5) (Cp) ( { = Cds/Cp = Cds/(Cds + Clc + Cs + Cgs) } ) 가 0.  
 045 ,  
 0.02 0.03 , 0.07 0.08 (Cds) 1  
 (5) (Cp) ( ) 0.045

(5) (6) (6a) (5)  
 (6a) (6a) (Lc), (5) (3) (S) (5)  
 (Wd) (6a) (6a) 8 9μm , 3 (3)  
 (3) (8μm)

(Cs) (19) 가 μm (5) (Cp) ( )  
 (Cds) 1 (5) (6a) (5) (2Lc)  
 (6) (Cs) , (Cds) 1 (5)  
 ( )

(Cds)

(57)

1.

,

,

,

,

1

,

가

,

2

,

,

(Wd)

(WC)

가

,

가

2.

1

,

(Cds)

(Cs)

( = Cds/Cp)가

0.045

3.

1

,

(Cds) 0.03fF/ $\mu$ m

4.

1

,

5.

2

,

1

6.

1 ,

7.

6 ,

0 1 $\mu$ m

8.

1 ,

1 2

9.

1 ,

1 2

10.

1 ,

1 1 $\mu$ m 4 $\mu$ m

11.

,

,

,

,

,

(Cds)

(Cs)

( = Cds/Cp)가

0.045

12.

11 ,

(Cds) 0.03fF/ $\mu\text{m}$

13.

11 ,

14.

11 ,

0 1 $\mu\text{m}$

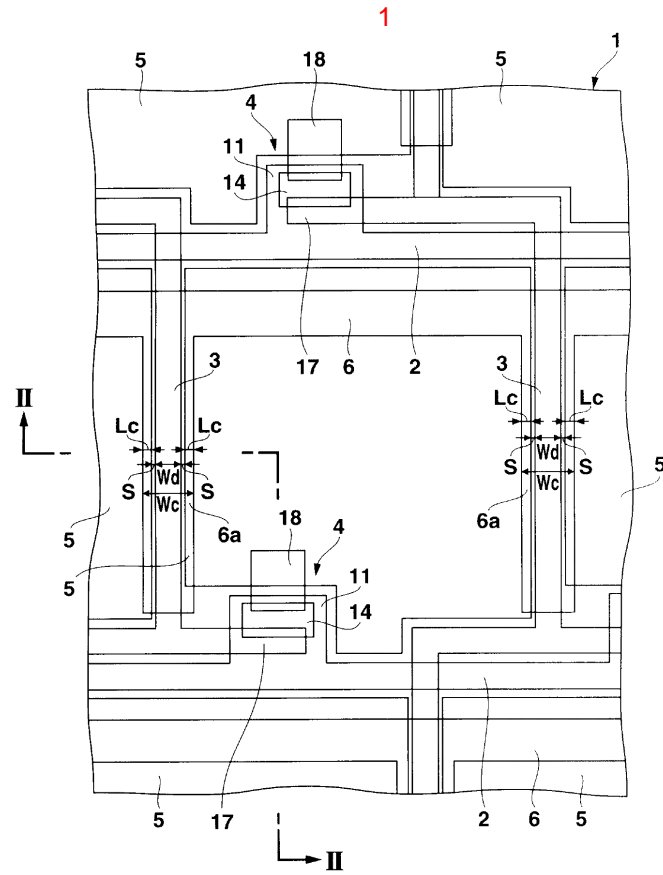
15.

11 ,

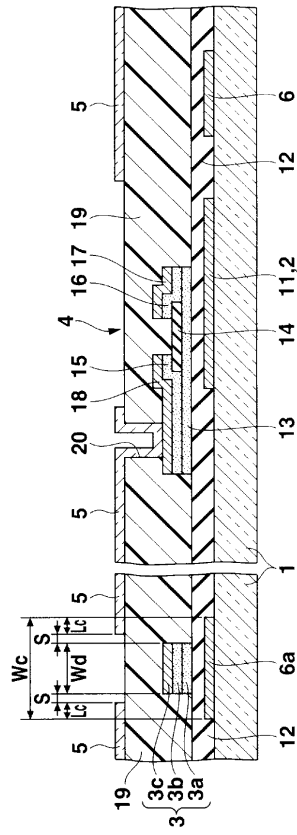
16.

11 ,

1 $\mu\text{m}$  4 $\mu\text{m}$

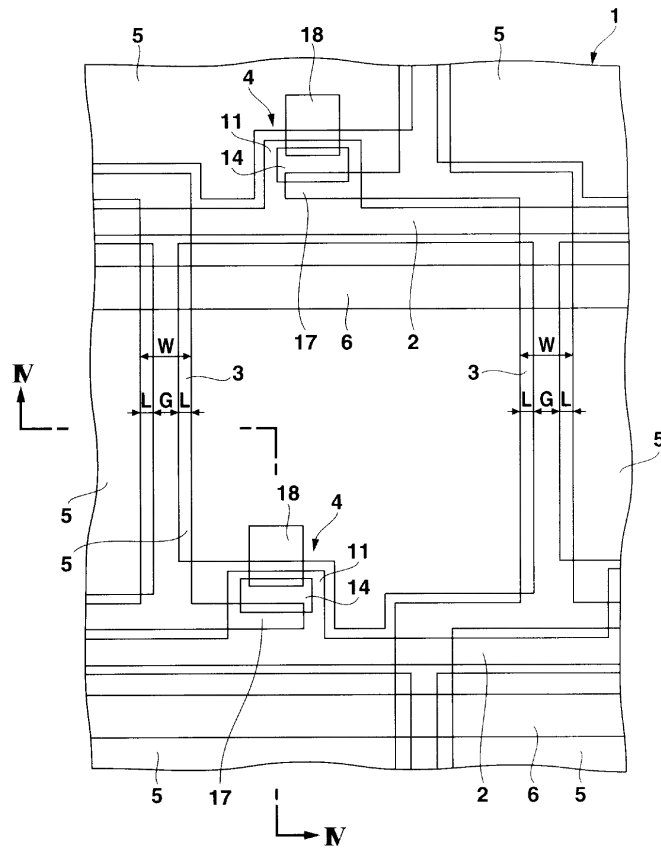


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3

종래의 기술





专利名称(译)	有源矩阵型液晶显示器		
公开(公告)号	<a href="#">KR1020020037680A</a>	公开(公告)日	2002-05-22
申请号	KR1020010068708	申请日	2001-11-06
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[标]发明人	NAKAMURA YAYOI		
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IPC分类号	G02F1/1368 G02F1/1362 G09F9/30 G02F1/1343 G02F1/1345 H01L29/786 G02F1/136		
CPC分类号	G02F1/136213 G02F1/136227		
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优先权	2000347711 2000-11-15 JP		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

有源矩阵型液晶显示装置本发明涉及一种能够减少串扰的有源矩阵型液晶显示装置，更具体地说，涉及一种能够通过使数据信号线3与像素电极5错位并连接数据信号线3和存储电容线6来减少串扰的有源矩阵型液晶显示装置。像素电极5和数据信号线3之间的寄生电容是通过在延伸突起6a之间插入栅极绝缘膜12并通过将延伸突起6a聚合到像素电极5的周边部分而获得的，其特征在于，较小的(CDS)。1 指数方面 玻璃基板，薄膜晶体管，像素电极，栅极绝缘膜，接触孔

