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(43)

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2003 03 29

(21) 10 - 2002 - 0051365  
(22) 2002 08 29

(30) JP - P - 2001 - 00289259 2001 09 21 (JP)

(71) 가 가 가 4 6

(72) 가 2 - 5 - 1  
가

가 460  
가 가 406 - 1 - 410

(74)

:

(54)

가

3

, , , ,

1 , 3 1-1 .

2 가 .

3 .

4 3 - .

5 .

6 5 - .

7 .

8 .

9 .

10 .

11 .

12 .

13 .

< >

SUB :

GL :

DL :

TFT :

Cadd :

PX :

CT :

PSV1 : ( )

PSV2 : ( )

SP : ( )

가

가

< 1 >

, , .  
, , ,  
, , 가 ,  
가 .

< 2 >

, , ,  
, , 가 ,  
, 가 ,

< 3 >

, , ,  
, , 가 ,  
, , ,  
, , ,

< 4 >

, , ,  
, , 가 ,  
, , ,



가 , 가

가 0.5mm

< 11 >

, , ,

가

가 ,

가

가

< 12 >

, , ,

가 ,

가

< >

< 1 >

《 가 》

2

가 .

SUB2

SL

SUB1, SUB2가 ,

SUB1

SL  
GL y

x SUB1

, x y  
DL .

GL DL ,  
AR .  
, GL TFT ,  
TFT DL 가 PX가 .  
PX , SUB2 CT  
, .  
가 GL SL , V  
가 가 , V  
, V 1 가 , GL 가  
, 가 DL SL , He  
He 가 가 , He  
, He 1 가 , DL 가  
, V He , SUB1  
, .  
GL , V , 가 .  
, 가 DL , He , GL  
《 》  
3 , 3  
- 1 , - 4 .  
3 , SUB1 , , x y GL  
. GL DL ,  
. GL SUB1 SiN GI가  
GL  
GI , DL GL 가 ,  
, TFT  
Cadd .

, AS가 GI , , GL Si Si  
 , AS , TFT , SD1 SD2  
 , Si GL MIS , ,  
 , SD1 SD2 DL .  
 , y x DL , 가 AS  
 SD1 , , SD1 TFT  
 SD2가 .  
 SD2 AS GI ,  
 PX 가 .  
 , AS SD1 SD2 ,  
 , SD1 AS SD2 , ,  
 , TFT, DL, SD1 SD2가 SUB1  
 SiN , PSV가 TFT PSV TFT  
 , PSV , SiN PSV1  
 PSV2 , 가 , PSV1  
 INTL  
 INTL PSV2  
 , PSV2 PX가 . PX  
 AI , PX , PSV2  
 , 가 TFT CH1 TFT  
 SD2 , 가 PSV2, PSV1

, PX TFT GL  
 GL , GL  
 , PX GL PSV2, PSV1 Cadd가  
 .  
 Cadd , PX  
 , PX가 SUB1 PX ORI1  
 . ORI1  
 .  
 , SUB1 SUB2  
 FIL, ITO(Indium Tin Oxide) CT가  
 .  
 , SUB2 SUB1 SP가 SUB2 SU  
 B2 CT SP SUB2  
 , SP 1 가 PX  
 , SP  
 , SUB2 SP ORI2가  
 , SP  
 , SP PX , SP  
 , SP가  
 ,  
 < 2 >  
 5 3  
 5 - 6  
 가 PSV2, PSV1 GI PX SUB1  
 ITO(Indium Tin Oxide) PX1  
 , PX1 GI TFT  
 SD2 , PX

SP 가 1 가 SUB2 SP가 , PX ,

< 3 > , 1 가 .

, 3 5 , PX SP .

7 (a) , PX ( 7 (a) , x )가 x y , 가 SP x y ,

7 (b) , PX 가 ( 7 (b) , ) 가 SP SP

SP 가 PX 2 , 가 , 가

< 4 > 8 , 1 . L 1 , DL , PSV1 PSV2 , D DL INS가 INS PSV1 INTL

, DL PX INS .

< 5 > 9 , 1 . L 1 , PSV2 , D W가 , PSV2

, 8 가 , DL PX .

, PSV2 PSV2 3 , PSV2 .

< 6 >

10

, 9

, 6  
DL

SUB2

SP

가

, SUB1  
SP

가 가

SP가

< 7 >

11

11  
PSV2

, 9

10

, 3

가

1( 11 (a))

PSV1

SUB1

2( 11 (b))

SUB1

PSV1

PSV2

PSV2

3( 11 (c))

PM

PSV2

, PM

PSV2

, SUB1

DL

PSV2

가

, 가

PM

PM

, PM

, PSV2  
PM

4( 11 (d))

가 , PSV2 ,

< 8 >

12 , 8 .

8 , SUB1 SUB2 S  
P SP1 .

SP , SUB1 SUB2  
SUB1, SUB2 가

SP가 가 .

SP1 , SUB1 SUB2  
SP1 (

3μm) . , SP SP1 가 .

, SP가 1 1 SP1 1 2 ,  
SP가 1 SP1 1 1 ,

SP가 SP1

, SP , SP1 ,

, SP SP1 .

< 9 >

, SUB1 SUB2 SP  
SP1 , SUB1, SUB2 가 0.5mm

가 0.5mm , 가 , 1  
8 가 .

, 가 SUB1, SUB2

< 10 >

13 , 8 .

8 , SUB2 SP , SP

BM .

BM SP1 SP

BM SUB2 FIL , 가

, , BM SUB2 , SUB1

, BM

(57)

1.

, , 가 ,

가

2.

, , 가 ,

가

3.

가

4.

가

,

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가

5.

4

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가

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가

6.

7.

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가

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가

8.

7

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9.

7 ,

가 ,

10.

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, ,

가

가 ,

가

,

, 가 0.5mm ,

11.

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가

가 ,

가

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, 가 ,

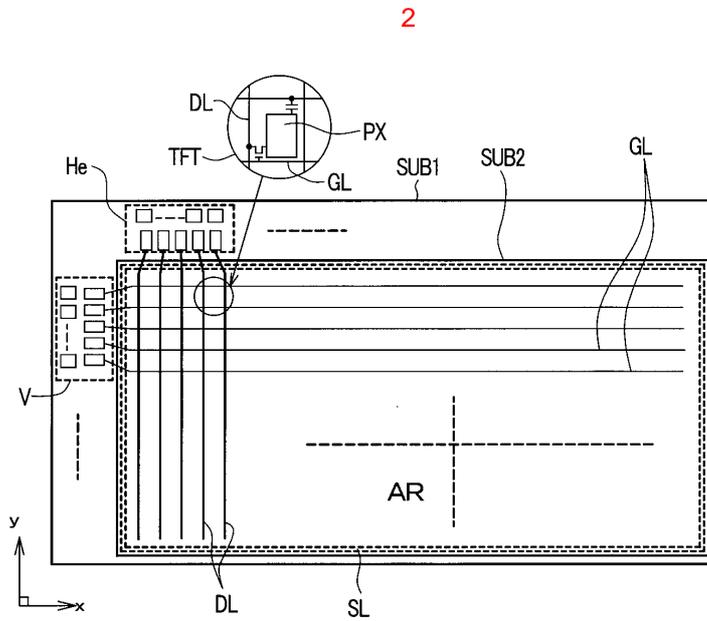
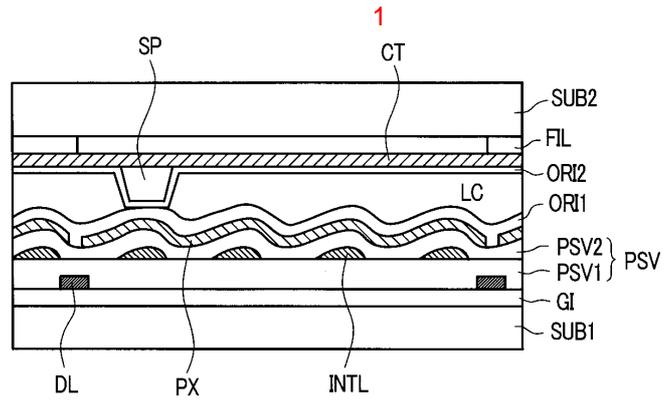
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,

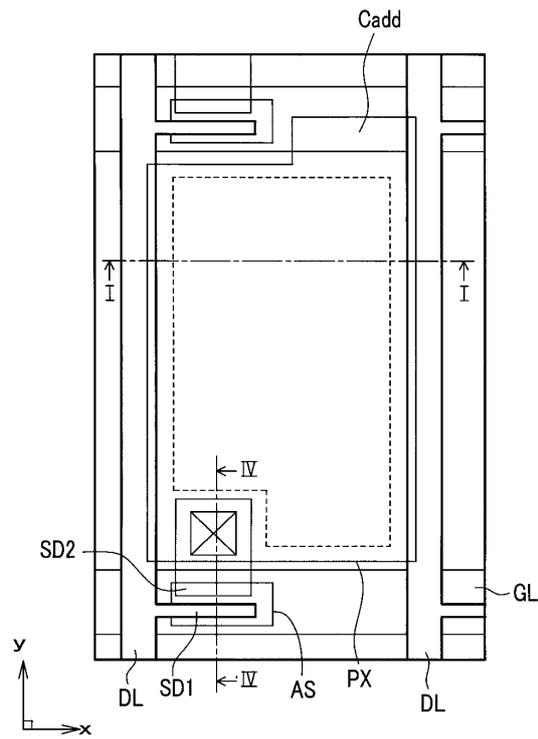
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가 ,

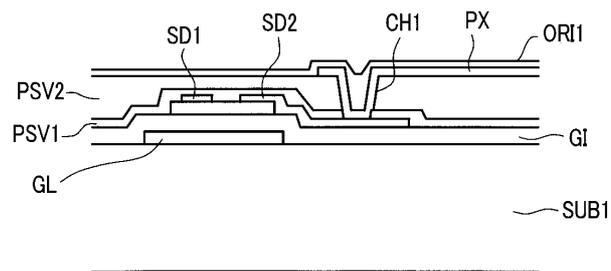
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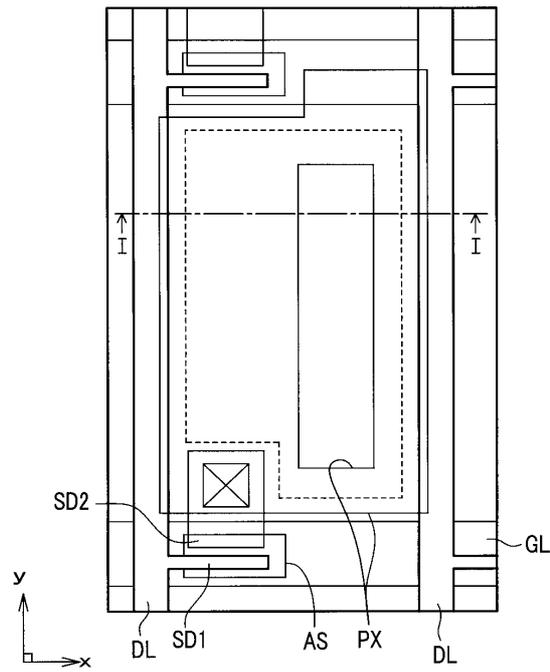
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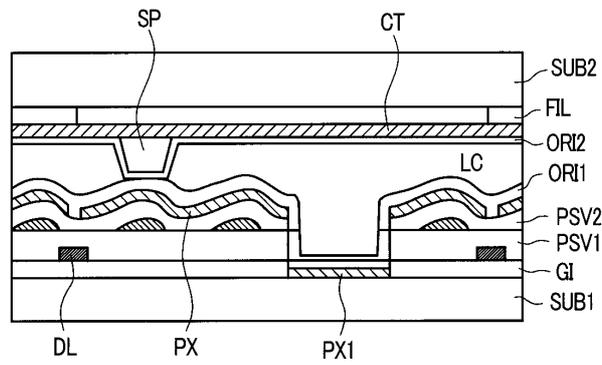
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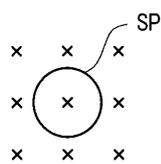
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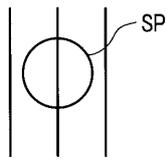
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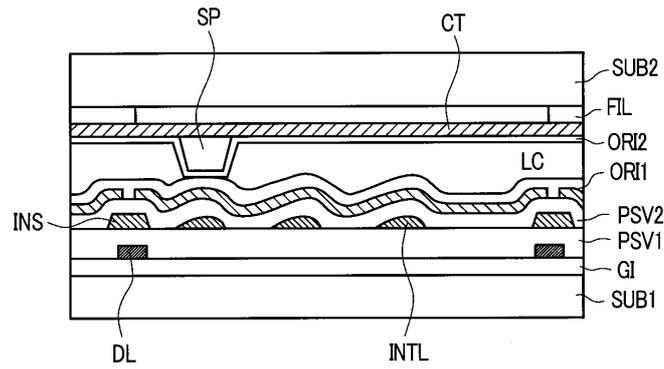
7a



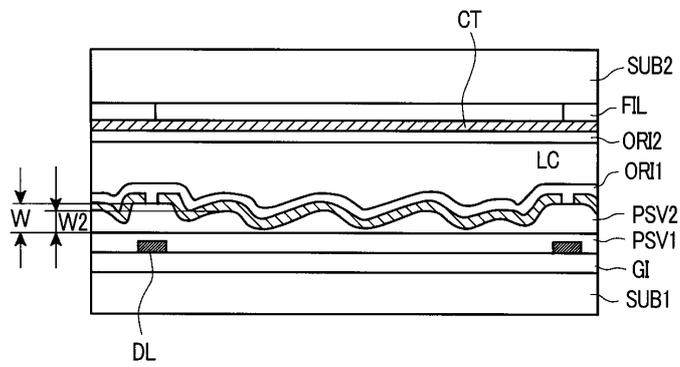
7b



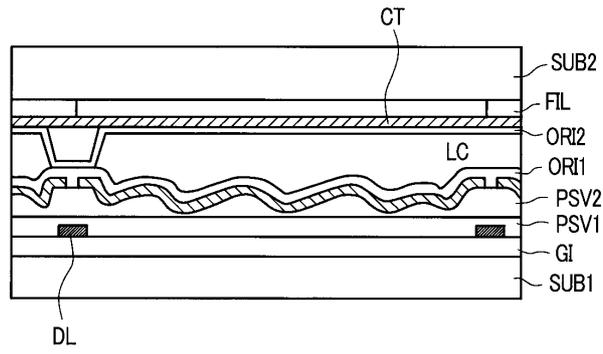
8



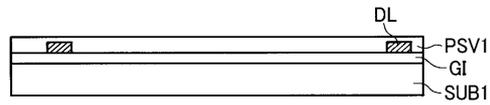
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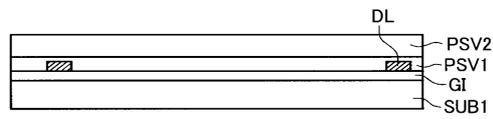
10



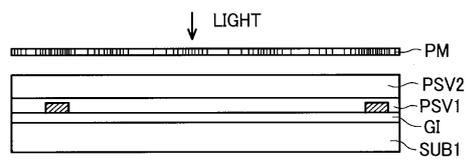
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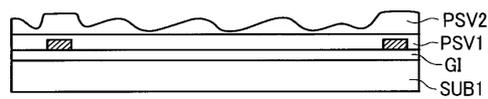
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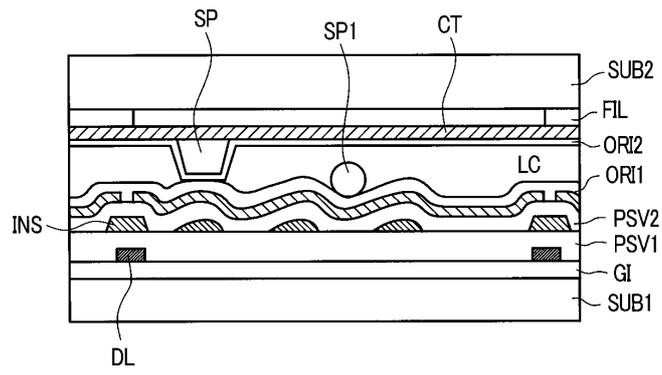
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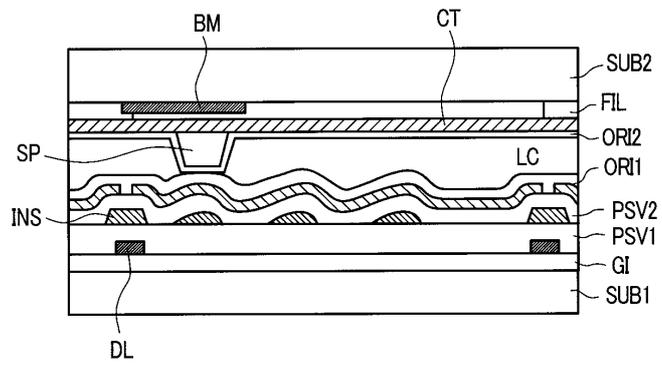
11d



12



13



专利名称(译)	液晶显示器		
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代理人(译)	CHANG, SOO KIL		
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其他公开文献	KR100724661B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

目的：提高基材间的间隙精度。

