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2004 12 31(21) 10-2001-0076816
(22) 2001 12 06(65)
(43)10-2002-0045551
2002 06 19

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(73) 가 가 1 6 6

(72) 868

414-1-101

(74)

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(54)

가

가

2

1

1

, 2 I-I

2

3A, 3B, 3C, 3D, 3E

4

5 4 V-V

6A, 6B, 6C

7	.	
8A	,	8B 8A b-b
9A	,	9B 9A b-b
10A	,	10B 10A b-b
<	.	>
AO :		GI :
AS :		PIX :
PSV :		SUB :
PR 1 : 1		PR 2 : 2
PR 3 : 3		PR 4 : 4
GL :		BM :
DL :		SD 1 :
SD 2 :		

가
가
2
가
가
1.
2
2
가
(SUB) x y (GL)
(GL) (Al) (AO) (DL)
(hillock) (DL)
(GL) (DL)
가 Al (PR)
1 (PR) (PR 1) n (PR n(n= 1, 2, 3))
(PR) (PR) 2 A1 (PR)
(PR) (PR 1) 1 (PR 1)가 (PR)
1 (PR 1)가 1 (PR 1)가 1 (PR 1) ITO(Indium-Tin-Oxide) 1 (PR 1)
(PR 1) 2 (PR 2)가 2 (PR 2) (PR)
(PR) (PR 1)가
2 (PR 2)가 1 (PR 1), 2 (PR 2) (SUB) SiN
(GL), (GL)
(GI) (DL) (GL) (Cadd)
(TFT)
(GI)
(PR)
(PR) (GI) 3 (PR 3)
(GL) (GI) (AS) a-Si
(GL)
(TFT)
(AS) MIS (AS)
(GI) (PR) (PR) (AS) 4 (PR 4)
(TFT) (SD 1) (SD 2) (GI) (DL)
y x (DL) (DL) (SD)
(AS) (TFT)

, (SD 2) (PIX)

(DL)() (PIX)() , (AS)

(cr) (Al) (PIX)

(PIX) (PR) 가 가

(PR) 가

가 (SD 2), (SD 1) (AS)

(AS) 가 (SD 2)

(SD 1) 가

(DL) (PIX) (SUB) (D

L) SiN (PSV) (T

FT) (SUB) (BM) 가

(BM) (TFT) (BM))가

(BM) ()

가 가 , x

(R), (G), (B) 가

3A 3E

1(3A) (SUB) A1 300nm (, 가) .

가 Al 가

Al (GL) 1

(PR 1) 2.(3B) Al 180nm (AO) 100nm

가 (SUB) ITO(Indiu—Tix-Oxide) 1 (PR 1) 가 가 1 2 (PR 1) 2 (PR 2)

ITO Al 1 (PR 1)가 2 (PR 2)

3.(3C) (SUB) (SiN) CVD 240nm

(SiN) (GI) CVD 200nm (P) 1% n(+) (AS)

35nm n(+)

가 6 가 (AS) (GI) 가 4 °

가 70 °

(AS) (GI) (AS) 1 (PR 1)(

2 (PR 2)) 3 (PR 3)

4 (PR 4)가 3 (PR 3), 4 (PR 4) 1 (PR 1)(2 (PR 2))가

가 4.(3D) (SUB) (cr) 30nm (DL)((TFT) (Al

) 200nm cr Al (S

D 1), (SD 2)) (PIX)

가 , , , Al , 2 Cr
 (AS) (SD 1) (SD 2) n(+) (6)
 가 5.(3E)
 (SiN) CVD 300nm SiN
 (PSV) 6 가 ,
 가 (GL) (DL)
 2.
 4 , 2
 5 4 V-V
 2 (TFT) (SD 2)((SD 1), (DL
)) (PIX) (PSV) (PIX) (P
 SV) (CH) (SD 2)
 (PR)가 (PIX) (PIX) (PR)가 ,
 1(3A ~ 3E) 6A 6C
 , 5(3E)
 6.(6A)
 (SUB) (PSV) 가 (SD 2)
 (CH)
 7.(6B)
 (SUB) (Cr) 30nm , (Al)
 200nm Cr Al (PIX) 2 Cr
 가 , , , Al , 2 Cr
 , 7 (PSV) (PIX) , 1
 , (PR)
 , (DL)((SD 1)), (Cr Al) 5
 (PR 5) (PR) 가 . 7
 8.(6C)
 (SiN) CVD 300nm SiN
 (PSV 1) , 6 가
 가 (GL) (DL)
 가 (PIX) (PR) (PIX)
 2 가
 , 가 8A, 8B, 9A, 9B, 10A, 10B
 (PR) 가 3 , 3 (PR) , 8
 A, 9A, 10A , 8B, 9B, 10B 8A, 9A, 10A b-b
 , (PR)
 , 8A, 8B (PR) 2
 ,
 , 가 ,
 , 9A, 9B (PR) , 3
 , (PR)
 , 10A, 10B (PR 2)가 2 가

·
·
·
(PIX) (PSV) SiN
(PR) (PR) 가
(PIX)

(PSV 1) (PIX) TFT (PSV), 2 (PIX)

가 가

(57)

1.

가 가 2 가

2.

가 가 2 가

3.

1 2

4.

1 2

가

5.

1 2

6.

가

5 ,

7.
5 ,

8.
1 2 ,

가 ,
가 2

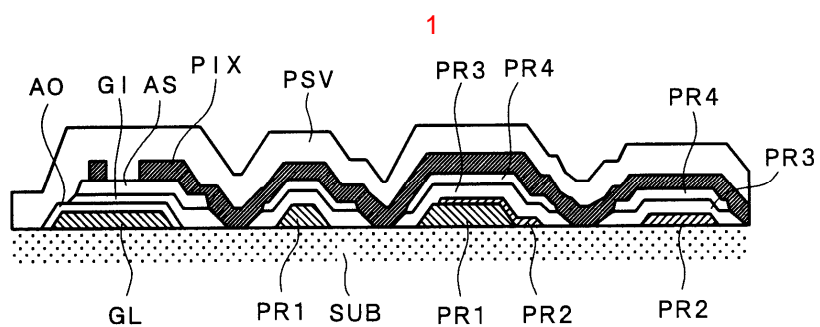
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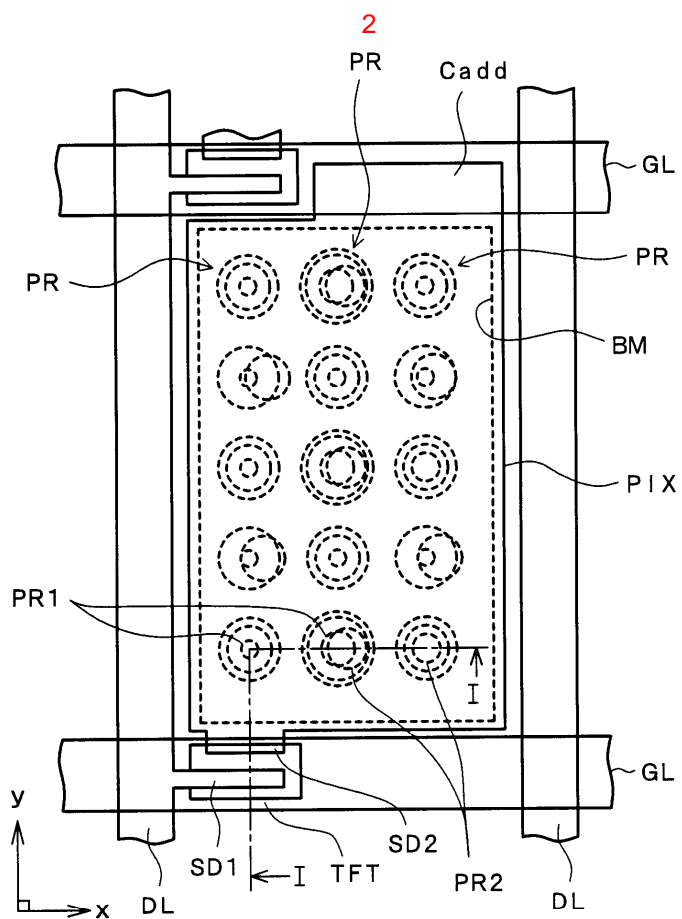
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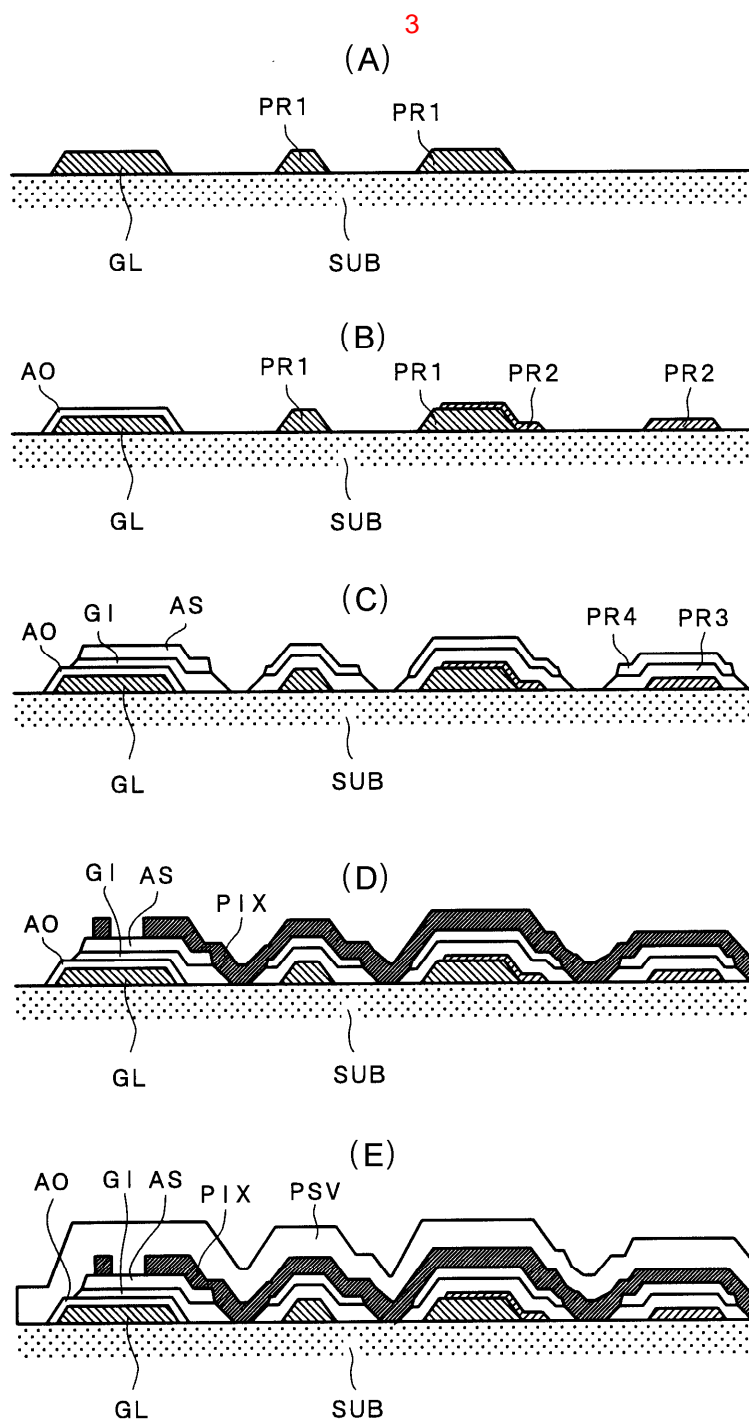
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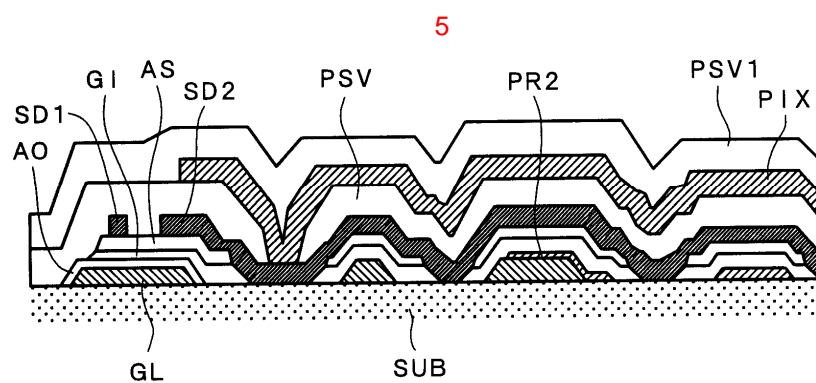
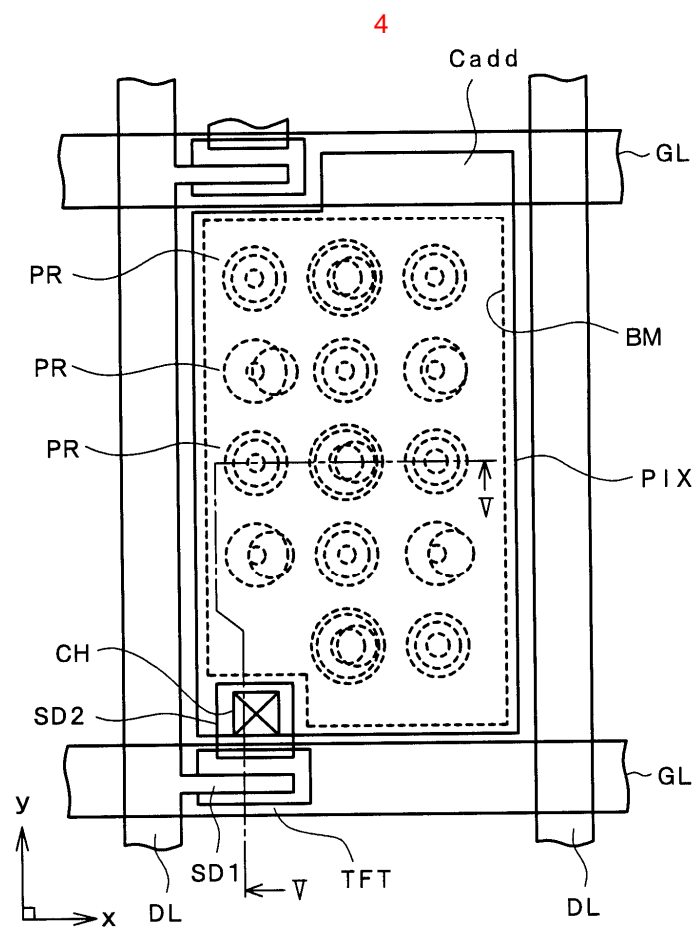
12.
1 2 ,

13.



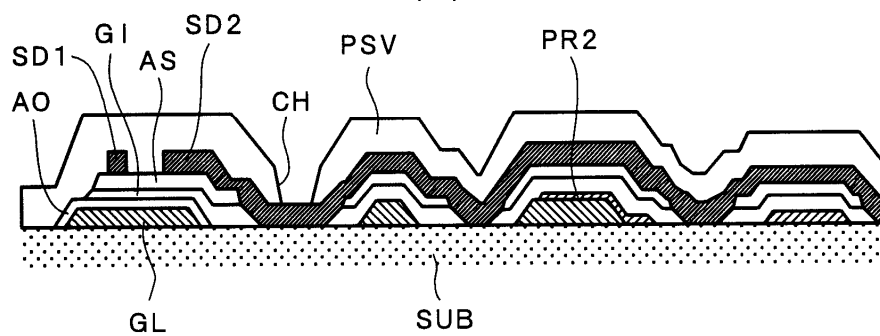




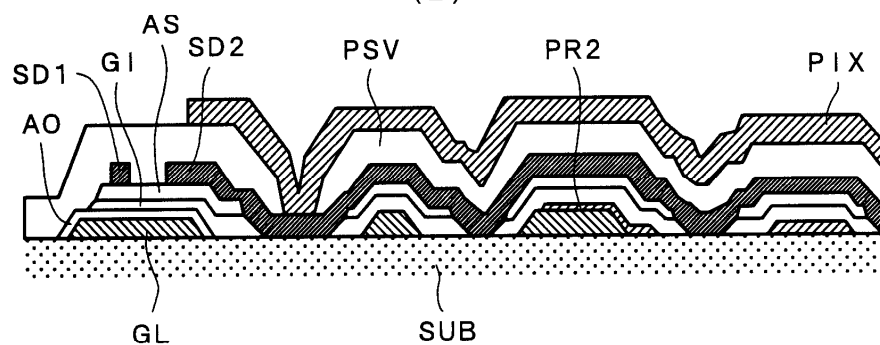


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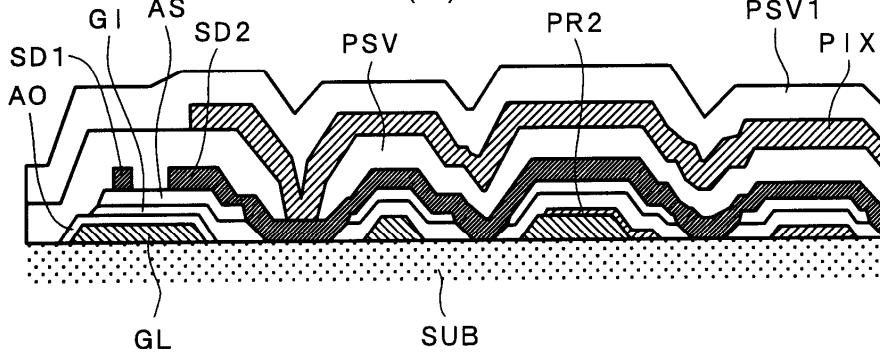
(A)



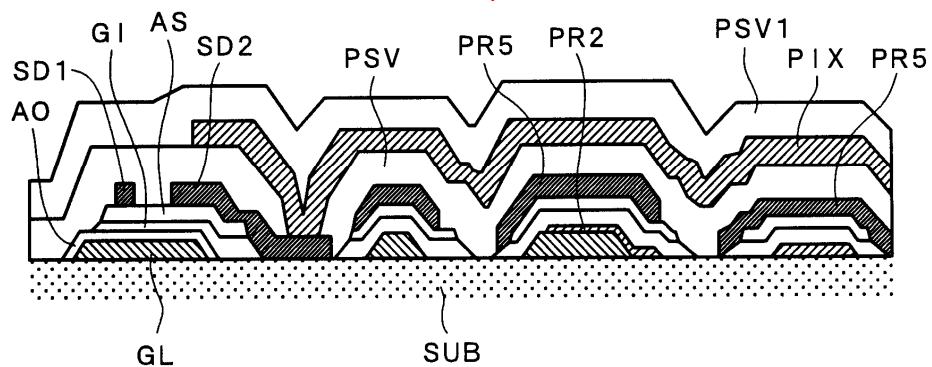
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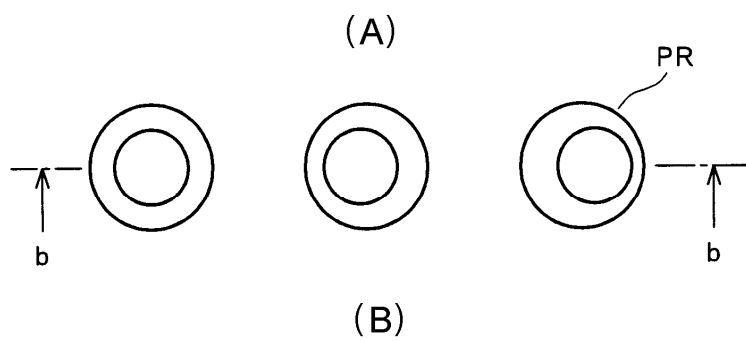
(C)



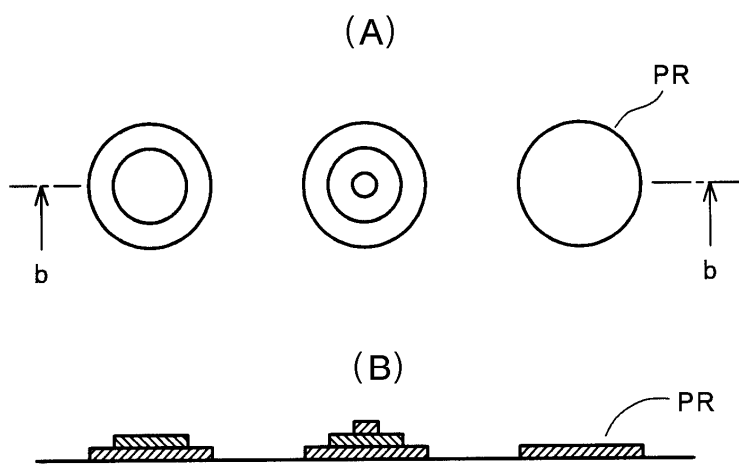
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