

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
H05B 33/00

(11)
(43)

2003-0068455
2003 08 21

(21) 10-2003-0008868
(22) 2003 02 12

(30) JP-P-2002-00034180 2002 02 12 (JP)

(71) 가 가 5 7 1

(72) 가 5 7 1 가 가

(74)

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(54)

EL , TFT (30) TFT (30) 가 (32) EL (40) (32)
(30) 가 (50) 30 () 가 .

1

EL , , , ,

1 1 EL ,

2 1 EL ,

3 1 EL ,

4 1 EL ,

) (21) , (10) (16 18) SiO₂ (60) (22), EL (24) (26)

(21) (18) (21)

(22) (28) TFT(20) (22) (21)

(30) EL (24) (22) (32) 가 (22) (26)

EL (30) (32) 가 (34) (30) (32) EL

(24) , (22) (16) (21)

13 EL , TFT (20) (21)

(22) 가, (22) (14) 가 , 가

TFT(20) , EL (24) (22) (26) (26)

13 EL , (21) 가 가 EL (24)

가 (21) , (22) EL (24)

EL (21)

(30) , 14 (21) , TFT (21)

32) 가 (30) 가 () TFT , (22) (26) (

EL , 가 (가) EL

EL

EL ,

EL , TFT ; TFT TFT TFT TFT

EL 가 (EL) 가 , 가 EL 30

EL , 30 , EL / EL

가

[1]

1 1 EL

EL (40) SiO₂ (60) SiO₂ (60) TFT (20)

TFT(20) SiO₂ (60) p (a-si) (80) / , a-si (80)
 (10), (14) (12) , TFT(2
 0) (30) EL (40) , SiO₂ (60)
) (26) (50), (10), (16 18), (22), EL (24
 SiO₂ SiN (50) (60) EL
 (40) 2 , EL (40) 가 .
 3 6 1 EL
 가 SiO₂ (60) , SiO₂ (SiN)
 3 , SiO₂ (50)

(4 p CVD , p (a-Si) ,
 (10a)), SiO₂ 1 (10a) a-Si , TFT(20) 1
 p a-Si (80) p a-Si (10a) 10nm 가 , n p a-Si (10a)
 , 90nm 가 2 (10b) SiO₂ CVD , p
 1 2 (10a 10b) TFT(20) ,
 (10b) (12) , (28) , 5
 , 1 (16) , (14) p
 , (10) 2 가 n (10) 50nm 가 ,
 (10)
 , 2 (18) CVD , ITO (22)
 (28) , 6

(30) , EL (40) (32)
 가 (26) 30 가 , 1 2 , EL (24)
 EL EL (40) EL (40) (50) , (50) 가
 EL (30) , TFT(20) EL (40) (50)
 0 , TFT(20) , TFT(20) EL (40) (50)

TFT (32) (30) 가
 20 가 (32) 가 EL (24) 30
 (26) (22) .
 TFT , , TFT
 TFT(20) , (61) TFT , 12a 12b , TFT
 , 1 , EL , TFT

[2]

7a 7b , 가 (50) . 7a 7b (61)
 2 가 . 1

12a 12b , TFT (30) (30)
 가 , 7a 7b 12a 12b (30) 가 (30) 가 (30)
 () 12a 12b 7b , 7a 7b 가 (30) 가 (30)
 7a 12b .

[3]

8 , 3 EL 1 2 (5)
 0) , 8 , () 30 가 30 가 . () 30
 . 8 () 30 (50) , 1 .

3 , 30 () 가
 (26) , 8 . 30 () (22)

9 11 EL , SiO₂ (60)
 a-Si (80) , 9 , SiO₂ CVD 1 (10a) p
 , TFT a-Si (80) , p a-Si .

2 (10b) (12) (28) . 1
 0 , 1 (28) (16) , (14) (28) . , 1
 , 2 (18) , (28) . , 11 , l
 TO , (22) .

30 (30) 가 가 (32)
 , 8 , EL (24) , 30 가 가 .
 , 8 , EL (24) (26) .

30 (30) (32) 가 EL (24)
 , (22) (26) .

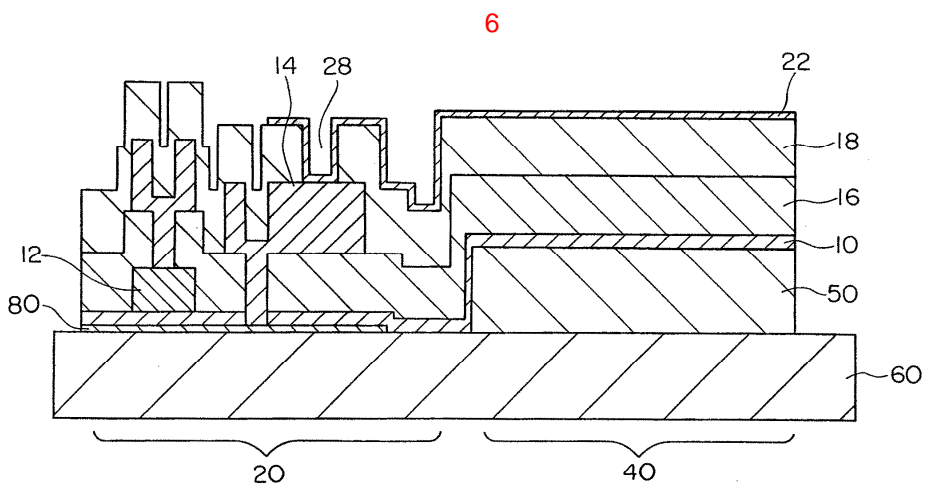
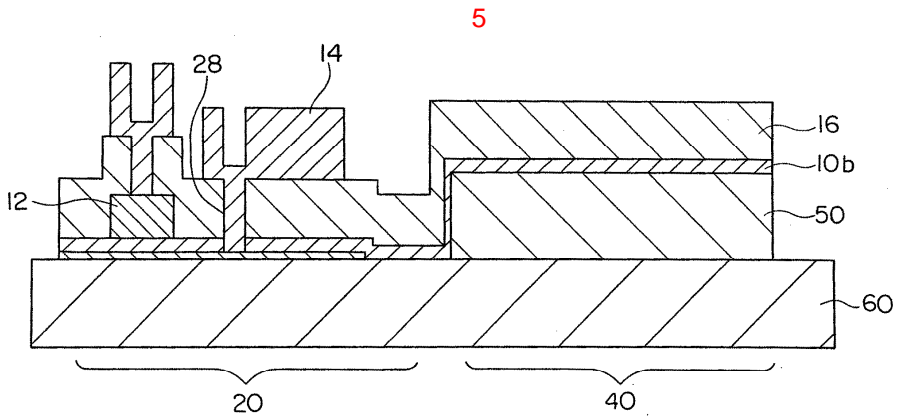
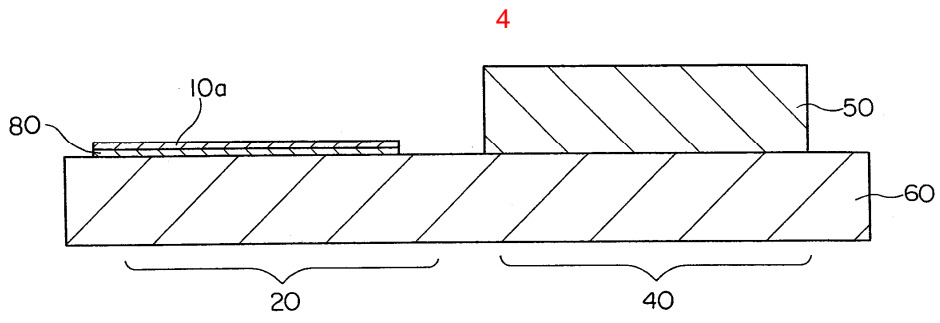
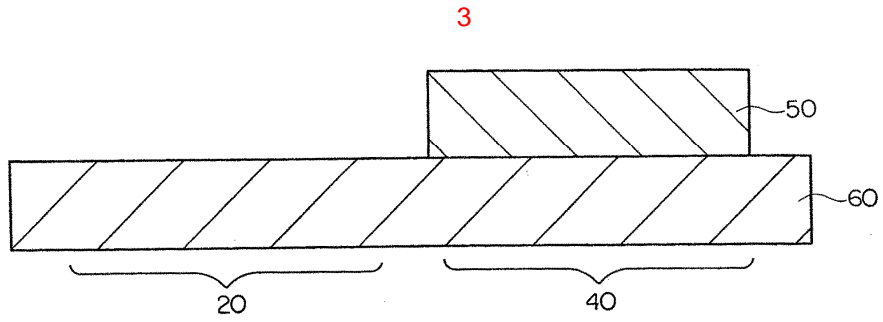
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EL (32) (30) 가
 20 20, 30, 50, 70 90 , 1 , 1
 가 . 90 .

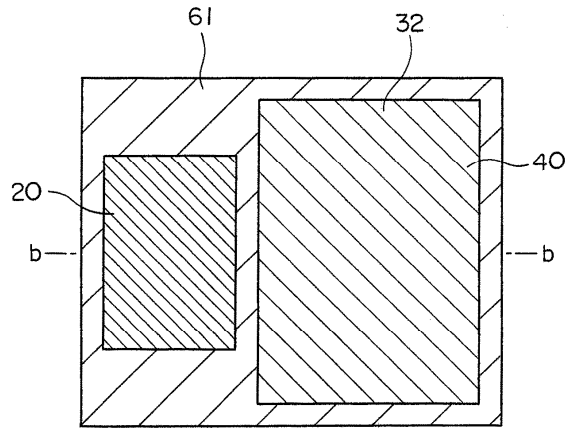
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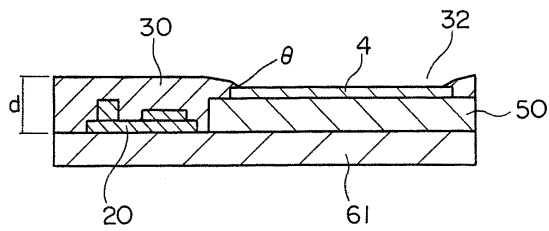
()		
90	20	0%
70	20	0%
50	10	50%
30	2	90%
20	1	95%



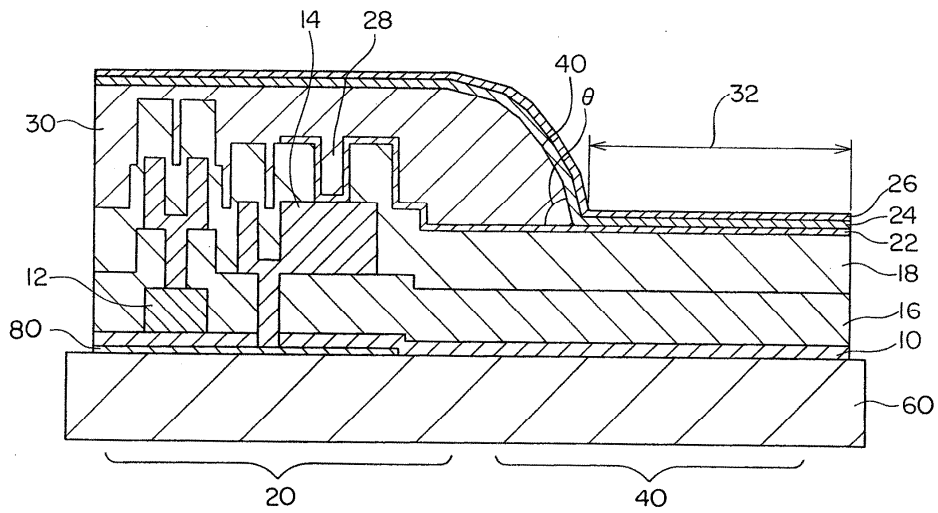
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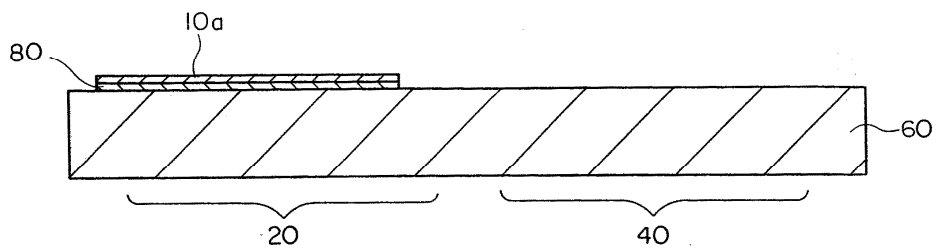
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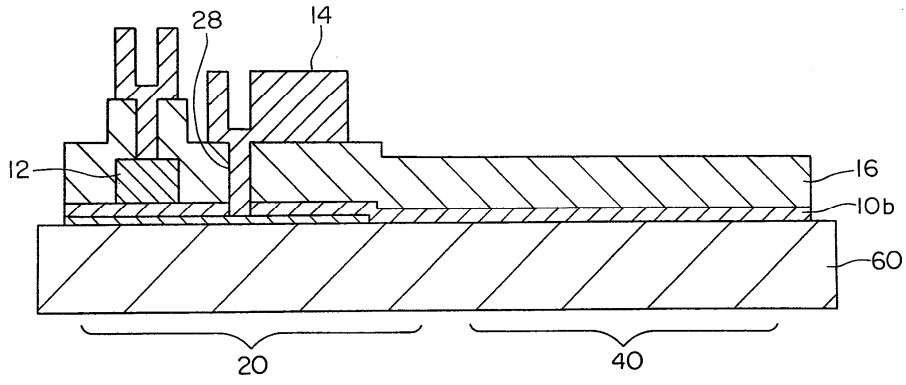
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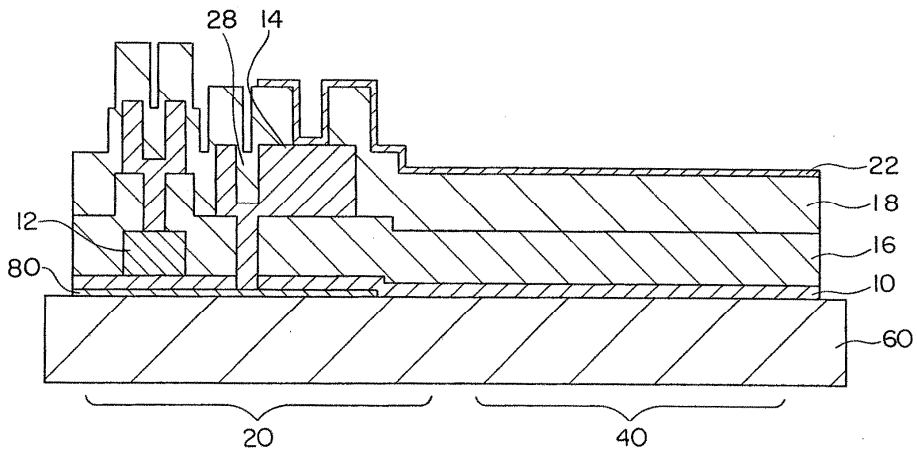
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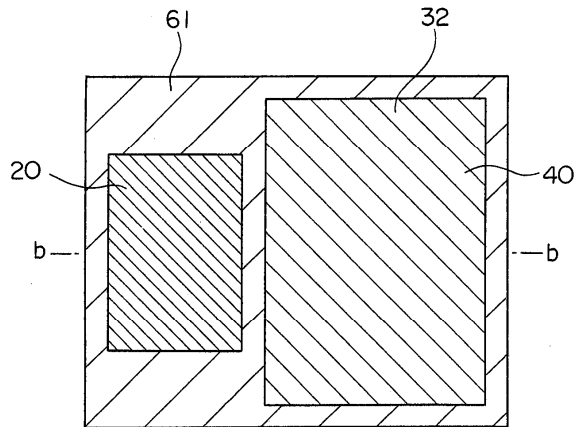
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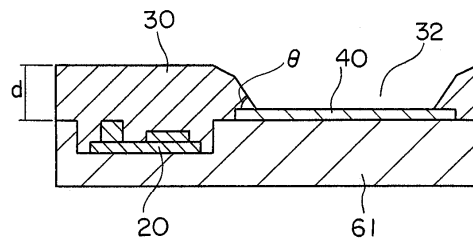
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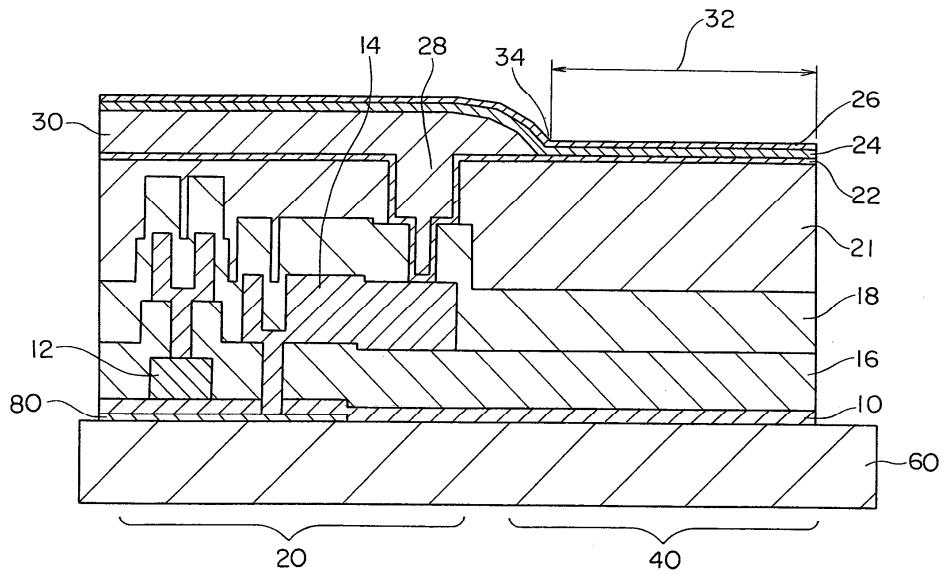
12a



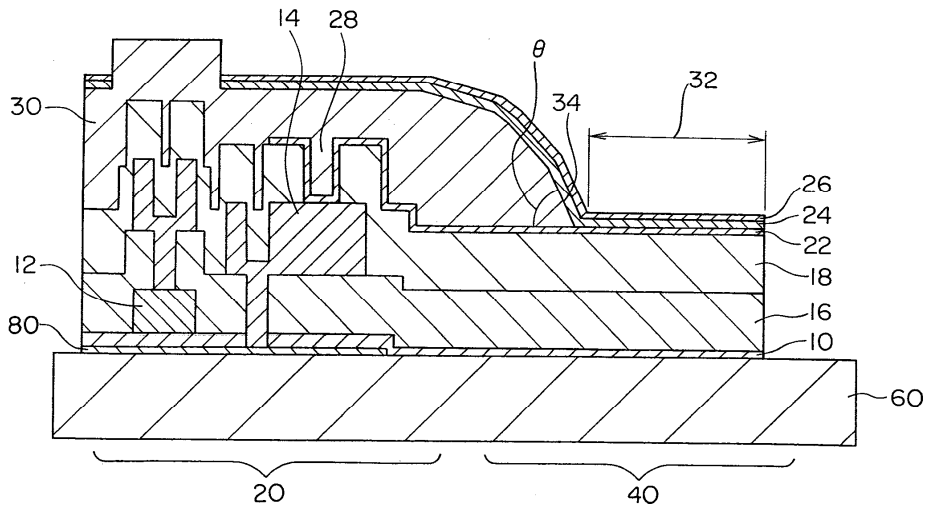
12b



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14



专利名称(译)	有机电致发光显示装置		
公开(公告)号	KR1020030068455A	公开(公告)日	2003-08-21
申请号	KR1020030008868	申请日	2003-02-12
申请(专利权)人(译)	三星SD眼有限公司		
当前申请(专利权)人(译)	三星SD眼有限公司		
[标]发明人	IGA DAISUKE		
发明人	IGA,DAISUKE		
IPC分类号	H01L27/32 H01L51/50 G09F9/30 H01L21/336 H05B33/00 H01L29/786 H05B33/22		
CPC分类号	H01L27/3246 H01L27/3258		
代理人(译)	PARK, 常树		
优先权	2002034180 2002-02-12 JP		
其他公开文献	KR100501707B1		
外部链接	Espacenet		

摘要(译)

有机EL显示装置各自包括TFT区域和发光区域。并且在玻璃基板上包括形成的多个像素。发光区域通过形成在边缘覆盖膜(30)上的窗口(32)暴露,边缘覆盖膜(30)覆盖TFT区域。与窗口(32)相邻的边缘覆盖膜(30)的边缘30的倾斜角度(θ)小于。通过在发光区域上形成的台阶缓冲层(50)获得该倾斜角放置有机电致发光显示器(40)和在跟部能量发生器之后。有机EL层,倾斜角,台阶缓冲层,后跟能量发生器,边缘覆盖膜。

