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H05B 33/10

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(22) 2003 03 28

(30) JP-P-2002-00095993 2002 03 29 (JP)

(71) 가 가 2 5 5

(72) 8-41-7

3 112-3

(74)

:

(54)

(1) , (130) , (130) (120) (1) (140)  
) EL (1) (2) (130) EL (1) ,  
가 (1) (300) ,

1

EL , , ,

1

1

EL

2	1	.		
3	1	EL	.	
4	1	EL	.	
5	1	EL	.	
6	1	EL	.	
7	1		EL	.
8	2		.	
9	2		EL	.
10	EL	.		
11	10 B-B	.		
12	EL	.		
13	EL	.		
14	EL	.		
15	EL	.		

< >

- 1 :
- 2 :
- 3 :
- 4 :
- 5 : 1
- 6 : 2
- 10 :
- 11 :
- 12 :
- 13 :
- 13c :
- 13d :
- 13s :

(Electro Luminescence : 「EL」 ) EL 가 CRT  
 LCD (Thin Film Transistor : 「TFT」 ) EL  
 10 EL (11) (51) , 11 10 B-B (52) TFT (51) TFT EL  
 (61) (52) (110) EL (10) SiO<sub>2</sub> SiN (10) TFT (1  
 0) (12), p-Si (Cr) (13) (11) (13) (14)  
 (13) (11) (13c) (13c) (13c) (14)  
 (11) (13s) (13d) LDD(Lightl  
 y Doped Drain)  
 (12), (13) (14) , SiO<sub>2</sub> , SiN SiO<sub>2</sub>  
 (15) (13d) Al (17)  
 (16) (17) (13s) (18) , EL (61) (13  
 s) ITO(Indium Tin Oxide) (61) EL (60) (1  
 7) (61) EL (60) (61), MTDA  
 EL (60) , ITO(Indium Thin Oxide) (61), MTDA  
 TA(4, 4-bis(3-methylphenylphenylamino) biphenyl) 1 , TPD(4, 4, 4-tris(3-methylph  
 enylphenylamino)triphenylamine) 2 (62), (Quinac  
 ridone) Bebq2(10- [ h ] - ) (63), Bebq2  
 (64), (65)  
 EL (60) (61) (65) 가 가  
 (61) 가  
 11-283182  
 EL (60) (62), (63), (64) EL (耐溶  
 劑性) EL (60) (62), (63), ( (

12, EL 100, 101, 12, 15, 109, (100) (Ni), (Fe<sub>64</sub>Ni<sub>36</sub>)  
 (109) (109) (111) (111) (111) (111)  
 (112)가  
 (109) 130 (120) (111) (120)가 가  
 140 (111) (111) (111) 가  
 12, (100) (101) (111)  
 (130) (120) (111)  
 13, (130) (111)  
 14, (120) (130)  
 (111) (120) (130)  
 15, (140) (130)  
 EL, (65) ( ) (111) (112) (140) (130)  
 가 가 가 가 가  
 (111) (120) (130) EL (60)  
 , ITO (61) (62), (63), (64)  
 EL (60) (62), (63), EL  
 (64) 가  
 EL, R, G, B, R, G, B  
 가  
 EL EL  
 EL EL

1 9 13 1 7 1

(100) (130) (120) (111)

(100) (140, 141) (140, 141) (130) (130) 1

(140) (130) (141) (130)

(140) (141) 가 (130)

11 TFT, (15), (17), ITO(Indium Tin Oxide)

(61) (61)

1 (100) (101) (120) (111)

(130)

3 (130) (111)

4 (120) (130) (130)

(111) (120)

5 (140) (111) (112) (130) (130)

(140) 2

EL

6 (140) (130) (141)

(111) (112) (130)

(141) (130)

2 (140, 141) (130)

(120)

(111)

7 2 ITO EL 1 (3)

(5) (3) 3 (4) 1 (5)

1 (5) 2 (6)

(4) 1 (5) EL

R, G, B EL R, G, B

2 8 9 8 (300) (301, 302, 303, 304, 305) (300)

(130) (3) (130) (302) (301)

(130) (303) G R

(130) (130) (304) B

(305)

(301, 305) , (150, 157) , R, G, B 3 (302, 30  
3, 304) 가 , 2 (151, 152), (153, 154), (155, 156) , 1

9 EL 9 , R , G ,  
B EL (70, 80, 90) , TFT  
R EL (70) , (71) (3) , (72) (73)  
81) (3) , (82) (6) , G EL (80) (  
(6)

, B EL (90) , (91) (3) , (92) (93)  
, R, G, B , R, G, B

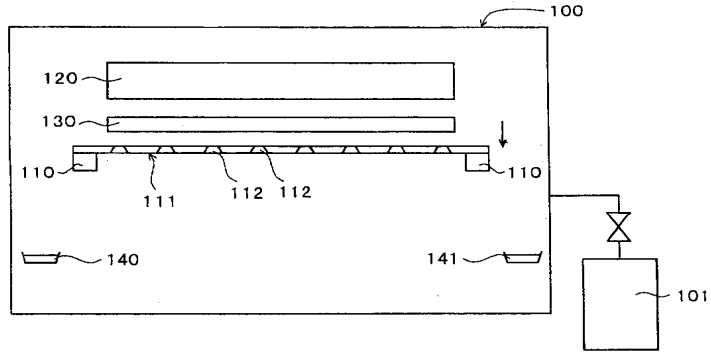
, 3 2 , 3 , 2 ,

가  
EL R, G, B , EL EL

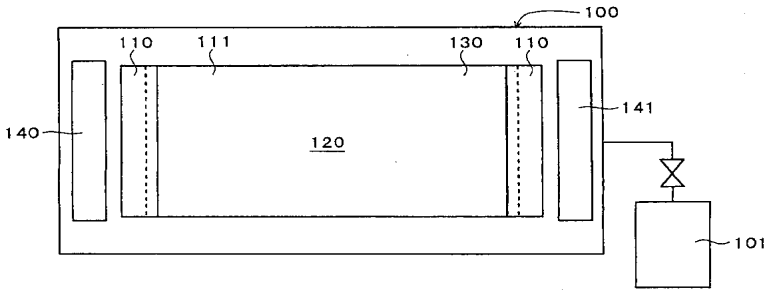
- (57)
- 1.
- 2.
- 1 EL
- 3.
- EL EL
- EL

4.  
 3 ,  
 ,  
 5.  
 R, G, B EL 1, 2 3 ,  
 1 , 1 , 1 EL ,  
 , R EL ,  
 2 , 2 ,  
 EL , G EL ,  
 3 , 3 ,  
 EL , B EL ,  
 3

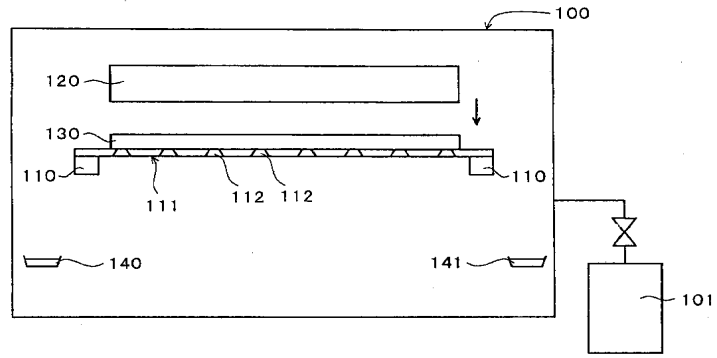
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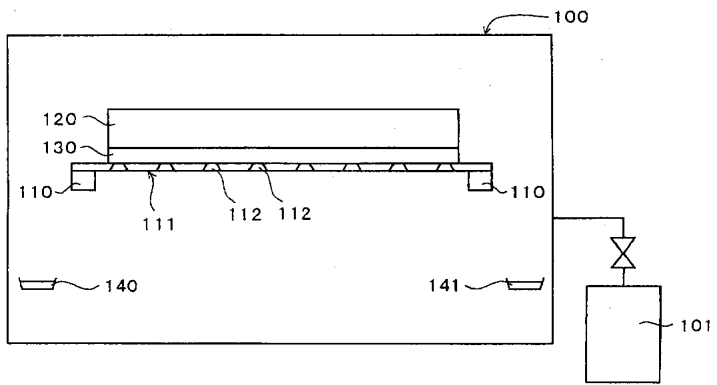
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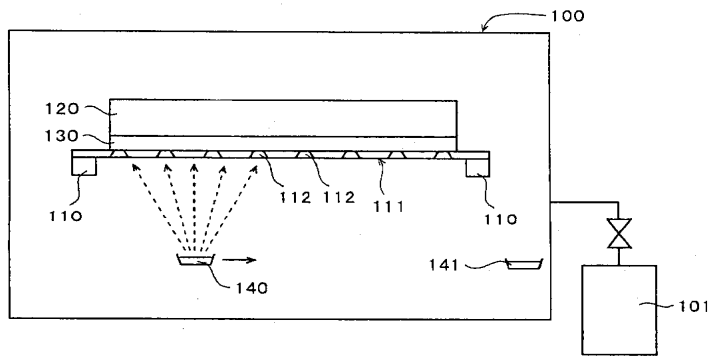
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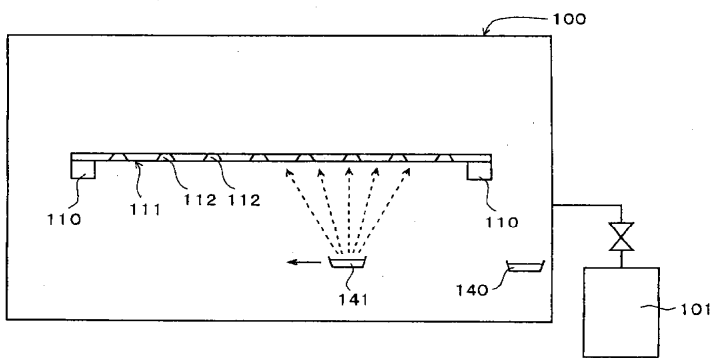
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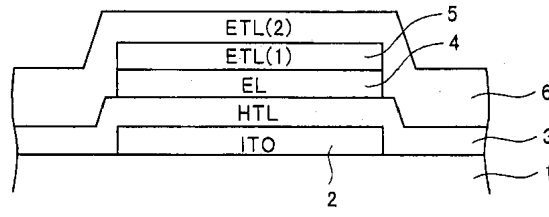
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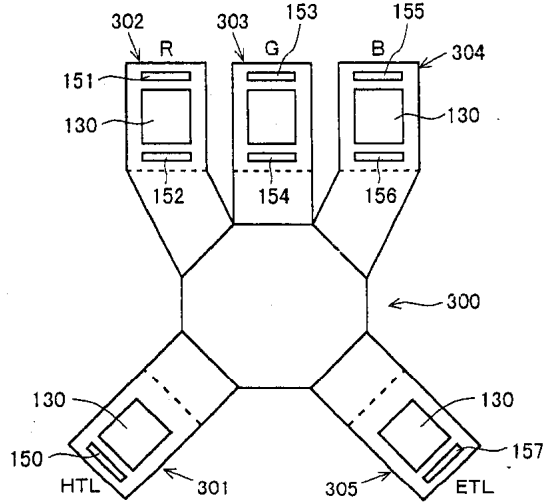
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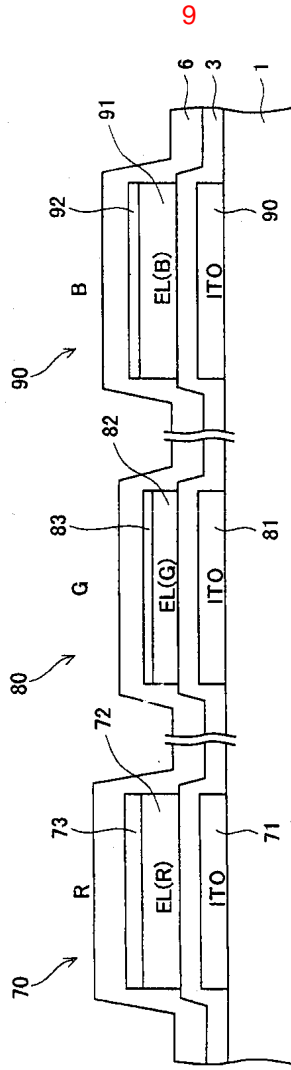


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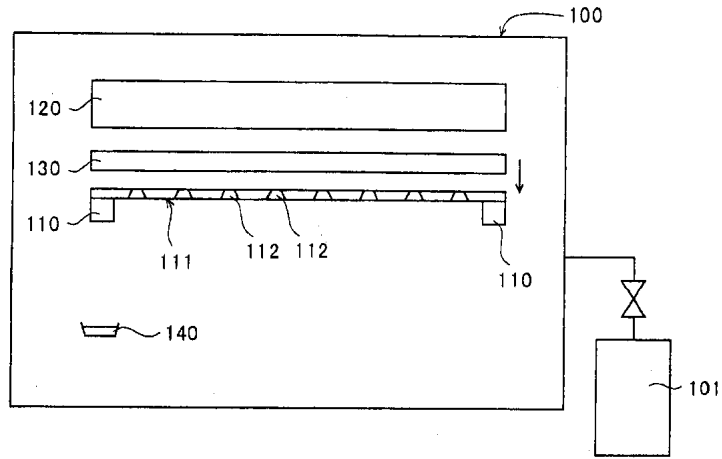
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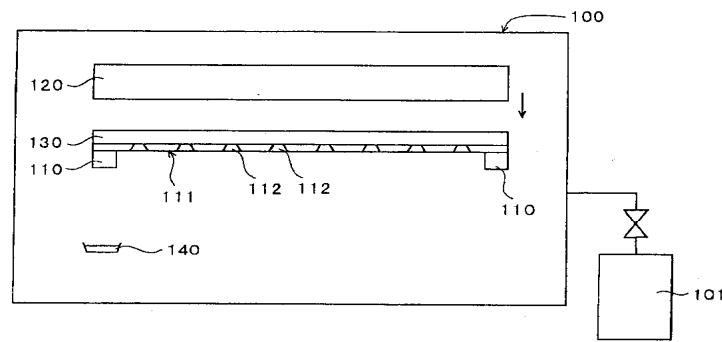




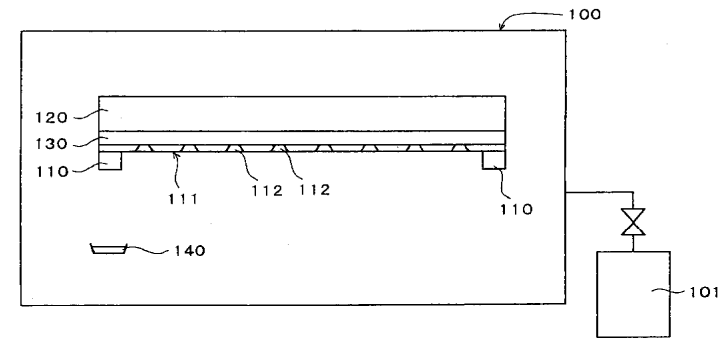
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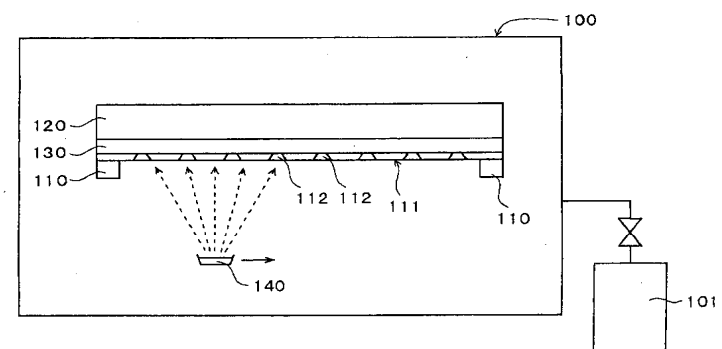
13



14



15



专利名称(译)	显示装置的沉积方法和制造方法		
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申请号	KR1020030019461	申请日	2003-03-28
[标]申请(专利权)人(译)	三洋电机株式会社 山洋电气株式会社		
申请(专利权)人(译)	三洋电机有限公司是分租		
当前申请(专利权)人(译)	三洋电机有限公司是分租		
[标]发明人	NISHIKAWA RYUJI 니시카와류지 YAMADA TSUTOMU 야마다쯔또무		
发明人	니시카와류지 야마다쯔또무		
IPC分类号	H01L51/40 H05B33/10 C23C14/04 C23C14/12 H01L51/56 C23C14/24 H01L27/32 H01L51/00		
CPC分类号	H01L51/56 C23C14/12 H01L27/3244 H01L51/0013 H01L51/001 C23C14/042 C23C14/24 H01L27/3211		
代理人(译)	LEE , JUNG HEE CHU , 晟敏		
优先权	2002095993 2002-03-29 JP		
其他公开文献	KR100555262B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

在沉积过程中，控制阴影掩模对基板表面的损坏。玻璃基板（130）插在由磁铁（120）和磁性材料组成的荫罩（1）之间。玻璃基板（130）和阴影掩模（1）紧密粘合。有机电致发光显示材料的沉积是从蒸发源（140）通过玻璃基板（130）表面中的阴影掩模（1）的开口部分（2）进行的。以这种方式，执行有机电致发光显示器的图案形成。在荫罩（1）的面向玻璃基板（300）表面的一侧的表面中，进行结节化。有机电致发光显示器，阴影掩模，磁铁，玻璃基板。

