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(22) 2003 03 03

(30) JP-P-2002-00056260 2002 03 01 (JP)

(71) 가 가 2 5 5

(72) 8-41-7

(74)

:

(54)

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

1

, EL , EL , ,

1 EL .

2 EL .

3 (1) .

- 4 (1)
- 5 (1)
- 6 (1)
- 7 (1)
- 8 EL
- 9 8 B-B
- 10 EL
- 11 EL
- 12 EL
- 13 EL

- 1 :
- 2 :
- 3 : (1)
- 4 :
- 120 :
- 130 :
- 131 :
- 132 :
- 140 :

가

(Electro Luminescence: 「EL」) EL 가, CRT L

CD (Thin Film Transistor: 「TFT」) EL

8 EL , 9 (a) 8 A-A

, 9 (b) 8 B-B

8 9 , (51) (52) (115)가

(115) , EL (60) , EL (60)
TFT(30) EL (60) TFT(40) ,
EL (60) , 1 (61) , 2 (63)

(51, 52) TFT 1 TFT(30)가 TFT(30) (33
s) (54) (55) , EL TFT 2 T
FT(40) (41) , 2 TFT (43s) EL (60) (61) ,
(43d) EL (60) (53)

(51) (54) (54)
(12) TFT (33s) (55)
(56) , 2 TFT(40) (41) 가

9 , EL (10) , TFT EL (10) SiO₂ SiN (10)
1, 2 TFT EL TFT ,

TFT 1 TFT(30)

9 (a) (10) ,
(, 「a-Si」) CVD , a-Si
(, 「p-Si」) (33) , SiO₂ , SiN
(32) , Cr, Mo (31)
(51) Al (52) , EL
Al (53)

(32) (33) , SiO₂ , SiN SiO₂
(15) , (33d) Al (36)
(17)

EL TFT 2 TFT(40) 9 (b) ,
(43), (12), Cr, Mo (10) , a-Si
(43) , (43c) , (43s) (41)
(12) (43) , SiO₂ , SiN SiO₂ (15)
(43d) Al (53)
(17)

(43s) , ITO (17) (43s) EL (61) , (17)
(61)

EL (60) , ITO() , MTDATA(4,4-bis(3-methylphenylamino)biphenyl) (62), (Quinacridone)
anane) 2 , TPD(4,4,4-tris(3-methylphenylphenylamino)triphenyl
Bebq2(10- [h]) , Bebq2 (6
4), (65)

EL (60) , (61) , (65) 가

가 . 가
 (61)
 11-283182
 EL (60) (62), (63), (64) EL
 EL (60) (62), (63), (64)
 EL (100) (101) (100) (11) (110) (Ni) (Fe₆₄Ni₃₆) (111)
 (112)가 (111)가 (111)
 (110) (111) (120)가 가
 (130) (120) (111) (111) 가
 (140) (111) (111) 가
 10 (100) (101)
 (130) () (120) (111)
 11 (130) (111)
 12 (120) (130)
 (111) (120) (130)
 13 (140) () (130)
 (111) (112) (130)
 (140) 13 가 (130) (130) E
 가
 (120) (130) EL (60)
 (111)
 가 (130) 가 EL (60)
 (130) (111) (130) (111) (120)
 (130) (111) (130) (130) (111)
 (130) 가 (130)
 (130) (111) 가 (130)
 가

가
 가 10 μ m
 가
 가
 EL 1 9 13
 (1) 10 13
 가 1 13 (1)가
 (120) (65) (130) (140) (1) (2) (130) EL
 (60) (131)
 (130) 9 TFT, (15),
 17), ITO(Indium Tin Oxide) (61)
 (1) (130) (3) 가
 가 (1) (130) 가 (130)
 (111) (130) (120) (111) (130) (111)
 111) (130) (130)
 가 (1) (3) 가
 가 (130)
 가 (1) (3) h 10 μ m
 (1) (130)
 (100) 가 가 (130) (130)
 (130) 가 가
 (1) (130) (132) (1)
 (140) (1) (2) (140)
 EL (1) (140) (140) (1)
 (65) (12) (130) (4) (4)
 (1) (4)

(130) 가 (4) EL (60) (131) (140) 가 (60) EL (60)

가 2 (1) (140)

(1) 가 (4) (1)

3 (65) (1) EL (1) (62), (64) (2A)가

(2A) (1) () 가

4 (1) EL (1) (63) D, R, G, B () 가 (

2B)가 (2B) (1) () 가 (

(1) (Ni) (Fe₆₄Ni₃₆) 5 7 5

(2) (5) (1) (3)

(6)가

7 6 (5) (5) (1)

(7) 가 (1) (2)

(2) (130) (130) (2)

(130)

가

가 가

가

(57)

1.

(粗面化) 가

2.

1 ,

(高低差)가 10 μ m

1 3. ,

가

1 4. 3 ,

1 5. 3 ,

6.

, EL , EL

가

6 7. ,

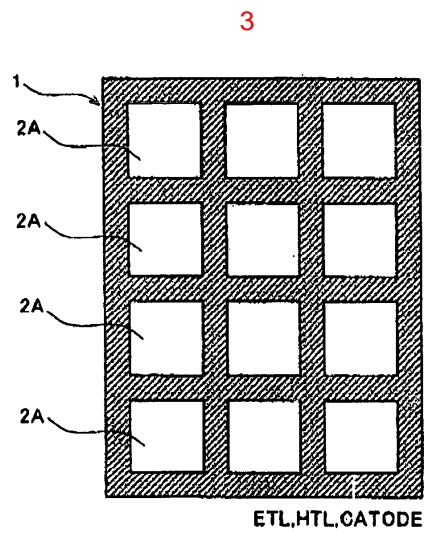
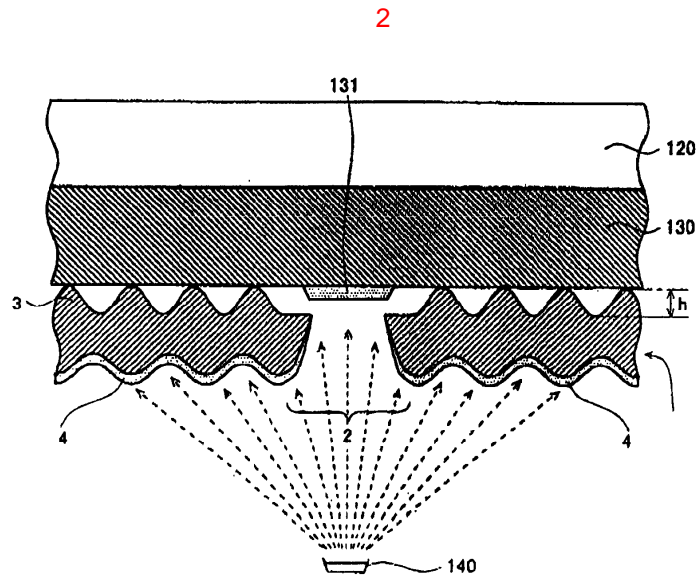
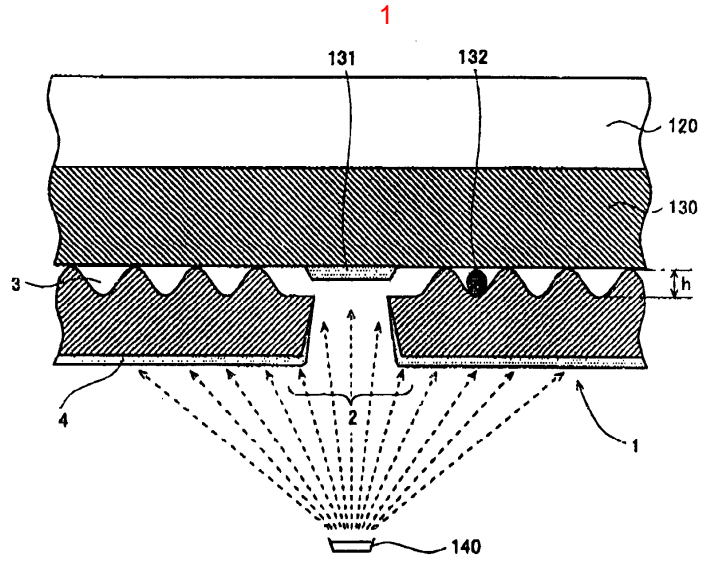
가 10 μ m

6 8. ,

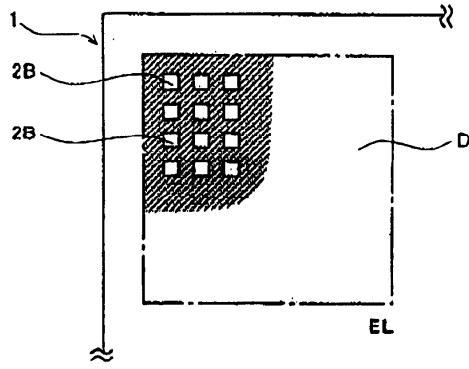
가

6 9. 8 ,

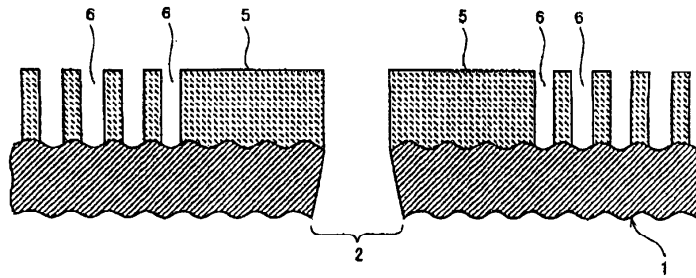
6 10. 8 ,



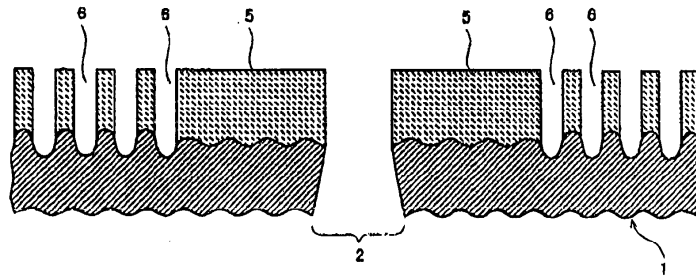
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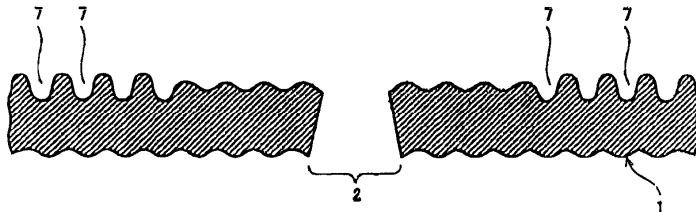
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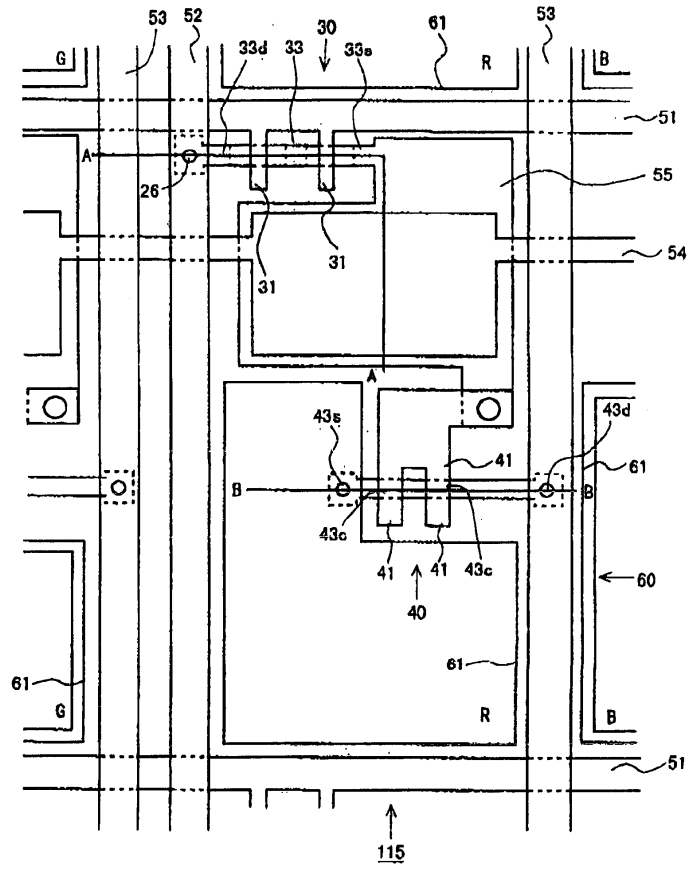
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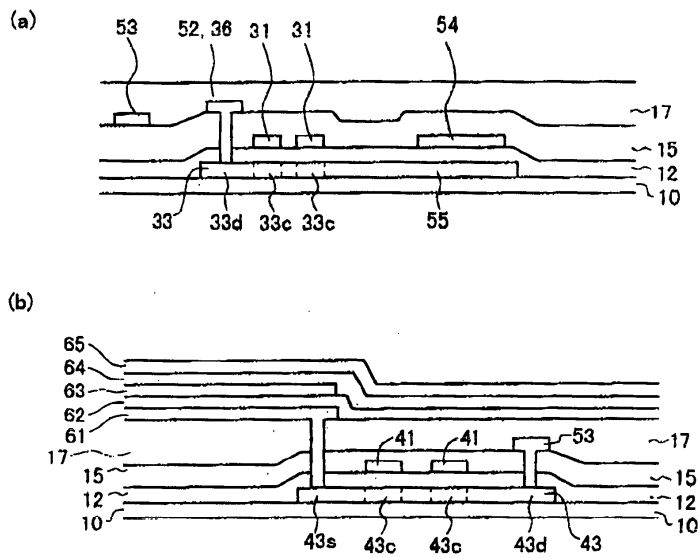
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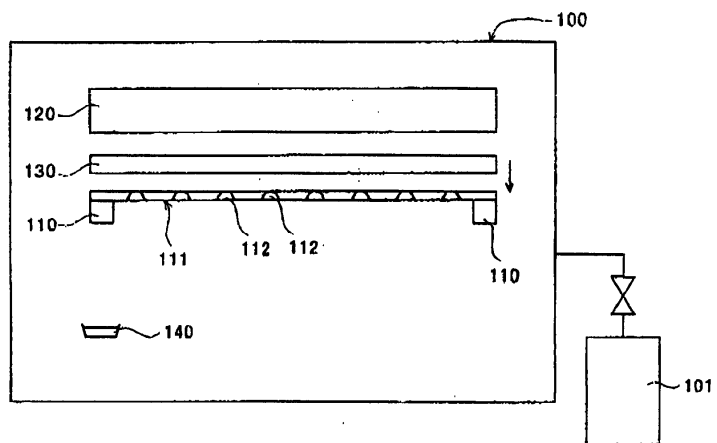
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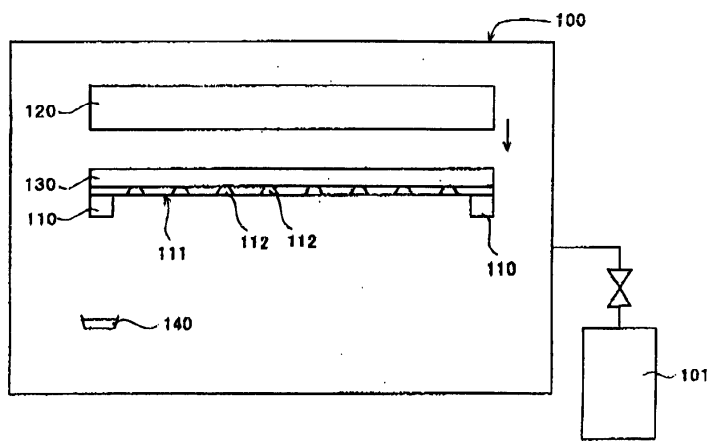
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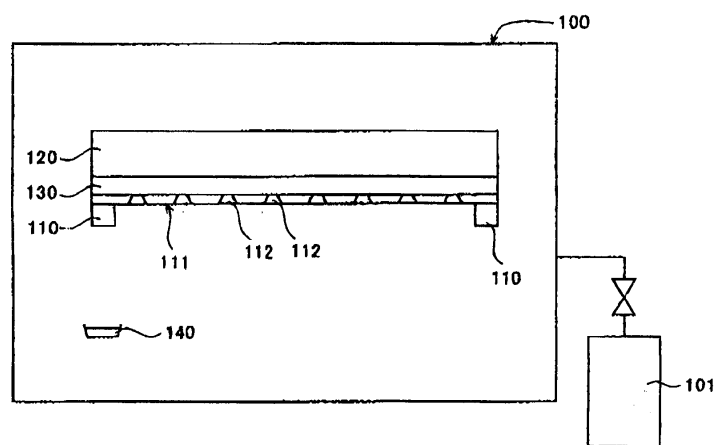
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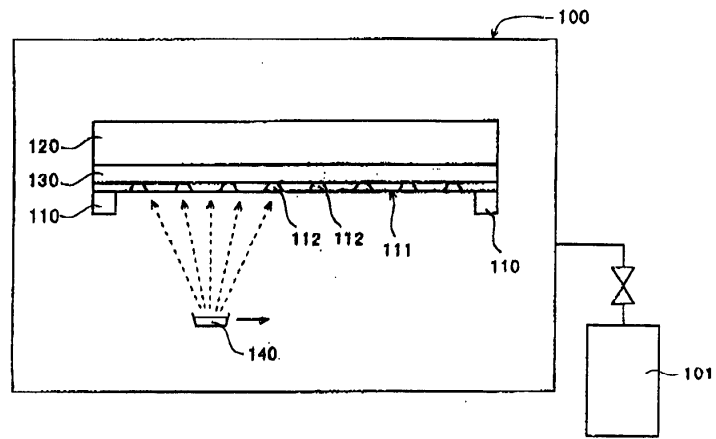
11



12



13



专利名称(译)	显示装置的沉积方法和制造方法		
公开(公告)号	KR1020030071651A	公开(公告)日	2003-09-06
申请号	KR1020030013100	申请日	2003-03-03
[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		
发明人	NISHIKAWA,RYUJI		
IPC分类号	H01L51/40 H01L51/50 C23C14/24 H05B33/10 C23C14/04 C23C14/12 H01L51/56		
CPC分类号	H01L51/56 H01L51/001 C23C14/042 C23C14/12		
代理人(译)	LEE , JUNG HEE CHU , 晟敏		
优先权	2002056260 2002-03-01 JP		
其他公开文献	KR100522074B1		
外部链接	Espacenet		

摘要(译)

在气相沉积工艺中，目的是通过荫罩抑制基板表面的损坏。玻璃基板130夹在磁体120和由磁性材料制成的荫罩1之间，并且玻璃基板130和荫罩1彼此紧密接触。有机EL元件材料从蒸发源140通过荫罩1的开口2沉积在玻璃基板130的表面上，以形成有机EL元件的图案。荫罩1的面向玻璃基板130的表面的表面被粗糙化。1 指数方面 磁铁，有机EL器件，EL沉积掩模，玻璃基板，

