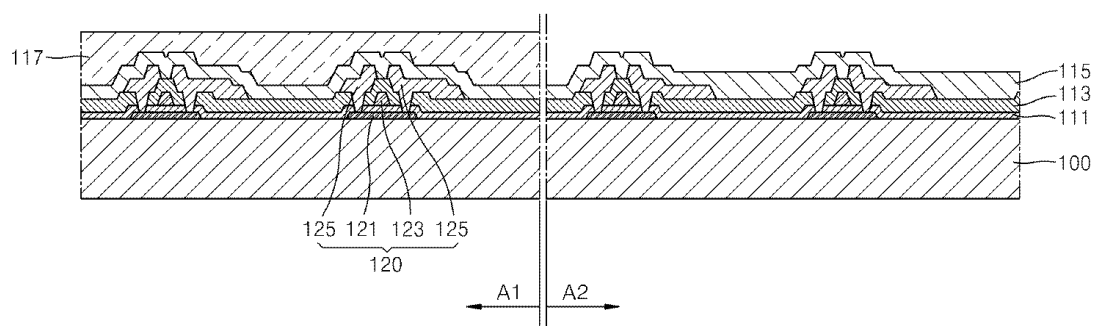


	(19)	(KR)	(45)	2010 04 21
	(12)	(B1)	(11) (24)	10-0953541 2010 04 12
(51)	Int. Cl.		(73)	
	H05B 33/10 (2006.01) H01L 51/56 (2006.01)			24
(21)	10-2008-0057486		(72)	
(22)	2008 06 18			
	2008 06 18			
(65)	10-2009-0131553			575
(43)	2009 12 29			
(56)				575
	KR1020060001746 A			
	KR1020050113039 A			575
			(74)	
	:	9		:

(54)

(57)

1 2 , (a)
, (b) 1 2 , (c)
1 2 , (d)
2 ,
, (e)
, (f)



1

(a) ;

(b) ;

(c) 1 2 ;

(d) 1 2 ;

(e) ;

(f) 2 , . ;

2

1 , (c) 1

, 1 2 2 3 , 2 3 , (f) .

3

2 , 1 3 , 2 .

4

2 , 2 1 .

5

1 , (a) ,

(d) .

6

1 , .

7

1 ,

.

8

1 ,

2

.

9

1 ,

1

, 2
.

[0001]

,

.

[0002]

.

,

/

.

[0003]

,

,

,

.

.

,

,

.

[0004]

,

.

[0005]

(a)

, (b)

, (c)

1 2

, (d) 1 2
, (e)

, (f)

2 ,

.

[0006]

, (c)

1 , 1 2 2 3
2

(f)

3

[0007]

, 1 3 ,
2 .

[0008]

, 2 1

.

[0009]

, (a)

(d)

,

.

[0010]

,

.

[0011]

, .

[0012]

, 2 .

[0013]

,

.

[0014]

,

.

[0015]

1a 1h

.

[0016]

1a (A1) (A2) (100) (115)
.(100)

.

, (100)

.

/

(115) (100)

, (100) (115)

.

[0017]

, (115) (100) 1a
(120) . (120) (121) , (121)
(121) , (121) (121) /
(125) . (121) (120)
(111) / (113) . (115) (120)

.

[0018]

(115) , 1b (100) (A1)
(100) (A1) (115) (117) .
(117) ,
(117) (A2) , (A2)
(100) ,
(A2) (117) (A2)

- [0019] (A1) (117) , 1c (A1)
 (117) (115) (117a) (115) (120) /
 , (A2) (115) (117a)
 (115) (120) /
 (A1) (A2) (117a)
 , (A1) (A2) (117a) 1
- [0020] , 1c (117) (117) (117)
 (115) 1 (1311a) 2 (1312a) , (100) (A1)
 (117) 1 (1311a) 1 (1311a) 2 (1312a) ,
 (A2) (115) 1 (1311a) 1 (1311a) 2 (1312a)
 1 (1311a) , IT0, IZ0, In₂O₃
 2 (1312a) Mo, W, Al, Cu, Ag /
 1 (1311a) 2 (1312a)
- [0021] 1 (1311a) 2 (1312a) , 1 (1311a) 2 (1312a) 1e
 (100) (A1) (100) (A2) (131)
 , (A2) 131
- [0022] (131) , 1f (131) (100)
 (A1) (118) (118) ,
 (100) (A2) (131) 2 (1312) (118) ,
 1g 1d 1 (1311a) IT0, IZ0,
 In₂O₃ , 2 (1312a) Mo, W, Al, Cu, Ag /
 , 1 (1311a) 2 (1312a)
 1f ,
 (A2) 2 (1312) 1 (1311)
 , 1g (100) (A1) (131) 1
 (1311) 1 (1311) 2 (1312) , (100) (A2)
 (1311) 1
- [0023] ,
- [0024] (100) (A1)
 (A2) (131) 1 (1311)
 2 (1312) , (A2) (131)
 2 (1312) , (A1)
 (131) (A2) (1311)
- [0025] ,
 1h , (131, 1311)
 (131, 1311)
 (119) (119) ,
 , (131, 1311) (132) ,
 (133) , 1h (1310, 1320)

- [0026] (1310, 1320) (132) (HIL: Hole Injection Layer), (HTL: Hole Transport Layer), (EML: Emission Layer), (ETL: Electron Transport Layer), (EIL: Electron Injection Layer)
(CuPc: copper phthalocyanine), N,N- (-1-)-N,N'- (N,N'-Di(naphthalene-1-yl)-N,N'-diphenyl-benzidine: NPB) , -8- (tris-8-hydroxyquinoline aluminum)(Alq3)
(HTL) (EML)
(Polyfluorene) PEDOT , PPV(Poly-Phenylenevinylene)
(132) ,
- [0027] (133) , Li, Ca, LiF/Ca, LiF/Al, Al, Ag, Mg IT0, IZO, ZnO In₂O₃
(133)
- [0028] (131) (A2) (1311) (A1)
- [0029] 2a 2c
- [0030] 1c
(117) (117) (117) (115)
1 (1311a) 2 (1312a) ,
(117) (117) (117)
(115) 1 1 2 2 3
, 3 1 /
2a (100) 1 (1311),
2 (1312) 3 (1313) (131)
(131) (100) (A1)
(118) (118) , (100) (A2)
(131) 2 (1312) 3 (1313) (118) , 2b
- [0031] 2a (131) (100) (A1)
(118) (118) , (100) (A2)
(131) 2 (1312) 3 (1313) (118) , 2b
- [0032] 2a 1 (1311) 3 (1313) IT0, IZO, In₂O₃ , 2
(1312) Mo, W, Al, Cu, Ag / ,
1 (1311a) 2 (1312a) 2a
, (A2) 2 (1312)
2 (1312) 3 (1313) 1 (1311) .
1 , 2 3
, 2 (1312) 1 (1311)
1 (1311) 2 (1312) 1 (1311)
3 (1313) 1 (1311)
- [0033] 2b (100) (A1) (131) 1
(1311) 1 (1311) 2 (1312) 2 (1312) 3 (1313)
, (100) (A2) (1311) 1

[0035]

[0036]

[0037]

[0038]

[0039]

[0040]

[0041]

[0042]

[0043]

[0044]

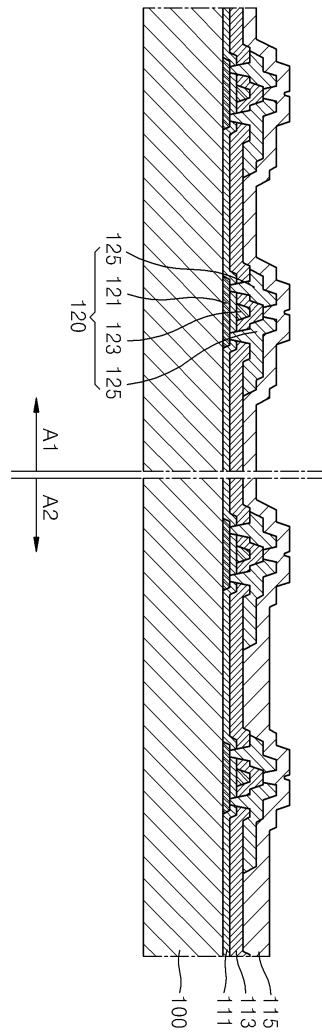
[0045]

[0046]

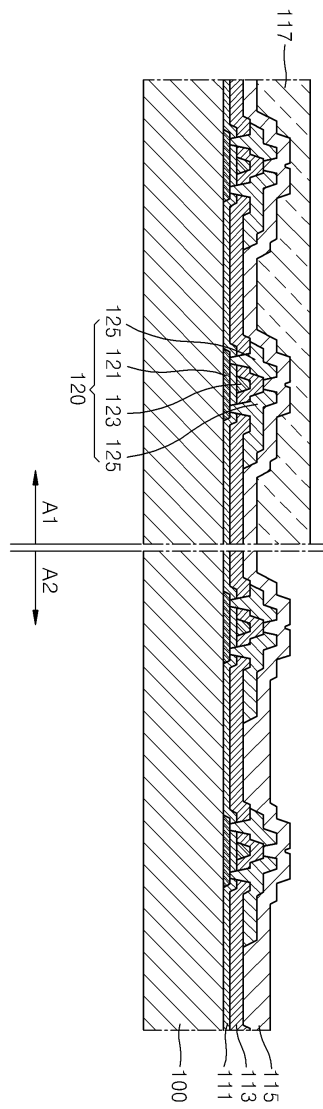
[0047]

[0048]

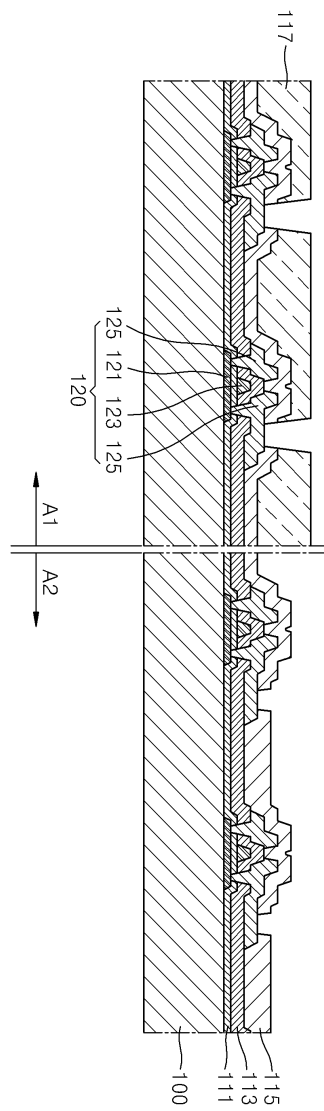
1a



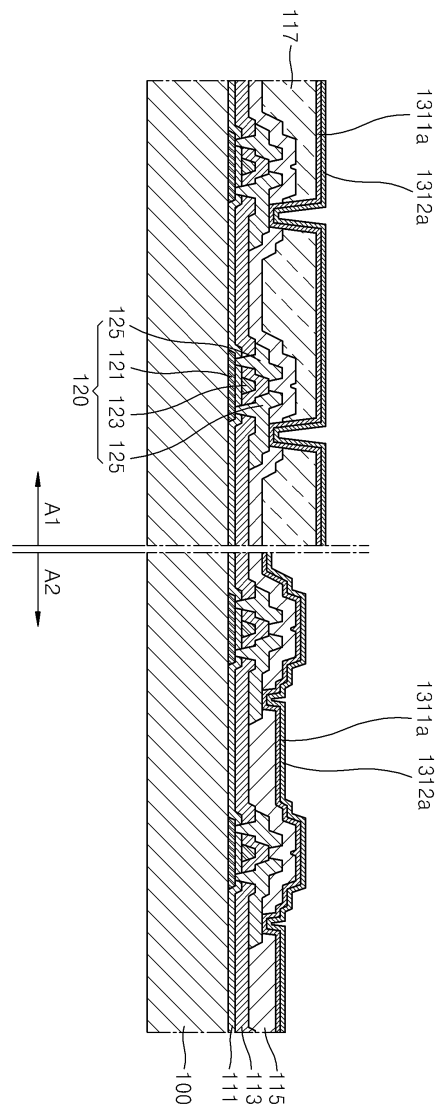
1b



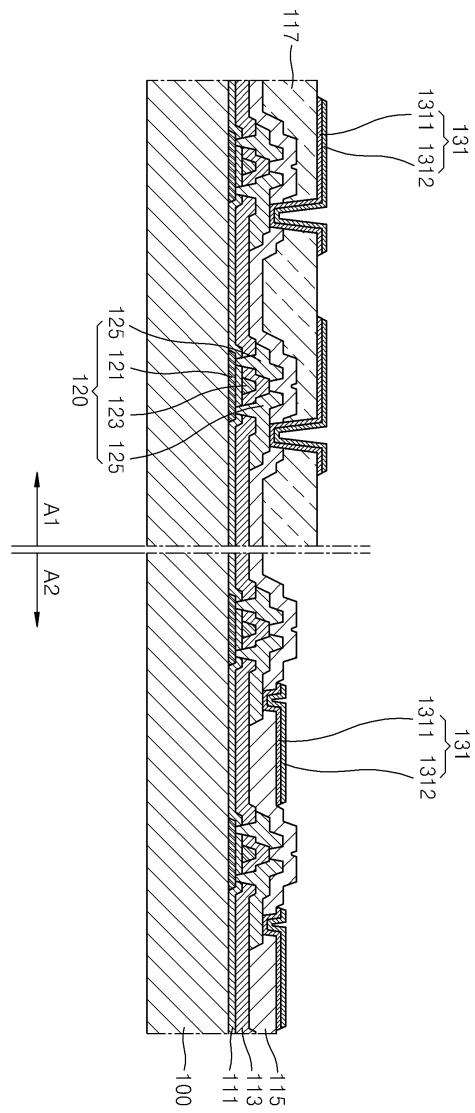
1c



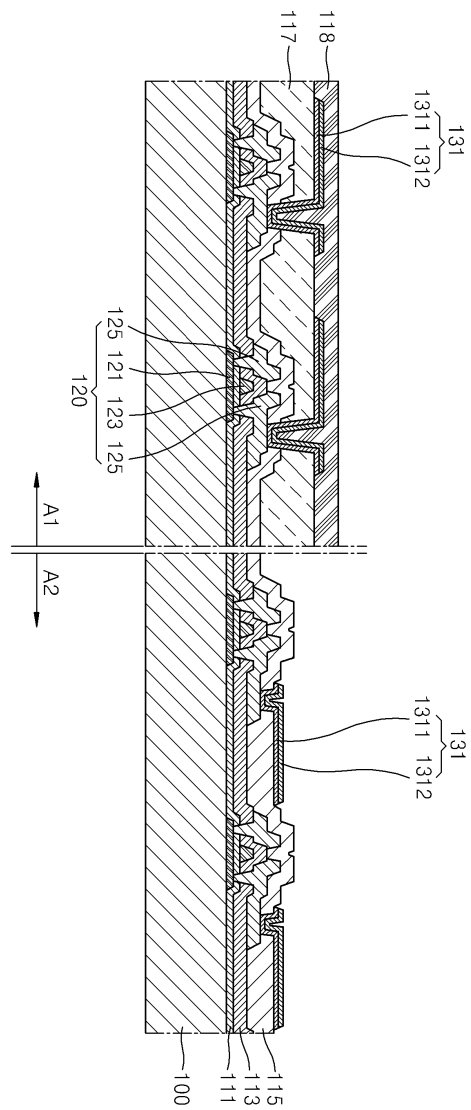
1d



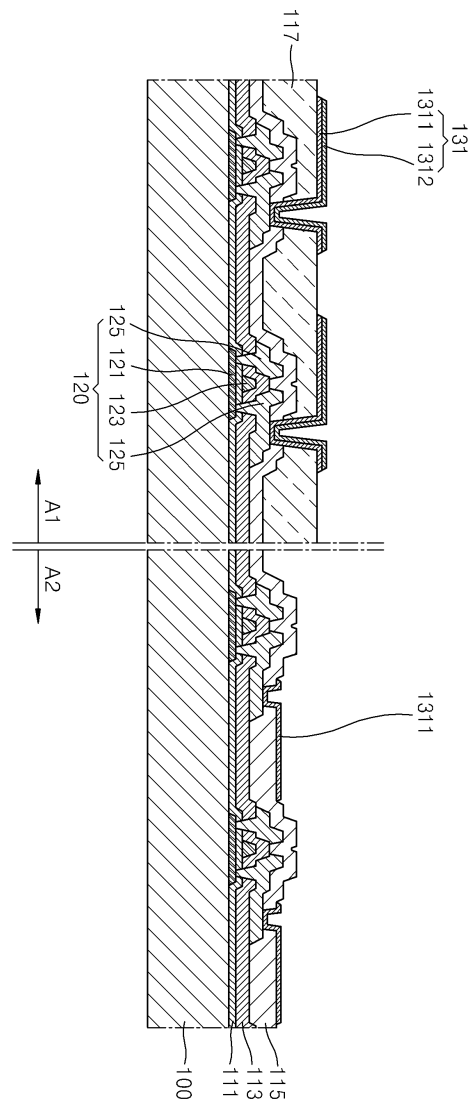
1e



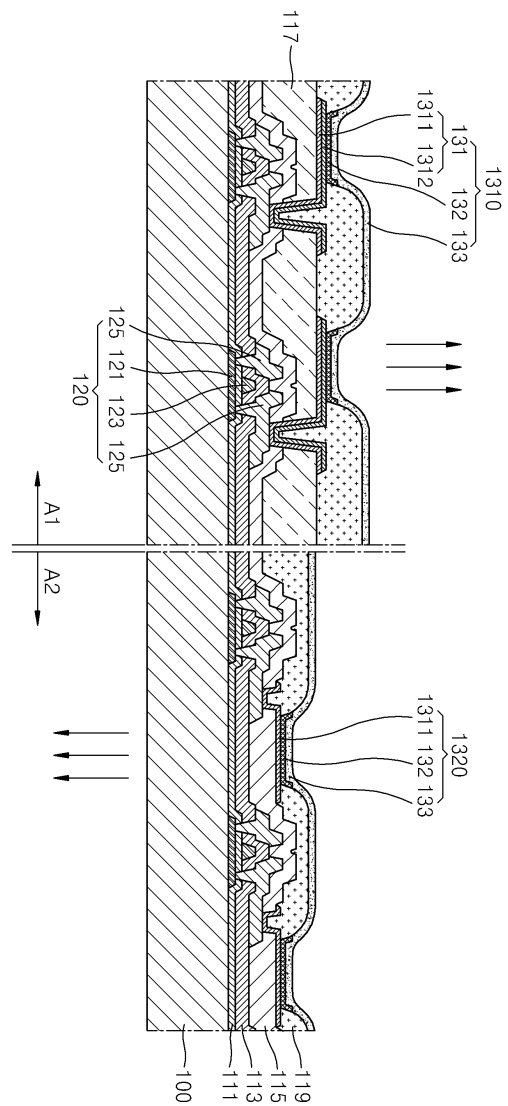
1f

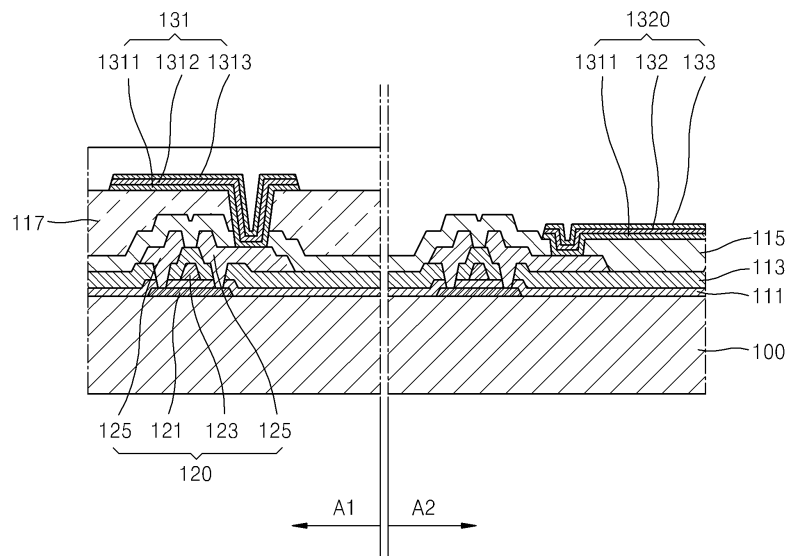
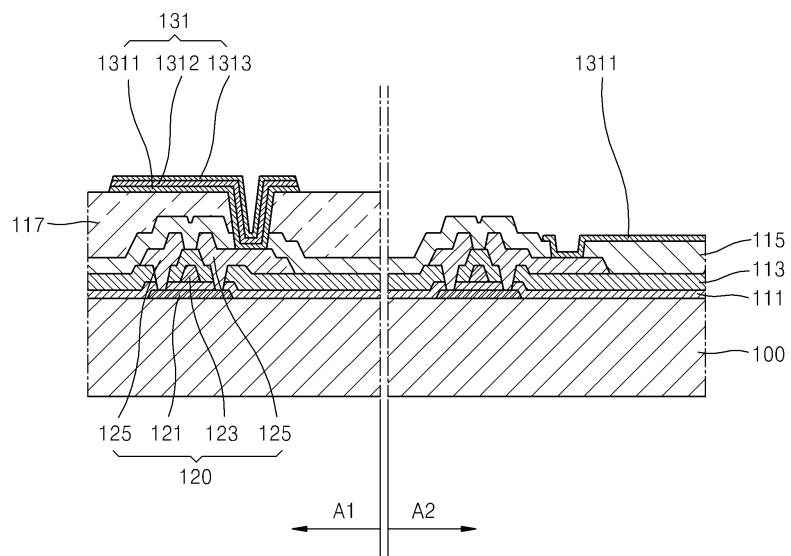


1g

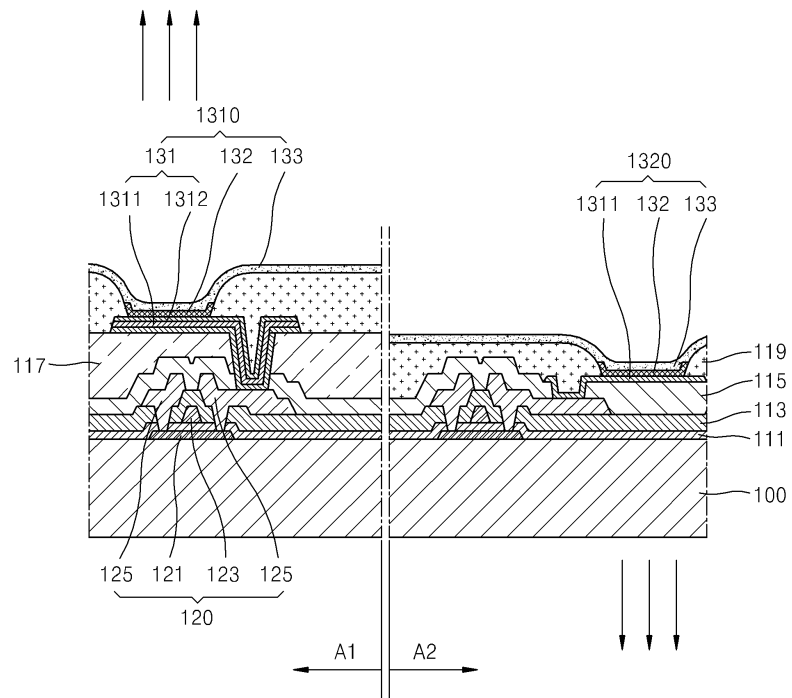


1h



2a**2b**

2c



专利名称(译)	制造有机发光显示装置的方法		
公开(公告)号	KR1020090131553A	公开(公告)日	2009-12-29
申请号	KR1020080057486	申请日	2008-06-18
[标]申请(专利权)人(译)	三星显示有限公司		
申请(专利权)人(译)	三圣母工作显示有限公司		
当前申请(专利权)人(译)	三圣母工作显示有限公司		
[标]发明人	LEE DAE WOO 이대우 SONG BYOUNG SANG 송병상 PARK YONG WOO 박용우		
发明人	이대우 송병상 박용우		
IPC分类号	H05B33/10 H01L51/56		
CPC分类号	H01L27/3262 H01L51/0018 H01L51/5253 H01L51/5271 H01L51/56 H01L2251/5323 H01L2924/12044		
其他公开文献	KR100953541B1		
外部链接	Espacenet		

摘要(译)

本发明提供形成覆盖基板的保护层的步骤，该基板具有 (a) 顶部发光区域和背面发光区域，用于有机发光显示装置的制造方法，用于容易地制造正面和双有机发光显示装置。为了在后侧两侧显示图像，平面化膜是在保护层上形成平坦化膜的步骤，或者对应于基板顶部发射区域的一部分，以对应于 (b) 的顶部发射区域) 基板，和 (c) 平坦化膜被覆盖，以及有机发光显示装置的制造方法，包括形成第一导电层和透明第二导电层的步骤，在背面形成像素电极的步骤基板和基板 (d) 的顶部发光区域的发光区域是第一导电层和第二导电层其中，形成光致抗蚀剂层的步骤覆盖在 (e) 像素电极中的基板的顶部发光区域中，布置在基板的背面发光区域中 (f) 像素电极和光致抗蚀剂层中的保护层暴露在外面的平面化薄膜的层。

