

(19)
(12)(KR)
(A)(51) 。 Int. Cl. ⁷
H05B 33/10(11)
(43)2002 - 0055736
2002 07 10(21) 10 - 2000 - 0084948
(22) 2000 12 29

(71) ()

1 108 - 6

(72) 3 96 - 104

3 60 - 47

6 801

(74)

:

(54)

EL ITO , ITO EL PSSQ
 , , 1
 ,
 ITO ,
 .

4

EL, , PSSQ,

1	2	EL	,
3		EL	,
4		EL	,
5	4	A - A	,
6		EL	.

* * *

101 : 102 : ITO

103 : 104 :

105 :

EL (electro - luminescent)

EL (Light Emitting Diode : LED)

EL (Flat Panel Display: FPD)

EL (backlight)가

EL (pixellation)

(solvent)

(patterning)

(photolithography)

LCD(Liquid Crystal Display)

(flexible)

15V

가

, 1 , (1) ITO(indium - tin - dioxide) (2) (stripe)
 , ITO (2) (3) , (3) I
 TO (2) (4) , (shadow mask, 5)
 (direct pixellation) .
 , (high resolution) ,
 가 가 .
 , 2 , ,
 (6) (overhang) , (6)
 (7) , (3) (4) (4) (3)
 (4) ITO (2) .
 , (negative photoresist) ,
 (positive photoresist) , 3 .
 , (1) ITO (2) / (S1)
 (S2) .
 / (solvent) (S3) /
 (S4) , (S5) .
 (6) (UV hardening) (S6).
 , (4) , (6)
 , (7) .
 , PSSQ (Screen Printing)
 , EL
 ITO , ITO EL PSSQ(polysilsesquioxan)
 , (全面) 1
 , ITO
 , (Screening Printing) , ITO
 PSSQ (squeeze) ITO
 , PSSQ
 ,

4 EL , 5 4 A - A

2) , ITO (102) EL (101) ITO (103) (103) (104) (105) 1 (105) (104) (105) (103) ITO (102) (105)

4) (104) (105) ITO (102) (105)

가 ITO (102) (103) (toluene) PSSQ

EL 6 (101) ITO (102) (S10).

ITO (102) () (103) (S20).

(103) (105) ITO (102) (105)

(103) (104) 1 (S30).

(S30) (104) (105) (S40),

S20 (103) (Screening Printing) (101) ITO (102) PSSQ (squeeze) ITO (102)

가

(103) ITO (102) (105), PSSQ (103) (103)

5) 350 μ m (103) 1

[1]

PSSQ 100g , 50g PSSQ 50g 50 wt%

[2]

PSSQ 100g , 40g PSSQ 60g 60 wt%
 8 6.83 μ m .

[3]

PSSQ 100g , 30g PSSQ 70g 70 wt%
 12.0 μ m .

[4]

PSSQ 100g , 20g PSSQ 80g 80 wt%
 14.4 μ m .

[1]

(PSSQ)	1(50wt%)	2(60wt%)	3(70wt%)	4(80wt%)
	x	6.83 μ m	12.0 μ m	14.4 μ m

50wt% 1 가 , (103) PSSQ 가 ,
 90 wt% PSSQ 가 .

, (103) PSSQ 60 80wt% .
 EL

EL ,
 PSSQ

(57)

1.

(101) ITO (102) ;

ITO (102) PSSQ (103);

(103) 1 (104) ;

(104) (103) ITO (102)
 (105); EL .

2.

(101) ITO (102) (S10) ;
 ITO (102) PSSQ (103) (S20);
 (103) 1 (104) (S30) ;
 (104) (103) (S40); EL ITO (102) .
 (105)

3.

2 , (S20) PSSQ PSSQ
 EL .

4.

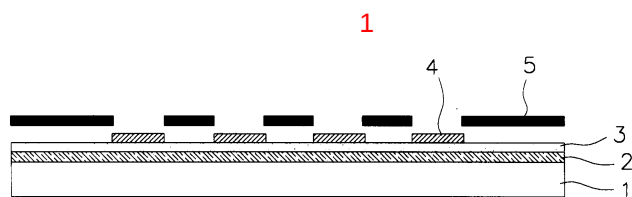
3 , PSSQ
 EL .

5.

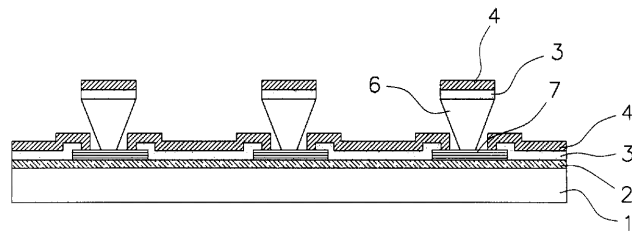
3 , PSSQ EL .

6.

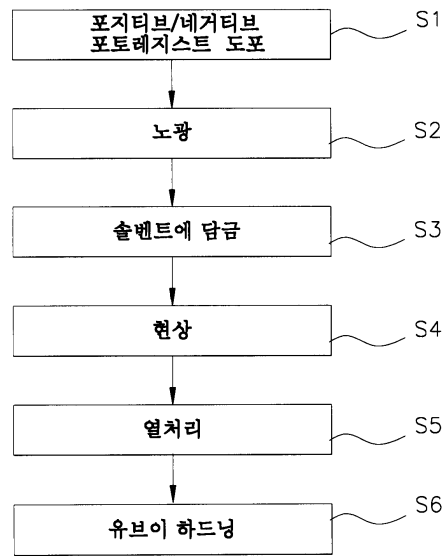
3 5 , PSSQ 60 80 wt% EL .



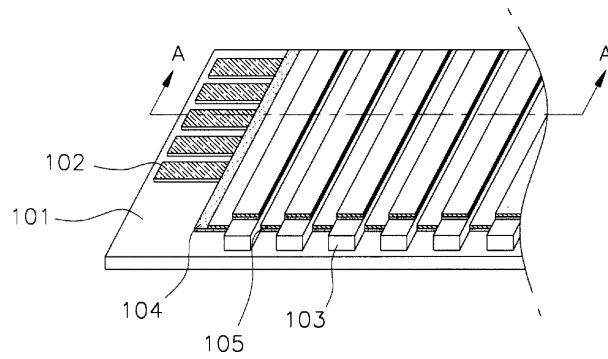
2



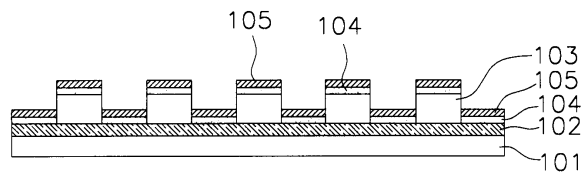
3



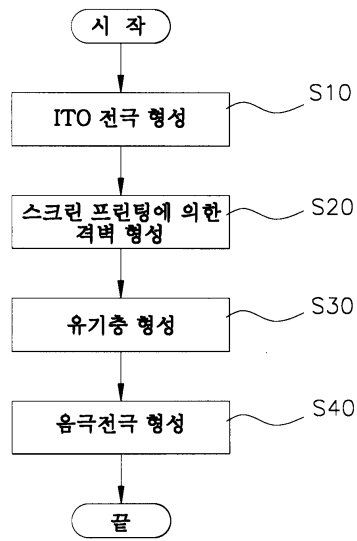
4



5



6



专利名称(译)	有机EL显示面板及其制造方法		
公开(公告)号	KR1020020055736A	公开(公告)日	2002-07-10
申请号	KR1020000084948	申请日	2000-12-29
[标]申请(专利权)人(译)	FDTECH		
申请(专利权)人(译)	在数码科技有限公司		
当前申请(专利权)人(译)	在数码科技有限公司		
[标]发明人	KIM DAE YUP 김대업 LEE SANG PIL 이상필 SHIN SEOKHUN 신석훈		
发明人	김대업 이상필 신석훈		
IPC分类号	H05B33/10		
CPC分类号	H01L27/3283 H01L51/0014 H01L51/56		
外部链接	Espacenet		

摘要(译)

本发明涉及有机电致发光显示板及其制造方法，所述有机电致发光显示板由有机电致发光位移组成，所述有机电致发光位移在用电荷注入发光层时发光。并且，在ITO电极电位中形成有机层和阴极电极，其中有机电致发光层是在玻璃基板上形成条形的ITO电极和由具有绝缘性能的PSSQ衍生物构成的分隔壁。丝网印刷工艺形成在其中在第一层上形成分隔壁的基板顶部区域中依次层叠。它由带有分隔壁的阶梯式滑轮的条纹状组成，并且正交阴极电极与ITO电极一起形成，它在阴极电极之间绝缘。以这种方式，即使在缩短制造工艺时，也可以在电极之间或在电极之间确保像素之间的绝缘。有机EL，显示器，面板，PSSQ，像素。

