

(19)
(12)

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2003 - 0000992
2003 01 06

(21)
(22)

10 - 2001 - 0037275
2001 06 28

(71)

1355 - 26

(72)

2 219 - 27

(74)

:

(54) / 가

- Tin - Oxide)
ITO

ITO(Indium

(silane coupling agent)
가

(- OH)
Si - O

/

,

2b

1 ,

2a, 2b , TMCS ITO .

*

*

11 : 12 :

13 : 14 :

15 : 20 : /

ITO , ITO (- OH)
ITO / 가 .
1 , ITO(Indium Tin Oxide)
(anode) (1) , (hole transport layer)(2), (3), (electron transport layer)(4)
(cathod)

, (1) (2)
(hole injection layer) , (4) (5)

, ITO (1) (- OH)
(2), (3), (4)
ITO(1) (2)(3)(4)
(Threshold Voltage; V_{th}) (panel)

, (2)(3)(4) (cathode metal)(5)
(1)
가

가 ITO
가 1999 - 16190 , ITO
가 1,500

, / 가 .

, / 가 .

(silane coupling agent)

/

(- OH)

Si - O

ITO

ITO

(silane coupling agent)

ITO

가

(tri - methyl - chloro - silane; TMCS),
 (vinyl - tri - chloro - silane),
 (vinyl - tri - methoxy - silane),
 (tri - methoxy - silane),
 (methyl - di - ethoxy - silane),
 (tri - methoxy - silane),
 (methyl - di - methoxy - silane),
 (tri - methoxy - silane),
 (tri - methyl - chloro - silane; TMCS)

가

10

가 10

ITO

가

2a 2b

ITO

(tri - methyl - chloro - silane; TMCS)

ITO (11)

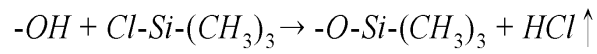
2a

가

ITO

ITO
 (tri - methyl - chloro - silane; TMCS) (A)
 (20)

ITO



(12), (13), / (20) ITO (11)
 (14) .
 , / (20) ITO (11) Si - O 가
 (12)(13)(14) (15)
 .
 , ITO (11) / (20) (12), (13),
 (14) , ITO

ITO

, ITO / Si - O

(57)

1.

ITO(Indium - Tin - Oxide)

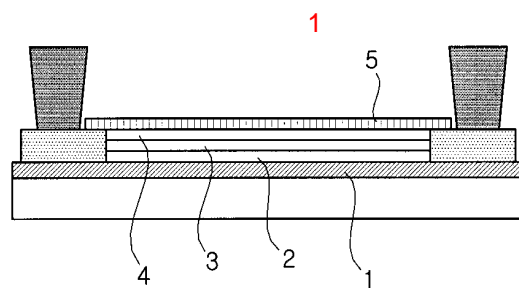
, ITO (silane coupling agent)
 / (20) , / 가

2.

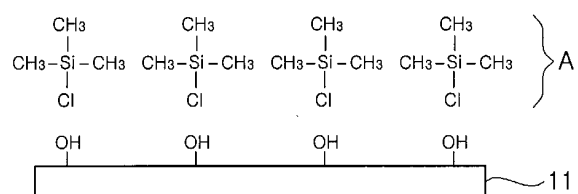
1 , 가 - - - (tri - methyl - chloro - silane; TMCS)
 , / 가

3.

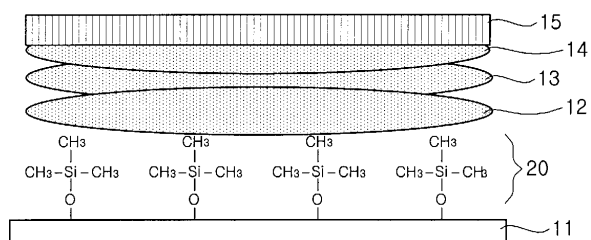
1 , / 10 , / 가



2a



2b



专利名称(译)	一种有机电致发光显示装置，具有阳极/有机粘合层		
公开(公告)号	KR1020030000992A	公开(公告)日	2003-01-06
申请号	KR1020010037275	申请日	2001-06-28
[标]申请(专利权)人(译)	ELIATECH		
申请(专利权)人(译)	电梯技术有限公司.		
当前申请(专利权)人(译)	电梯技术有限公司.		
[标]发明人	KANG SHIN KYU 강신규		
发明人	강신규		
IPC分类号	H05B33/00		
CPC分类号	H01L21/76855 H01L51/5206 H01L2251/558		
代理人(译)	CHO , TARM PARK MI SOOK		
外部链接	Espacenet		

摘要(译)

本发明涉及在玻璃基板上形成的ITO（铟锡氧化物）电极中的多个有机层，以改善作为无机物质和阴极的阳极电极和有机层的界面结合性。具有阳极和有机层的有机电致发光显示装置，其中ITO电极在上部有机层的接触表面中形成阳极和有机层，并且包含有机电致发光显示装置的硅烷偶联剂。并且由于阳极和有机层去除阳极电极表面的羟基（-OH）并改变疏水性，阳极电极表面和有机层之间的界面粘合性能得到改善，阳极电极表面和强Si-O形成共价键并且可以防止向有机氧层的扩散。

