

(19) (KR)
 (12) (A)

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 (43) 2003 01 06

(21) 10 - 2001 - 0037275
 (22) 2001 06 28

(71) 1355 - 26

(72) 2 219 - 27

(74)

(54) / 가

- Tin - Oxide) ITO(Indium
 ITO , / (silane coupling agent) / ,
 / (- OH) Si - O

2b

1

2a, 2b

, TMCS

ITO

*

*

11 : 12 :

13 : 14 :

15 : 20 : /

, ITO (- OH)
ITO
/ 가

(anode) (1), (hole transport layer) (2), (3), ITO(Indium Tin Oxide)
 (cathod) (4) (electron transport layer) (4)

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

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

, (2)(3)(4) (cathode metal) (5)
 (1) 가

ITO
 가 1999 - 16190 , ITO
 가 1,500

, / 가

, / 가



가

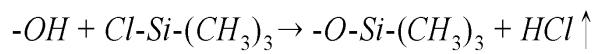
- - - - (tri - methyl - chloro - silane; TMCS),
 - - - - (vinyl - tri - chloro - silane), - - - - (vinyl - tri - ethoxy - silane),
 - - - - (vinyl - tri - methoxy - silane), - - - - (tri - methoxy - silane), - - - - (meth
 yl - di - ethoxy - silane), - - - - (tri - methoxy - silane), - - - - (methyl - di - methox
 y - silane), - - - - (tri - methoxy - silane) (tri - methyl - chloro - silane; TMCS) 가

, / 가 10 ITO 가
 10

2a 2b - - - - (tri - methyl - chloro - silane; TMCS)
 ITO

ITO (11) 2a 가 ITO

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



(12), , / (20) ITO (11)
 (13), (14)

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

, ITO (11) / (20), (12), (13), ITO
 (14)

ITO

, ITO / Si - O

(57)

1.

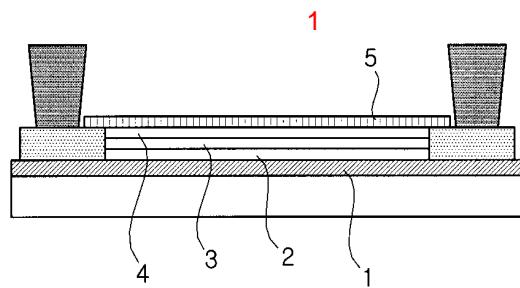
ITO(Indium - Tin - Oxide)
 , ITO
 / (20) , / (silane coupling agent) 가

2.

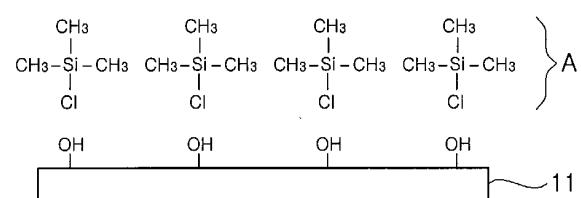
1 , , - - - - (tri - methyl - chloro - silane; TMCS)
 , / 가

3.

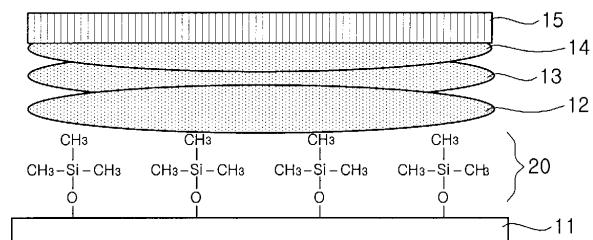
1 , / 10 , / 가



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
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当前申请(专利权)人(译)	电梯技术有限公司.		
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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。

