

(19)  
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(A)(51) 。 Int. Cl. <sup>7</sup>  
H05B 33/04(11)  
(43)2003 - 0016043  
2003 02 26(21) 10 - 2001 - 0049952  
(22) 2001 08 20

(71) 23 202

(72) 3 302 - 11 19/2

(74)

:

(54)

(encapsulation)

(anode)

가

4

(OELD), (FPD), (encapsulation), (Diffusion)

1

2

3

4

< >

10, 20A, 20B, 20C :

101, 201 : (Glass Substrate)

102, 202 : (Anode)

103, 203 : (Hole Injection Layer;HIL)

104, 204 : (Emission Layer;EML)

105, 205 : (Electron Injection Layer;EIL)

106, 206 : (Cathode)

107, 207 : (Passivation Layer)

210 : (Diffusion Brrier)

220 :

(OELD:Organic E1ectro Luminescence Display)

tion) (anode) , (encapsula

21 가 (mobile) PC, (display)

가 , 가

CRT(Cathode Ray Tube) 가

LCD(Liquid Crystal Display) , L

CD 가 , (contrast), ,

가

(FPD)

가 (Organic Electro Luminescence Display; OLED)

1

Thin Oxide) , (101, Glass Substrate) ITO(Indium (Hole Injection Layer;HIL, 103), (Emission Layer;EML, 104), (Electron Injection Layer;EIL, 105) , 가 가 (Cathode, 106) , (Passivation Layer, 107) .

(106) (102) (Electron) (Hole) , (104) (Recombination) (Exition)

가 (nammeter) (Exition Diffusion)

(Li)

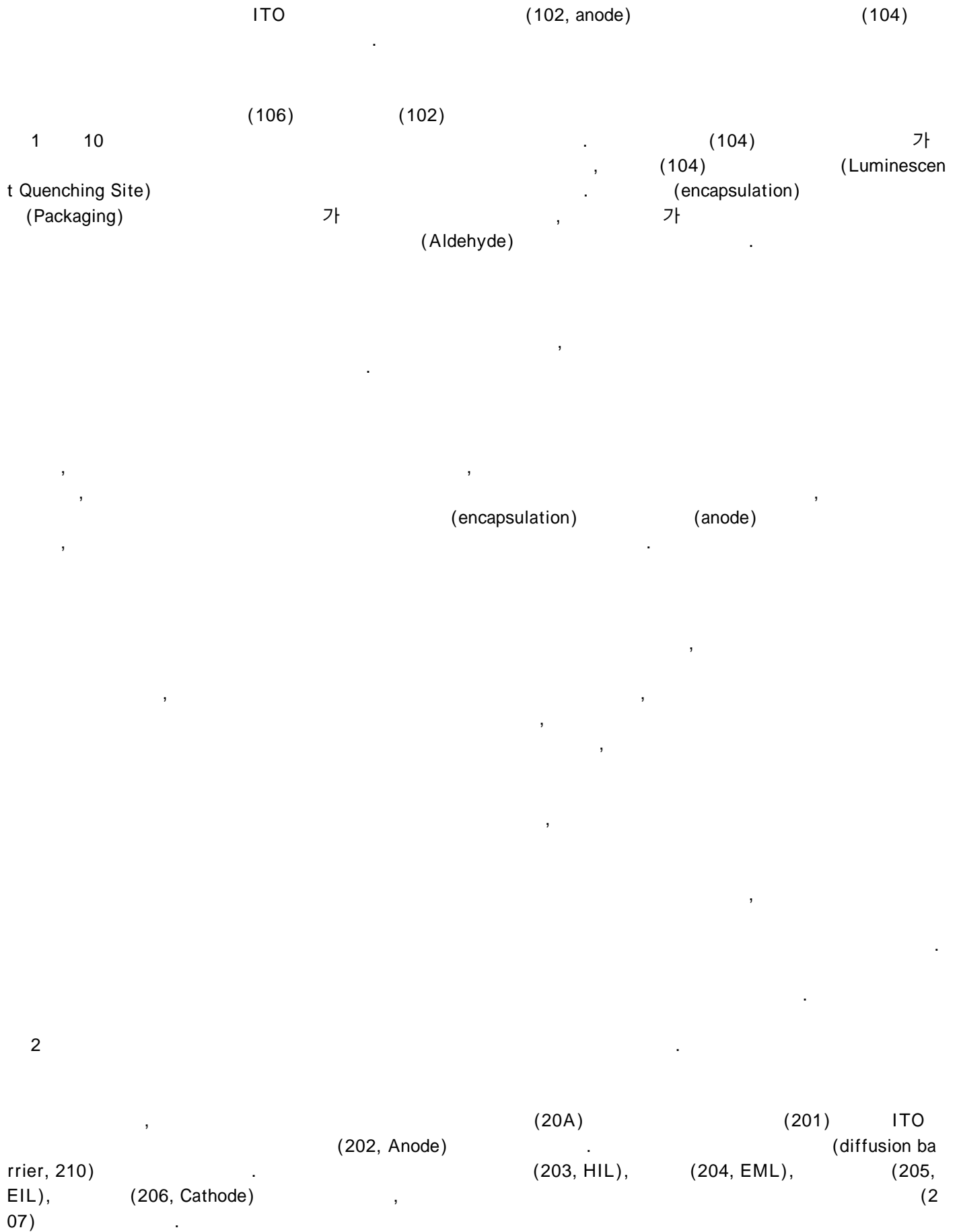
(Dark Spot) 가

가 (encapsulation) ,

가 (inert)

(encapsulation) 가 가 , (O<sub>2</sub>)

(H<sub>2</sub>O) 가 (sealant)가 ,



ITO(Indium Thin Oxide) (202)  
(202) (210, Diffusion Barrier)

(202, Anode), (201), ITO(Indium Thin Oxide)  
(203, HIL) (204, EML), (206, Cathode)  
(205, EIL) (203, HIL) (205, EIL)

가

가

(210) ITO (202) (204)  
(204) ITO (202) (201)

(210) (Ti) (Ta) , (Ti) (Ta)  
(Ti) (Ta)  
(Ti) (Ta)

(210) (Ti) (Ta)  
(Ti) (Ta)  
(Ti) (Ta)  
(Ti) (Ta)  
(Ta)  
(device)

(Ru), (Ce), (Zr), (Y), (Th) (Hf)

$\text{MO}_{2-x}$  (M : Ru, Ce, Zr, Y, Th Hf, O x 1)

(Ti) (Ta) (Ti) (Ta) (matrix)  
[ (amorphous) ] [ (amorphous) + (microcrystal) ] [ Ta -  $\text{MO}_{2-x}$  ]  
(210)

가

ITO (210) (201) 가

3

.

(20B)

(Passivation L

ayer)

(20B)

(220)

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4

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2

(210)

3

(220)

(20C)

2

3

가

(204)

가

(Ti)

(Ta)

MO<sub>2</sub>-

x

가

가

가

(57)

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ITO(Indium Thin Oxide)

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5.

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3

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,

(Ti)

[Ti - ( )]

,

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6.

5

,

(Ti)

MO<sub>2-x</sub> (Zr), (Y), (Th) (Ti) (Ce),  
(Hf) ,  
, 0 x 1 .

7.

1 3 , ,  
(Ta) [Ta - ( )]

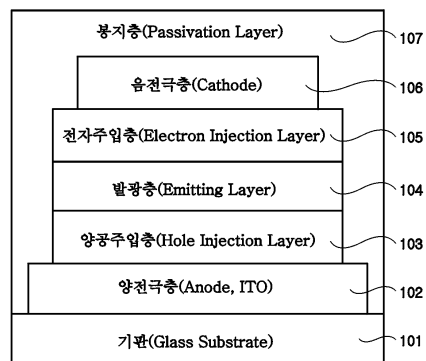
8.

7 , (Ta)

MO<sub>2-x</sub> (Zr), (Y), (Th) (Ti) (Ce),  
(Hf) ,  
, 0 x 1 .

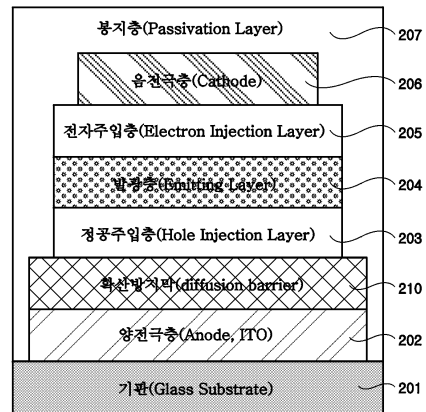
1

10

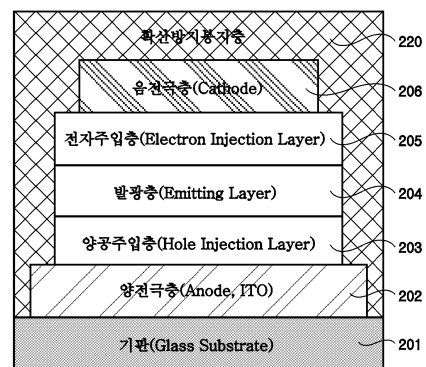




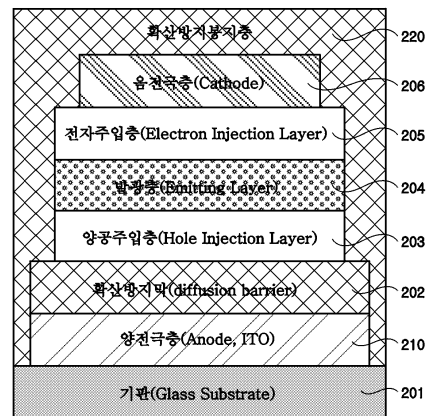
2

20A

3

20B

4

20C

专利名称(译)	一种具有抗氧化结构的有机电致发光器件		
公开(公告)号	<a href="#">KR1020030016043A</a>	公开(公告)日	2003-02-26
申请号	KR1020010049952	申请日	2001-08-20
[标]申请(专利权)人(译)	延世大学校产学协力团		
申请(专利权)人(译)	产学合作基金会，延世大学		
当前申请(专利权)人(译)	产学合作基金会，延世大学		
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发明人	정순문		
IPC分类号	H05B33/04		
CPC分类号	H01L51/5253		
代理人(译)	LEE JIN SEI		
其他公开文献	KR100710473B1		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

目的：提供有机电致发光显示器，以通过防止氧气或水的进入和扩散来实现有机电致发光显示器的改善的操作效率。

