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H05B 33/26

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2003 07 07

(21) 10-2001-0088141
(22) 2001 12 29

(71) .
20

(72) 가 307 801

1 305-86

(74)

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(54)

가 가 , 가 가 , 가

1 2 1 2

4

1

2

3 .

4 .

5 6 4 A B .

7 .

8 .

< >

110 : 120: 1

130 : 1 140 :

150 : 2 160 : 2

(cathode ray tube : CRT)

가 가 가 (flat panel display) (liquid crystal display)

y) 가 (plasma display panel), (field emission display),

(: electroluminescence display(ELD)) 가

(electroluminescence : EL)

(organic electroluminescence display : OLED ELD) (inorganic)

가 가 가 (contrast ratio)가 ,

가 , (μs)

가 5V 15V

가

가 LED(organic light emitting diode : OLED)

1 (anode) (11) (electron) (cathode) (13) (hole) (12)

(11) (13) 가 (12)

2

2 (21) (27) (hole transporting layer)(23) (emission layer)(24)

(electron transporting layer)(25)

(21) (23) (25) (27) (hole inj

ection layer)(22) (electron injection layer)(26) .

(21) (22) (23) (24)

(27) (26) (25) (24) (exciton)(30) (

21) 가 (indium-tin-oxide : ITO (21)) (ind

ium-zinc-oxide : (27) IZO 가 (Al) (Ca),

가 (transparent) 가

ITO IZO (31) (33) (32) (33)

(33) 가 (34) (32) (33) (31)

가 가 가 가 가

가

1

2 1 2 2

1 2 - - -

1 1 , 2

1 2 1 3 3 1 3 2

4 (120) 1 (120) 1 (130) (110) 1

(130) (150) 2 (150) 2 (140) (160) 2

0) ITO IZO (110) , 1 2 (120, 16
가 , (140) 1 2 (120, 160) (140)
(140) 1 2 (130)
가 . ,
5 6 , 5 6 4 A
B
5 (120) 1 (131) (110) 1
(132) (R), (G), (B) , 1 (132) ,
(134) (133a, 133b, 133c) (140)
6 (151) 2 (151) (140)
a, 152b, 152c) 2 (154) , 2 (153) (152)
(154) , 2 (154) 2 (160) (153)
가 , 1 2
, 1 (131) 1 (132) 2 (154) 2 (153) , ,
3 ,
7
2 (142) 1 3 (141, 142, 143) 3
1 (Li) (K), (Cs) , 1 3 (141, 143)
8 , 가
가

1 2 1 2 가 ,

(57)

1.

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1

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1 1 ;
1 ;
2 2 ;
2 2

2.
1 ,
1 2 - - - -

3.
1 ,
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4.
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1 .

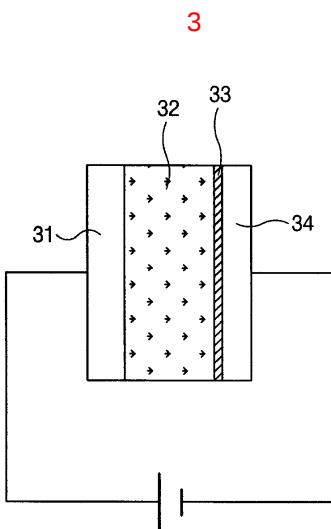
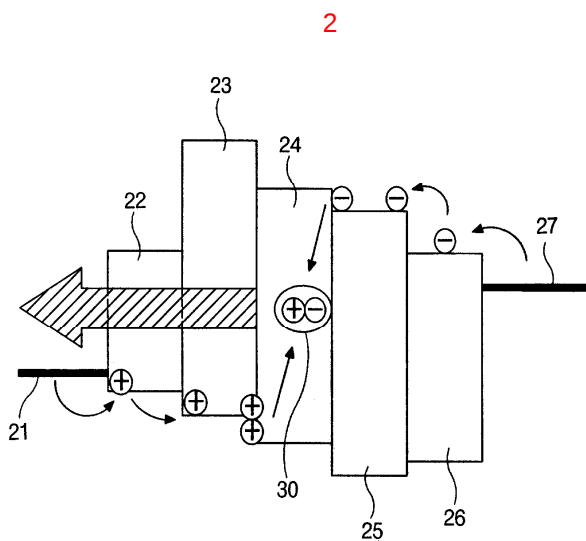
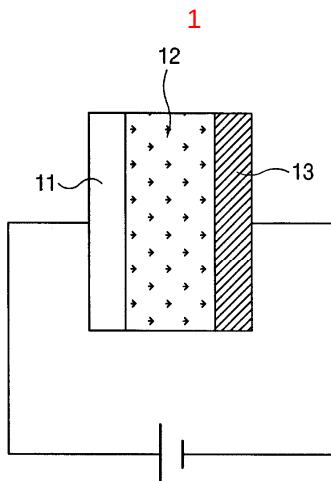
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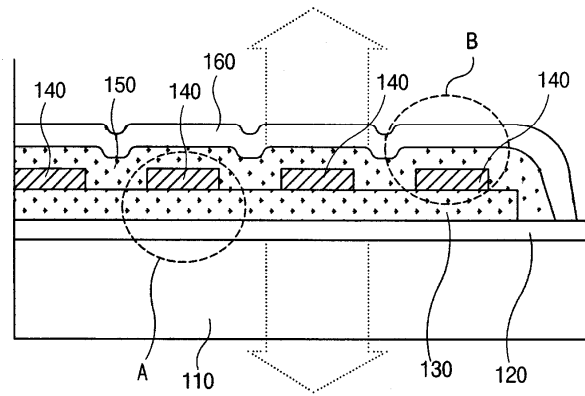
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1 3 3 .

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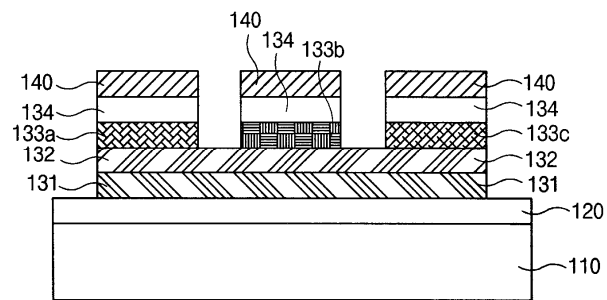
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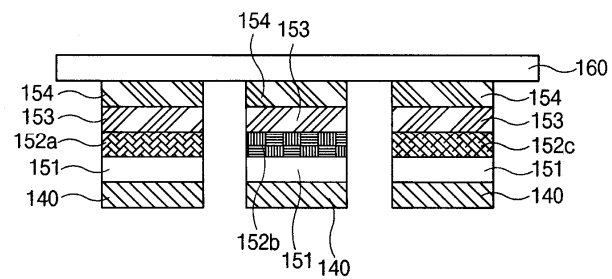
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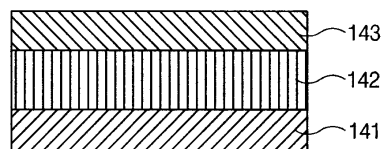
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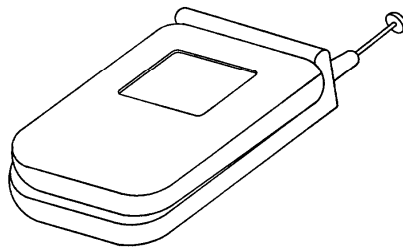
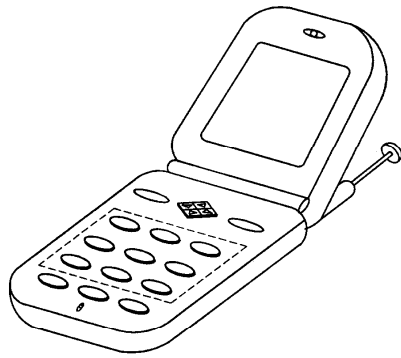
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专利名称(译)	有机电致发光器件		
公开(公告)号	KR1020030058013A	公开(公告)日	2003-07-07
申请号	KR1020010088141	申请日	2001-12-29
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK JAEYONG 박재용 PANG HEESOK 방희석		
发明人	박재용 방희석		
IPC分类号	H05B33/26		
CPC分类号	H01L51/5206 H01L51/5221 H01L2251/308 H01L2251/5323		
其他公开文献	KR100834343B1		
外部链接	Espacenet		

摘要(译)

用途：提供一种有机电致发光器件，能够防止亮度恶化和双面发光。组成：第一阳极电极（120）形成在基板（110）上，是透明的。在第一阳极上形成第一有机层（130），在第一有机层上形成阴极（140）。在阴极电极上形成第二有机层，在第二有机层上形成第二阳极电极（160）并且是透明的。第一和第二阳极电极是氧化铟锡和氧化铟锌中的一种。第一有机层由空穴传输层，发光层和电子传输层组成，并且还包括空穴注入层。

