

(19)
(12)

(KR)
(A)

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H05B 33/22

(11)
(43)

2003-0065395
2003 08 06

(21) 10-2003-0005757
(22) 2003 01 29

(30) JP-P-2002-00022849 2002 01 31 (JP)

(71) 가 가
 가 2 1

(72)	가					
		가	2	1	가	가
		가				
		가	2	1	가	가
		가	2	1	가	가

(74)

:

(54)

1a

1a

1b

2

3

4

5

* *

12: 13:

14: 15:

16: 17: 1

18: 20:

22: 24:

(, OLED)

, OLED

OLED

가

가

4 (51) (53a) (52) (53b) (53) (54), (57) (55) (56) (52) (55) (57) (57) (gettering material; 57a)

(53a)

(53a)

(53b)

(55)

(53b)

가

(55)

(53)

(TFT)
(53)

5 , 10-116687 5 , (61) (52)
) (58) (60) (60) (60) (59)
(60) (62) (60) (62) (58)
(60) (step)

(53)
(R), (G), (B) 가
(curvature)
가
가
OLED
;

1 1a 1b 1 OLED OLE
D (subpixel)
1a (13) (12), (12) (11) (14)
(13) (14) (13)
(14) (16) (12) (13) (12),
(16), (14) (14) (16) (12) (14)
(13) 1 (17), 2 (18), 2 (19) (12)
(17) (19) (20) (13) (12) SiNx
SiOx

(Cr) 1 (17) (12) 1 1 (str
ipe) 1 (17) 1a (18) 1
(17)
1
2 (19) 1 2 2 2
(18) 1 (17) 1 (17)
2 (19) (13) 1 (17), (18), 2 (19)
(17) 2 (19) 가 , 1 (17), (18),
, , (12) , 2 (19
) , (18) , (ITO)

OLED (18) 1 (
17) , , 3 (18)
1b (21) 3 (21a)
1 (17) 2 (19) (21a)
가 (15)
(R), (G), (B) (15) (21a)
OLED (11) (12) (13) 가 (12)
(14) (15) (14) (16)
(12) () (13) (14)
(13) (12), (16), (14)
가
, (17, 19) (21a) 가 (21a)
(R), (G), (B)
가 (R), (G), (B)
(13) 가 (15) (15)
(18) 가
) OLED (11) () 4 OLED ()
(13) (21) 1b (21a)
(W) 가 1

[1]

	(μm)		(%)
		1000	
	96	93	3.1
	92	62	32.6

1000 (W)
(18) (W)
(W) 가 3 % , 가 10
33 %

1a OLED, (13), (17, 19), (18), (15), (13)가 (15) (18), (15)가 (18)가, 3가, 3가, 가, 가 (20) (13), (13) 1a (14) (16) (13) OLED (11) (18)가 (14) (12) 1 (17) 1 (17) ((14)) (18)가, 2 2 (TFT)가 (가, 가 (12) (15) OLED, (22)가 가 (13)가 (22) 2 (23) OLED 1 1a 2, 가 가 OLED, (22)가 가 (12) (15)가 가, (22)가 (22)가 (22) 2 (13) (12) (13) (12) (1) ; 17) (22) (22) (13)

가 .

, .

3 , (13) , OLED (11) , (12)

(18) (14) (24) .

(16), (18) (14) (24) .

(24) (18) (18) (14) .

(16) , , (13) , OLED , (14) (

11) , (18) 가 .

(24) .

(12), (16), (14) , ,

· ,

(13) (20) , (16) (12)

(15) (14) .

(18) , ,

(15) , (R), (G), (B

) .

(12) , ,

(12) (12) , .

(12) 1 (17) , ,

(ITO)

(13) 2 , (12) (1 ; 17)

가 , , 30 % , (

10 % , 10 %

12) , , 가 , 가 .

1 (17) , 2 (19) .

(14) 가 , (

,) .

(20) SiNx, SiOx ,

(diamond - like - carbon)

(13) OLED , ,

(13) , (13) (

; 22) .

(22) , - - (MIM) .

, ,

.

(57)

1.

;

;

(15)

(13)

(14)

(13)

(14)

2.

1

(13)

(21a)

(11)

(12)

(22)

(22) (13)

(22) 가 (21a)
(22) 가

(22)

(21a)

3.

2

(13)

(12)

(22)

1 (17);

1 (17)

2 (19)

4.

1

(13)

(21a)

(11) 1
2

2 1

2 1

(19)

1 (17) 1

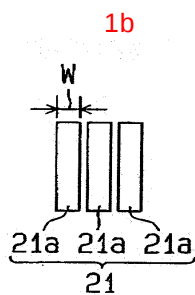
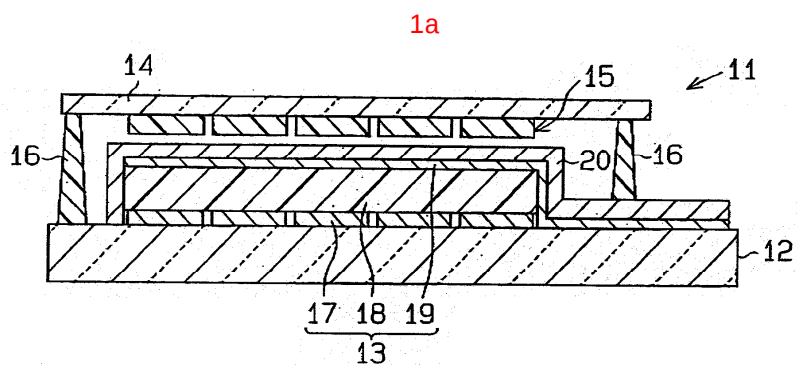
2 (19) 2

1 (21a) 2

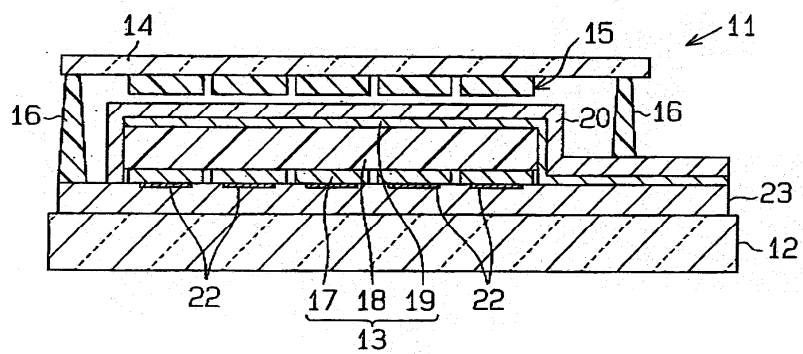
(21a)

5.

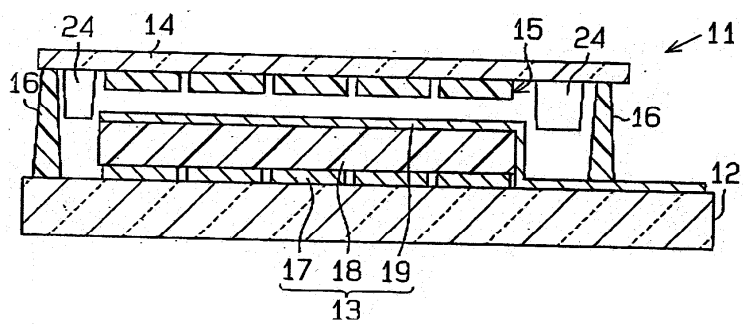
- 1 4 ,
(18)
6.
1 ,
(15)
7.
1 ,
(13) (20)
8.
1 ,
(14) (16) (12) (12), (16),
(14) (24)



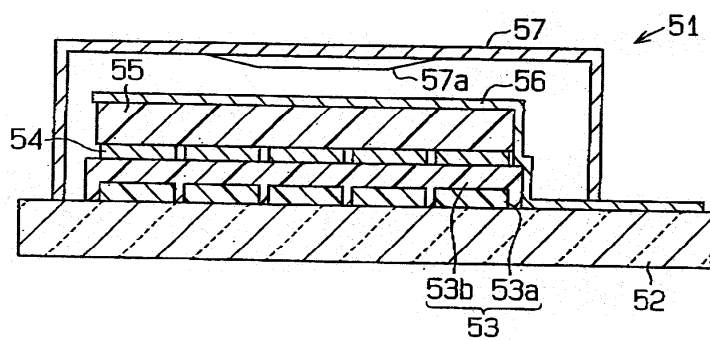
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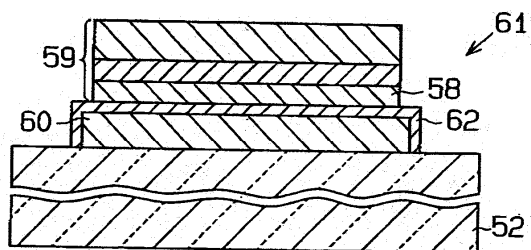
3



4



5



专利名称(译)	有机电致发光彩色显示单元		
公开(公告)号	KR1020030065395A	公开(公告)日	2003-08-06
申请号	KR1020030005757	申请日	2003-01-29
[标]申请(专利权)人(译)	株式会社丰田自动织机 株式会社丰田肖特基地图		
申请(专利权)人(译)	株式会社丰田肖特基地图		
当前申请(专利权)人(译)	株式会社丰田肖特基地图		
[标]发明人	KATO YOSHIFUMI 가토요시후미 TAKEUCHI KAZUYOSHI 다케우찌가즈요시 YAMAMOTO ICHIRO 야마모토이찌로		
发明人	가토요시후미 다케우찌가즈요시 야마모토이찌로		
IPC分类号	H01L27/32 H05B33/04 H01L51/50 H05B33/22 H01L51/52 H05B33/02		
CPC分类号	H01L27/3244 H01L27/3281 H01L27/322 H01L2251/5315 H01L51/5237 H01L51/524 H01L51/5253		
代理人(译)	韩国专利公司		
优先权	2002022849 2002-01-31 JP		
其他公开文献	KR100567953B1		
外部链接	Espacenet		

摘要(译)

有机发光二极管彩色显示单元具有用于在基板上形成的有机电致发光器件，并且该基板和布置在其上的透明盖板面对该基板和在该透明体上形成的滤色器元件盖盘。有机电致发光器件包括电致发光部分，该电致发光部分包括有机电致发光材料的薄膜。滤色器元件与有机电致发光器件分离，并且它与有机电致发光器件有关。来自有机电致发光器件的光从透明盖板辐射。有机电致发光器件和彩色显示单元。

