

6

7 15

가 , 가 ,

(CuPc:copper phthalocyanine), N,N'- ()-N,N'-diphenyl-benzidine: NPB) , -8-Alq3)

-1-)-N,N'- (N,N'-Di(naphthalene-1-yl (tris-8-hydroxyquinoline aluminum)(

(hole)

가
가
(exiton)

efficiency)
g efficiency)

(internal efficiency)

(external
(light couplin

가 가 PDP

ITO

1/4

2691

가 가 63-17

가

62-172691

1

1

가

2

가

1-220394

가

가

가

가

11-283751

가

가

1 11-283751 가 AM(Active Matrix)

AM p n (12) (10) (11) , (11) (13) (12) (14) (13) 1 (15) , 1 (15) (13) (16a)(17a) (12) 1 (17) , (17) (15) 1 (15) (23b) , 1 (23b) 1 (15) 2 (18) , (19a)가 (23) (19) , 1 (15) 2 (16) (20) , 1 (20) (21) , (22) .

1 (10), (11), (13) 1,2 (20) ITO (15)(18) , 1 (20) (18a) , 2 (18) ITO 1 (20) (18a) 2 (18) 가 1 (20) (20a) 1 (20) (21a)가 (20a)가 (21) 가 (21a) (20a) 2 (22) 가 (21) (21a) (S) , 1 (20) (20a) 2 (22) 가 (21) 1 (20) .

TFT (21) 1 (20) 2 (18) , (13), (11) (10) .

가

1 , 1 , 2 ; 1 ; 1 ;

가 1 ,

가 $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$

가 1, 1, 2

[illegible]
$$\begin{array}{ccccccc} & 1 & & 1 & & 2 & & 1 \\ & & & & & & 3 & \\ 1 & & & & & & & \\ 5 & & & 4 & & 1 & & \\ & & 1 & & 2 & & & 6 \end{array}$$

3 가 4

1 가 2 .
4 , 1 , 6
4 , 1 , 2 가 , 가 2

2 AM (AMOLED: Active Matrix Organic Light Emitting Display).

1. (112) (100) (111) (111)
(120) 가 (110) , (TFT)

$$\begin{array}{cccc} & (120) & (100) & (111) \\ \text{(TFT)} & & & \end{array} \quad , \quad \begin{array}{c} (111) \\ \cdot \end{array}$$
$$\begin{array}{ccccccc} & (120) & & (111) & & p & n & & (122), \\ (122) & & & 1 & & (123), & 1 & & (123) & & (12) \end{array}$$

2) (124), 2 (125), 2 (125) 1 (123)
 (126a)(127a) (122) 2 (125)
 (126) (127) (127) 2
 (125) 2 (128a) 1 (128b) , 1 (128b) (125) 2
 (126) (127) (128) 3 (129) .
 1,2,3 (123)(125)(129), (111) (1
 10) (150) 1,2,3 (123)(125)(129), (111) (100)
 (151) . , (151) 3
 1,2,3 (123)(125)(129)
 (152) 4 (110) 1 (112)
 .
 5 (153)
 (153) (154) , (153)
 (100), , 1,2,3 (123)(125)(129) . (100)
 가 (111) (154) 3 (129)
 (153)가 (112) 3 (153) (154)
) (153)가 가 가
 가
 SiNx(2.05) , 가 SiO₂ (가
 1.46) SiOxNy(1.6-1.88) .
 , (110) 2 (100) 3 (129)
 , (112) 1 (112) , 3 (112)
 (141)가 (140) (140) (141)
 (112) (160) (160) (140)
 2 (170) , (110)
 1 (112) 1 (112) 3
 (129) (112) (160) 2 ((170)
 170) 1 (112)
 .
 6
 (120) (120) ((120)
 180) , (120)
 .
 (180) (111) 1,2,3 (1
 23)(125)(129) , (140) 1 (181) (182)가 , (182)
 1 (181) (183) , (183) (140)
 2 (170) . (126) 1,2,3 (123)(125)(129)
 (111) 1 (181) (100)
 가 , (150) (100) 가
 가 (181)
 .
 1 (112) 1 (112) 가 2 6
 2 (170) (hole) 가 (170) 가 ,
 (exiton) , 가
 1 (112) 1,2,3 (123)(125)(129) (73) 가
 (150)가 (111) (100)
 . , 1,2,3 (123)(125)(129),

(100), (111) 1,2,3 (123)(125)(129), (151)()가
 가 (100), (111) 가
 1,2,3 (123)(125)(129), (100), (111) 가
 가
 7 11
 1,2,3 (123)(125)(129)
 3) (100) (111) 1 (7) , 1 (12
 2 (201) , 3 (8) (201) 가
 (9)
 1 (201) 4 (10)
 , 11
 1 5 (12) 5 ,
 10 1 (123) 1 (153)가 가 ,
 13 1 (123) 2 1 (123) 2 (125)
 , 15 2 14 2
 1,2
 가 , 가 ,
 가 가

(57)

1.

;

1

,

1

,

2

;

;

가 ,

가

;

2.

1 ,

1 2 ,

1 3

,

1

4

1

5 ,

1

2

6

.

3.

2 ,

3 가

4

,

.

4.

2 , 1 가 2

.

5.

2 ,

4

1

6

,

1

2

2

,

.

6.

5 ,

1

가 2

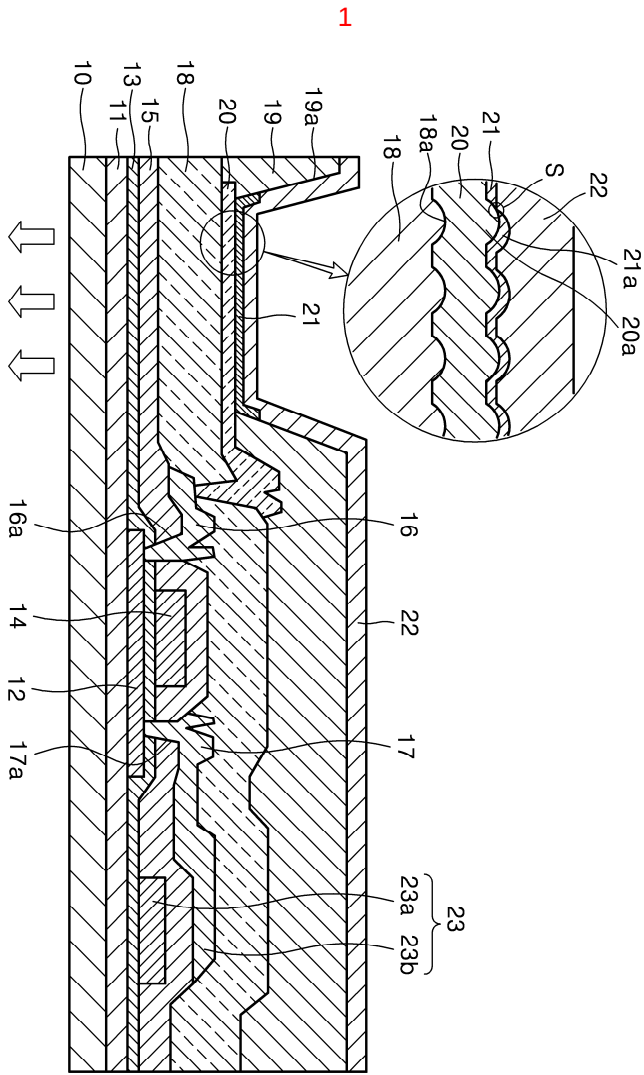
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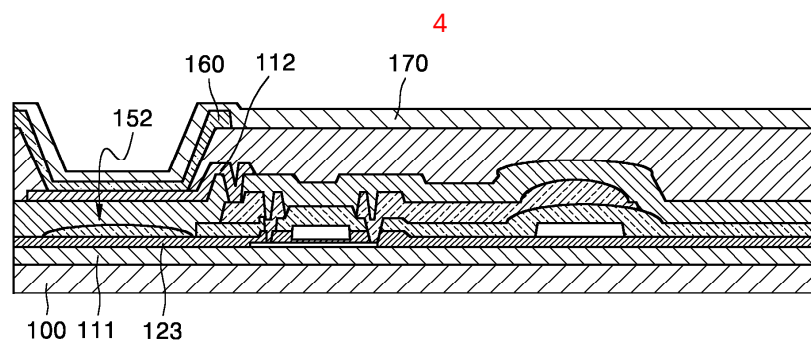
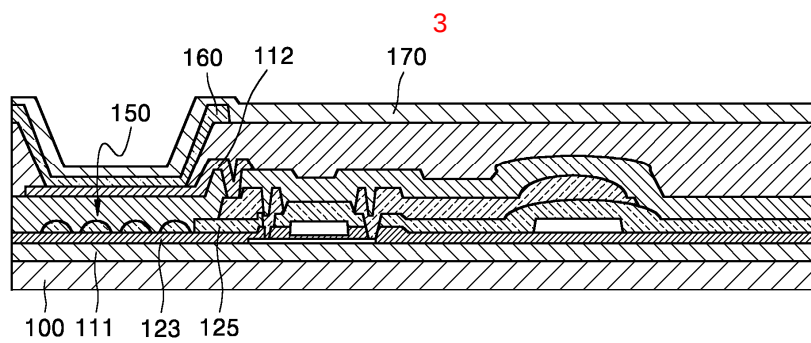
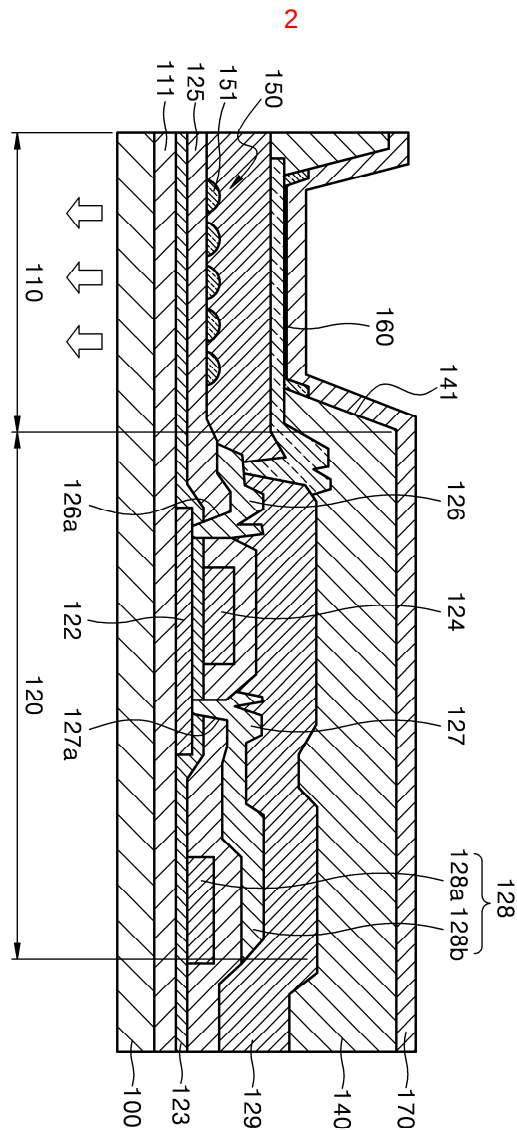
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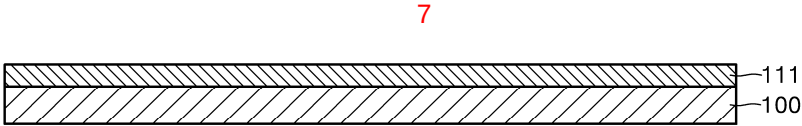
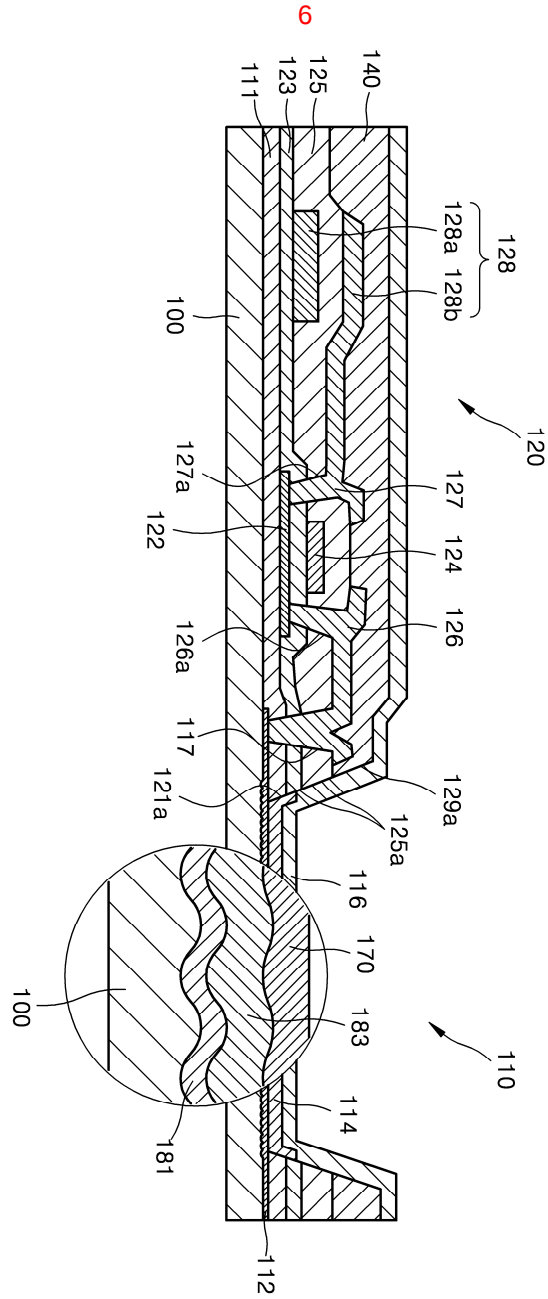
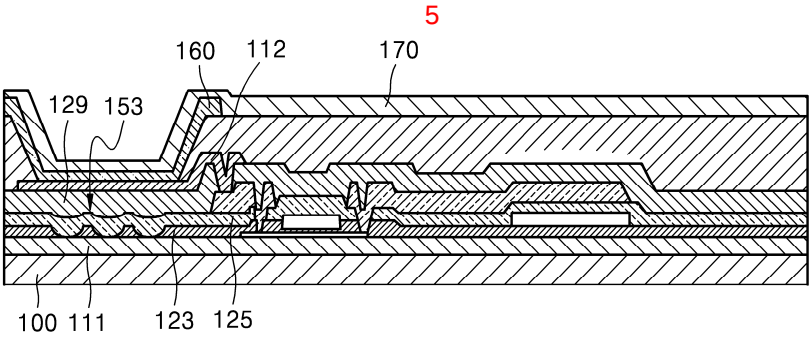
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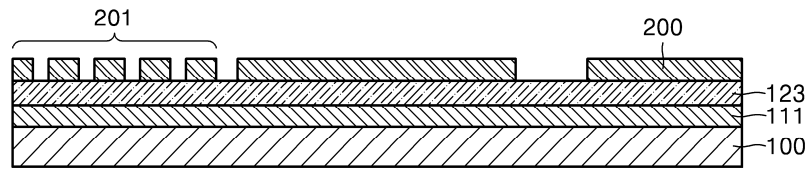
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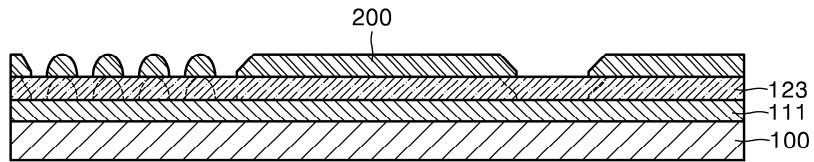




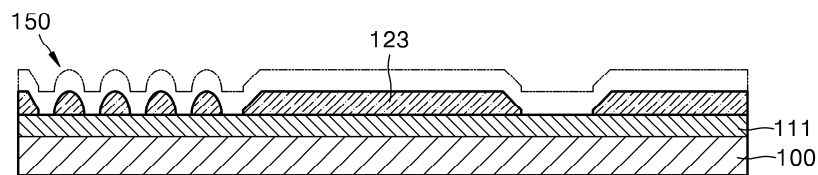
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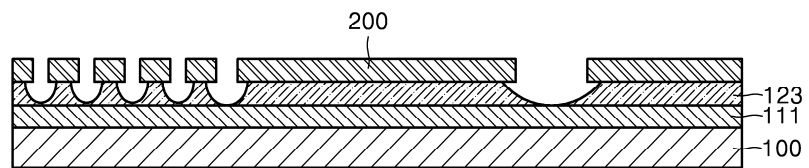
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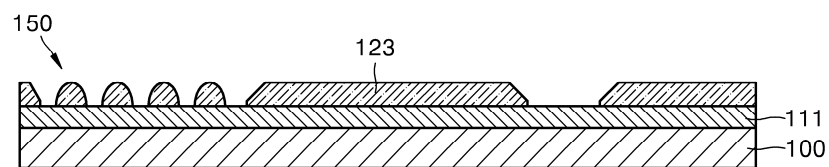
10



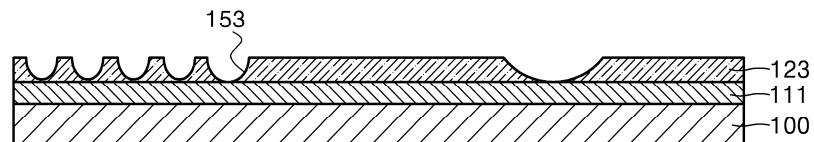
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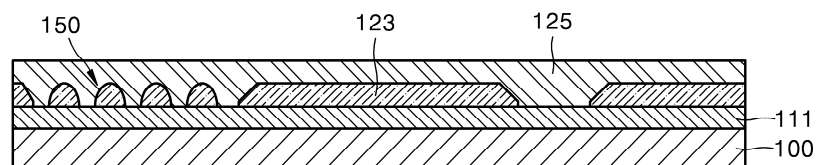
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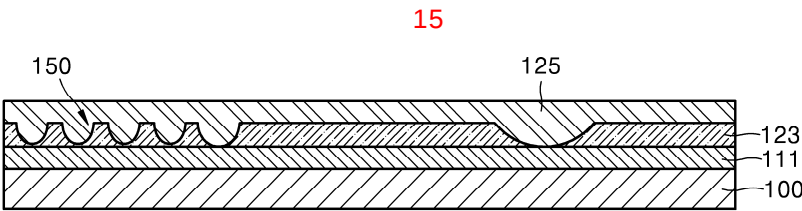


13



14





专利名称(译)	有机电致发光显示装置及其制造方法		
公开(公告)号	KR1020040019186A	公开(公告)日	2004-03-05
申请号	KR1020020050522	申请日	2002-08-26
申请(专利权)人(译)	三星SD眼有限公司		
当前申请(专利权)人(译)	三星SD眼有限公司		
[标]发明人	PARK SANGIL 박상일 KIM CHANGSOO 김창수 LEE SANGWON 이상원		
发明人	박상일 김창수 이상원		
IPC分类号	H05B33/00		
CPC分类号	H01L51/0017 H01L51/5275 H01L51/56		
代理人(译)	李, 杨HAE		
其他公开文献	KR100669686B1		
外部链接	Espacenet		

摘要(译)

用途：提供一种有机电致发光器件及其制造方法，以通过在光路上安装聚光单元来防止光的散射现象并提高聚光效率。

