



(19)
(12)

(KR)
(B1)

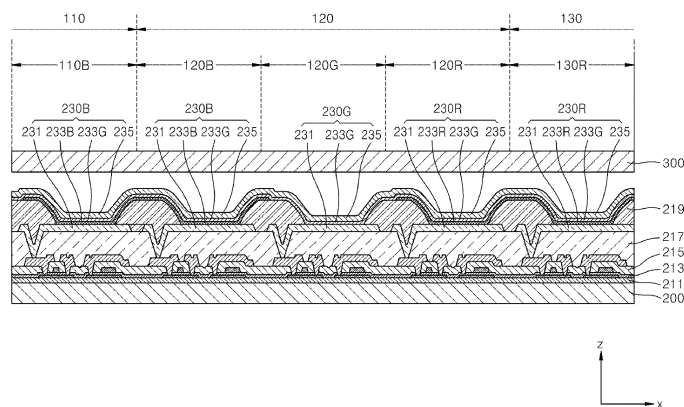
(45)
(11)
(24)

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(21)	10-2008-0054858		(72)	
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	KR1020060055098 A			
	KR1020060112965 A			
	KR1020050082644 A			
	KR1020060036328 A			
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(57)



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[0001]

[0002]

[0003]

[0004]

[0005]

[0006]

[0007]

[0008]

[0009]

[0010]

1 2

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1 (11, 12, 13, 14)
(11R, 12R, 13R, 14R, 11G, 12G, 13G, 14G, 11B, 12B, 13B, 14B)

12Bm 13Bm 14Bm (10Bm) 1 2 (11Bm)
(10Bm) (10)

x (11Bm 12Bm) (10) 2 2
(10) 140ppi
QIF 0.068

[0011] 1 2 1 2

[0012]

[0013]

[0014]

[0015]

[0016]

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[0018]

[0019]

90°

[0020] 1 2 1 2

[0021]

[0022]

- [0023] ,
- [0024] 3
 , 4 3 . 3
- [0025] 3 , (100) (110, 120, 130, 140)
 , 3 x ,
 (x) (110, 120, 130, 140)
- [0026] 3 x (110, 120, 130, 140)
 140 x , 3
 () (row) 3 x
 1 (110), 2 (120), 3 (130) 4 (140) , 1 (110) x
 (110R), (110G) (110B)
- [0027] , 2 (120), 3 (130) 4 (140) , 1 (110) 2
 (120) (120R, 120G, 120B) , 1 (110) 2 (120) , 1 (110)
 (110R, 110G, 110B) , 2 (120)
 (120R, 120G, 120B) , 1 (110) 2 (120) , 1 (110)
 0) , (110R, 110G, 110B)
 . 3 , 1 (110) x (110R),
 (110G) (110B) , 1 (110) 2
 (120) , x (120B), (120G)
 (120R)
- [0028] 3 (130) , (130R, 130G, 130B) , 2
 (120) 3 (130) , 2 (120)
 (120R, 120G, 120B) . 3 , 2 (120) x
 (120B), (120G)
 (120R) , 2 (120) 3 (130) x
 (130R), (130G) (130B)
- [0029] 4 , 3
 R G B B G R R G B B R G B
- [0030] 3
 4
- [0031] 4 1 (110) , 2 (120) 3 (130)
- [0032] 4 , (200) (220) (22)
 0) (230B, 230G, 230R)
 1 (231) , (200) () 2 (235) , 1 (231)
 2 (235)
- [0033] (200) (221), (223), (227), (213)
 (215) (220) (220) 5
 (227)

- (220) (200)
(211)
- (230B, 230G, 230R) 1 (231) 2 (235) ,
- (231) (231) (235) , 1
- (231) (231) (235) , ITQ IZO ZnO
In₂O₃ Ag Mg Al, Pt, Pd, Au, N, Nd, Ir, Cr
ITQ IZO ZnO In₂O₃
- (235) , Li, Ca, LiF/Ca,
LiF/Al, Al, Mg 1 (231) 2 (235) ,
ITQ IZO ZnO In₂O₃
Li, Ca, LiF/Ca, LiF/Al, Al, Mg
- (PDL: pixel defining layer, 219) 1 (231) 1 (231)
(219) , 1 (231)
2 (235) 1 (231) 1 (231) 2 (235)
- (231) (235) ,
- (230B, 230G, 230R) (220) ,
(220) (217) () (230B, 230G, 230R) 1 (231) (230B, 230G, 230R)
(217) (217)
(220)
- (230B, 230G, 230R) (300) (300)
- (x) ,
- (110) (110B) x
2 (120) (120B) , 2 (120)
(120G) (120R) 3 (130)
(130R) 2 (120) (120R)
- (120R, 130R)
(233R) (233G) (120B)
(233B) (233G) (233G) (120G)
- 5 (110B_n 120B_n 130B_n 140B_n)
(100B_n) 110B_n 120B_n
(120) 3 4 1 (110) (110B) (233B) 2
(120B) (233B) 5
(100B_n) (110B, 120B)
(233B) (233R)
- 5 (100B_n)
(233G) 4 (200) () ,

(230G)
 (233G) 4
 (233B) (233R) (200)
 (233G)

[0045]

5 (100Bn)
 (11)

[0046]

1
 2 (10Bn) (10Bn) 2
 (10Bn) (11Bn 12Bn) (10)

[0047]

3 4
 5 (100Bn) 5
 (100Bn) (120Bn 130Bn) (11) (10Bn)
 (11Bn 12Bn) (10) 2 (100Bn) (120Bn 130Bn)
 (10Bn) (11Bn 12Bn) 2 140ppi
 QIF (120Bn 130Bn)
 (11) 0.1368 2 (10Bn) (11Bn 12Bn)
 (10)

[0048]

4 (110B 120B)
 (233B) 5 110Bn
 120Bn 110Bn 120Bn

[0049]

3 (x) 90° (y)
 6 (y)
 (y)

[0050]

3 4
 (110B) (233B) (233G)
 (110R) (233R)
 (233G) (110B)
 (233B) (110R)
 (233R) (233B),
 (233R) (233G)

[0051]

4 1 (231) 2 (235)
 (231) 2 (235)
 (120R 130R) (233R) (120R 130R)
 (233G) 1 (231) (120R
 130R) (233R)
 (233G) 1 (231)
 (120R 130R) (233R) (233G)
 (Si de Group) (233R) (Methoxy)
 (233G)

(-NR2) (Si de Group)
 (120R, 130R) (233R)
 , 2 (235) (233G)
 (233R) (233G)
 (233R) (233G)
 (-CN) (Si de Group)
 (233R) (-F) (Si de Group)

[0052]

(130R, 130R)
 (110B, 120B) , 4 1
 (231) 2 (235) (110B, 120B)
 (233B) (110B, 120B) (233G) 1 (231,
) , 1 (231) (233G)
 2 (235) (233G)
 (233B) (110B,
 120B) (233B) (233G)
 Group) (233G) (Met hoxy) (Si de
 (Si de Group) (-NR2)
 (233G)
 (233B) (-CN) (Si de Group)
 (233G) (233B) (-F) (Si de Group)

[0053]

7 7 4

[0054]

4 (233B)
 (233G) (233R) 5 6
 (200) 7
 (233G) (200)
 (233B) (233R) 5
 6

[0055]

7
 (110B) (233B) (233G)
 (110R) (233R) (233G)
 (110B) (233B)
 (110R) (233R)
 (233B), (233R)
 (233G)

[0056]

7 1 (231) 2 (235)
 , 1 (231) 2 (235)
 (120R, 130R) (233G) (120R, 130R)
 (233R) 1 (231)) (120R,
 130R) (233R) (233G) , 1 (231)
 (233G) (233R)
 (120R, 130R) (233G)
 (233R)
 (233G) (-NR2) (Si de Group)

(233R) (Methoxy) (Si de Group)
 (120R, 130R)
 (233R) 2 (235)
 (233R) (233R)
 (233G) (-F) (Si de Group)
 (233G) (-CN) (Si de Group)

[0057]

(130R, 130R)
 (110B, 120B) 4 1
 (231) 2 (235) (110B, 120B)
 (233G) (110B, 120B) (233B) 1 (231,
) 1 (231) (233G)
 (233B) 2 (235)
 (110B, 120B) (233G) (233B)
 (Si de Group) (233G) (-NR2)
 (Methoxy) (Si de Group) (233B)

[0058]

(233B) (233G)
 Group) (233B) (-F) (Si de
 (Si de Group) (233G) (-CN)

[0059]

1 (231) 2 (235)

()

[0060]

[0061]

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[0065]

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[0066]

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[0067]

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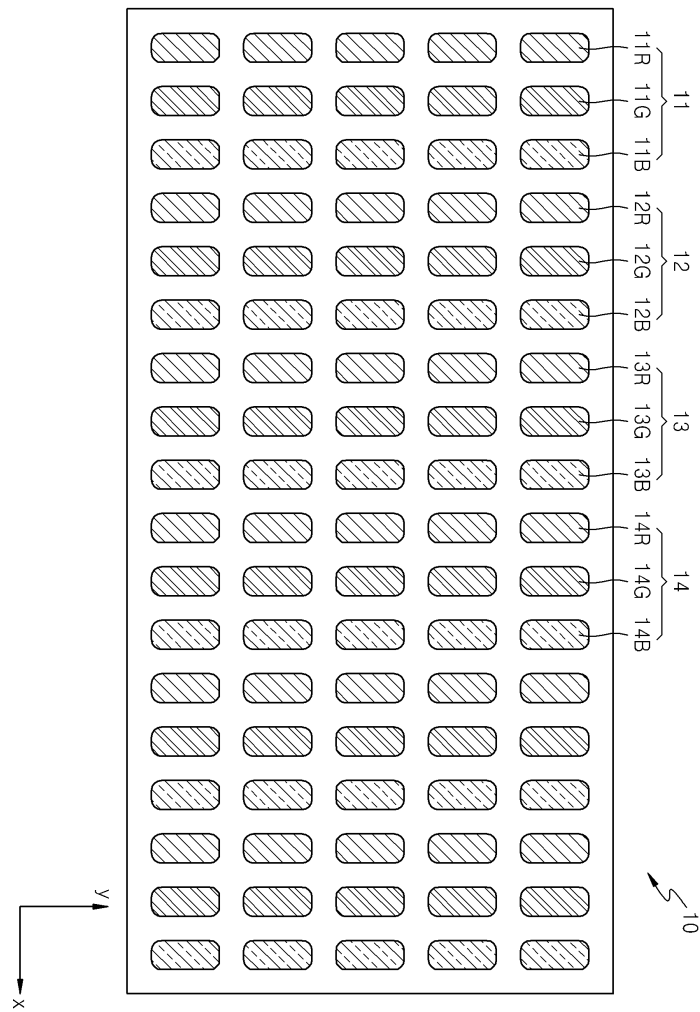
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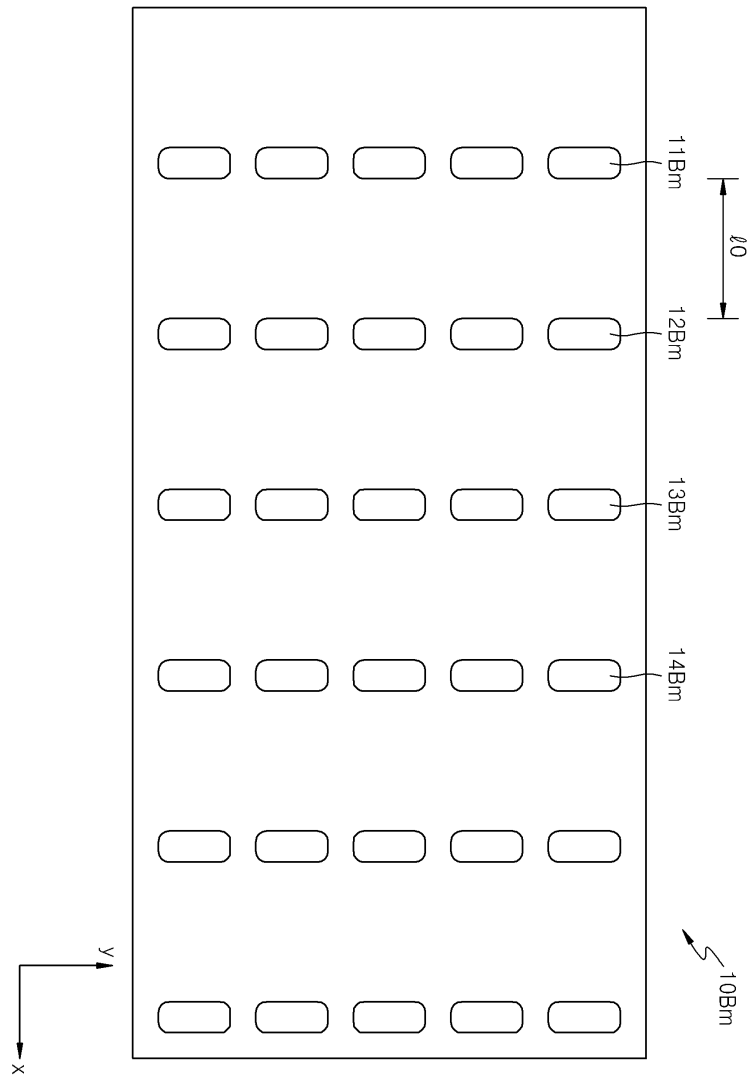
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 [0070] 120G
 [0071] 231:
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 [0073] 233B
 [0074] 233R

110B, 120B
 120R, 130R
 230B
 230R
 233G

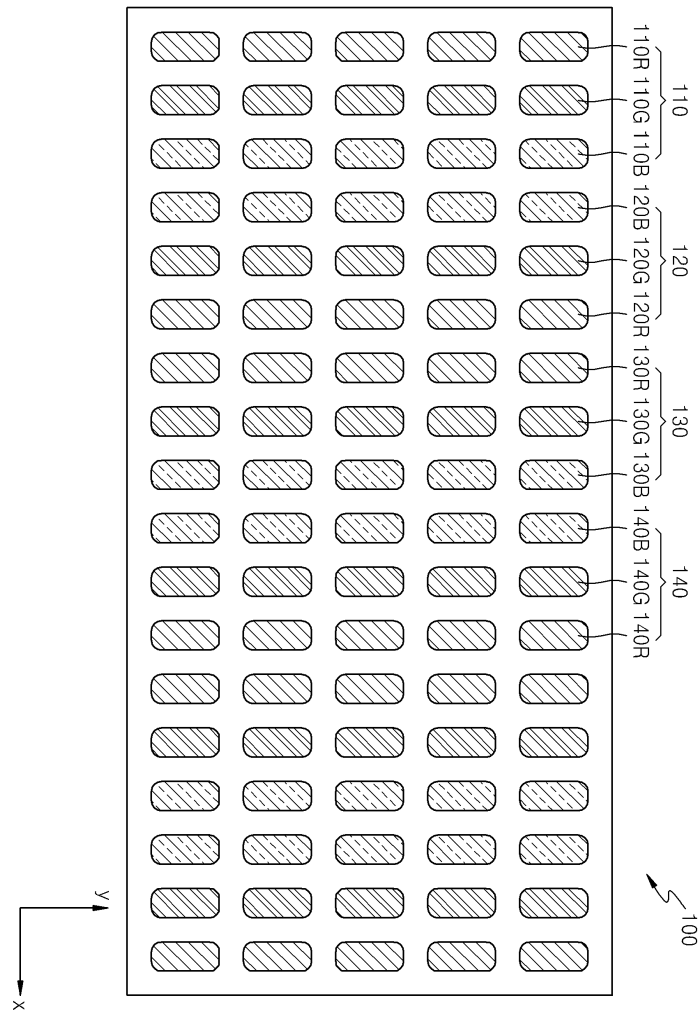
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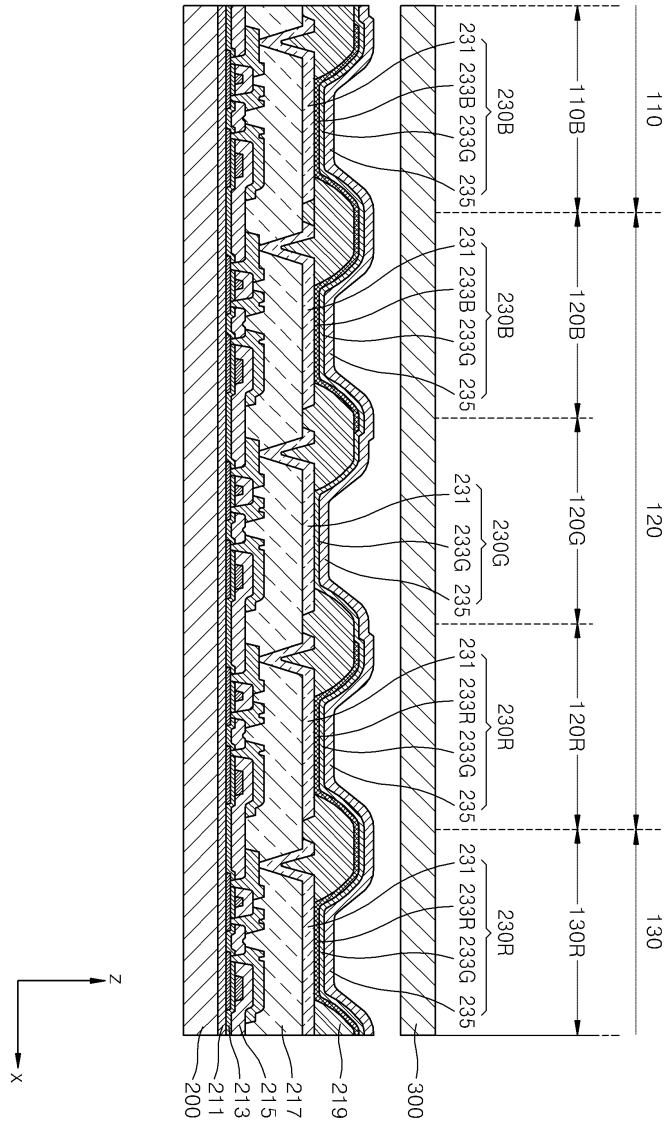
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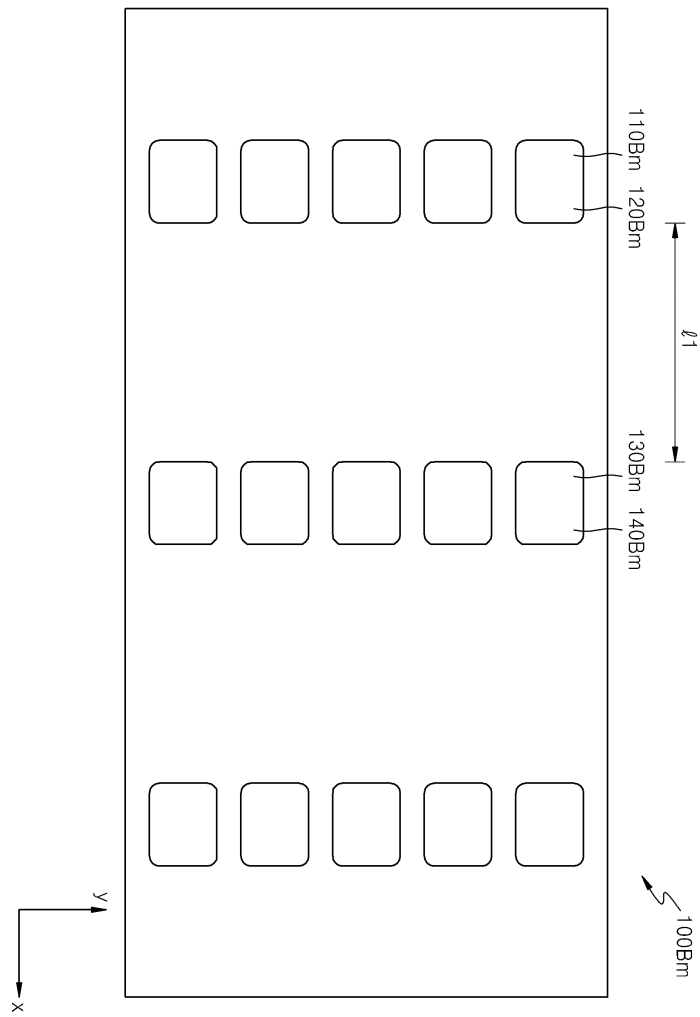
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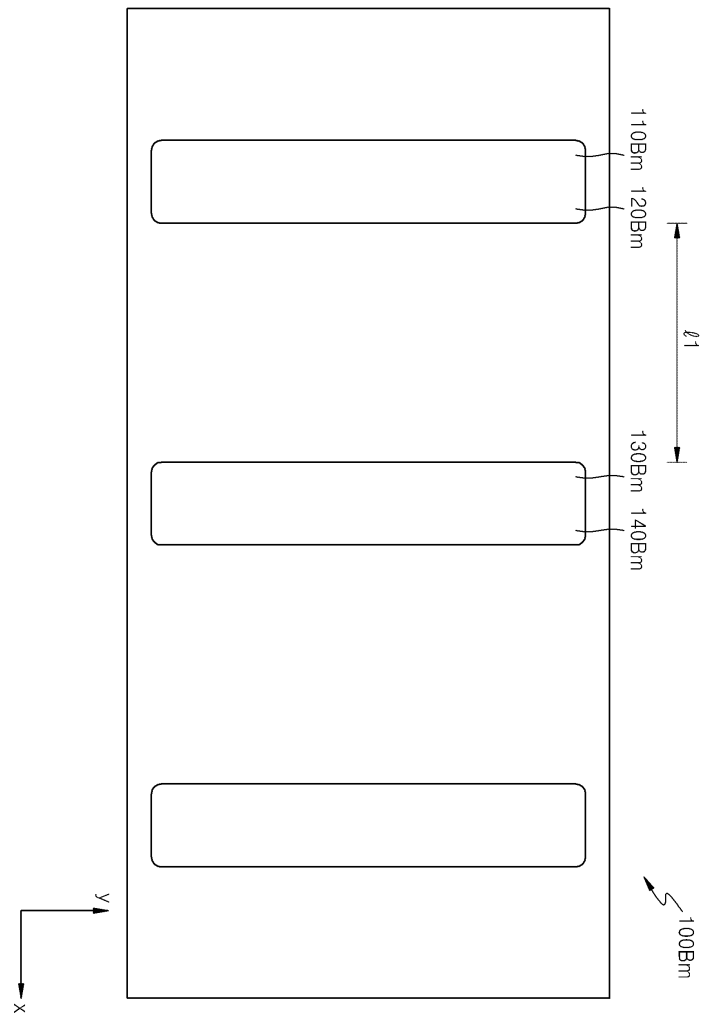
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专利名称(译)	有机发光显示装置		
公开(公告)号	KR100953540B1	公开(公告)日	2010-04-21
申请号	KR1020080054858	申请日	2008-06-11
[标]申请(专利权)人(译)	三星显示有限公司		
申请(专利权)人(译)	三圣母工作显示有限公司		
当前申请(专利权)人(译)	三圣母工作显示有限公司		
[标]发明人	CHANG SEUNG WOOK 장승욱 KIM MU HYUN 김무현		
发明人	장승욱 김무현		
IPC分类号	H05B33/14 H05B33/26 H01L51/50		
CPC分类号	H01L27/3211		
其他公开文献	KR1020090128884A		
外部链接	Espacenet		

摘要(译)

本发明提供一种有机发光显示装置，其具有用于高分辨率有机发光显示装置的多个像素，其具有改善的图案精度，同时有助于沉积每个子像素的发光层，像素的顺序并且在显示装置的一个方向上的像素中提供的子像素以相反的顺序排列成一行，使得由子像素发射的光的颜色阵列由每个子像素发出。关于光的颜色和像素之间的空间的布置以及红光对称发射红光的子像素的发光层包括红光发光层和绿光发光层，发射绿光的子像素的发光层包括用于发射绿光的发光层。一种有机发光显示装置，包括发光层和用于发射绿光的发光层提供。

