



(19)
(12)

(KR)
(B1)

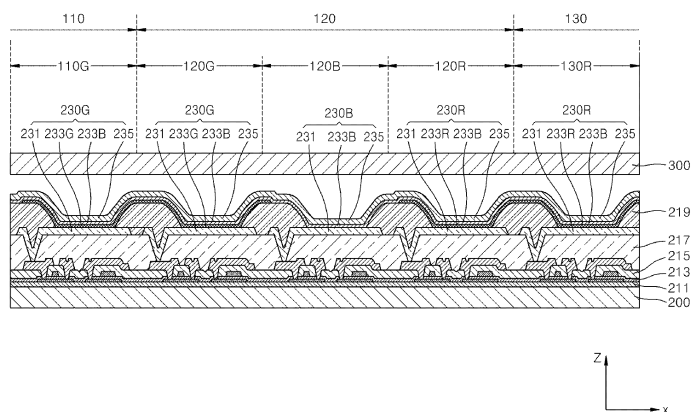
(45)
(11)
(24)

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10-0953539
2010 04 12

(51)	Int. Cl.		(73)	
	<i>HD5B 33/14</i> (2006 01) <i>HD5B 33/26</i> (2006 01)			24
	<i>HD1L 51/50</i> (2006 01)			
(21)	10-2008-0054857		(72)	
(22)	2008 06 11			575
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	KR1020060055098 A			
	KR1020060112965 A			
	KR1020050082644 A			
	KR1020060036328 A			
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(54)

(57)



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[0001]

[0002]

[0003]

[0004]

[0005]

[0006]

[0007]

[0008]

[0009]

[0010]

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

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

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

[0011]

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[0012]

[0013]

[0014]

[0015]

[0016]

[0017]

[0018]

[0019]

90°

[0020]

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[0021]

[0022]

- [0023] , .
- [0024] 3 , 4 3 . 3
- [0025] 3 , (100) (110, 120, 130, 140)
 , 3 x ,
 (x) (110, 120, 130, 140)
- [0026] 140 x , 3 x (110, 120, 130, 140) 3
 () (row) 3 x
 1 (110), 2 (120), 3 (130) 4 (140) , 1 (110) x
 (110R), (110B) (110G)
- [0027] , 2 (120), 3 (130) 4 (140) , 1 (110) 2
 (120) (120R, 120B, 120G) , 1 (110) 2 (120) , 1 (110)
 (110R, 110B, 110G) , 2 (120)
 (120R, 120B, 120G) , 1 (110) 2 (120) , 1 (110)
 0) , (110R, 110B, 110G)
 . 3 , 1 (110) x (110R),
 (110B) (110G) , 1 (110) 2
 (120) , x (120G), (120B)
 (120R)
- [0028] 3 (130) , (130R, 130B, 130G) , 2
 (120) 3 (130) , 2 (120)
 (120R, 120B, 120G) . 3 , 2 (120) x
 (120G), (120B)
 (120R) , 2 (120) 3 (130) x
 (130R), (130B) (130G)
- [0029] 4 , 3 B
 R G B
 , R B G G B R R B G G B R
- [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)
- [0034] (230B, 230G, 230R) 1 (231) 2 (235) ,
- [0035] 1 (231) , 2 (235) , 1
(231) 2 (235)
- [0036] 1 (231) ITO IZO ZnO
In₂O₃ Ag, Mg, Al, Pt, Pd, Au, N, Nd, Ir, Cr
ITO IZO ZnO In₂O₃
- [0037] 2 (235) Li, Ca, LiF/Ca,
LiF/Al, Al, Mg 1 (231) 2 (235)
ITO IZO ZnO In₂O₃
Li, Ca, LiF/Ca, LiF/Al, Al, Mg
- [0038] (PDL: pixel defining layer, 219) 1 (231) 1 (231)
(219) , 1 (231)
2 (235) 1 (231) 1 (231) 2 (235)
- [0039] 1 (231) 2 (235)
- [0040] (230B, 230G, 230R) (220)
(220) (217) () (230B, 230G, 230R)
(217) (230B, 230G, 230R) 1 (231) (217)
(220)
- [0041] (230B, 230G, 230R) (300) (300)
- [0042] (x)
1 (110) (110G) x
2 (120) (120G) 2 (120)
(120B) (120R) 3 (130)
(130R) 2 (120) (120R)
- [0043] (233R) (233B) (120R, 130R) (120G)
(233G) (233B) (233B) (120B)
(233B)
- [0044] 5 (110G_n, 120G_n, 130G_n, 140G_n)
(100G_n) 110G_n 120G_n
(100G_n) 3 4 1 (110) (110G) (233G) 2
(120) (120G) (233G) 5
(100G_n) (110G, 120G)
(233G) (233R)
5 (100G_n)
(233B) 4 (200) ()

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

[0045]

5 (100Gn)
 (11)

[0046]

1
 2 (10Gn) (10Gn) 2
 (10Gn) (11Gn 12Gn) (10)

[0047]

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

[0048]

4 (110G 120G)
 (233G) 5 110Gn
 120Gn 110Gn 120Gn

[0049]

3 (x) 90° (y)
 6 (y)
 (y)

[0050]

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

[0051]

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

(-NR2) (Si de Group)
 (120R, 130R) (233R)
 , 2 (235) (233B)
 (233R) (233B) (233B)
 (233R) (233B) (233B)

[0052]

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

[0053]

7 7 4

[0054]

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

[0055]

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

[0056]

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

(233R) (Methoxy) (Side Group)
 (120R, 130R)
 (233R) 2 (235)
 (233R) (233B) (233R)
 (233R) (-F) (Side Group)
 (233B) (-CN) (Side Group)

[0057]

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

[0058]

(233G) (233B)
 (233G) (-F) (Side
 Group) (233B) (-CN)
 (Side Group)

[0059]

1 (231) 2 (235)

()

[0060]

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[0061]

2 1

[0062]

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[0063]

4 3

[0064]

5 3

[0065]

6 5

[0066]

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[0067]

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[0068]

110, 120, 130 110G, 120G

[0069]

120B 120R, 130R

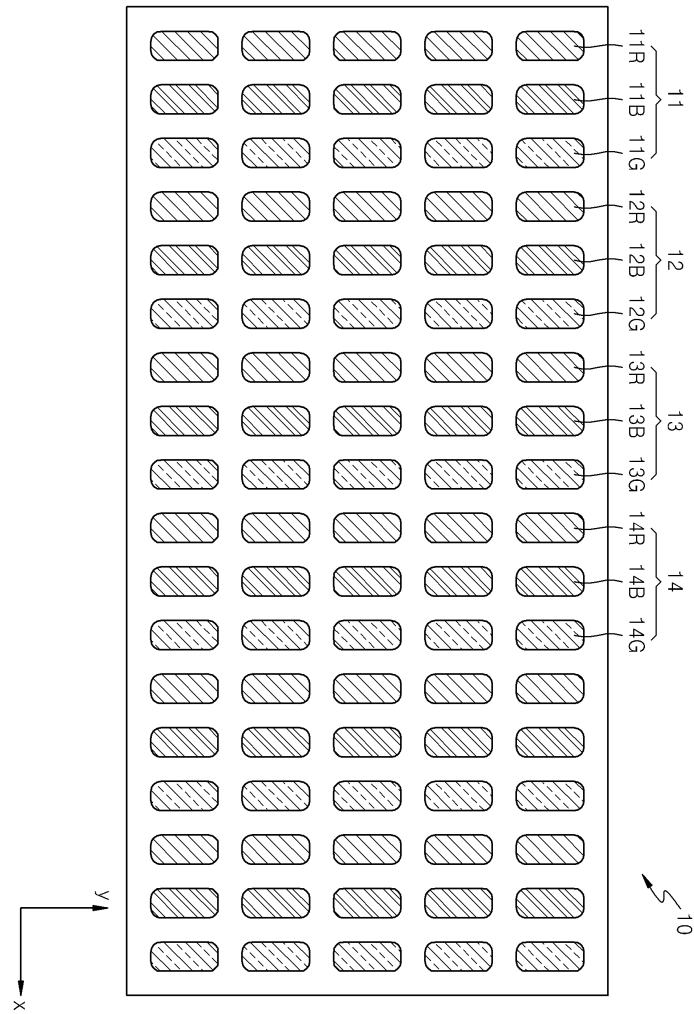
[0070]

231: 230G

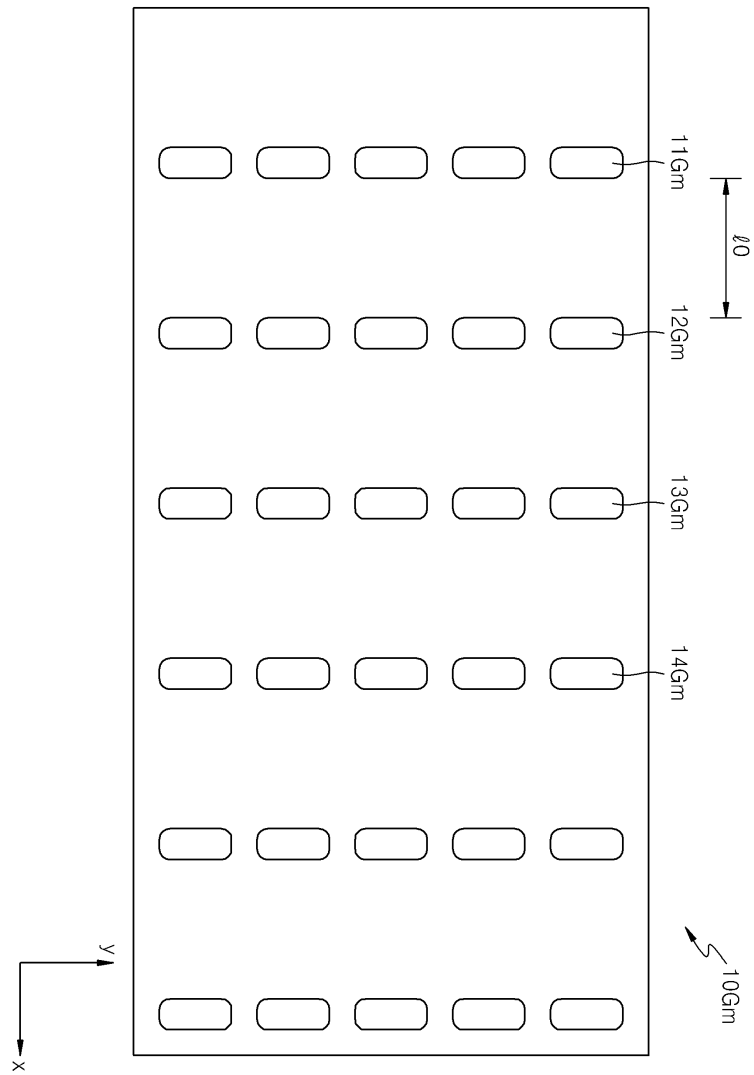
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[0072] 233G
[0073] 233R

230R
233B

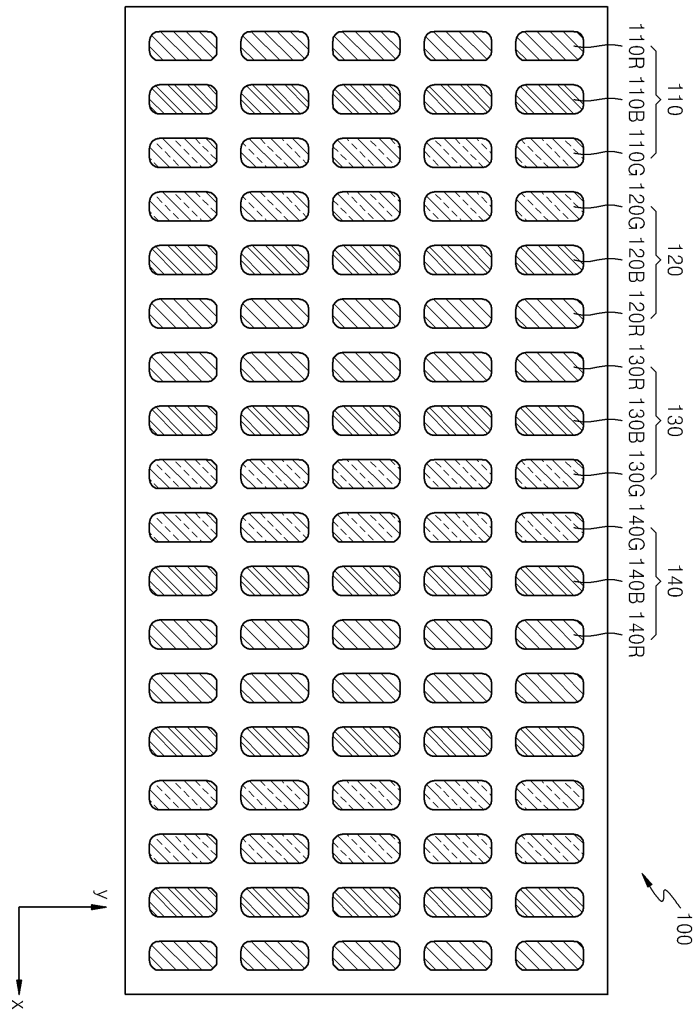
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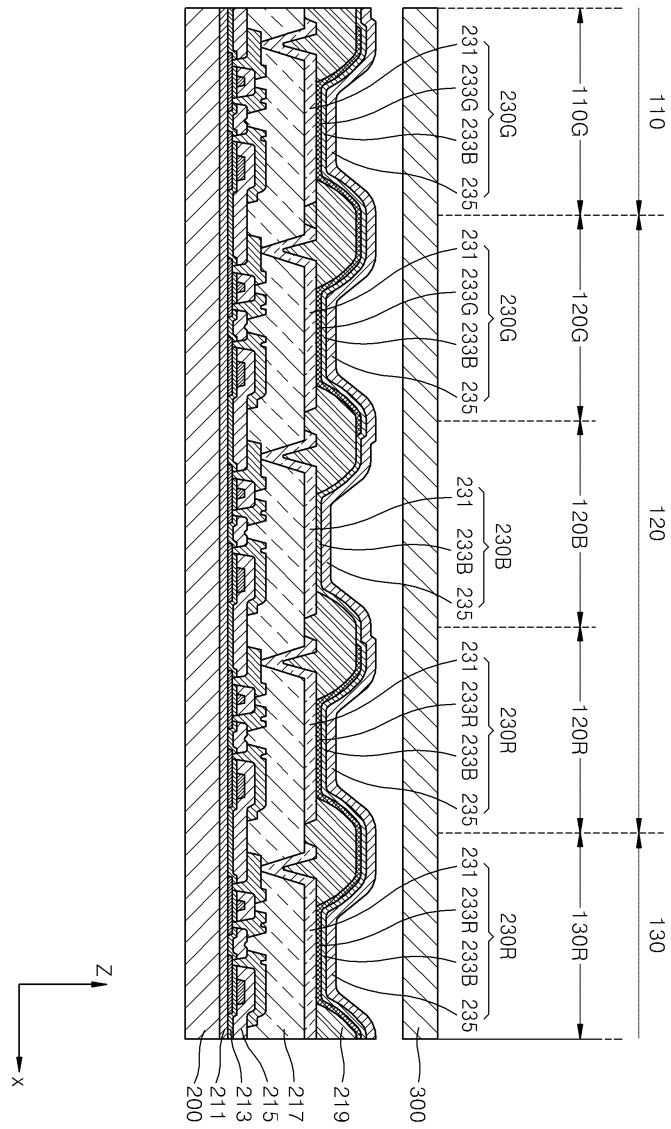
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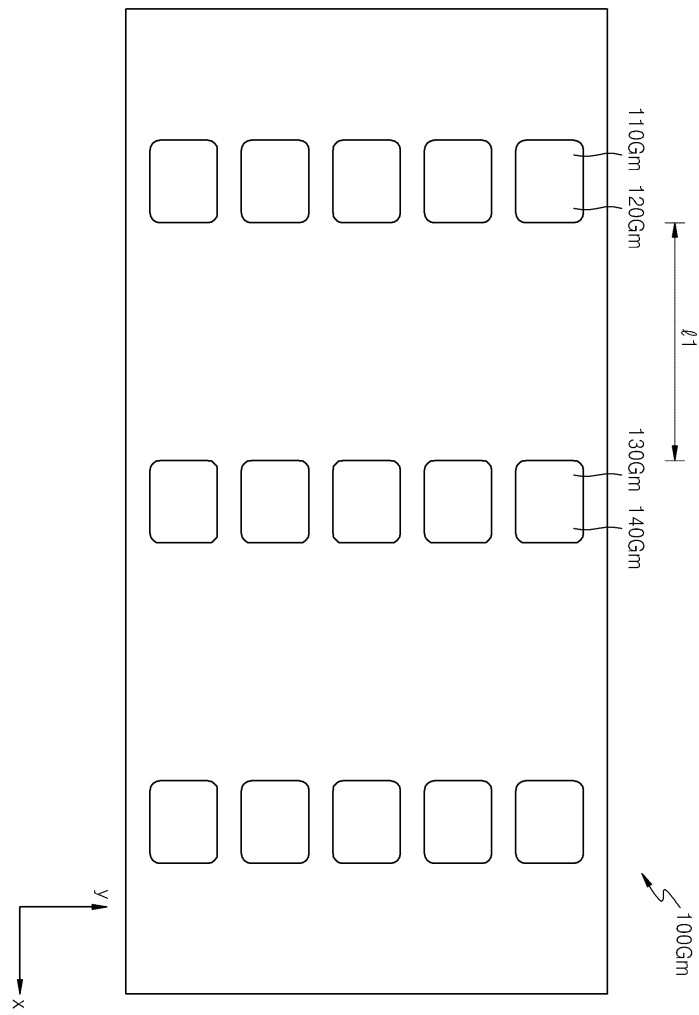
3



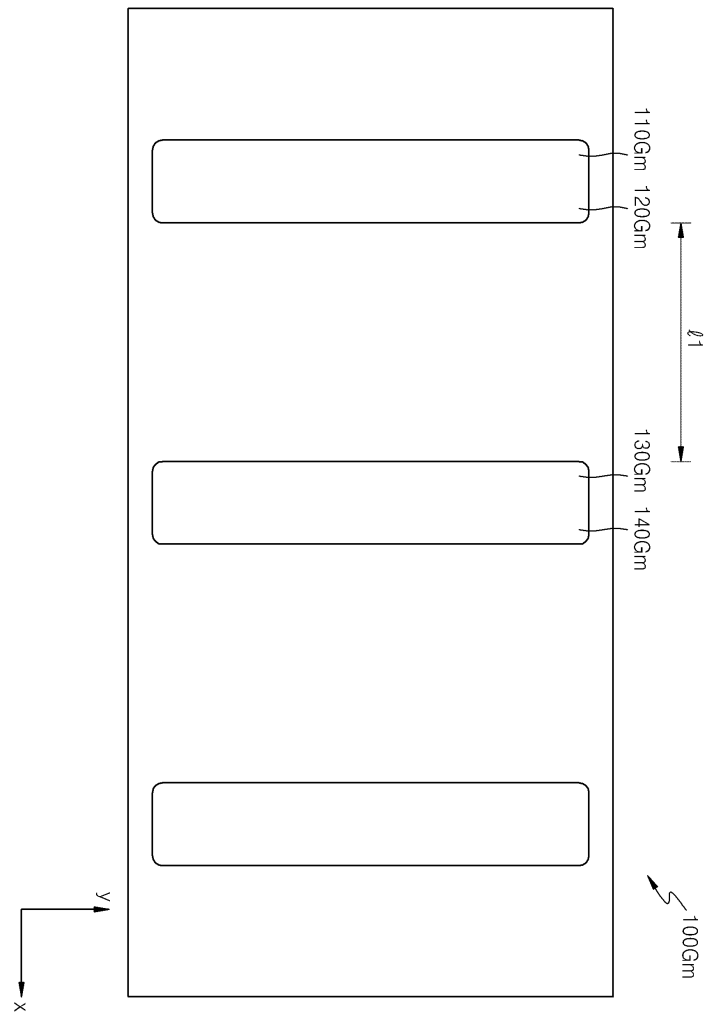
4



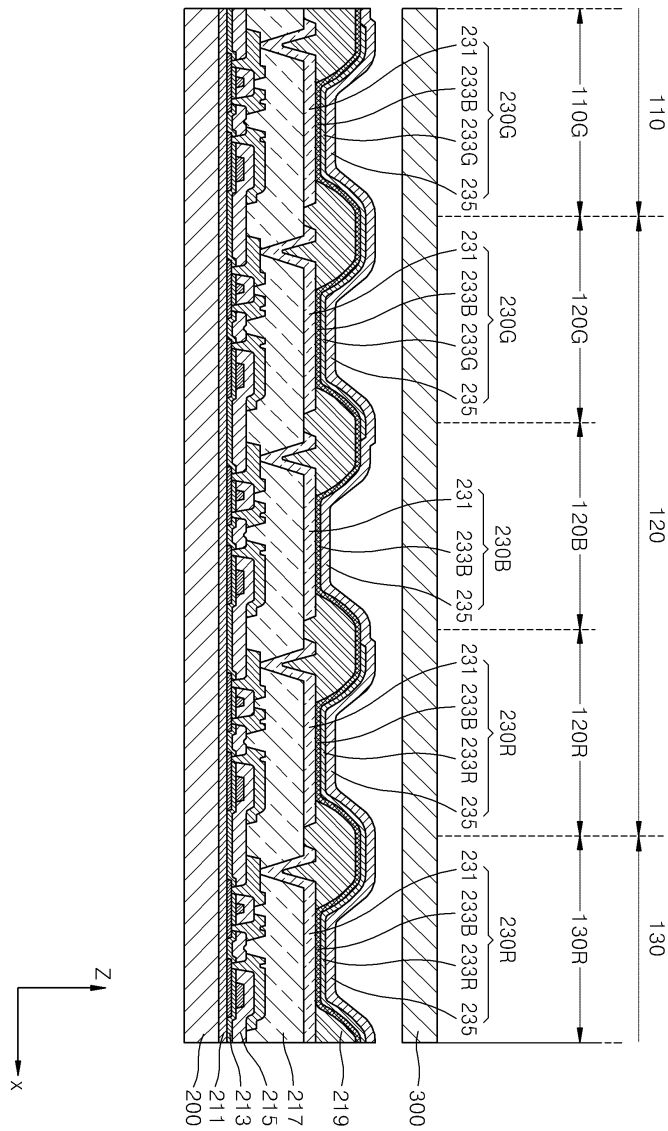
5



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专利名称(译)	有机发光显示装置		
公开(公告)号	KR102009012883A	公开(公告)日	2009-12-16
申请号	KR1020080054857	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	H01L51/50 H05B33/26 H05B33/14		
CPC分类号	H01L27/3211 H01L27/3246 H01L51/5056 H01L51/5072 H01L2924/13069		
其他公开文献	KR100953539B1		
外部链接	Espacenet		

摘要(译)

本发明提供关于有机发光显示设备的每个像素，是相应的红光，以及包括子像素的发光层的有机发光显示设备，所述子像素的发光层包括用于蓝光发射的发光层释放蓝光的子像素的发光层包括用于蓝光发射的发光层并释放绿光。用于绿光发射的发光层和用于蓝光发射的发光层包括用于高分辨率有机发光显示装置的像素，具有改善的图案精度的发光层的沉积便于每个子像素。

