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(12) (A)

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H05B 33/00 (43) 2004 05 07

(21) 10-2002-0066188
(22) 2002 10 29

(71) . 20

(72) 305 701

54 120-604

74-14 702

(74) :
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(54)

’ 1, 2 ; 1
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; 1 2 ; 1
; 2 , 가 2 , 1
가 , 1, 2 가 , 1, 2 가
1, 2 1, 2 가
가 , 가
가 .

4

1

2

3	1	.
4	2	.
5a, 5b	2	가 .
6	3	.
7	4	.
8	5	.

<
210 : 1 240 :
244 : 250 : 2
252 : 1 260 :
262 : 2 E :
T :

(Organic Electroluminescent Device) ,
(FPD ; Flat Panel Display) 가 가 ,
, 가 가 가
n) 가 , PDP(Plasma Display Panel) (depositio
e matrix) (passiv
(scan line) (signal line)
,
, (pixel) / (on/off) (Thin Film /
Transistor)가 (sub pixel) 1 2
, (frame) 가 가 가 (C_{ST} ; storage capacitance)

가 가 . 가 , , 가 가 가 .

1 .

1 .

1 , 1 (powersupply line) , 1 2 , .

(addressing element) (switchin (C_{ST})가 (current source element (Electrolumi

g TFT)가 , (C_{ST}) , nescent Diode)가 .

(cathode electrode) P(positive)-N(negative) (Junction) (anode electrode) 가 , .

2 .

1, 2 (10, 50) (30) , 1 (10) (30) (T) 1, 2 (T) 1 (34) 32) , 1 (32) (36) 2 (38) .

1, 2 (32, 38) 1, 2 (32, 38) (36) (E) .

2 (50) , 2 (50) (E) (52) (54)가 .

1, 2 (10, 50) 가 (70) .

가 , 1000 .

가 가 가 가 .

, 가 (deformation)

■

, , 1, 2 ; 1
; 2 1 ;
1 ;
2 , 1 가 , 2 , 가 ,
1, 2 가 , 1, 2
가 .

가 1, 2 가 5 ~ 20 % 가 .

$$2 \quad , \quad 2 \quad \text{가} \quad \text{가}$$

2, 1, , , 1, 2, 가, , 가
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1, 2, 가
2, 가
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1, 2, , 1,
가
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1, 2, ,
가 , 1
2
2
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1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 84

[illegible]

2

[illegible]

1 --
 3 1
 1, 2 (110, 150)
 1 (110, 150) (140) (T) (142)
 (140) (142) (144)
 (142) (144) (144)
 (144) (T)
 (T) (112), (114), (116) (118)
 (142) (118)
 2 (150) 1 (152) 1 (152)
 (156a, 156b, 156c) (160)
 (160) 2 (162)
 (160) 1 (152) 1 (154)
 (156a, 156b, 156c) 2 (162) 2 (1)
 1 (152) 2 (162) 1 (154)
 2 (158)
 1, 2 (152, 162) 1, 2 (152, 162) (160)
 (E)
 (144) 2 (162) (T)
 가 (142) (144) 2 (162)
 1, 2 (110, 150) 가 (170) 1, 2 (110, 150)
 2 4 5
 1

-- 2 --

4 2 , 가
3
,
(240) 1 (210) , 1, 2 (252, 262) 1, 2 (252, 26
(260) (E)가 2 (250)
2) , 1, 2 (210, 250) (240)
(E) , 가 (244)
(244)

(260) 1 (252)
,
,
.

, (244) (I) 가 , (E) (240)
, 가
(244) 가

5a, 5b 2 가 , 5
a, 5b 가

5a 2 (IIb) , (246) 1 (IIa),
(IIIc) , 1, 2 3 (IIIc)

$$\frac{IIc}{IIa} \times 100 \approx 5 \sim 20\%$$

, 5b (248)
5 (IIIc) 3 (IIIa), 4 (IIIb) , 3, 4

$$\frac{IIIc}{IIIa} \times 100 \approx 5 \sim 20\%$$

, (glass) 가 가 5 ~ 20 % , 5 % 가
가 , 20 % 가
.

5a, 5b 가 .

-- 3 --

가

2

, 가 2

6 3 ,

, 1 (310) (340) 2 (350) (E)
 , 가 (344) , (E) 2 (3
 62) (340) (318) , (E) 2 (3
 (364) (364)

(364) 2 (362) 가 , (344) 2 (362)
 , (344) 가 2 (362)

, (344) (IV) 가 , 5 ~20 %
 , 가 (E) (340)

(344) 2 가

-- 4 --

가

, ,

7 4 ,

, 1 (410) (440) 2 (450) (E)
 , 가 (444) , (E) (464) (
 440) (442)

, (444) (V) 가 , 5 ~20 %
 , 가 (E) (440)

(444) 가

(442) (444) (464) 6 ,
 (418) (T) (418) 가 (444)
 , (422) (420) (418) (418)
 (444) ,
 (442) (418) (444)

-- 5 --

8 5

, 가 , ,

ST1 , 1 , 2

[illegible]

(57)

1.
1, 2 ;
1 ;
2 1 ;
1 ;
2 ;
2 , 1 가 , 2 , 가
1, 2 가 , 1, 2
1 1, 2 가
2.
1 ,
1 , 1, 2 5 ~ 20 % 가
3.
1 ,
가 가
4.
1 ,
2 , 2 가 가
5.
1 ,
6.
1 ,
2 ,
7.
4 6 ,

- 1 8. , , , , .
- 1 9. , ;
- 2 1, 2 , 1, 2 가
- 1, 2 가 ;
- 1, 2 , 가
- 1 , 2 , 가 ,
- 9 10. ,
- 1 1, 2 5 ~ 20 %
- 9 11. ,
- 가 가
- 9 12. , ,
- 9 13. , , 2 가
- 2
- 9 14. , , 2

15.

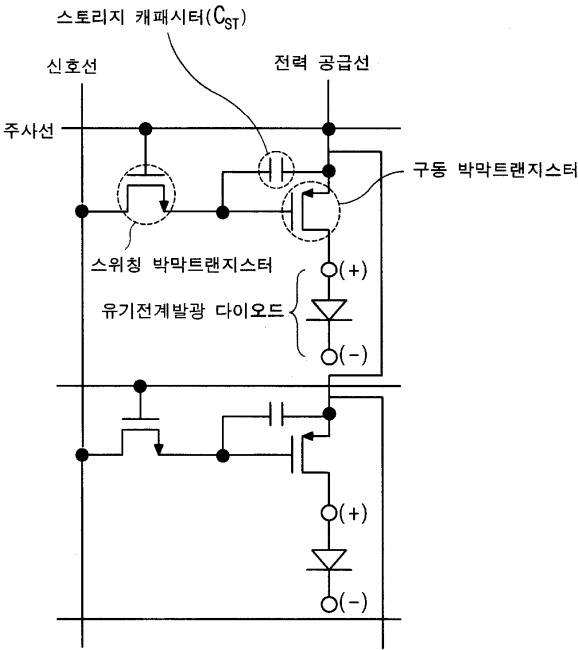
12 14

가

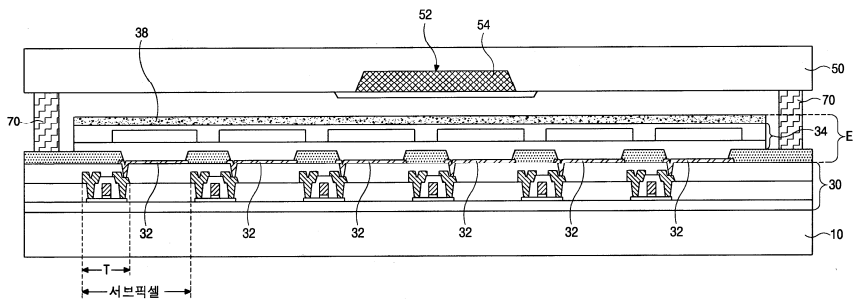
16.

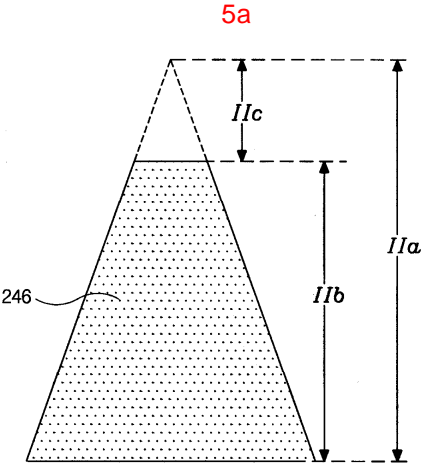
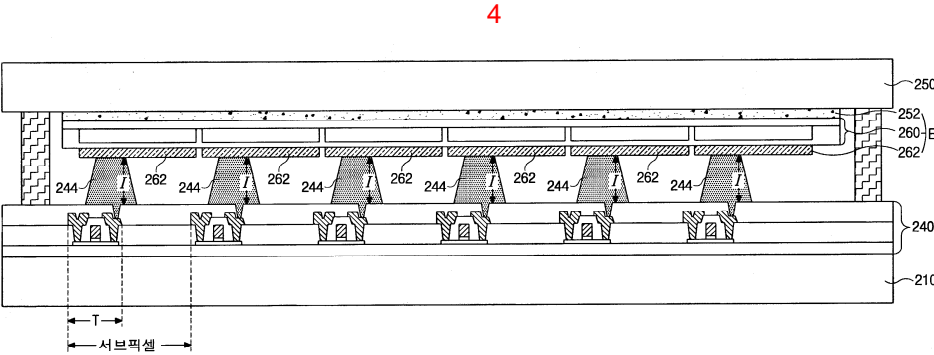
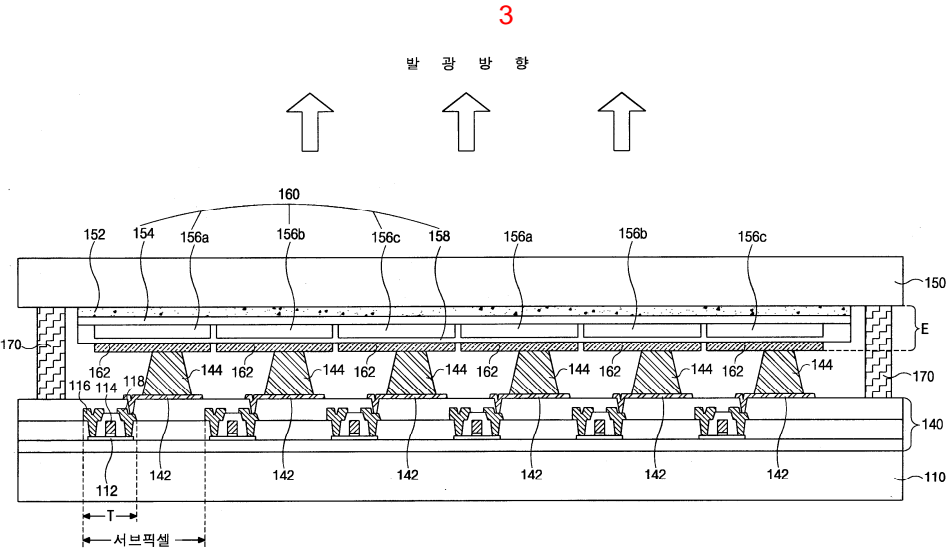
9

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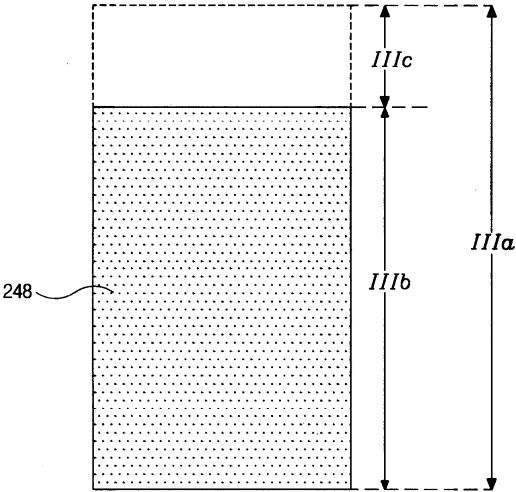


2

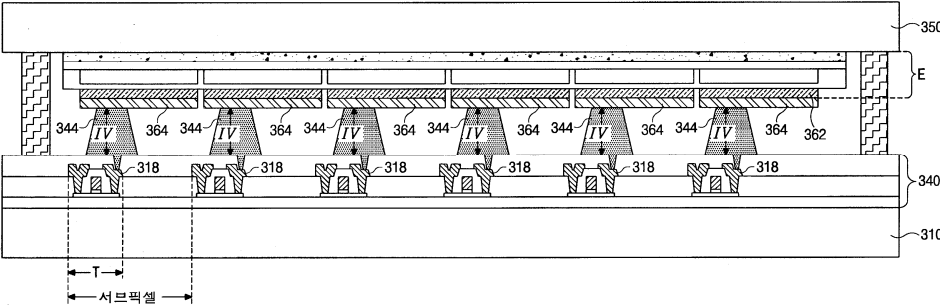




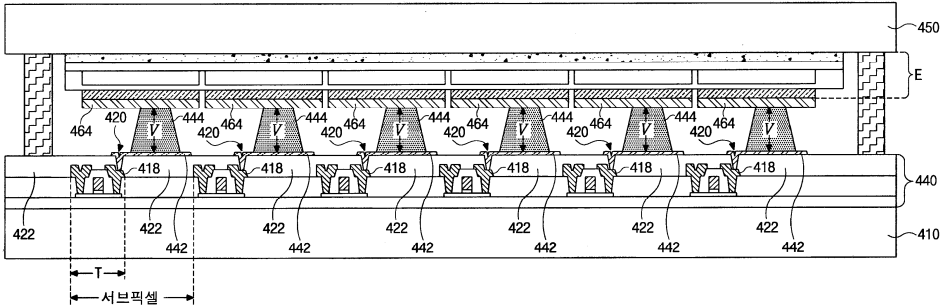
5b



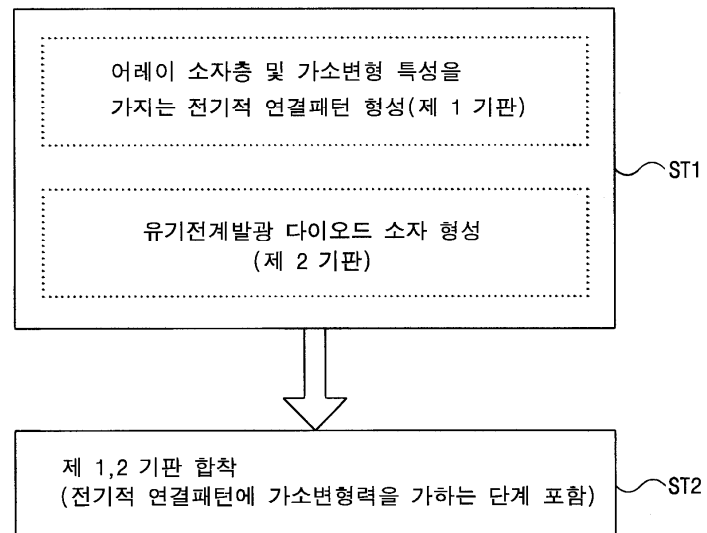
6



7



8



专利名称(译)	双面板型有机电致发光器件及其制造方法		
公开(公告)号	KR1020040037623A	公开(公告)日	2004-05-07
申请号	KR1020020066188	申请日	2002-10-29
[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 LEE NAMYANG 이남양 SASTRA BUDIMAN 버디맨사스트라		
发明人	박재용 이남양 버디맨사스트라		
IPC分类号	H01L27/32 H01L51/52 H05B33/00 H05B33/26		
CPC分类号	H01L2251/5315 H01L51/5237 H01L27/3253 H05B33/26 H01L51/524		
代理人(译)	贞媛KI		
其他公开文献	KR100460210B1		
外部链接	Espacenet		

摘要(译)

在本发明中，它被定义为在子像素区域的最小单位执行屏幕，并设置成彼此面对以预定距离间隔开的条件中的第一和第二基板；一种阵列元件层，包括以子像素为单位形成在第一基板的内表面上的多个薄膜晶体管；形成在第二基板的内表面上的第一电极；在第一电极下形成的有机电致发光层；第二电极形成在有机电致发光层下方的子像素单元上；阵列器件层和第二电极区域，薄膜晶体管sikimy eo和连接所述第二电极之间，具有含的特性的增塑剂应变在第一和第二基片的电连接图案包括所述材料的物质，所述第一高度位于边缘部分，所述第一，包括粘结到所述第二基板的密封图案，和周围的第一和第二基板的高度更聚结，以增加所述第一，其特征在于具有低和高的规定范围的电连接图案的由因为它们所连接的数组元素层，并使用具有变形性能的电连接图案的有机发光二极管装置，并且通过有机上述的电连接图案的塑性变形力阵列元件提供一种发光器件，增塑剂双面板型有机发光从而改善了发光二极管器件之间的连接特性。 4

