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1a ,
1b 1a (A) ,
2 ,
3 ,
4 ,
5a 5b 가 가
6 ,
7 ,
8 ,
9a 9b 가 가

* *

D₁₁₁ : D₁₁₂ :
C₁₁₁ :

가 , , (display)가 , LCD(Liqu
id Crystal Display) , EL LED (OLED
) OLED
OLED(Organic Light Emitting Device)

[illegible]

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, 83

) 1 (C₁₁₁) 2 (A) (A) , , .
 , (D₁₁₂) 가 .
 6 6 (A) (D₁₁₁) (D₁₁₂) (I_{D111})(I_{D112})가 , ,
 (D₁₁₂) (I_{D112}) .
 , 4 , (D₁₁₁) (5a A)
 가 , (D₁₁₁) (5b A)
 가 , (D₁₁₁) - 가 (turn-off) .
 , (D₁₁₂) (D₁₁₂) - (, 2 ~ 3V) 가 .
 , (D₁₁₂) 가 .
 , (D₁₁₁) (5a B) 가
 , (D₁₁₁) (5b B) 가 - (, 0.7V)
 가 , (D₁₁₁) .
 , (C₁₁₁) (D₁₁₁) (A)
 .
 , (D₁₁₂) (D₁₁₁) , (C₁₁₁)
 , (C₁₁₁) .
 , (D₁₁₁) (5a B) 가
 , (D₁₁₁) (5b B) 가
 (D₁₁₁) , (C₁₁₁) (D₁₁₂) (B)
 .
 6 , (B) (D₁₁₁) (D₁₁₁) 가 (,
 , I_{D111} = 0 A), , (D₁₁₂) (C₁₁₁) (C₁₁₁) (I_{D112})가 , ,
 (D₁₁₂) (C₁₁₁) 가 .
 , 6 , (B) (D₁₁₂) (I_{D112}) (C₁₁₁)
 (C) (D₁₁₂) (R_s) (T : Time constant, T = R_s × C)
 (, $-\frac{a V_o}{R_s C}$, V₀ , a) (D₁₁₂)
 12)가 가 , (B) , (D₁₁₂) (D₁₁₂)
 .
 , (B) , (D₁₁₂) (I_{D112}) 가 , (C₁₁₁)
 111) (C) (D₁₁₂) (R_s) 가 (I_{D112}) (C₁₁₁)
 (, $-\frac{a V_o}{R_s C}$) , (I_{D112}) (D₁₁₂)
 I_{D112} ' 가 , 가 (I_{D112}) , (I_{D112})
) (D₁₁₂) I_{D112} ' 가 .
 ,
 (D₁₁₂ , ..., D_{nm2}) (A) (D₁₁₁ , ..., D_{nm1}) 가 , (B)
 (C₁₁₁ , ..., C_{nm1}) .

7
 (500) (400) M×N (400), (400) (400)
 ,
 (D₁₁₁ ,...,D_{nm1}) (500) 가 (T₁₁₁ ,...,T_{nm1}) 가 (T₁₁₁ ,...,T_{nm1}) 가
 , (T₁₁₁ ,...,T_{nm1}) (600)
 , (D₁₁₁ ,...,D_{nm1}) (D₁₁₁ ,...,D_{nm1})
 , 7 M×N 1 1 (N_{402_1} ×M_{401_1})
 ,
 8 (T₁₁₁) , 8 (C₁₁₁)
 , (D₁₁₁) 가 9a 9b
 , 가
 8 (T₁₁₁) (7 500) /
 , (7 600) (C₁₁₁) (D₁₁₁)
 , (T₁₁₁) (9a A1) 가 ,
 , (C₁₁₁) (D₁₁₁)
 , (C₁₁₁) (T₁₁₁) 1 (T₁₁₁)
 ,
 (D₁₁₁) (T₁₁₁) (C₁₁₁) 1
 , (D₁₁₁) (C₁₁₁) 1 2
 , (T₁₁₁) 가 (9a B1) 가 ,
 , (C₁₁₁) (D₁₁₁)
 , (C₁₁₁) (T₁₁₁) (A1)
 ,
 (D₁₁₁) (T₁₁₁) , (C₁₁₁) 가
 , (C₁₁₁)
 , (B1) , (D₁₁₁) 6
 ,
 (D₁₁₁ ,...,D_{nm1}) (A1) (T₁₁₁ ,...,T_{nm1}) 가 (B1)
 ,
 (C₁₁₁ ,...,C_{nm1})
 ,
 가

'M×N' M , N 가
가 .
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(57)

1.

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가 , 1 , 2 가
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가 가 1 , 가 2
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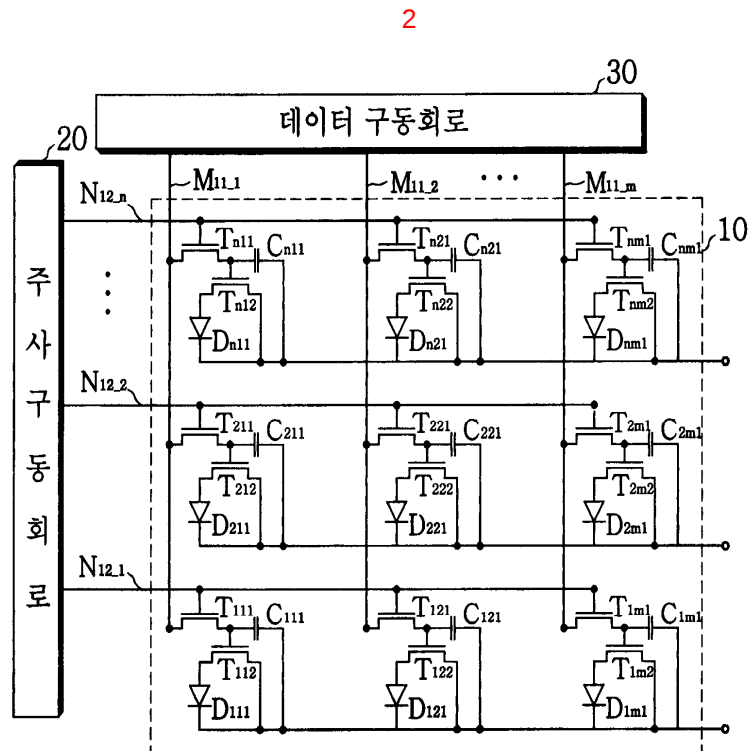
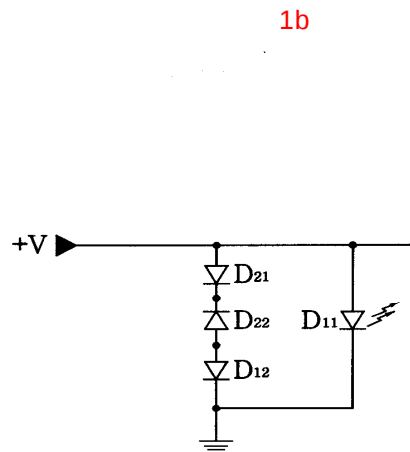
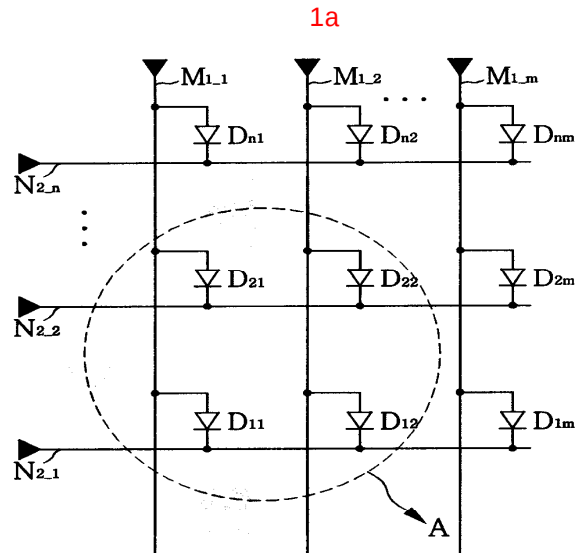
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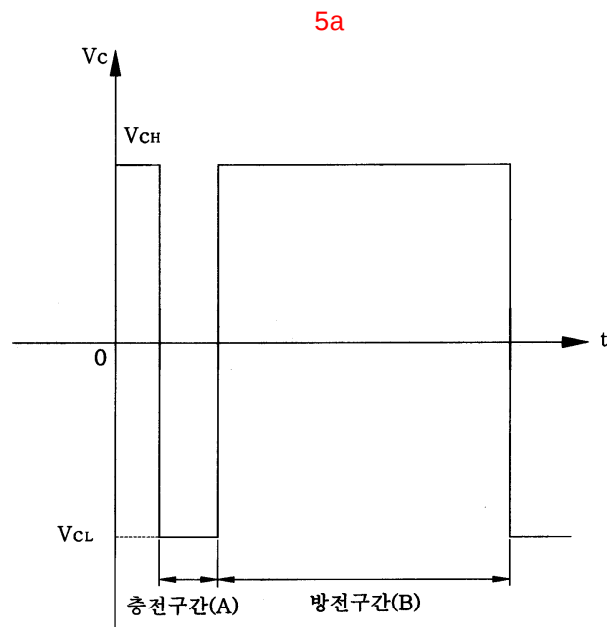
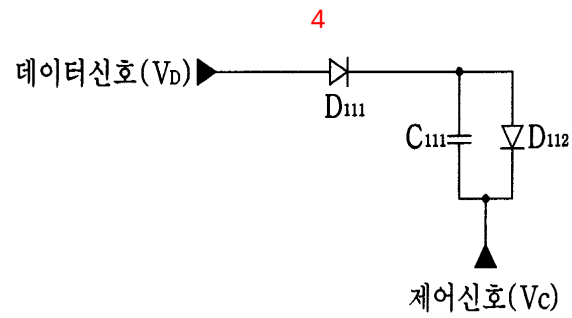
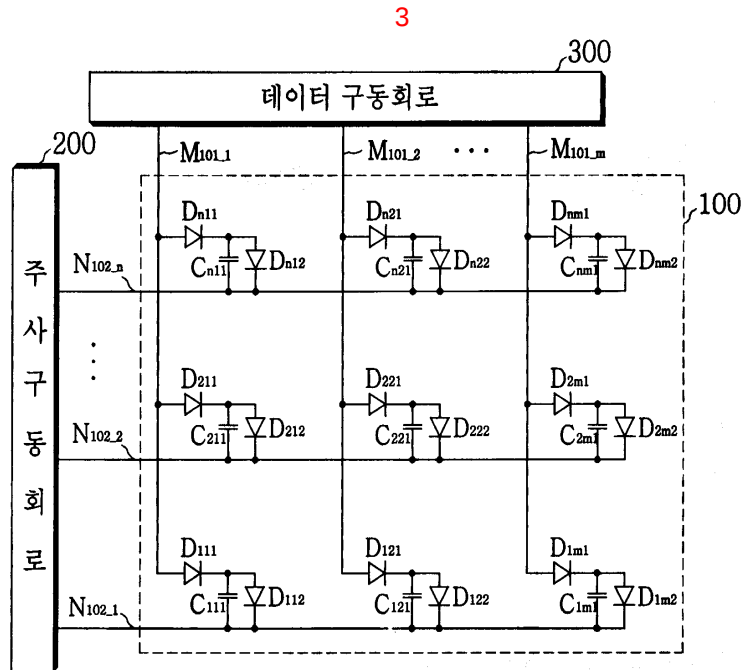
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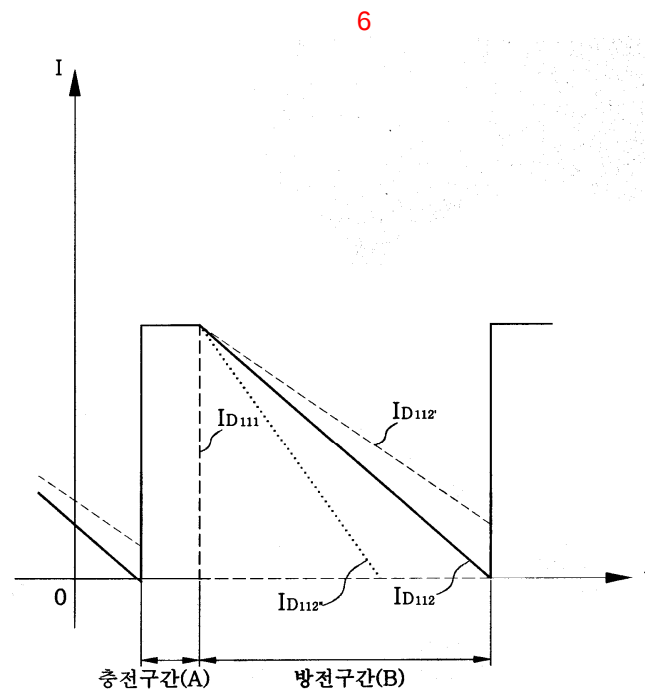
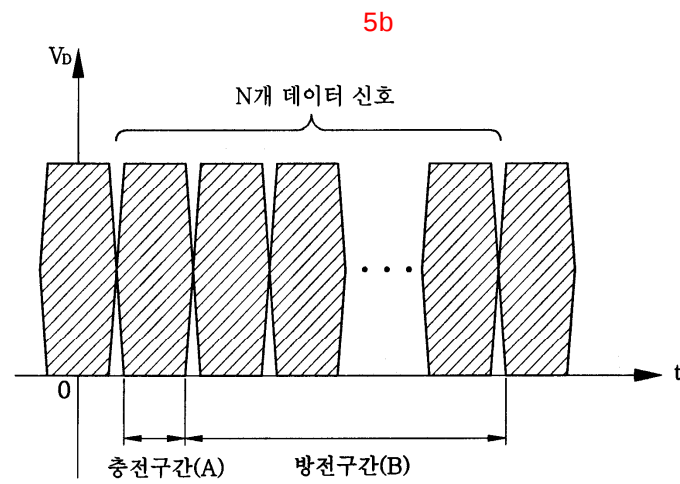
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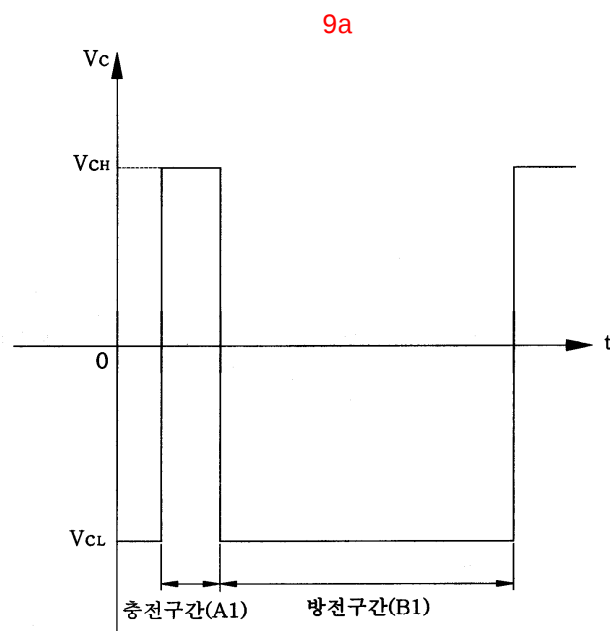
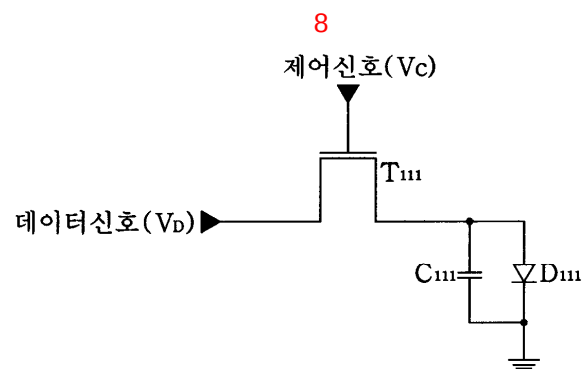
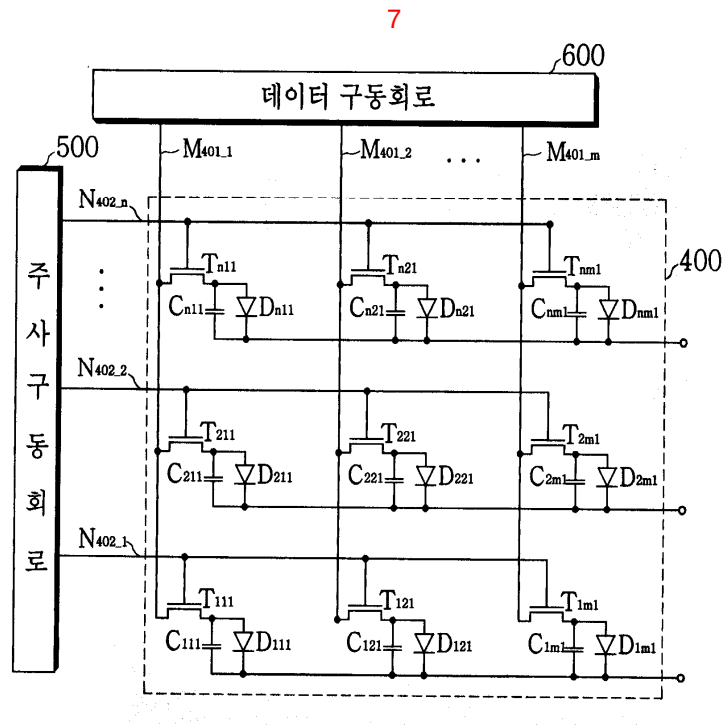
2 ,
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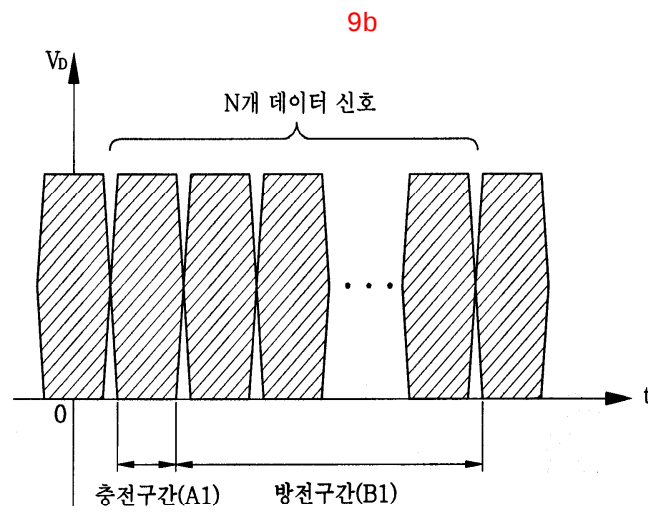
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5 ,
(high) 1 , 1
(low) 2 ,
/
12 11 , 11 11 /
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专利名称(译)	一种矩阵型显示器的发光元件驱动装置		
公开(公告)号	KR1020040039021A	公开(公告)日	2004-05-10
申请号	KR1020020066638	申请日	2002-10-30
申请(专利权)人(译)	宇预支給显示器材料有限公司		
当前申请(专利权)人(译)	宇预支給显示器材料有限公司		
[标]发明人	SHIM JAEHOON 심재훈 KIM SUNGMIN 김성민 KIM BONGOK 김봉옥 PARK NOGILL 박노길 KWAK MIYOUNG 광미영 SEO JONGWOOK 서종욱 KIM YOUNGKWAN 김영관		
发明人	심재훈 김성민 김봉옥 박노길 광미영 서종욱 김영관		
IPC分类号	G09G3/32 G09G3/20		
CPC分类号	G09G2300/0895 G09G2300/0842 G09G3/3225		
代理人(译)	PARK , IL YOUNG		
其他公开文献	KR100473153B1		
外部链接	Espacenet		

摘要(译)

本发明涉及矩阵型显示器的发光元件驱动装置。并且，根据本发明的矩阵型显示器的发光元件驱动装置包括二极管，电容器和发光器件。如果二极管在导通的情况下成为多个像素内的发光器件，则其基于与输入的控制信号和数据信号的电位差对应的电流量向固定亮度辐射。如果二极管关闭，则晶体管辐射到固定的亮度，并且根据电容器的放电，基于电流包括电容器和发光器件。如果晶体管是多个像素内的发光器件，则打开光发射装置基于对应于输入数据信号的电压电平的电流量辐射到固定亮度。如果晶体管截止，它根据电容器的放电电流辐射到固定的亮度。根据本发明，M的发光器件连接到M×N的像素的每一行到无源矩阵型显示器。通过将N的二极管连接到每个热量，可以最小化每个像素的交叉转矩模量的产生。并且该配置通过简化用于驱动每个像素的发光装置的电子装置的配置，使得矩阵型显示器的制造过程简单。并且配置的优点在于，由此可以节省生产成本产品。

