

(19) (KR)
(12) (A)

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(30) JP-P-2002-00293455 2002 10 07 (JP)

(71) 가 가 21

(72) 21 가 가

21 가 가

21 가 가

(74)

⋮
(54) E L E L

EL 가 EL

1, 2 3
1 R
2 G
3 B

1

1 EL EL
;

2 , 1 EL

;

3 R, G B

EL (Electro Luminescence)

EL

, R(), G() B()

,

(Dynamic range of regulation)가

PHS

EL

.

, PHS, DVD

PDA ()

396 (132 x 3)

162

EL

EL

가

가

.

EL

-

,

가

EL

,

.

EL

가

,

가

.

R, G B
EL

, R:G:B = 6:11:10

EL

.

R, G B

,

-

R, G B

EL

(white balance)

.

, R, G B

.

JPH 9-232074A

EL

EL

EL

EL

, JP20

01-143867A

EL

,

EL

DC-DC

.

R, G B

EL

가

(EL

)

EL

,

R, G B

.

R, G B

가

, 4

D/A

, R, G B

R, G B

, 30 μ A

75 μ A

.

EL

가

, D/A

가

4

.

, R, G B 가 D/A , 6 8
가 가 가 1

R, G B EL EL EL
가 EL

R, G B 가 EL EL
EL

, R, G B EL EL

가 1, 2 3 , 1 R
3 , 2 G
B

1, 2 3 R, G B R, G B
EL R, G B

1, 2 3 가
R, G B EL

가 1, 2 3 가 1, 2 3

1, 2 3 EL R, G B R, G B
EL

가 R, G B
R, G B

1 , IC EL EL (10) G, R B
(1G), (1R) (1B) (1G), (1R) (R-
(2R) (R- 2R) (2G) (G- 1B)
(2B) (B-

(2G), (2R) (2B) 1 가
Ig, Ir Ib R, G B
Ig, Ir Ib , D/A

(3G), (3R) (3B)

IC (gold bumps),
EL , 1
9G1, 9R1, 9B1, 9G2, 9R2, 9B2, ...,

$k \times I_g, m \times I_r, n \times I_b$, 4 , k, m, n .
 (1G), (1R) (1B) D/A (1a)
 (1b) , (1G), (1R) (1B) D/A MPU(12) (1a)
 , G, R B Ig,
 Ir Ib 가 , Ig, Ir Ib
 MPU(12) (8) DAT , D/A (3G), (3R) (3B)
 (2G), (2R) (2B) Ig, Ir Ib G, R B
 EL IG, IR IB
 가 (5G), (5R) (5B) , (4G), (4R) (4B)
 (5G), (5R) (5B) .
 9G1, 9R1, 9B1, 9G2, 9R2, 9B2,..., (10) .
) 가 EL (11) . (5G), (5R) (5B)
 () 9G1, 9R1, 9B1, 9G2, 9R2, 9B2,..., .
 (6) 가 가 .
 가 PG 가 (6) G
 (4G) IPG M 10 가
 (usual drive current) IG M 가 R
 (4R) 가 PR (6) R
 R M IPR B , (4B) 가 I
 (6) IB M IPB PB
 (6) PG, PR PB (7) Ps
 Ps 3 PG, PR PB G, R B EL
 3 PG, PR PB TG, TR TB MPU(12)
 가 MPU(12) (13)
 MPU(12) , MPU(12)
 EL (6) .
 (6) RAM MPU(12) TG, TR TB , 3
 , PG, PR PB
 (6) CLK PG, PR PB ,
 (6) 가
 (1G),(1R) (1B) (1b) .
 (7) Ps , MPU(12)
 Ps (sync)
 EL (11) Ps
 EL 가
 , R, G B , R:G:B = 6:11:10
 PG, PR PB TG, TR TB TG < TB < TR 가 .
 2 (10) .

1 D/A (3G),(3R) (3B) D/A (4G), (4R) (4B) 2 (3)
가 , 1 (5G), (5R) (5B) 2 ,
(4) (5)

2 D/A (3), (4) (5)
(2) (2G), (2R) (2B) Ig, Ir Ib

2 Qs Qt PNP 2 Qs PNP 2 Qt (5)
Qs Qt P MOS FET Trs Trt

Qs Qs Qt D/A (3) (3a) Qt
, (x + 1) x Ia 가 (5a) D/A (3) Ia 가
(4) Trt가 , D/A (3) Ia (x + 1)
Trs Trt Trt CONT 가 'H'
가 3 가 , (4) 가 R 가 G PG PR
가 (4) (4)가 B PB
Qu Qw (5) PNP Qx , (1 + x) x Ia PNP Qx
EL (5) PNP (5) PNP N
9G1, 9B1, 9G2, 9R2, 9B2,..., Qy (9)
+15V +20V (5) Qx Qy +Vcc 1:N Qy (9)
N x (1 + x) x Ia 가 (11) (9)
, G, R B PG, PR PB Ig, Ir Ib
1G, 1R 1B D/A
가 D/A D/A
, R, G B R:G:B = 6:11:10
G B R G B , G B
G B (1G) (1B) Ig Ib ,
(1G) (1B) , G B 가
(1G) (1B) 가 1
EL PHS EL , R, G B

(57)

1.
R, G B
- EL EL ,
;
1, 2 3 , 1 R
3 B G
EL .
2.
1 ,
1, 2 3 EL , 1 2 3
EL .
3.
2 ,
R, G B ,
가 , R
, G R G
B B EL .
4.
3 ,
1 D/A , R
1 D/A , G R
G 1 D/A B
B 1 D/A ,
R, G B 1 D/A R, G B
D/A ,
D/A EL EL .
5.
4 ,
3 R, G B
EL .
6.
5 ,

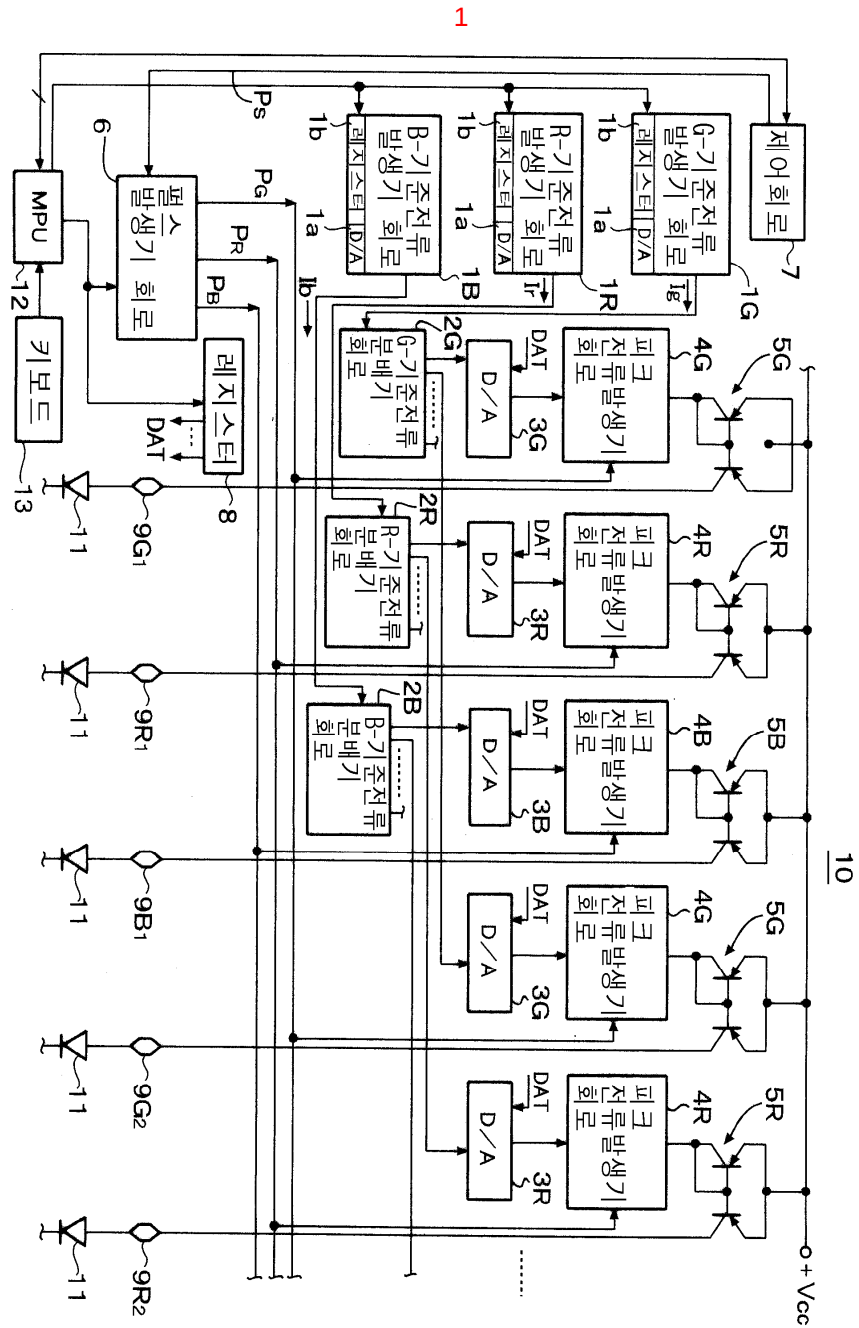
The diagram illustrates a system architecture with 12 numbered steps. Each step shows a light path involving a light source (D/A), a lens (2 D/A), a mirror (D/A), and a detector (D/A). The steps are arranged in a sequence, with the light path changing in each step. The steps are labeled 1 through 12, and the light path is labeled with D/A, EL, and 2 D/A. The steps are arranged in a sequence, with the light path changing in each step. The steps are labeled 1 through 12, and the light path is labeled with D/A, EL, and 2 D/A.

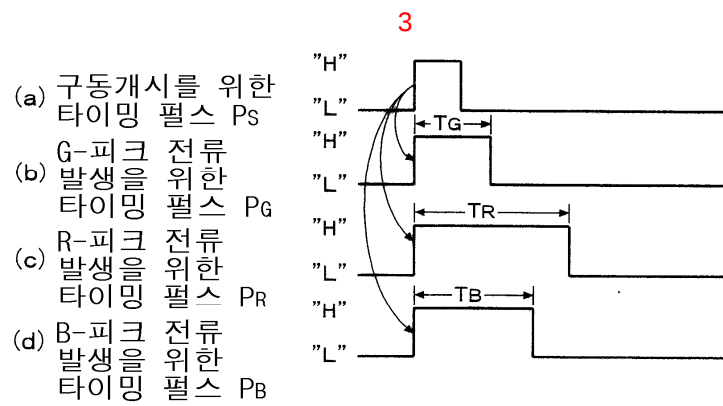
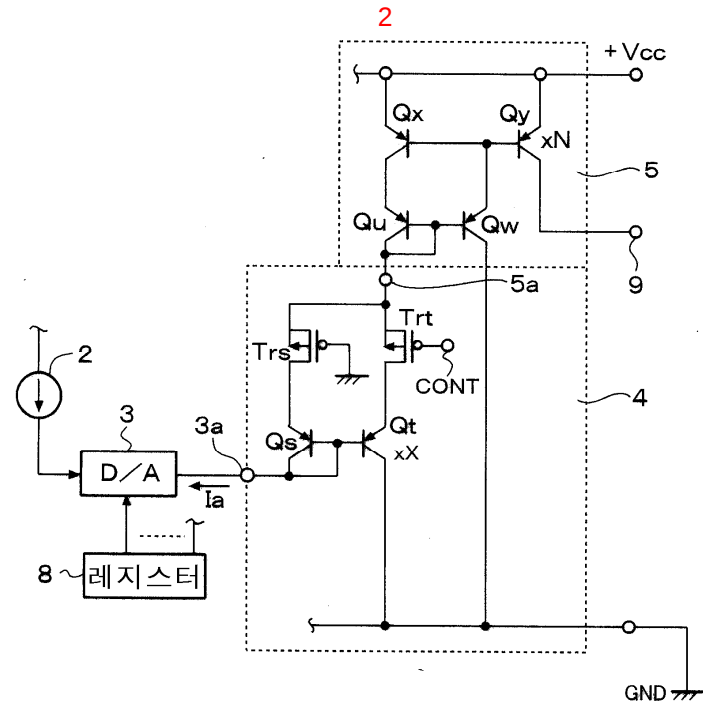
12 **13.** ,

R, G, B, EL, 2 D/A, 2 D/A

14. 13 EL 가 EL .

14 **15.** ,
 , 가
EL .





专利名称(译)	一种有机EL元件驱动电路和使用该驱动电路的有机EL显示装置		
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摘要(译)

有机电致发光显示驱动电路包括对应于预定脉冲信号的脉冲长度的峰值电流的一部分，该预定脉冲信号是用于产生包括第一和第二的预定脉冲信号的脉冲发生器电路，以及具有多个峰值电流发生器的具有确定的脉冲长度的3个脉冲。此外，对应于端子引脚的电路安装在脉冲发生器电路中，根据有机电致发光显示板的外部固定数据来做。脉冲发生器电路将第一脉冲作为预定脉冲传送到以R显示颜色安装的峰值电流发生器电路的端子引脚。在将作为预定脉冲的次级脉冲传送到安装在G显示颜色的峰值电流发生器电路的同时，作为预定脉冲的第三脉冲被传送到以B显示颜色安装的峰值电流发生器电路。

