

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷ G09G 3/30		(11) (43)	10-2004-0061902 2004 07 07
(21)	10-2002-0088204		
(22)	2002 12 31		
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(72)	2 1057-10103		
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(74)	:		
(54)	-		

가

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20,40 : - 22,42 :

24,44 : 26,46 :

28,48 : 30 :

31,32,33,34,35,52,54,56,58,60,62,70,72,74,76,78,80 :

50 :

- ,
- .
(Cathode Ray Tube) (Liquid Crystal Display), (Field Emission Display),
(Plasma Display Panel) - (Electro - Luminescence : , EL)

EL
EL EL EL , ,
, , , 가 , ,

EL , , , 가 , , 가
EL EL , , , 가

EL EL 1 (SL)
(DL) (28) EL (20) , EL (20) (24) ,
(SL) (24) (22) , EL (20) (DL) (26) .
(22) (SL) (SL) .
(24) (26) 가
(DL) , (24) 가
(28) (SL) 가 (DL)

, (28) 2 (GND) EL (OEL) ,
(SL), (DL) (VDD) EL (OEL) EL (OEL)

(30)

가 (30) (SL) 가, (DL) 가, 1 (N1) 가,
 EL (EL) 가 (T1) , 1 (N1) (T2) , (VDD) 1 (N1) 가,
 (C) .

1 (N1) (T1) (SL) 가 - (DL)
 (T2) 1 (N1) (C)
 (VDD) EL (OEL) (T2) (I) EL (OEL) 가
 , (T1)가 - (C) (VDD)
 (I) EL (OEL) (T2) EL (OEL) 가
 3 (26) .

3 (26) n(n) ((Gamma 1 Gamma n) (VDD) (GND) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n)) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n)) (VDD) (Gamma 1 Gamma n) .

(26) n ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n)) n
 (Gamma 1 Gamma n) (Gamma 1 Gamma n)
 (24) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n))
 (Gamma 1 Gamma n) (31 35) 가 (24) .
 (24) (Gamma 1 Gamma n)
 (DL) EL (20) ,
 EL EL (OEL) (I) (T2) (I) (T2) (VDD) (Vth) EL (20)
 (T2) (T2) 가 (T2) (Vth) (T2) (Vth) EL (20)
 (T2)가 - , (T2) (Vth) (T2) .
 , EL (20) (T2) (Vth) (T2) .
 (T2) .

1 (T2) (Vth) 0.3V 가 (Vth) 0.7V ,
 2 (T2) (T2) 9.5V (Vth) 2 (VDD=10V 가) ,
 (, 가), 1 (T2) (Vth) .(,
) , (T2) (Vth) .

가

가 (FPC) 가

가

가

가

가

가

가 . 가

가 ; 가 .

4 6 .

4 .

4 , EL (SL) (DL) (48) EL (40) , EL (40) (SL) (44) , (44) EL (40) (42) , EL (40) (DL) (46) (50) . (SL) (42) (SL) (44) (46) 가 (DL) . (48) (SL) 가 (DL) , (SL), (48) (DL) (30) 2 (VDD) EL (OEL) EL (OEL) , EL (OEL) 가 (30) (SL) 가, (DL) 가, 1 (N1) 가, (VDD) 1 (N1) 가, EL (EL) (C) 가 (T1) , 1 (N1) (T2) , (VDD) 1 (N1) 가, 1 (N1) (T2) . 1 (N1) 가 - (DL) (C) (DL) (T2) (VDD) EL (OEL) (T1)가 - 가 (C) EL (OEL) 가 (I) EL (OEL) (T2) EL (OEL) 가 . (50) EL (40) (50) (VDD) (46) (44) (46) (T2) . (50) (46) 5 . 5 (T3) , (50) (VDD) (T3) , (46) . (46) (T3) (VDD) (46)

(T2)

(46) n(n) (Gamma 1 Gamma n) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n)) (VDD) (GND) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n))

(46) 가

((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n))

(Gamma 1 Gamma n) 2 (54 62) 가 (44)

(Gamma 1 Gamma n) (DL) EL (40)

(46) (VDD)

(T2) 가 EL (40)

2 1 (T2) (Vth) 0.3V 가 (Vth)= 10V 가) , 1 2 1 9.3V , 2 (VDD) 2 (9.3V) 가 0.7V, (Vth) (VDD) 1 2 (9.7V) 0.3V, 2 (Vth) 2 가 . , 1 2 VDD(10V) 가 1 2 (T2) (Vth) 가 (T2) (Vth) 가 , 1 2 5V 가 1 5V - 0.7V = 4.3V 4.3V + 0.7V = 5V 가 , EL (OEL) 5V (VDD-5V) 가 2 5V 5V - 0.3V = 4.7V 4.7V + 0.3V = 5V 가 , EL (OEL) 5V (VDD-5V) 가 (T2) (T2) EL (40) (50) 가 (T2)

(T3) TCP(Tape Carrier Package) TCP (44) TCP EL (40) TCP 가 (42) EL (40) (Flexible Printed Circuit : FPC)

(46)

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6 (VDD) (GND) 1 2 (Rd1, Rd2) , 1 2 (Rd1,Rd2) n(n) ((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n))

(Gamma 1 Gamma n)

(70) ,
Gamma n)

1 2 (Rd1, Rd2)
((R1R2), (R3R4), (R5R6), (R7R8),..., (R2n-1,R2n))
2 (72,74,76,78,80) 가

(Gamma 1 1
(Gamma 1 Gamma n)
(Gamma 1 Gamma n)
(Gamma 1 Gamma n)
(DL) EL (40)

1 2 (Rd1, Rd2)
(T2) (Rd2) 가 EL
(Vth) , 2 (Rd2) EL (T2) (

2) , EL EL 2 (Rd) EL
th) , EL 2 (Rd2) (T2) (V
n) 2 (Rd2) (Gamma 1 Gamma

2 가

가

(57)

1.

2.

1

2 3. ,

3 4. .

3 5. ,

5 6. ,

5 7. ,

1 8. ,

8 9. ,

1 10. ,

11.

가 (FPC) 가

가

12.

11

가

가

13.

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14.

13

가

15.

가

16.

15

17.

16

18.

가

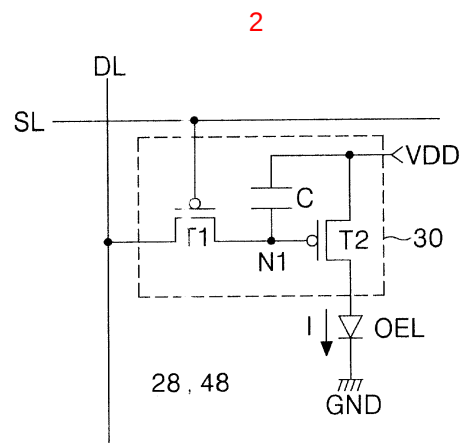
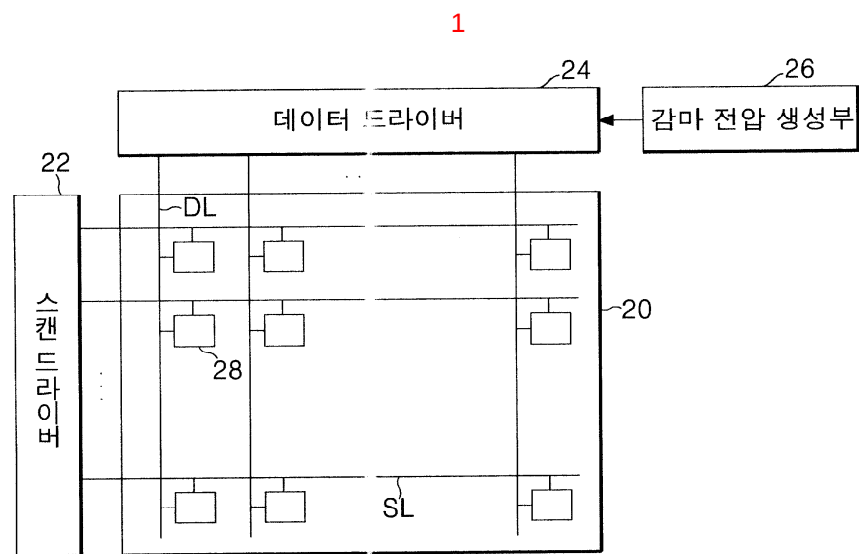
가

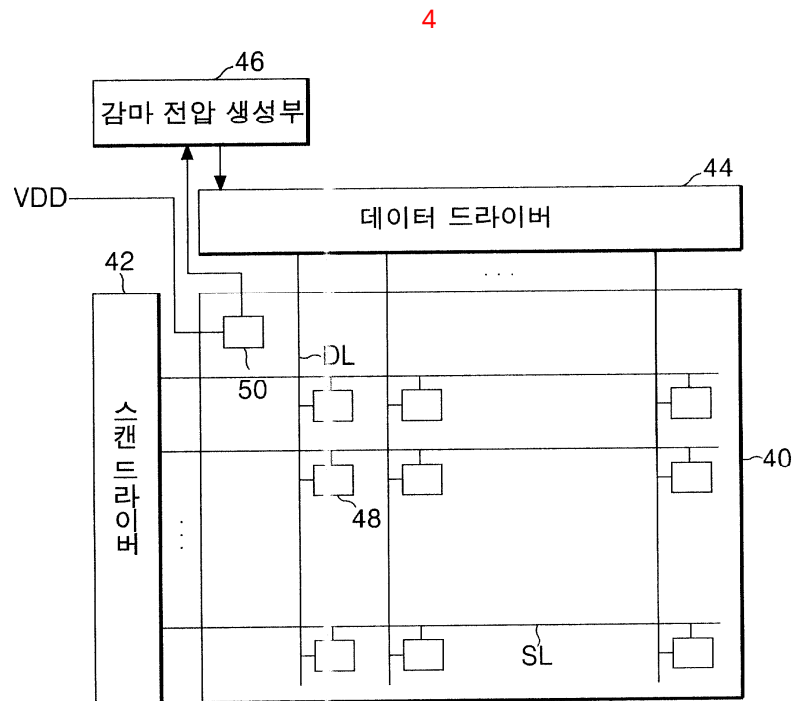
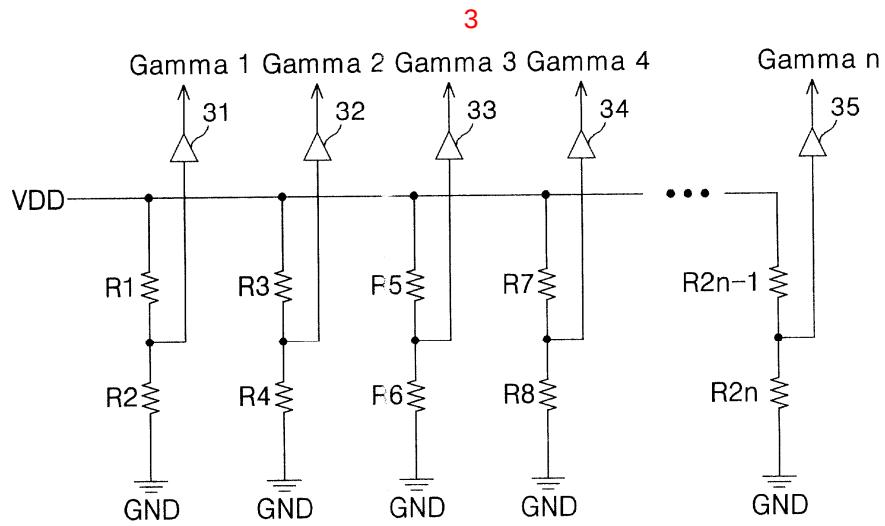
가

19.

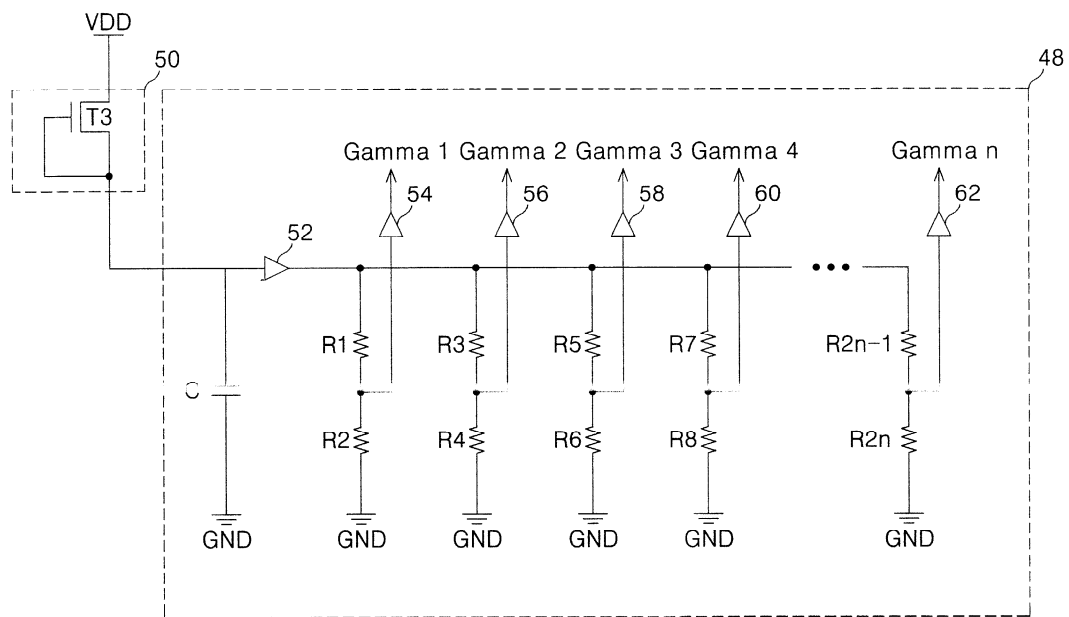
18

가

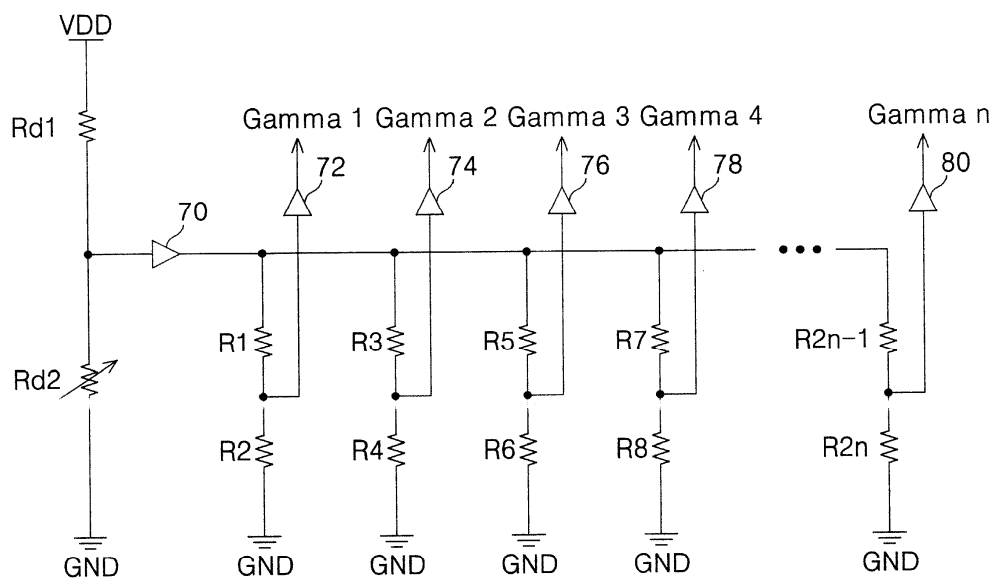




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专利名称(译)	电致发光显示装置及其驱动方法		
公开(公告)号	KR1020040061902A	公开(公告)日	2004-07-07
申请号	KR1020020088204	申请日	2002-12-31
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	LEE HANSANG 이한상 LEE MYUNGHO 이명호		
发明人	이한상 이명호		
IPC分类号	G09G3/30		
代理人(译)	KIM , YOUNG HO		
其他公开文献	KR100509760B1		
外部链接	Espacenet		

摘要(译)

电致发光显示装置技术领域本发明涉及一种能够补偿面板之间的亮度不均匀的电致发光显示装置。根据本发明的电致发光显示装置包括多个面板，在多个面板中的每个面板中提供的数据驱动器以从外部接收数据，一种伽马电压发生器，用于通过将电源电压源的电压值分成多个电压电平来产生伽马电压，从而可以产生伽马电压；以及用于调节电压的电压值的阈值电压补偿器。五

