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(12)(KR)
(A)(51) 。 Int. Cl. ⁷
G02F 1/133(11)
(43)2002 - 0039257
2002 05 25(21) 10 - 2001 - 0072132
(22) 2001 11 19(30) JP - P - 2000 - 0035 2000 11 20 (JP)
3427(71) 가 가
가
5 7 1

(72) 5 7 1 가 가

(74)

:

(54) ,

가 / 가
가 가 TCP , , TCP
가 ,
.

1

, TCP, ,

1

1

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2	1		A5	A0	Ch R0	Ch R17, Ch G0
Ch G17,	Ch B0	Ch B17				
3	1		D7	D0	V ₀	V ₂₅₅
4	1					(22)
	(22 ₁)					
5	4	(22 ₁)		(23)		
6	4	(22 ₁)		(25)		(25 _R)
7	1					(25 _R)
(D _R)	8		V _{GR0}	V _{GR127}	V _{GR128}	V _{GR225}
8	1					
9	1					
10	2					
11a, 11b	11c	2				
D _{G17}		D _{B0}	D _{B17}	D _{R0}	D _{R17} ,	D _{G0}
V ₀	V ₂₅₅			DR7	DG0, DG7	DG0 DB7 DB0
12	2					(42)
	(42 ₁)					
13	2		(42 ₁)		(43)	
14	2					
15	2					
16					(22)	
(25 _R)		D _R	8	V _{GR0}	V _{GR127}	V _{GR128} V _{GR225}
17						
18	17		(3)			
19	17		(4)		(4 ₁)	
20	17					

21 17

가

, 2000 11 20 2000 - 353427

17 2000 - 353427 2001 5 18

2001 - 134242 (1) 2001 - 134242

(1) TFT(

TFT

D_R , D_G , D_B

(1) (off) 가 (on) 가

17 (1) (2), (3),

(4) (5)

(2) , ASIC(Application Specification Integrated Circuit)

8 D_R , 8 D_G 8 D_B (4) 가

1) P_H , P_V , POL (4)

(5) (2) D_R , D_G D_B

D_{GB} (3) D_{GR} , D_{GG}

(1) (, 1) , " 가 - "

(, V - T) (match) (, 2

18 (3) / (DAC; 11₁ 11₃) (12₁

12₅₄) . DAC(11₁) (2) D_{GR} V_{R0}

V_{R17} (12₁ 12₁₈) 가 , DAC(11₂) (2)

D_{GG} V_{G0} V_{G17} (12₁₉

12₃₆) . DAC(11₃) (2) D_{GB}

V_{B0} V_{B17} (12₃₇ 12₅₄) (12₁ 12₅₄)

V_{R0} V_{R17} , V_{G0} V_{G17} ,

(4)

(4) K ("K" .) (4₁ 4_K) .

(4₁ 4_K) (3) , (2) D_R, D_G
D_B , V_{R0} V_{R17} , V_{G0} V_{G17} ,
V_{B0} V_{B17} , (1)
D_R, D_G , D_B , 384
(1)가 1280 × 1024 SXGA(Su
per Extended Graphics Array) , (R) , (G) (B)
3840 × 1024가 . ,
(4) 10 (4₁ 4₁₀ ; 3840 ÷ 384)
. (4₁ 4₁₀) 가 가
가 , (4₁) .

19 (4₁) . 19 ,
(4₁) (MPX; 13₁ 13₃), DAC(14₁ 14₃)(8 -),
(15₁ 15₃₈₄) . MPX(13₁) (2) POL ,
(3) V_{R0} V_{R17} , V_{R0} V_{R8}
V_{R9} V_{R17} , DAC(14₁) 가 MPX(13₂) (2)
POL , V_{G0} V_{G17} ,
V_{G0} V_{G8} , V_{G9} V_{G17} , DAC(1
4₂) . MPX(13₃) (2) POL , (3)
V_{B0} V_{B17} , V_{B0} V_{B8} V_{B9}
V_{B17} , DAC(14₃) .

DAC(14₁) , MPX(13₁) V_{R0} V_{R8} V_{R9}
V_{R17} , (2) 8 D_R ,
. 가 , DAC(14₂) , MPX(13₂) (15₁, 15₄, 15₇, ..., 15₃₈₂)
V_{G9} V_{G17} , (2) 8 V_{G0} V_{G8} D
G , (15₂,
15₅, 15₈, ..., 15₃₈₃) . DAC(14₃) , MPX(13₃) V_{B0} V_{B8}
V_{B9} V_{B17} , (2) 8
D_B ,
(15₃, 15₆, 15₉, ..., 15₃₈₄) . (15₁ 15₃₈₄) (1)
, DAC(14₁ 14₃) 가 .

17 (5) P_V가 (2)
, (1) .

가 (1) 가 (1) ,
20 , (2) (3)가 (16) (4
1 4₁₀) (1) (16) 10 ,
. , TCP(Tape Carrier Package; 17₁ 17₁₀) . 21
, (16) (1) (18)
. (18)
가 , (1)
(1) .

(1) 가 . , (1)
 , (3) (4₁ 4₁₀)가 ,
 54 V_{R0} V_{R17} , V_{G0} V_{G17} , V_{B0} V_{B17} 10
 (4₁ 4₁₀) 가 .
 , (shortcoming) 가 .

1 (16) 54 TCP(17₁ 17₁₀) .
 1.27mm . , (1
 6) 54 , (16) , V_{R0} V_{R17} ,
 V_{G0} V_{G17} , V_{B0} V_{B17} 54
 (20) , 2cm . , 21 , (16)
 (18) . , (18)

(1) (1) (16)
 가 (1) , (1)가
 , (1), (1)
 (18) 가 , 가 .

TCP 가 (16)
 , TCP 300 μ m . ,
 (16) 54
 TCP(17₁ 17₁₀) , TCP(17₁ 17₁₀) W_T 1.6cm
 (20) . , 10 (4₁ 4₁₀)가 SXGA 18
 , TCP(17₁ 17₁₀) (fitting with) 16cm , 10
 TCP(17₁ 17₁₀) (16) W_T 가
 (20) .

2 (16) 54 TCP(17₁ 17₁₀) .
 , (16) 54 TCP(17₁ 17₁₀)
 , (16) 54 (16)
 54 54 .
 0.8mm , 0.8mm 가 54 (

1 2 , V_{R0} V_{R17} , V_{G0} V_{G17} , (16)
 V_{B0} V_{B17} 54 가 , TCP(17₁ 17₁₀) W_T 가 ,
 D_P, TCP(17₁ 17₁₀) , (16) TCP(17₁ 17₁₀)
 , 가 .

, 가 / 가
 , TCP , TCP 가 . ,
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1 ,

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가 .

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가

가

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가

가

가

3

4

가

가

가

1, 17, (2), (3), (4), (21), (1), (22)가, (21), ASIC(Application Specification Integrated Circuit), 8, D_R, 8, D_G, 8, D_B, (22)가, POL, CLK, CS, SCLK, LT, P_H, SDATA, P_V, (22), (5).

CLK (22) CS D_R, D_G
 D_B (" ") CLK LT
 SCLK (22) SDATA (22) 1 4
 , 5 (28)가 " K" (" K")
 22_K) (27)
).
 SDATA (n+1) (" n") (m+1) (" m")
 (22) , CS SCLK " " ,
 , D_R, D_G D_B
 Ch R0 Ch R17, Ch G0 Ch G17 Ch B0 Ch B1
 7 D_R, D_G D_B
 2 " n" =5 A5 A0
 Ch R0 Ch R17, Ch G0 Ch G17, Ch B0 Ch B17
 , D_R, D_G D_B
 (29; 5) (30;MPX) 256
 $V_0 (=V_{REF} / 255 \times 0 = 0[V])$ $V_{255} (=V_{REF} / 255 \times 255 = V_{REF} [V])$ (2
 2; 1) (22₁ 22_K)
 . V_{REF} (5). 3 " m" =7 D7
 D0 V₀ V₂₅₅ 1 2
 1 (22) " k" (22₁ 22_K) (4).
 (22₁ 22_K) (21) D_R, D_G D_B
 (1) D_R, D_G D_B
 384 S₁ S₃₈₄
 (4). (1)가 SXGA , (22) 10
 (22₁ 22₁₀) (22₁ 22₁₀)
 가 가 가 (22₁)
 .
 4 (22₁) (23), (24₁ 24₅₄),
 (25) (26₁ 26₃₈₄) (22₁)
 , , (25) () 가 ,
 가 ,
 4 P_H .
 5 (23) (27), (28), (29)
 (30) . CS가 " " (27) SCL
 K SDATA , 8 A5 A0 8
 D7 D0 .
 (28) ROM, RAM, EEPROM(Electrically erasable PROM)
 , 8 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch
 B17가 Ch R0 Ch R17, Ch G0 Ch G17, Ch B0 Ch B17 (),
 (27) 6 A5 A0 Ch R0
 Ch R17, Ch G0 Ch G17, Ch B0 Ch B17

SChR0 SChR17, SChG0 SChG17, SChB0 SChB17() ()
 () , (27) 6 A5 A0 8 LT가 " " ()
 D7 D0 (28) , D7 D0
 A5 A0 SChR0 SChR17, SChG0 SChG17, SChB0 SCh
 B17() 8 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0
 D Ch B17 (30) .
 (29) 가 V_{REF} 255
 (31₁ 31₂₅₅) , 256 $V_0 (= V_{REF} / 255 \times 0 = 0[V])$ $V_{255} (= V_{REF} / 255$
 $\times 255 = V_{REF} [V])$ (30) , (28) 8
 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch B17
 (29) 256 V_0 V_{255} , V_B
 V_{R0} V_{R17} , V_{G0} V_{G17} ,
 0 V_{B17} .
 4 (24₁ 24₅₄) V_{R0}
 V_{R17} , (25) . V_{G0} V_{G17} , (25) V_{B0} V_{B17} 256
 6 V_{G0} V_{G17} , V_{B0} V_{B17} 256 V_{GB0} V_{GB255} , 25 (21)
 V_{GG0} V_{GG255} , 256 V_{GR0} V_{GR127}
 POL V_{GR128} V_{GR255} , V_{GG0} V_{GG127} V_{GG128}
 V_{GG255} , V_{GB0} V_{GB127} V_{GB128} V_{GB255}
 , 8 D_R , 8 D_G 8 D_B ,
 $S_1, S_4, S_7, \dots, S_{382}$, $S_2, S_5, S_8, \dots, S_{383}$,
 $S_3, S_6, S_9, \dots, S_{384}$, (26₁ 26₃₈₄) .
 (26₁ 26₃₈₄) $S_1, S_4, S_7, \dots, S_{382}$, $S_2, S_5, S_8, \dots, S_{383}$,
 $S_3, S_6, S_9, \dots, S_{384}$ (1) .
 4 (25) D_R , D_G D_B
 (25_R, 25_G 25_B) (25_R, 25_G 25_B) 가 가 ,
 (25_R) .
 6 (25_R) (32_R) (33_R) .
 (32_R) 가 255 (34₁ 34₂₅₅) ,
 (24₁) V_{R0} V_{R17} 256 V_{GR0} V_{GR255} ,
 (33_R) . (33_R) , (32_R) 256
 V_{GR0} V_{GR255} (21) POL
 V_{GR0} V_{GR127} V_{GR128} V_{GR255} , (21) 8
 D_R , (26₁ 26₃₈₄) S_1, S_4 ,
 S_7, \dots, S_{382} ,
 7 (25_R) 8 D_R (6) V_{GR0}
 V_{GR127} V_{GR128} V_{GR225} . 7 ,
 (25_R) , D_R 1 2 가
 , D_R 가 V_{GR0} V_{GR127}
 V_{GR128} V_{GR255} 가 (32_R) (33_R) .

가 (1) 가 , 20
 21 (21) (2) (16) ,
 (22₁ 22₁₀) (16) (1) 10
 TCP(Tape Carrier Package; 17₁ 17₁₀)
 (16) (1) (18)
 (21) (22) (1) 8 9
 (1) 가 가 T_I , (21)
 8 (4) (6) 9 (1) (4)
 CS, SDATA, SCLK LT (22)
 T_I (21) 9 (1) CS가 " " Ch R
 0 Ch R17, Ch G0 Ch G17, Ch B0 Ch B17 9 (2)
 D_R, D_G D_B
 6 A5 A0(2) 9 (3) SCLK , 256
 V₀ V₂₅₅ D7
 D0(3) SDATA (22) 8 9 (4)
 LT (22)
 (22) (22₁ 22₁₀) , CS
 가 " " (23) (27) SCLK D7 D0
 SDATA , 6 A5 A0 8 (28) (21)
 LT가 " " (9 (4)) (27) 6 A5
 A0 8 D7 D0 , D7 D0 8
 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch B17
 () A5 A0 S Ch R0
 S Ch R17, S Ch G0 S Ch G17, S Ch B0 S Ch B17
 (30)
 (30) (28) 8 D Ch R0 D Ch R17, D Ch G
 0 D Ch G17, D Ch B0 D Ch B17 (29) 256
 V₀ V₂₅₅ , V_{R0} V_{R17} , V_{G0}
 V_{G17} V_{B0} V_{B17} , 4 (24₁ 24₅₄)
 V_{R0} V_{R17} , V_{G0} V_{G17} V_{B0} V_{B17}
 (25)
 (25_R, 25_G 25_B) , (32_R, 32_G 32_B)
 (24₁ 24₅₄) 256 V_{GR0} V_{GR255} , 256 V_{GG0} V_{GG}
 255 , 256 V_{GB0} V_{GB255} V_{R0} V_{R17} , V_{G0}
 V_{G17} V_{B0} V_{B17} , (33_R), (33_G) (33_B)
 B)
 8 T_I (1) ,
 V - T V_{GR255} , V_{GG0} V_{GG255} V_{GB0} V_{GB255} (33_R), V_{GR0}
 (33_G) (33_B)

(1) , (3) , (21) , D_R , D_G , D_B , T_V , CLK , (22) .

(22) , $(22_1, 22_{10})$, 256 , V_{GR0} , V_{GR255} , 256 , V_{GG0} , V_{GG255} , 256 , V_{GB0} , V_{GB} , V_{GR0} , V_{GR127} , V_{GR128} , V_{GR255} , V_{GG0} , V_{GG127} , V_{GB128} , V_{GB255} , (21) , 8 , D_R , 8 , D .

(22_1) , $(26_1, 26_{384})$, (1) .

(23) , $(22_1, 22_{10})$, (16) , CS , $SDATA$, $SCLK$, LT , 4 , $(18; 21)$, (16) , D_P , (16) , (20) , (1) , $(18)가$, (1) , (1) , $TCP (17_1, 17_{10})$, W_T , (20) , 10 , $TCP (17_1, 17_{10})$.

4 , 2 , (16) , 4 , (16) , 4 , $가$.

$(23)가$, $(22_1, 22_{10})$, V_{R0} , V_{R17} , V_{G0} , V_{G17} , V_{B0} , V_{B17} , $가$, (16) , D_P , $TCP (17_1, 17_{10})$, W , (1) , (16) , $TCP (17_1, 17_{10})$, $가$, (16) , $TCP (17_1, 17_{10})$, $가$.

1 , (1) , $/$, $TCP가$, $/$, TCP , $가$.

$V - T$, (1) .

$가$, $가$, $($, V_{R0} , V_{R17} , V_{G0} , V_{G17} , V_{B0} , V_{B17} , (21) , (22) , $.$.

10, 2, 1, 10, (1), 1, (21), (22), (41), (42)
 가 .

(41), ASIC(Application Specification Integrated Circuit),
 8, D_R , 8, D_G , 8, D_B , (42) 가 .
 , (41), P_V , POL, CLK, CS, LT, P_H , (42)
 (5) .

CLK, (42), D_R , D_G
 DB, CS, LT, (28)가
 (42), "K" ("K" .) (42₁, 42_K; 12)
 , (45R, 45_G, 45_B; 13)가, (41) 8
 D_R , 8, D_G , 8, D_B , D_{R0} , D_{R17} , Ch R0, Ch R17, Ch G0, Ch G17
 D_{G0} , D_{G17} , Ch B0, Ch B17, D_{B0} , D_{B17}
 (13 , .).

D_{R0} , D_{R17} , D_{G0} , D_{G17} , D_{B0} , D_{B17} ,
 D_R , D_G , D_B , (29) (30; 13) 256
 $V_{255} (=V_{REF}/255 \times 255 = V_{REF} [V])$ (42)
 (42₁, 42_K) . V_{REF}
 . 11a, 11b, 11c, D_{R0} , D_{R17} , D_{G0} , D_{G17} ,
 D_{B0} , D_{B17} , D7, D0, V_0 , V_{255} .

D_R , D_G , D_B , Ch R0, Ch R17, Ch G0, Ch G17, Ch B0
 Ch B17, CS가 (15 (1))
 D_{R0} , D_{R17} , D_{G0} , D_{G17} , D_{B0} , D_{B1}
 7 (15 (2) (4)) . 가 0()
 D_{R0} , D_{G0} , D_{B0} , Ch R0, Ch G0, Ch B0 .
 2 1 2 .

10 (42) K (42₁, 42_K;)
 (42₁, 42_K) (41) D_R , D_G , D_B (D_R , D_G , D_B)
 (1) , D_R , D_G , D_B 384 S_1 S_{384}
 , (1)가 SXGA , (42)
 10 (42₁, 42₁₀) . (42₁, 42₁₀)
 가 가 가 (42₁)

12 2 (42₁) . 12 , 4
 4 (23) , (43)가 . (42₁) ,
 4

13 (43) 13 5 5
 (28) (44) (27)
 (45_R, 45_G 45_B)가
 (44) , CS가 CLK , CLK
 S Ch0 S Ch17 D Ch R0 D Ch R17, D Ch G0
 D Ch G17, D Ch B0 D Ch B17
 (45_R, 45_G 45_B) ROM, RAM, EEPROM(Electrically erasable PROM)
 , 8 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch
 B17가 Ch R0 Ch R17, Ch G0 Ch G17, Ch B0 Ch B17
 (45_R, 45_G 45_B) , (41) LT가 " " ,
 D_{R0} D_{R17} , D_{G0} D_{G17} D_{B0} D_{B17} ,
 (44) " " S Ch 0 S Ch 17
 D_{R0} D_{R17} , D_{G0} D_{G17} , D_{B0} D_{B17}
 8 D Ch R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch B17
 , (30)
 가 (1) 가 , 20
 (41) (16) , (42₁ 42₁₀)
 (16) (1) 10 ,
 TCP(Tape Carrier Package; 17₁ 17₁₀) , 21 , (16)
 (1) (18)
 , (1) ,
 (41) (42) 14 15
 (1) 가 가 , , (41)
 T_I ,
 14 (4) (5) , 15 (1) (6)
 CS, LT CLK , D_R, D_G
 D_B D_{R0} D_{R17} , G0 D_G
 17 , D_{B0} D_{B17} .
 , T_I (41) CS " " , ,
 256 V₀ V₂₅₅ (15 (2)
 (4)) 8 D_{R0} D_{R17} , 8 D_{G0} D_{G17} , 8
 D_{B0} D_{B17} , (41) 15 (5) CLK 15
 (6) LT .
 (42) (22₁ 22₁₀) , (43)
 (44) CS가 " " CLK , " "
 S Ch0 S Ch17 , (45_R, 45_G 45_B) , (41)
 LT가 " " (15 (6)) 8 D_{R0} D_{R17} , 8
 D_{G0} D_{G17} , 8 D_{B0} D_{B17} , (44)
 S Ch0 S Ch17 D_{R0} D_{R17} ,
 D_{G0} D_{G17} , D_{B0} D_{B17} 8 D C
 h R0 D Ch R17, D Ch G0 D Ch G17, D Ch B0 D Ch B17 ,
 (30) .

, (30) (28) 8 D Ch R0 D Ch R17, D Ch G
 0 D Ch G17, D Ch B0 D Ch B17 (29) 256
 V_0 V_{255} , V_{R0} V_{R17} , V_{G0}
 V_{G17} V_{B0} V_{B17} , (24₁ 24₅₄)
 V_{R0} V_{R17} , V_{B0} V_{B17}
 (25) .

(25) (25_R, 25_G 25_B) , (32_R,
 32_G 32_B) (24₁ 24₅₄) 256 (32_R,
 V_{GG0} V_{GG255} , 256 V_{GR0} V_{GR255} , 256 V_{R0} V_{R1}
 7, V_{G0} V_{G17} V_{GB0} V_{GB255} , (33_R),
 (33_G) (33_B) .

, (1) , V - T(가
) V_{GG0} V_{GG255} V_{GB0} V_{GB255} (33_R), V_{GR0} V_G
 R_{255} , (33_B) .

, 1 .

, (43) (42₁ 42₁₀)
 , 1 (16) 2 , , 52
 , CS LT D_P(20) 가 (18; 21
 , (16) (16) (20) . ,
) (1) , , 가 (1) 가
 10) W_T (18)가 , 10 TCP (17₁ 17₁₀) TCP (17₁ 17₁₀) W_T
 (20) .

, 2 (16) , (16)
 2 . , 2 (16) 2 2 (16)
 가 2 .

, (43)가 (42₁ 42₁₀)
 , V_{R0} V_{R17} , V_{G0} V_{G17} V_{B0} V_{B17} 가 , W
 T , , (16) D_P TCP (17₁ 17₁₀) (1)
 (1) , 가 , (1)
 (16) TCP (17₁ 17₁₀) 가 , ,
 가 .

, 2 , (1) /
 가 , / TCP가 , / TCP, 가 .

, 2, D_R , D_G , D_B (42)
 D_{R0} , D_{R17} , D_{G0} , D_{G17} ,
 D_{B0} , D_{B17} 가, 1,
 V_{GG255} , V_{GB0} , V_{GB255} , (33_R), (33_G), (33_B)
 V_{GR0} , V_{GR255} , V_{GG0}

$$V - T \quad (1)$$

가, 가
 (V_{R0} , V_{R17} , V_{G0} , V_{G17} , V_{B0} , V_{B17}) (4
 1) (42)

f) 가 (on) 가 (of
 D_R , V_{GR0} , V_{GR127} , V_{GR128} , V_{GR255} (25_R) 8
 7 16

TFT (1)

, 1, CRT (2.2 .) T
 V / , CRT
 , 1

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가,

1 (23), 가 (28)
 가 (28)

(1)

TCP / 가
 , TCP 가 가

(57)

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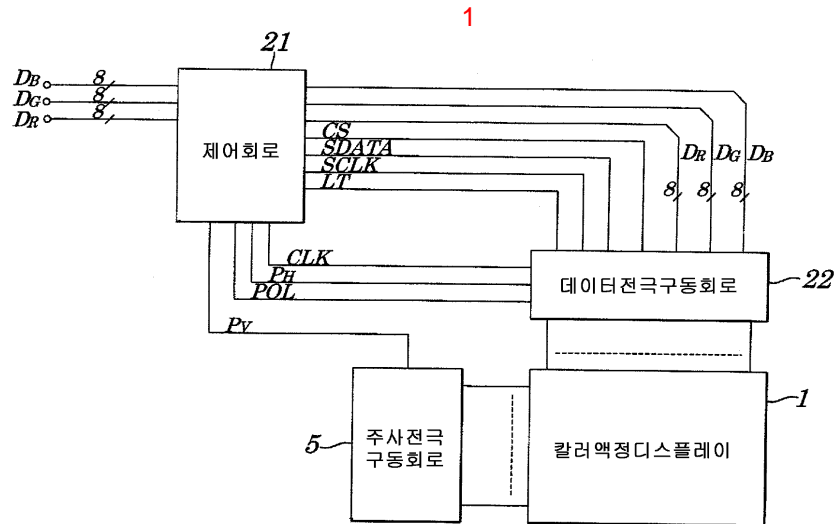
가 .

12.

가 .

13.

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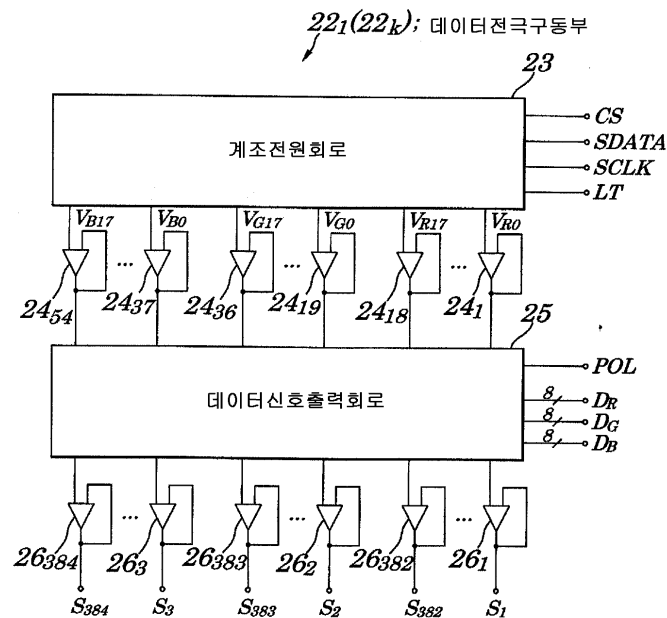
2

계초정보						채널
A5	A4	A3	A2	A1	A0	
0	0	0	0	0	0	Ch B0
0	0	0	0	0	1	Ch B1
0	0	0	0	1	0	Ch B2
0	0	0	0	1	1	Ch B3
0	0	0	1	0	0	Ch B4
0	0	0	1	0	1	Ch B5
0	0	0	1	1	0	Ch B6
0	0	0	1	1	1	Ch B7
0	0	1	0	0	0	Ch B8
0	0	1	0	0	1	Ch B9
0	0	1	0	1	0	Ch B10
0	0	1	0	1	1	Ch B11
0	0	1	1	0	0	Ch B12
0	0	1	1	0	1	Ch B13
0	0	1	1	1	0	Ch B14
0	0	1	1	1	1	Ch B15
0	1	0	0	0	0	Ch B16
0	1	0	0	0	1	Ch B17
0	1	0	0	1	0	Ch G0
0	1	0	0	1	1	Ch G1
0	1	0	1	0	0	Ch G2
0	1	0	1	0	1	Ch G3
0	1	0	1	1	0	Ch G4
0	1	0	1	1	1	Ch G5
0	1	1	0	0	0	Ch G6
0	1	1	0	0	1	Ch G7
0	1	1	0	1	0	Ch G8
0	1	1	0	1	1	Ch G9
0	1	1	1	0	0	Ch G10
0	1	1	1	0	1	Ch G11
0	1	1	1	1	0	Ch G12
0	1	1	1	1	1	Ch G13
0	1	1	1	0	0	Ch G14
1	0	0	0	0	1	Ch G15
1	0	0	0	1	0	Ch G16
1	0	0	0	1	1	Ch G17
1	0	0	1	0	0	Ch B0
1	0	0	1	0	1	Ch B1
1	0	0	1	1	0	Ch B2
1	0	0	1	1	1	Ch B3
1	0	1	0	0	0	Ch B4
1	0	1	0	0	1	Ch B5
1	0	1	0	1	0	Ch B6
1	0	1	0	1	1	Ch B7
1	0	1	1	0	0	Ch B8
1	0	1	1	0	1	Ch B9
1	0	1	1	1	0	Ch B10
1	0	1	1	1	1	Ch B11
1	1	0	0	0	0	Ch B12
1	1	0	0	0	1	Ch B13
1	1	0	1	1	0	Ch B14
1	1	0	1	1	1	Ch B15
1	1	0	1	0	0	Ch B16
1	1	0	1	0	1	Ch B17

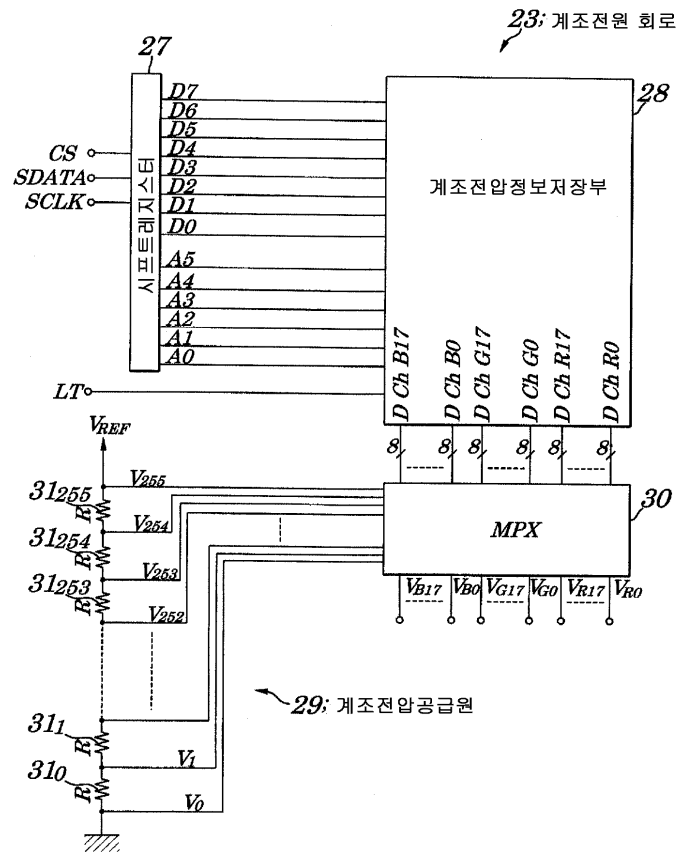
3

계조전압정보								계조전압
D7	D6	D5	D4	D3	D2	D1	D0	
0	0	0	0	0	0	0	0	V ₀
0	0	0	0	0	0	0	1	V ₁
0	0	0	0	0	0	1	0	V ₂
0	0	0	0	0	0	1	1	V ₃
0	0	0	0	0	1	0	0	V ₄
0	0	0	0	0	1	0	1	V ₅
0	0	0	0	0	1	1	0	V ₆
0	0	0	0	0	1	1	1	V ₇
0	0	0	0	1	0	0	0	V ₈
0	0	0	0	1	0	0	1	V ₉
0	0	0	0	1	0	1	0	V ₁₀
0	0	0	0	1	0	1	1	V ₁₁
0	0	0	0	1	1	0	0	V ₁₂
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
1	1	1	1	0	0	1	1	V ₂₄₃
1	1	1	1	0	1	0	0	V ₂₄₄
1	1	1	1	0	1	0	1	V ₂₄₅
1	1	1	1	0	1	1	0	V ₂₄₆
1	1	1	1	0	1	1	1	V ₂₄₇
1	1	1	1	1	0	0	0	V ₂₄₈
1	1	1	1	1	0	0	1	V ₂₄₉
1	1	1	1	1	0	1	0	V ₂₅₀
1	1	1	1	1	0	1	1	V ₂₅₁
1	1	1	1	1	1	0	0	V ₂₅₂
1	1	1	1	1	1	0	1	V ₂₅₃
1	1	1	1	1	1	1	0	V ₂₅₄
1	1	1	1	1	1	1	1	V ₂₅₅

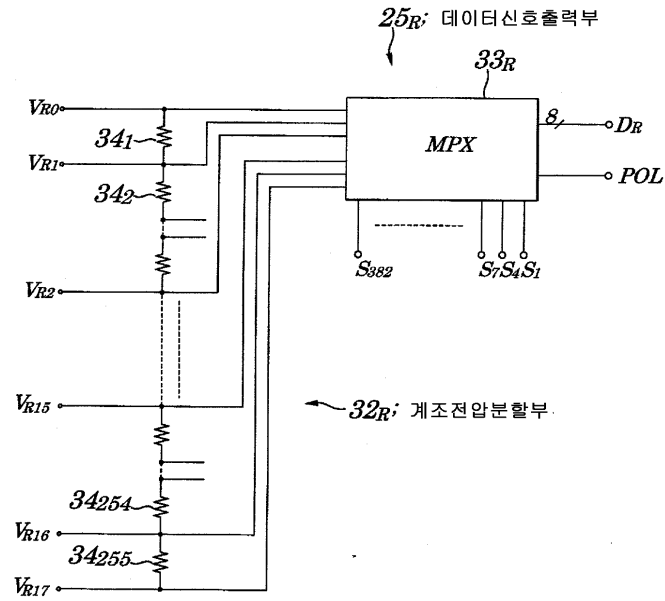
4



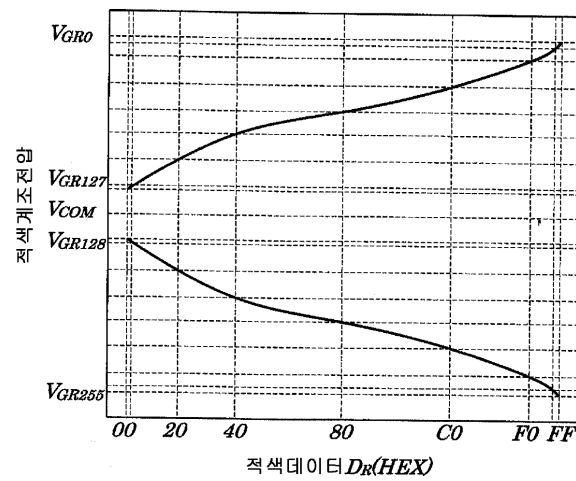
5



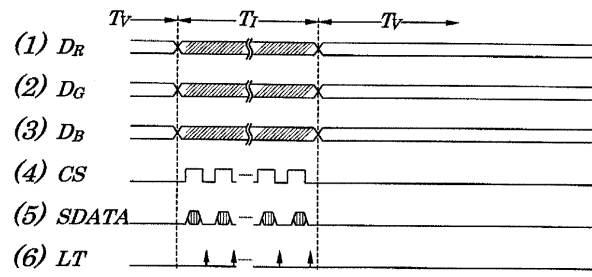
6



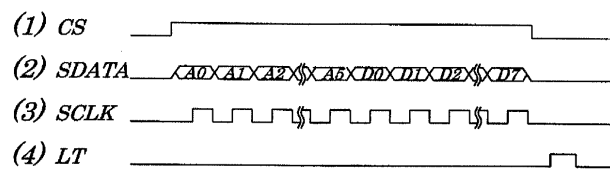
7



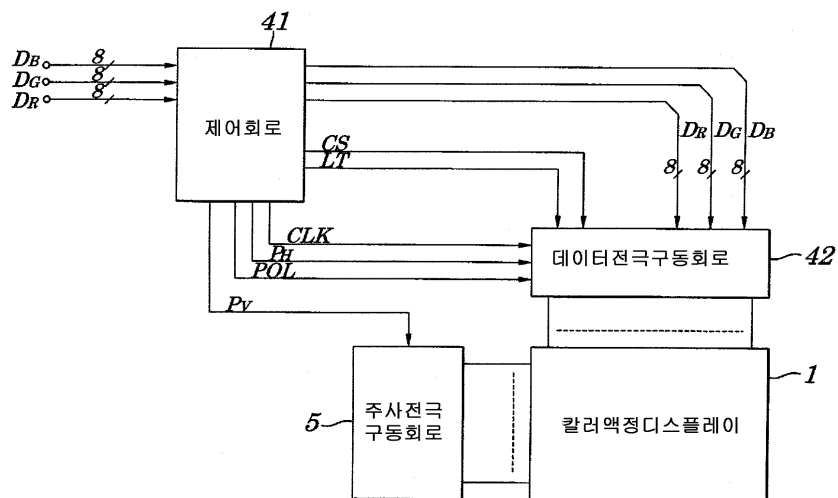
8



9



10



11a

적색계조전압정보								계조전압
DR_7	DR_6	DR_5	DR_4	DR_3	DR_2	DR_1	DR_0	
0	0	0	0	0	0	0	0	V_0
0	0	0	0	0	0	0	1	V_1
0	0	0	0	0	0	1	0	V_2
0	0	0	0	0	0	1	1	V_3
0	0	0	0	0	1	0	0	V_4
...
...
1	1	1	1	1	1	0	0	V_{252}
1	1	1	1	1	1	0	1	V_{253}
1	1	1	1	1	1	1	0	V_{254}
1	1	1	1	1	1	1	1	V_{255}

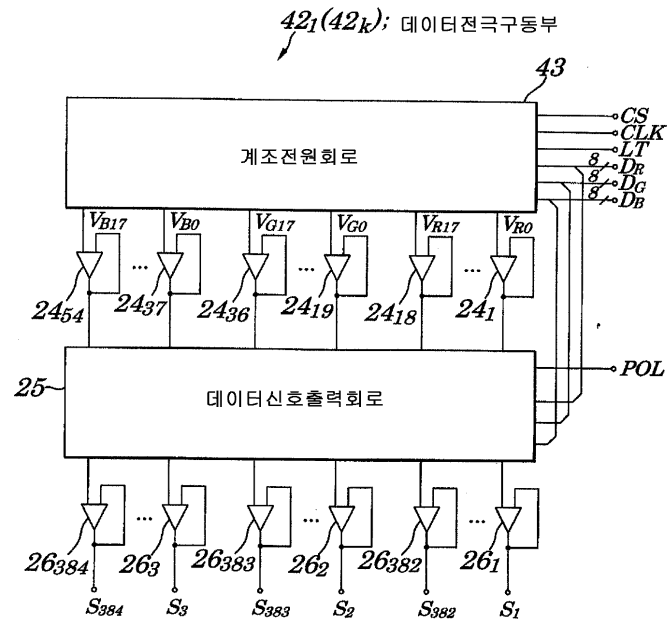
11b

녹색계조전압정보								계조전압
DG_7	DG_6	DG_5	DG_4	DG_3	DG_2	DG_1	DG_0	
0	0	0	0	0	0	0	0	V_0
0	0	0	0	0	0	0	1	V_1
0	0	0	0	0	0	1	0	V_2
0	0	0	0	0	0	1	1	V_3
0	0	0	0	0	1	0	0	V_4
...
...
1	1	1	1	1	1	0	0	V_{252}
1	1	1	1	1	1	0	1	V_{253}
1	1	1	1	1	1	1	0	V_{254}
1	1	1	1	1	1	1	1	V_{255}

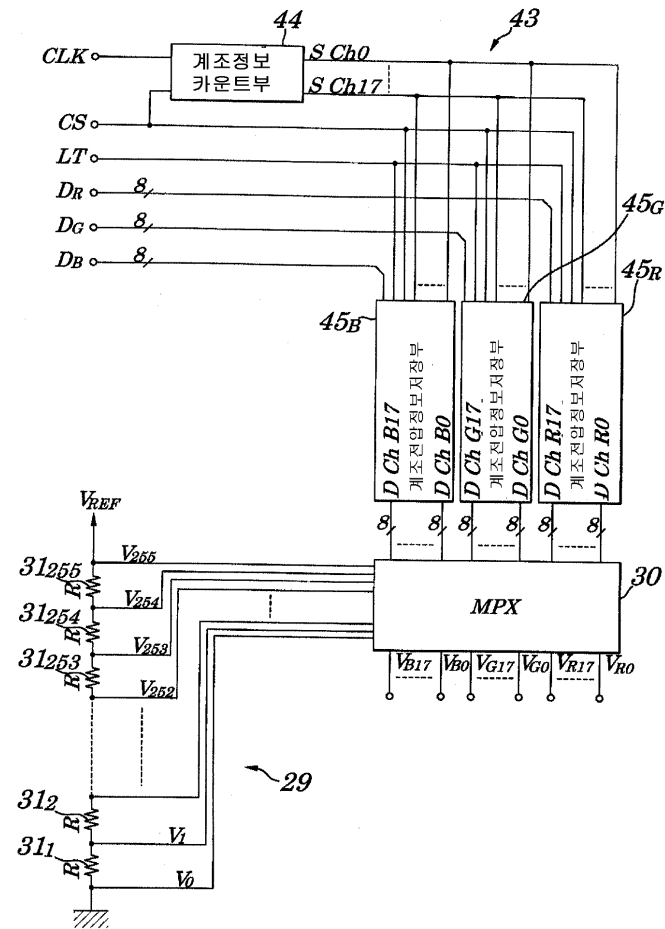
11c

청색계조전압정보								계조전압
DB_7	DB_6	DB_5	DB_4	DB_3	DB_2	DB_1	DB_0	
0	0	0	0	0	0	0	0	V_0
0	0	0	0	0	0	0	1	V_1
0	0	0	0	0	0	1	0	V_2
0	0	0	0	0	0	1	1	V_3
0	0	0	0	0	1	0	0	V_4
...
...
1	1	1	1	1	1	0	0	V_{252}
1	1	1	1	1	1	0	1	V_{253}
1	1	1	1	1	1	1	0	V_{254}
1	1	1	1	1	1	1	1	V_{255}

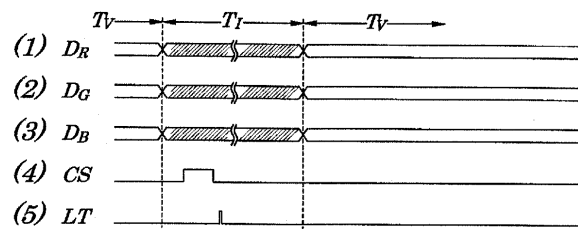
12



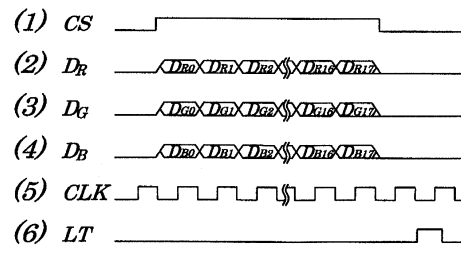
13



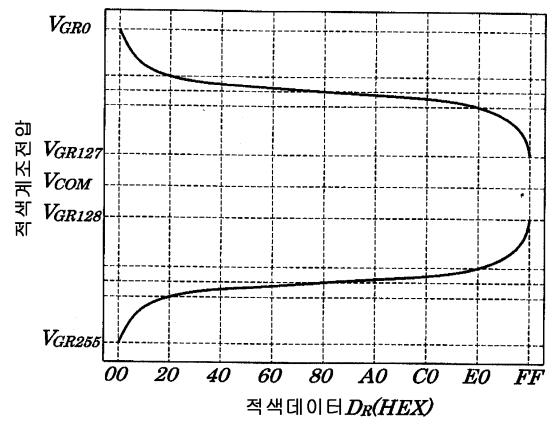
14



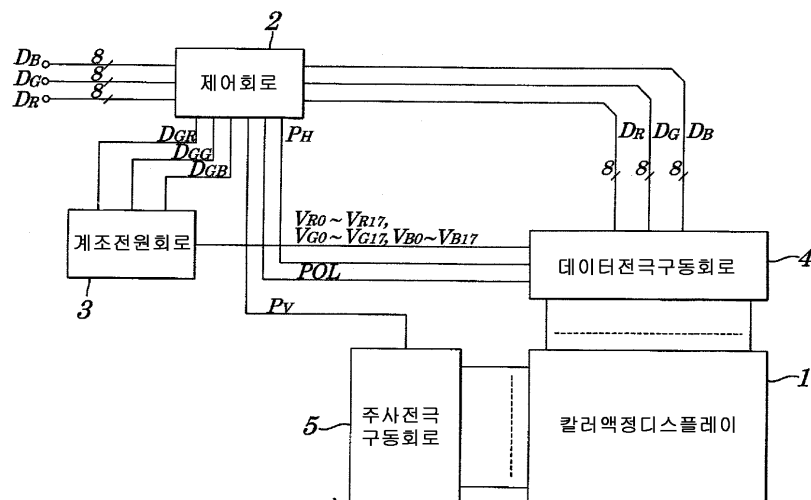
15



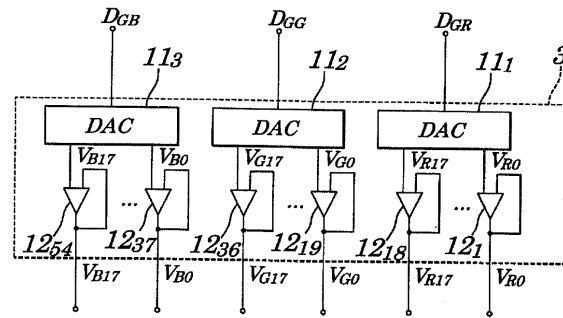
16



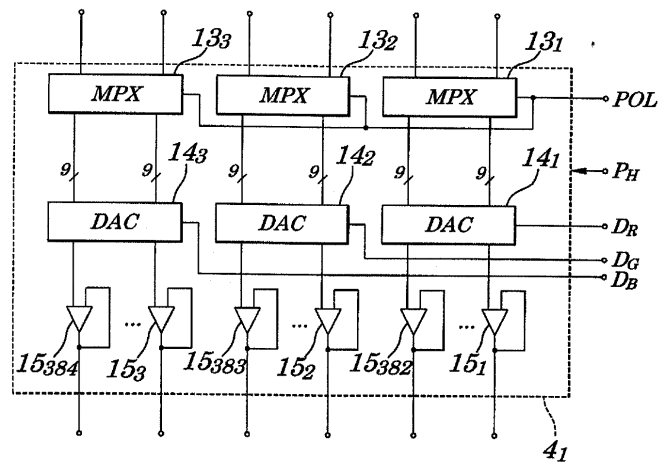
17



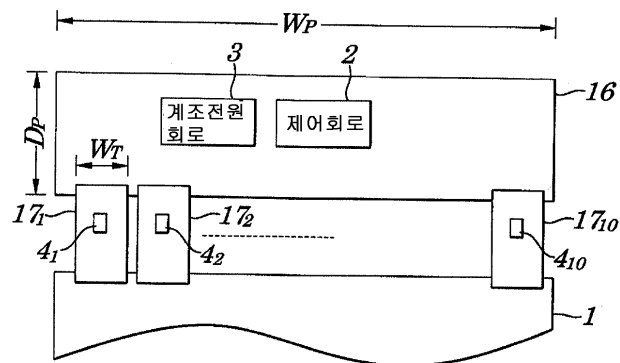
18



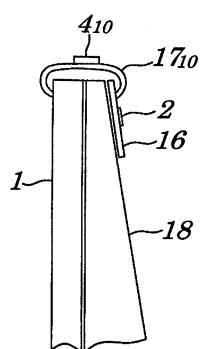
19



20



21



专利名称(译)	彩色液晶显示器的驱动电路和驱动方法，以及彩色液晶显示器		
公开(公告)号	KR1020020039257A	公开(公告)日	2002-05-25
申请号	KR1020010072132	申请日	2001-11-19
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	OKUZONO NOBORU		
发明人	OKUZONO,NOBORU		
IPC分类号	G09G3/36 G02F1/1345 G02F1/133 G09G3/20		
CPC分类号	G09G3/3688 G09G3/2011 G09G3/3611 G09G3/3696 G09G2320/0276		
代理人(译)	JO , EUI JE		
优先权	2000353427 2000-11-20 JP		
其他公开文献	KR100506463B1		
外部链接	Espacenet		

摘要(译)

由于即使当彩色液晶显示器提供的分辨率和/或灰度电压的数量不同时也可以减小基板封装区域，并且可以提供使用公共基板或TCP的彩色液晶显示器的驱动电路，可以低成本制造。在彩色液晶显示器的驱动电路中，数据电极驱动电路根据构成灰度信息和灰度电压信息的串行数据产生对应于灰度电压特性的灰度电压。 1 指数方面 彩色液晶显示器，TCP，驱动电路，显示器

