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(KR)
(B1)

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2002 12 20

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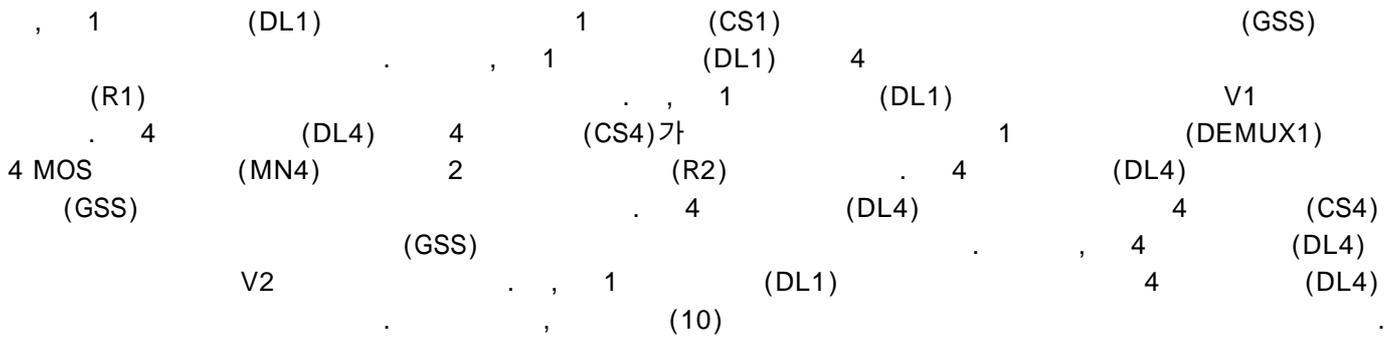
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가

(Liquid Crystal Display : "LCD")

("TFT") , LCD
 (Driving Integrated Circuit : "D - IC") , LCD
 D - IC (Demultiplexor : "DEMUX")가 . DEM
 UX D - IC D - IC 가 n , DEMUX 가 m
 D - IC (k) "n/m "가 , D - IC "1/m " D - IC
 1 (1H) m DEMUX LCD DEMUX 가 .
 가 (Poly Si) TFT DEMUX D - IC
 , LCD DEMUX D - IC
 1 2 LCD
 1 , D - IC(12) (10) n (DL1 DLn) 1
 k (DEMUX1 DEMUXk) LCD 가 . D - IC(12) 1



LCD 가 가

1 ; 1 가 2 가 1

+2) 4i+3 가 4i+1 4i+4 가 4i+1 4i+4 (, i 0 , 4i 가

1 가 1 2 , 가 1

4i+3 4i+1 4i+1 4i+4 (, i 0) 가 , 가 4i+2 가

5 7b

5 1

5 1 (CS) 가

2 (GL2) (GSS)가 (DEMUX1 DEMUXk) 4 (GL2)

(DL1 DLn) (DL1 DLn) (DEMUX1 DEMUXk) 4 (DL1 DLn)

(DEMUX1 DEMUXk) (CS1 CS4) 가

CS4)가 2 (GL2) (GSS)가 1 4 (CS1

4 MOS (MN4)가 D - IC(12) (CS4)가 8

(DL8) 8 (DL8) (G3)가 2 (DEMU

X2) 3 (CS3) 3 (CS3)가 3 MOS (MN

3)가 D - IC(12) (R3) 7 (DL7)

8 7 (DL8,DL7) (Cc) 8 (DL8)

(G3) 7 (DL7) (R3) 7 (DL7)

(CS2)가 (R3)가 2 (DEMUX2) 2 (CS2) 2

(B2) 6 (DL6) (MN2)가 D - IC(12)

(Cc) 7 (DL7) (R2) 6 (DL7,DL6)

(B2) 6 (DL6) (B2)가 2

(DEMUX2) 1 (CS1) 1 (CS1)가 1 MOS

(MN1)가 D - IC(12) (G2) 5 (DL5)

6 5 (DL6,DL5) (Cc) 6 (DL6)

(B2) 5 (DL5) (G2) 6 (DL6)

8 (DL8) (G3) 9 (DL9) (B3)

(CS1 CS4) 8 (DL8)

2 7 6 (DL7,DL6) 1 5

(DL5)

2 (GL2) (GSS)가 3 (GL3) (GSS)가

3 (GL3) (GSS)가 1 4 (CS1 CS4)

(DEMUX1 DEMUXk) (CS1 CS4)

5 (DL5) 2 6 7 (DL6,D

L7) 1 8 (DL8)

1 가 (DL1 DLn)

6a 가

6a X1) 1 MOS (GSS) (DL1) 1 (MN1) 1 (CS1)가 (R1) 1 (DL1) 1 (DEMU (DL1) 1 (CS1) (DL1) (GSS) (R1) (DL1) 1 (DL1) 1 V1 (DEMUX1) 4 MOS (GSS) (MN4) 2 (CS4)가 (R2) 4 (DL4) 4 (DL4) 4 (CS4) (DL4) (GSS) 4 (DL4) 4 가 4 (DL4) V2 (DL1) V2 6b 4 (DL4) V 1

7a 7b 2 (Frame) (CS1 CS4) (DL1 DLn) (CS1 CS4) 2 (DL1 D Ln) (Positive) (Negative) 가 (DL1) (+R)가 (+G)가 (DL2) (-R)가 (-G)가 (DL2) (CS1 CS4) 2 (DL1) 2

0 (DL2) 2 (-R)가 4 (-G)가 2 (DL2) (CS1 CS4) (+R)가 1 (+G)가 2 (DL1)

가

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1.

가 ; , 2

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1 ; 가

1 가 2 1

2.

1 ,

가

3.

가 ; , 2

가 $4i+1$ $4i+4$ (, i 0)

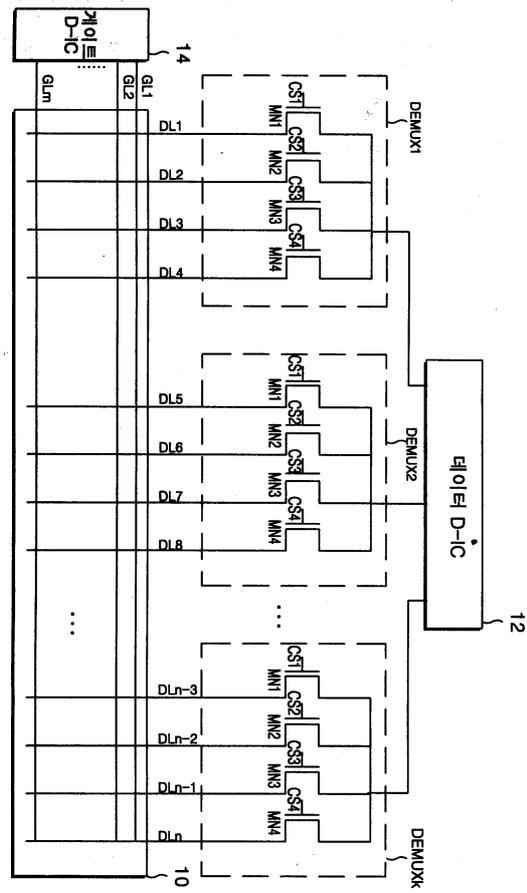
$4i+2$ $4i+3$ 가 $4i+1$ $4i+4$ 가

4.

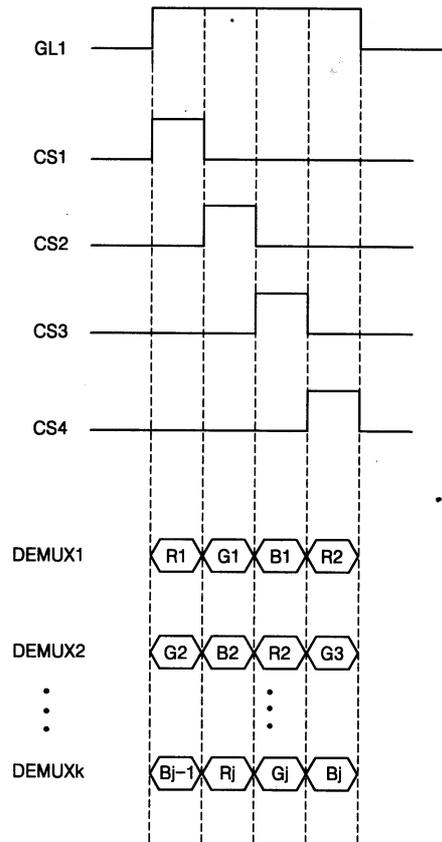
가 , 가 , 가 $\frac{1}{2}$ 1 1 가 1

5.

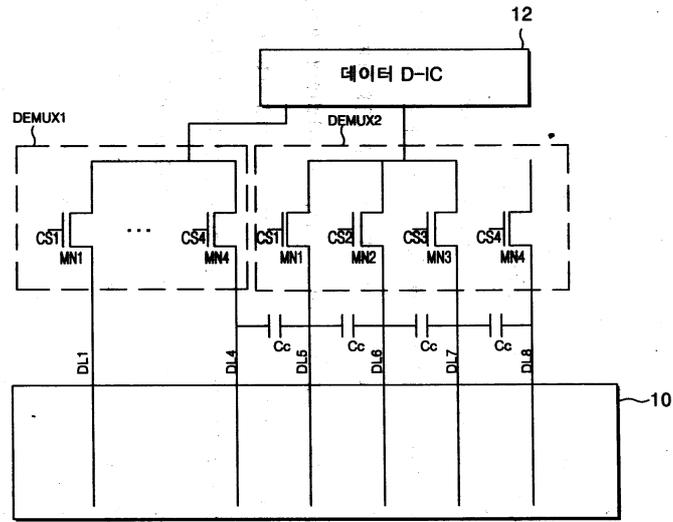
가 가 $4i+1$ $4i+4$ (, i 0) $4i+2$ $4i+3$ $4i+1$ $4i+4$



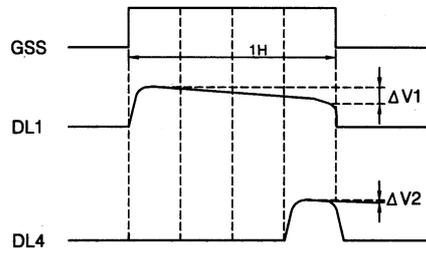
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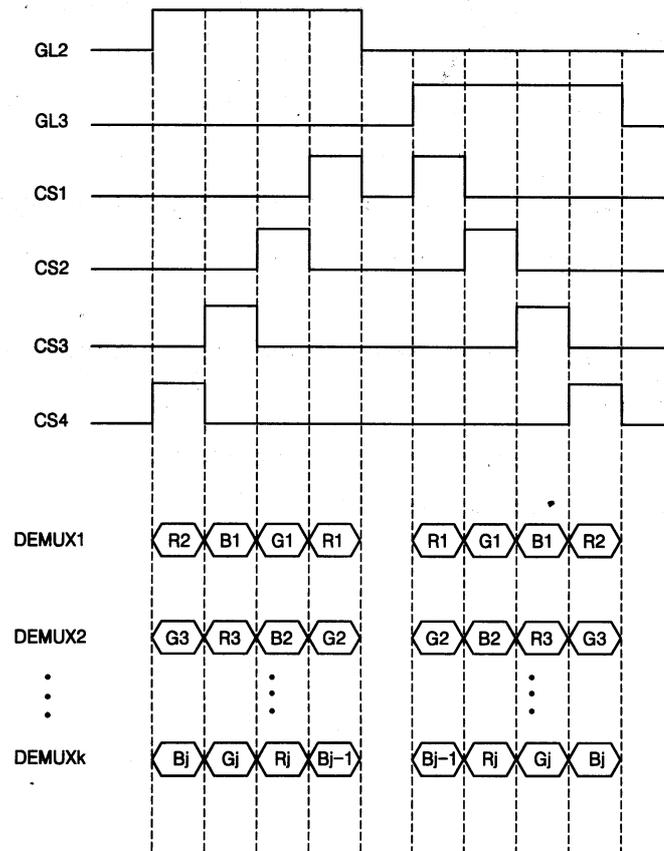
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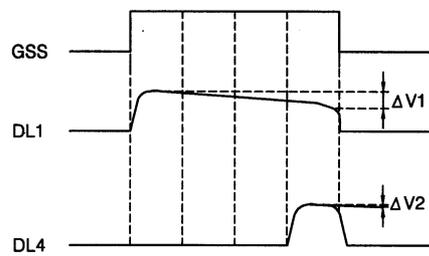
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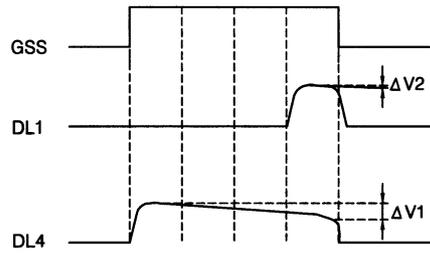
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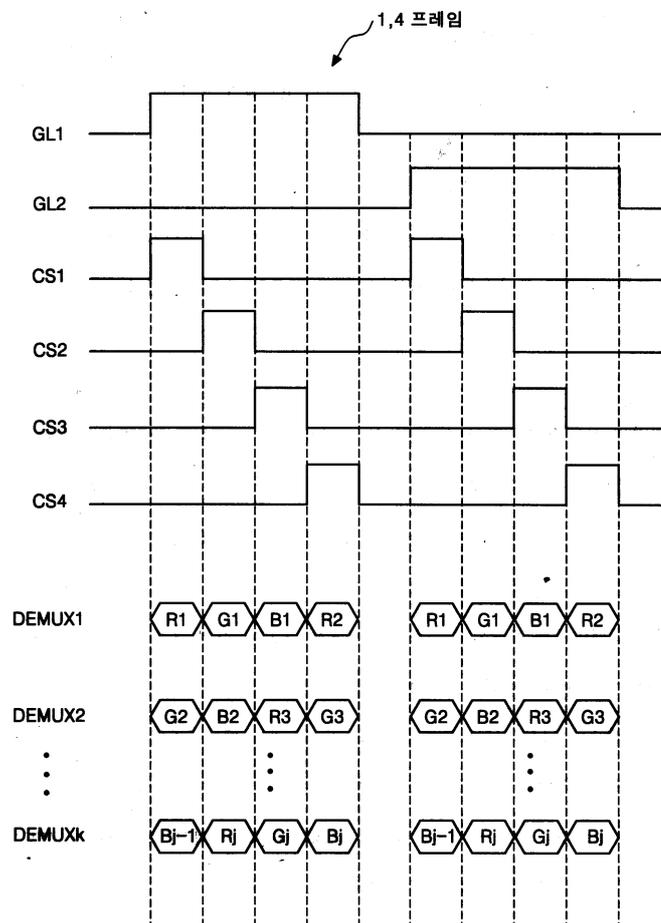
6a



6b



7a



7b

