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(30) 96 - 153093 1996 05 24 (JP)

(73) 가 가
5 7 1(72) 가
5 - 7 - 1 가 가

(74)

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(54)

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100 :

101 :

C11 :

G13, G14 :

D11 :

M11 :

M12 :

G15; NAND

G13 G14 :

5 - 54660

1 (D51 D52), (G55, G56, G57 G511), NOR (G58 G59),
- AND (G510)가

(51) (G51 G52) (C51 C52) (G5
1) P - (P51) N - (N51)
(G52) P - (P52) ,
N - (N52) (D52) (D51) ,

(501)

(502)

(501) (G51) 가 , (G51) (G52) (G52)
 NOR (G58) (G56) (501) NOR (G58) (G56)
 (G51) (C51) (503) (G52) (C52) (G56)
 (504) (G52) (G56)

(501) (655) 가 , (D52)
 (D52) (G57) NOR (G59)
 OR (G59) (D52) NOR (59) NOR (G58) N
 AND (G510) AND (G510)
 (G511)

2 1 (501),
 (502), (G51) (503), (G52) (504),
 (G55) (505), (G53) (506), (G54)
 (507), (G57) (508), NOR (G59)
 (509), (G56) (510), NOR (G5S) (511), AND
 (G510) (512)가

1 2 (501)
 가 , (D51) (503) (G51)
 N - (N51) () (504) (G52)
 , P (G52) (G56) (G5)
 2) (510) , (511) , NOR (G58)

(505) , (G55) (501)
 (D52) (506) (G53) , P - (P53)
 가 , (C53) 가 (507) (G54)
 N - (N54) 가 , (C54) 가 (508),
 (G57) (508), NOR (G57) (509), NOR
 (G59) (501) (D52) (D)

AND (G510) (509 511) AND , (G511) AND
 (510) (502) , (G511) (501) (D)

(501)가 , (D51 D52) ,
(501) (502) (D) .
 , 1 (501) (D) 가
 , 3 , 2 가 (501)
가 가 . , (D
) .

3, (D51) (503) (501) 1
(503) (501) 2, (504)
(G52) (504) (G56) P -
(510), 가, NOR (G58)
(D52)

1 D52) 가 가 (501) 가 (D5

(502) (D)

가

NAND

가 , 가 , - 가 , 가 .

4 (100) , , , , NAND
 , (100) , 4 , (101)
 , (101)
 (101) (101)

(G13 G14), 1 (D11), (M11), (M12), NAN
 D (G16) . 1 (D11) (G11) (C11)
 (G11) P - (P11) N -
 (N11) (G14) (M12) (M)
 11) (104)가 (104) (105)가
 (105) . NAND (G16) (G14)
 (101) (D)

(G13) P - N - . G13 P -
 (W) 12 μ m , G13 P - (L) 0.9 μ m
 , G13 N - (L) 0.8 μ m , G13 P - (W) 6 μ m , G13 N -
 (G11) P - (G14) G13 N -
 . G11 P - N - . G11 N -
 (L) 0.9 μ m , G11 N - (W) 12 μ m , G11 P
 W) 6 μ m , G11 N - (L) 2.0 μ m , G11 N -
 G11 P -
 (G13) N -
 (G13) P -

(G15), 2 (D12), (M13), (M14), NAND
 (G17) . 2 (D12) (G12) (C12)
 (G12) P - (P12) N - (N
 12) (G15) (M13) (106)가
 (107) (106) (M14) (107)가
 . NAND (G17) (G13) (G15)
 (D)

101 , 102 가 가 , NAND (G18) NAND .

(G11) , (101) (G13) (M11)
 (M11) 가 . (G11) (G14)
 (M12) . (G14) NAND (G16)
 (C11) , (101) NAND (G16)
 (G11) (G14) . (104) . ,

(G12) (101) (M13) (G12) . (G15)
 NAND (G17) (G15) (M13) . (M14)
 (G13) (103) NAND (G17) (G12 G15) (C12)
 , (106) ,

NAND (G16 G17) (102) NAND (G18) .
 1 (D11) (101) (G13)
 (101) . 2 (D12) 1 (D11) 가 .
 (D12) (101) , (101)
 .
 (G14 G15) , (D11 D12)

1 (D11) (M11) N - MOS()
 . 가 (101) (G13) , N - MOS (M11)
 가 . (M11) (101) , (104)가
 . 가 , 2 (D12) (M13) N - MOS()
 . (M13) (101) , (106)가

12) (M12) (101) P - MOS . (M
 4) (101) , (105) (M1 P -
 MOS , (G13)가 (101)
 (M14) (101) , (107)

5 4 (101),
 (102), (G13) (103), (G11) (104),
 (G14) (105), (G12) (106),
 (G15) (107), NAND (G16) (108), NAND (G17)
 (109)가 .

5, (103) (101)가 (1) (2) 가 .
 (G13) 1 (D11)
 (103) , (104)

(105) (G14)

NAND (G16) (105) (101) . NAND (G16)
 , (108) (101) , 1 (D11) (D) 가

(106) (101)가 , (M13) (103)
 (M14)가 (107)

NAND (G17) (107 103) NAND (G17) , (109)
 7 103) (10)

NAND (G18) (108 109) (102) , (108)가
 (102)가 (108)가 (102)가
 , (102) (101)가 , 1 (D11)
 (D)

(101)

6 가 2

103) , , (104) (101)
 , (104)가 , (101)
 (104)가 (M11) (
 (G14) , (104)
 (108), NAND (G16) (101)가 , (105) , (101)가

103) , (101)가 (M13) , (106) 2

(M14) (103) , (107)가
 (106) A(6) (G15)
 (107) (106) , (107)
 (G15)

(107 103) NAND (G17) . NAND (G17) , (109)
 (107)가 (103)가 , (109) (107)가
 (G15)

(108 109) NAND (G18) 6 , NAND (G18)
 (102) (108)가 , (109) 2
 , (102) (101)가 , 2 (D12)
 (101) (D) 가 , 6 가
 , (100) D

7
 (T41) 4 (T11 T12) 가 (D) 가 (T41)
 4 (D11 D12) (D41) (D42)
 (G43) (C42) (G43) P -
 N - (C42) (G43)
 (D41 D42) , D4(2n+1) (D41) (D43 D44)
 (G41), (M41, M43 M4(2n+1)), (M42 M44)가
 7

(G43) P - N -
 G43 P - (W) 12 μ m
 , G43 P - (L) 2.0 μ m , G43 N -
 W) 6 μ m , G11 N - (L) 0.8 μ m , G43 P -
 N -

(D) 가 가 , 가
 가, 가 ,
 가 , D

1 가 가

(57)

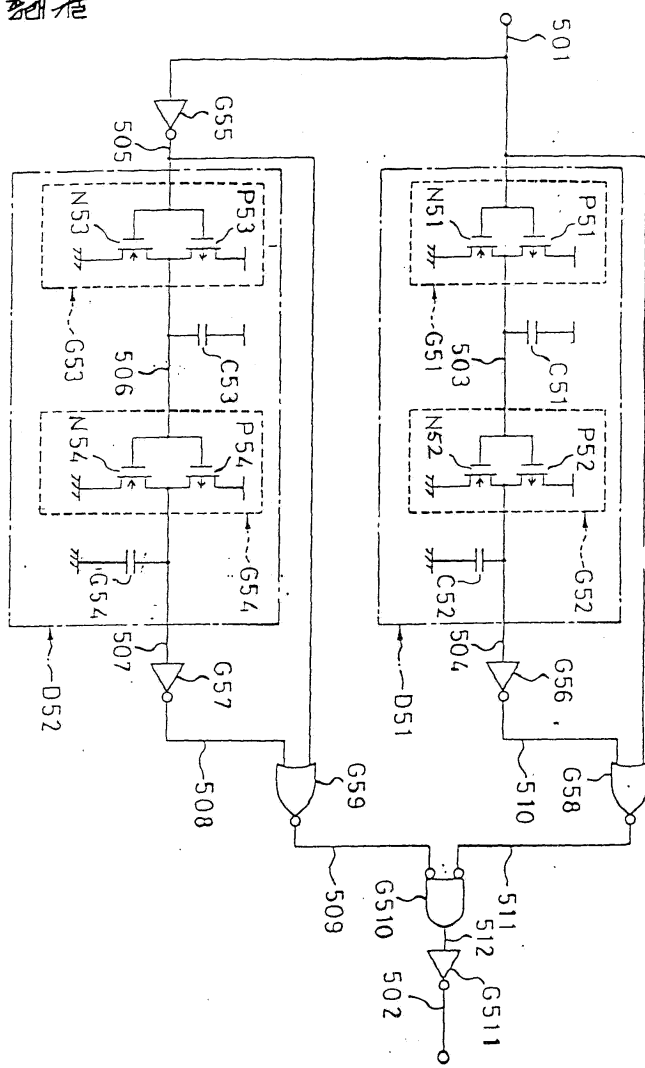
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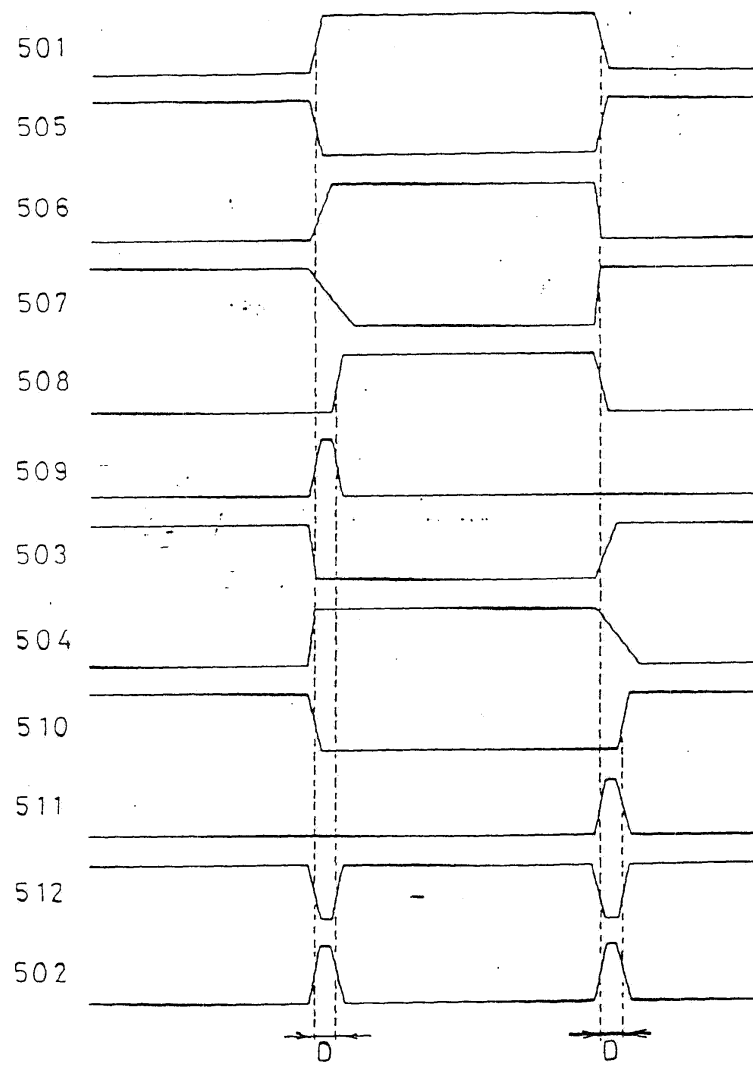
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电路



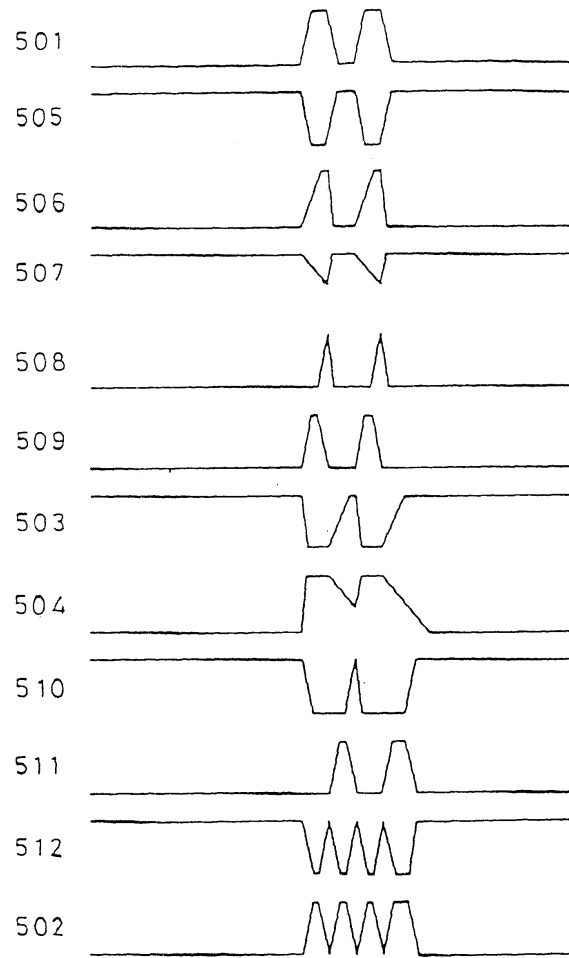
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중래 기술

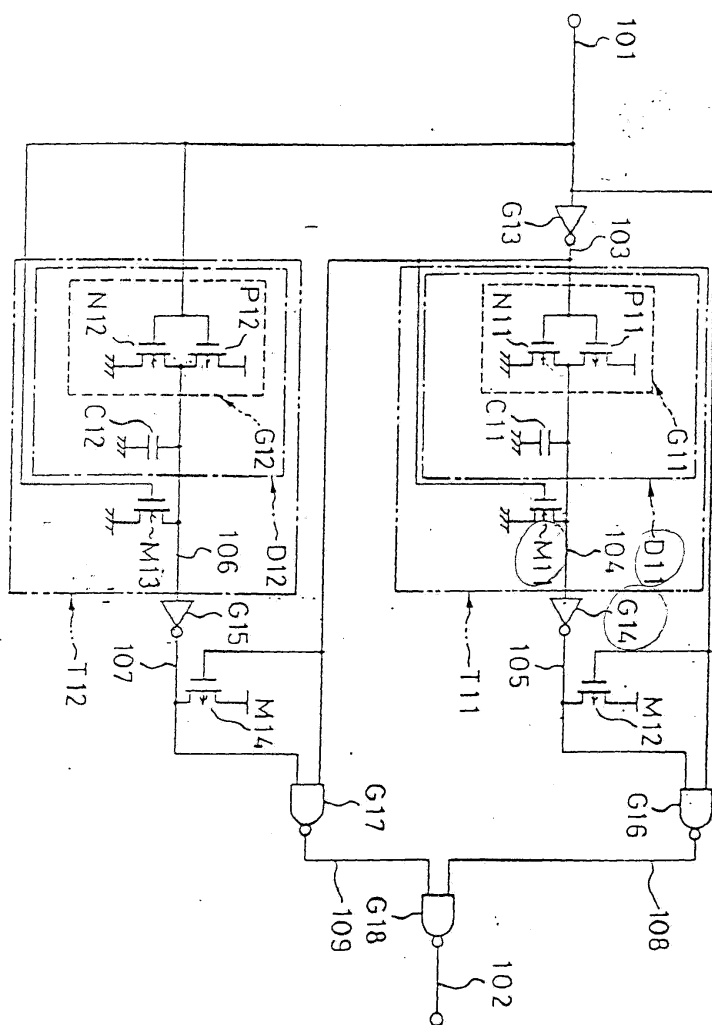


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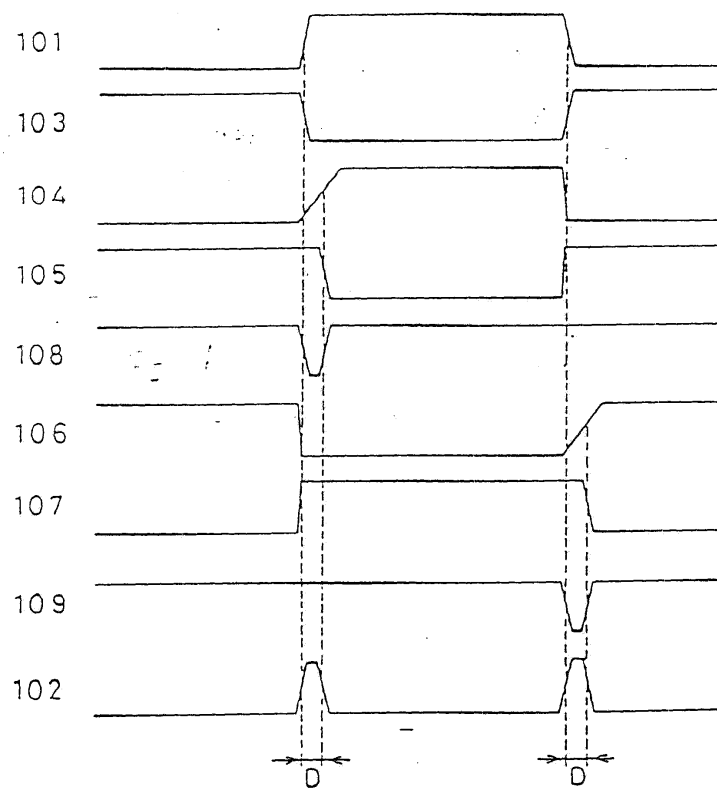
플래기

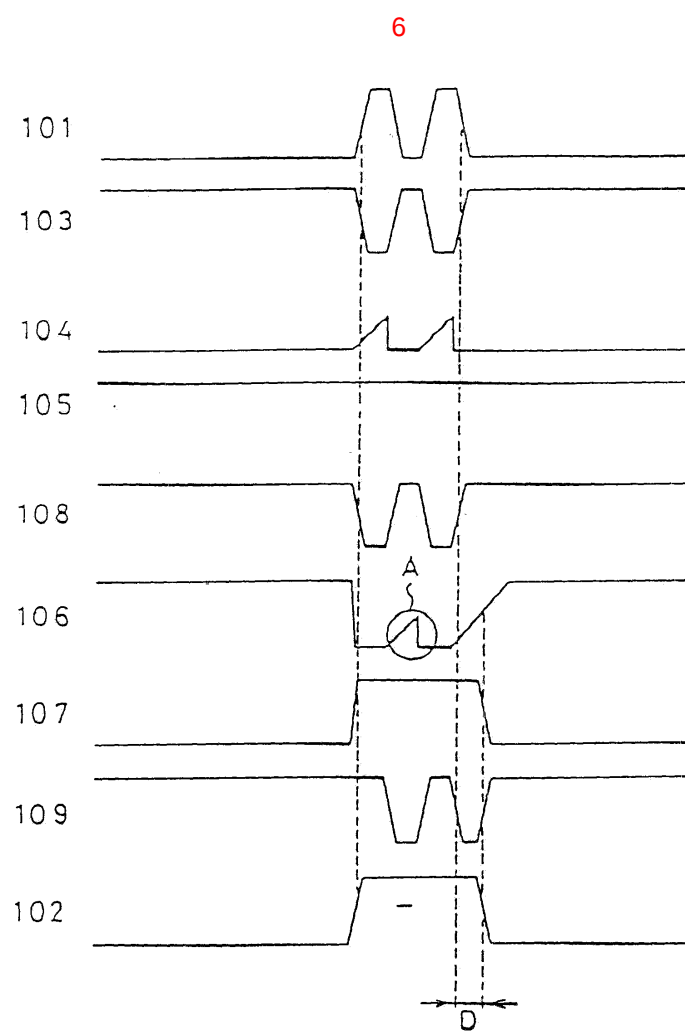


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