

(19)
(12)

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(B1)

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(11)
(24)

2002 04 06
10 - 0318428
2001 12 10

(21) 10 - 1994 - 0014924
(22) 1994 06 27

(65) 1996 - 0003099
(43) 1996 01 26

(73)

136 - 1

(72)

894 - 10 APT

(74)

:

(54)

1 1 (A), 2 (B) ; TTL
2 1 (P1);

2 (CS) 2 2 1 (N2);
(31); 2 (N3);
(CS)
1

3 (N1) , 가 .

1

- 1 ,
- 2 1 ,
- 3 ,
- 4 3 .

*

P1, P2, P3 : (PMOS)

N1, N2, N3, N4 : (NMOS)

31 :

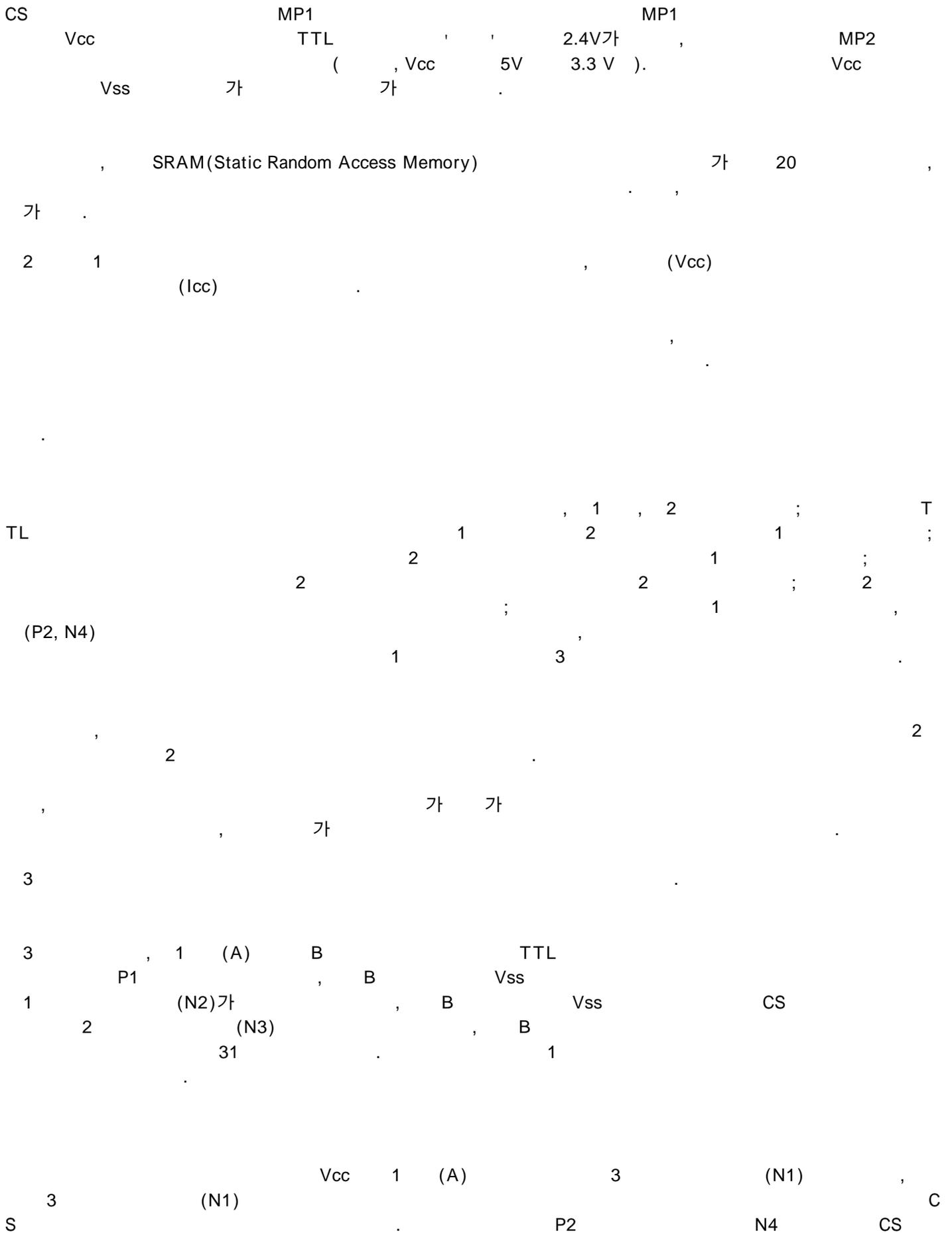
tic current, I_{cc}) (sta

TTL CMOS

1
 1 (CS) 가 MP1
 MN2 , MP2 MN1 , (1)

(CS) . TTL 0.8V
 MN1 MP2 N1
 , TTL 2.4V , MN1
 MP2 N1 , N1 (1)

, TTL 가 NMOS (N2) , PMOS (P2)
 ()



31 3 (N1) 2 (P3) Vcc B

(1) CS가

가 TTL (2.4V) P1 B (N1) 1 (A)가 $V_{cc} - V_{TN}$ (3 (N1)) 3 (N1) 0.8 1.2V

가 TTL (0.8V) (P1) B (N2) 1 (A)가 $V_{cc} - V_{TN}$ (P3) 2 (B) (f ull) Vcc 2 (B) 2 (B)

(2) CS가

(N3) 3 2 (N1) 가 (), 2 (B) 4 (Iss) , 2 (Vcc) (Icc)가

가

가가 가

(57)

1.

1 (A), 2 (B) ;

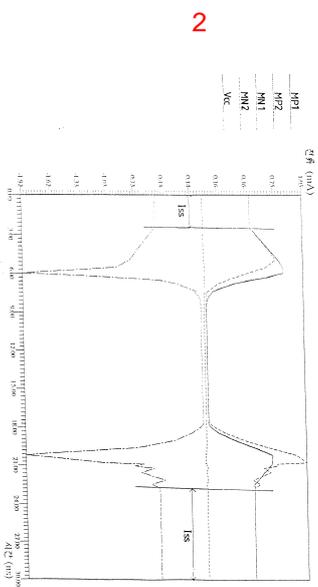
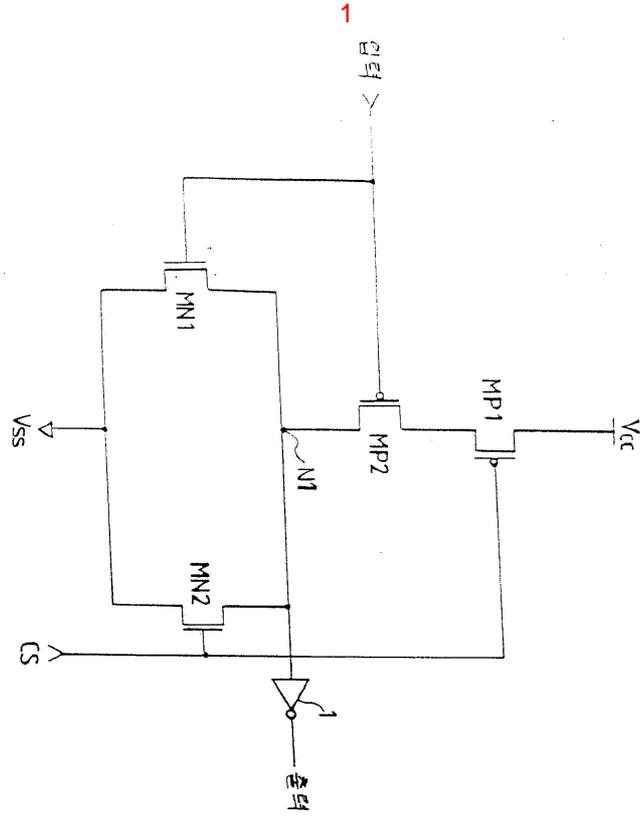
TTL (P1);

1

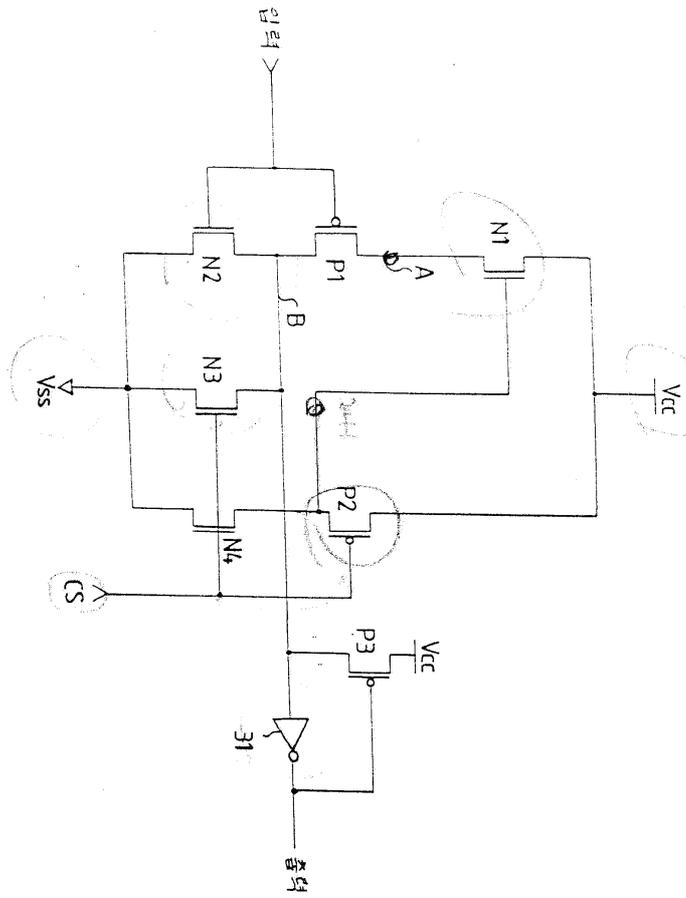
2

1

2 1 (N2),
(CS) 2 (N3);
2 (31);
1 , (P2, N4) 1
3 , (N1)
2.
1 ,
2 2 , (31)
2 (P3)
3.
1 ,
3 0.8 1.2V



3



4

