

(19)  
(12)

(KR)  
(A)

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(11)  
(43)

2002 - 0002883  
2002 01 10

(21) 10 - 2000 - 0037234  
(22) 2000 06 30

(71)

136 - 1

(72)

1 3 304 - 1305

(74)

:

(54)

(reservoir capacitance)

가

2

1

2 .

3 2 , 1

4 2 , 2

5 2 , 3

6 2 .

< >

1, 2 : (reservoir capacitor) 10 :

20 : 30 :

, , , .

, , .

, 가 , 가 .

1 , (Vext, Vdd)

, (1, 2) ,

, (NM1, NM2) 가 ,

, 가 , 가

, , , .

, , , .

, , , .

, , , .

가

가

2

(Vdd) (Vext) (Vdd) (Vext) (Vdd) (Vext)  
 (20) (10) (1, 2) (10) (Vext) (Vdd)  
 (SEL) (SEL) (10) 가  
 (30) (10) 가  
 (1, 2) (10) (NM1, NM2, NM4)  
 (IV1) (20) (Vdd) (READ) (PM1) 가  
 (NM3) (PM1) (NM3)  
 (IV2, IV3) (21)  
 (21) (NANDing) (AAA) (IV4) (BST\_CNTL)  
 (SEL) (ND1)  
 3 (30) 1

1  
가

(10) (30) (Vext) (Vdd)  
 (10) (SEL) (NM4) (SEL)가 (IV5)  
 (10) 가  
 (PM2, PM3)

4 (30) 2 .

2 (30) (Vext) (Vdd) 가  
, (10) (NM4) (IV6) (SEL) , (IV6) 가  
(IV7) (SEL) (NM2, NM3) , (10) 가

5 3 (30) .

3 (30) (Vext) (Vdd) (10)  
, (NM4) , 가 (TG1, TG2)

(TG1) p n , (SEL) (IV8)  
(SEL) (SEL) (TG2) p n , (IV8)  
, (Vext) (SEL)가 (IV8, IV9) (10) 가 .

, (30) .

3 1 (30) ,

, " " (SEL)가 (30) , (PM2)  
(PM3) " " (SEL) (IV5) (SEL)  
가 , (PM2) - (PM3) - ,  
(Vext) (C10) 가 .

, " " (SEL)가 (30) , (PM2) -  
(PM3) - , (Vdd) (10) 가 .

4 2 (30) ,

, " " (SEL)가 , (NM5) (NM6)  
" " " " 가 (NM5) - (NM6)  
- , (Vext) (10) 가 .

6) , " " (SEL)가 , (NM5) - (NM  
(Vdd) (10) 가 .

5 3 (30) ,

, " " (SEL)가 , (TG1) p n " " " " 가  
, (TG2) p n " " " " 가 (10) , (TG1) '  
' , (TG2) ' ' , (Vext) (10) 가 .

, " " 가 , (TG1) ' ' (TG2) ' ' (   
 Vdd) (10) 가 .   
 6 (30) , 2   
 , " " (READ)가 (20) (NM3)   
 , " " 가 (21) , " " (AAA) (ND1)   
 . (ND1) (IV4) (BST\_CNTL) 가   
 L) (AAA)가 " " (ND1) (BST\_CNTL)   
 (SEL) , " " (BST\_CNTL)가 " "   
 (SEL) .   
 " " (SEL)가 (30) , (Vext) (10)   
 가 . , (Vext) , (Vext) (1)   
 , 가 (10) 가   
 가 .   
 (read) 가 (Vext) , 가   
 (Vdd) , , (Vdd) 가 가   
 (10) , .   
 , " " (BST\_CNTL)가 " " , (SEL) "   
 " (30) , (Vdd) (10) 가 . ,   
 (Vdd) (2) , 가 (Vdd)   
 (10) 가 , (Vext)   
 (Vdd) .   
 (20) , (AAA) " " (Vdd) , " " (SEL) " " (PCG)가 ,   
 (Vdd) .   
 , 가 , 가 ,   
 , 가 , 가 ,   
 가 . 가 ,   
 ,   
 ,

(57)



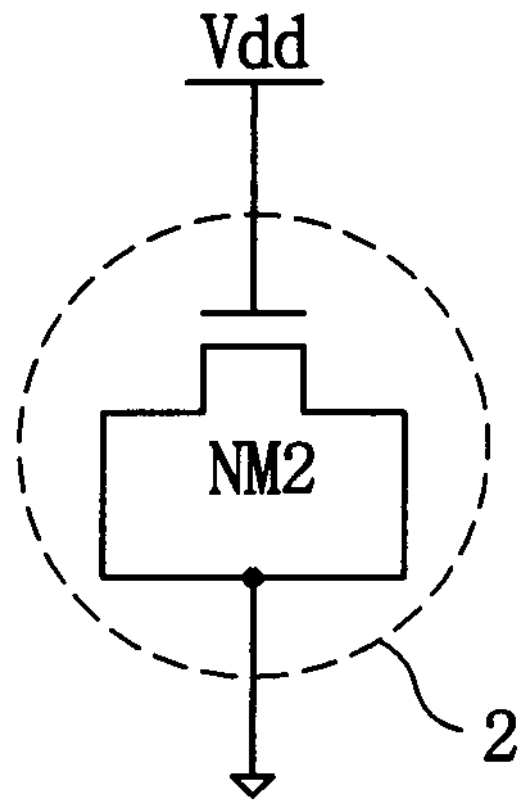
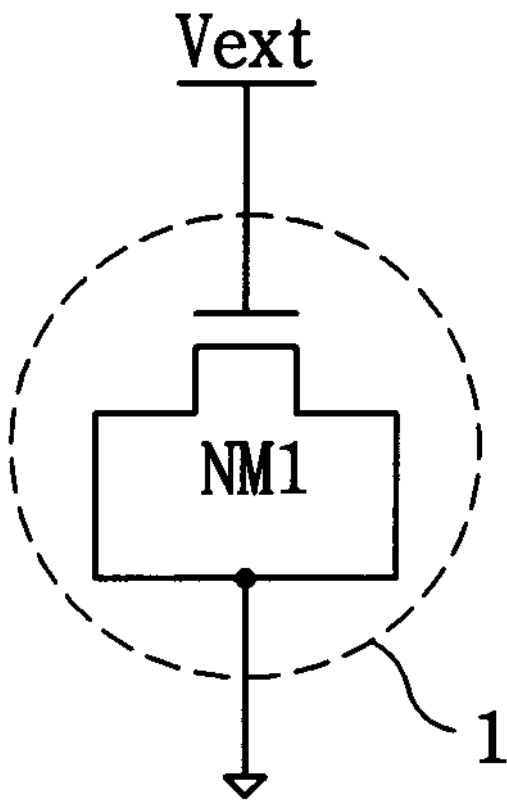
6.

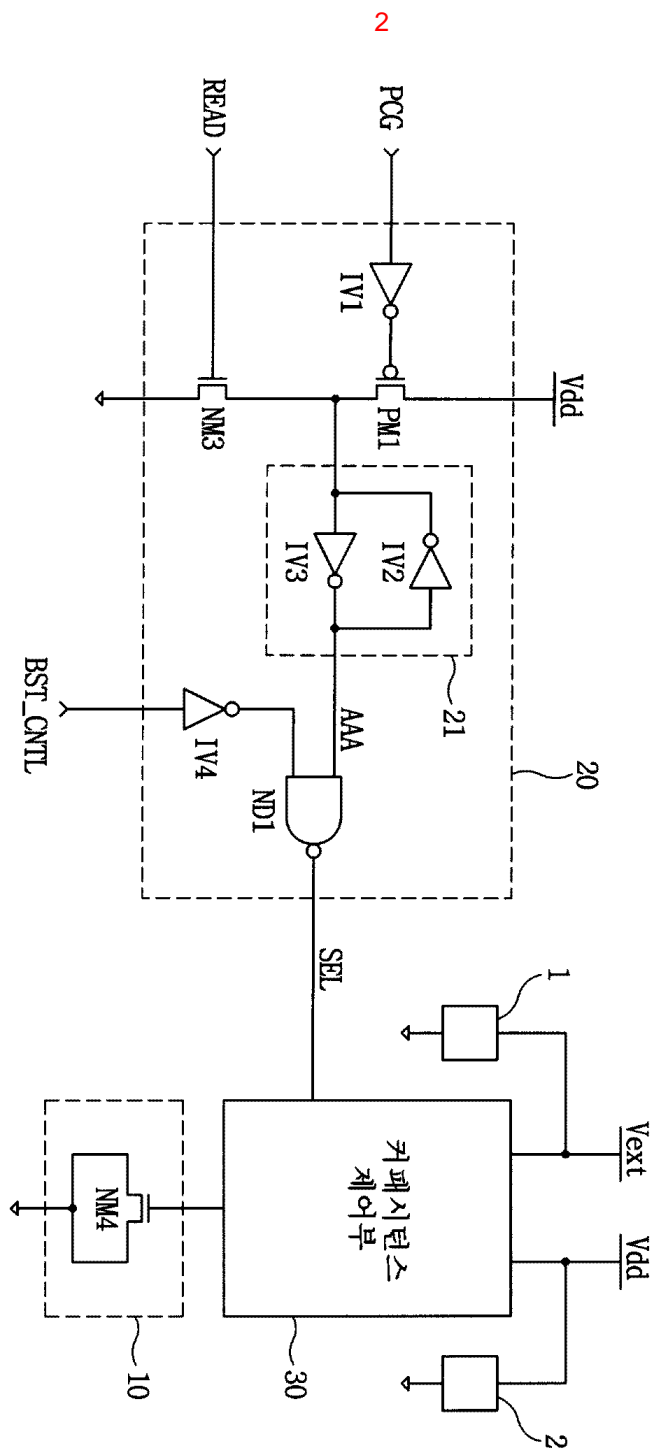
3

7.

1

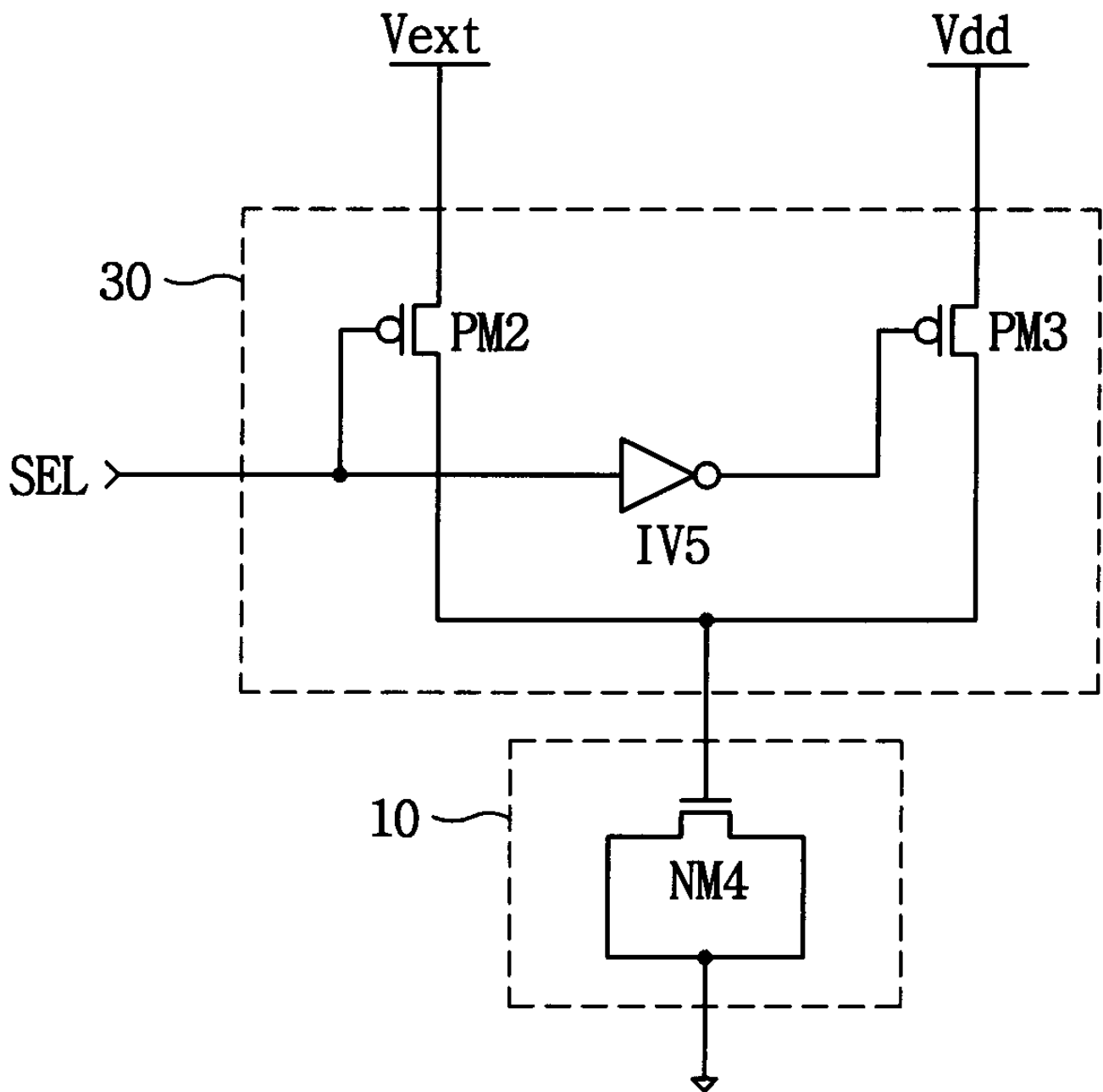
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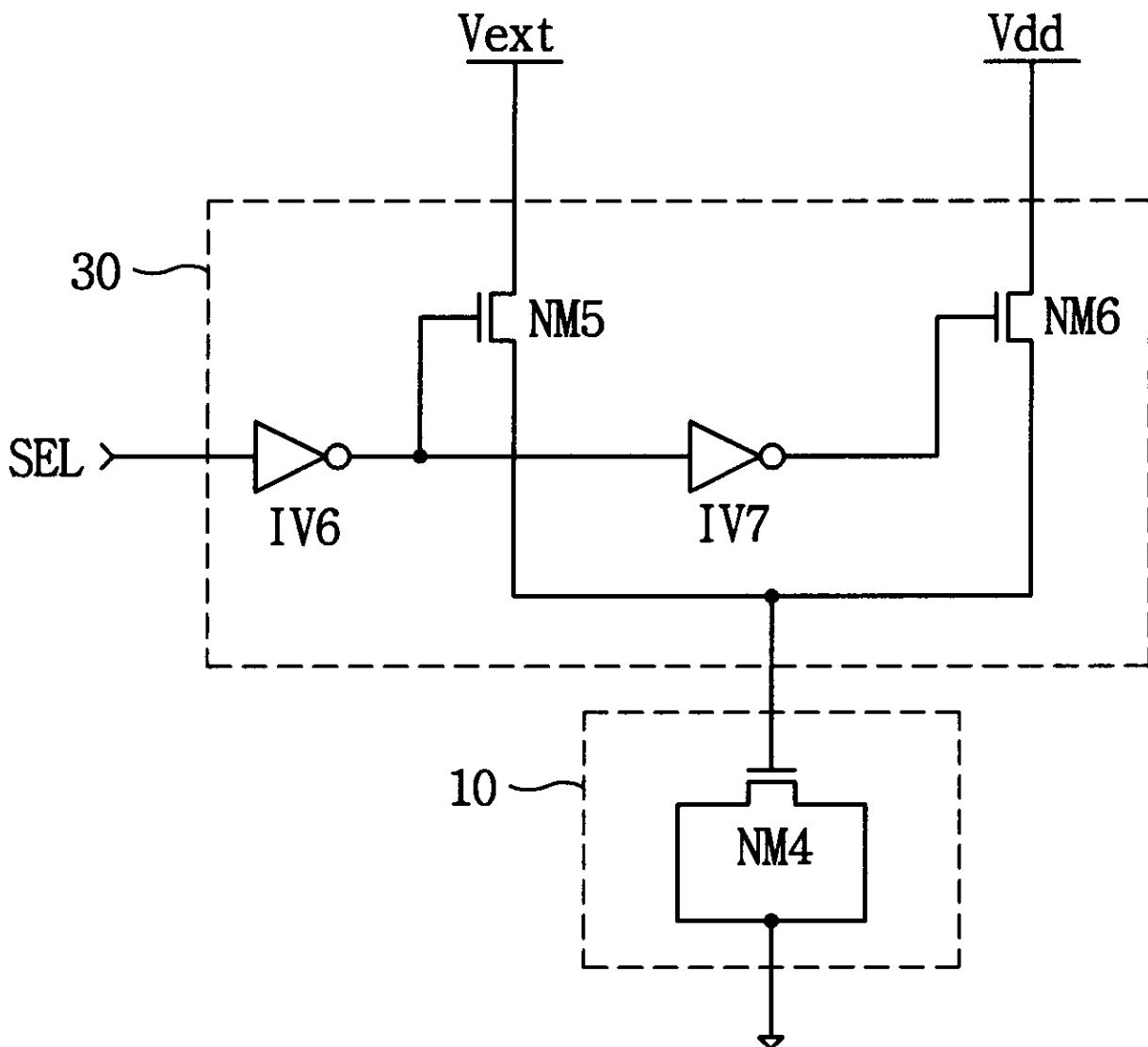


2

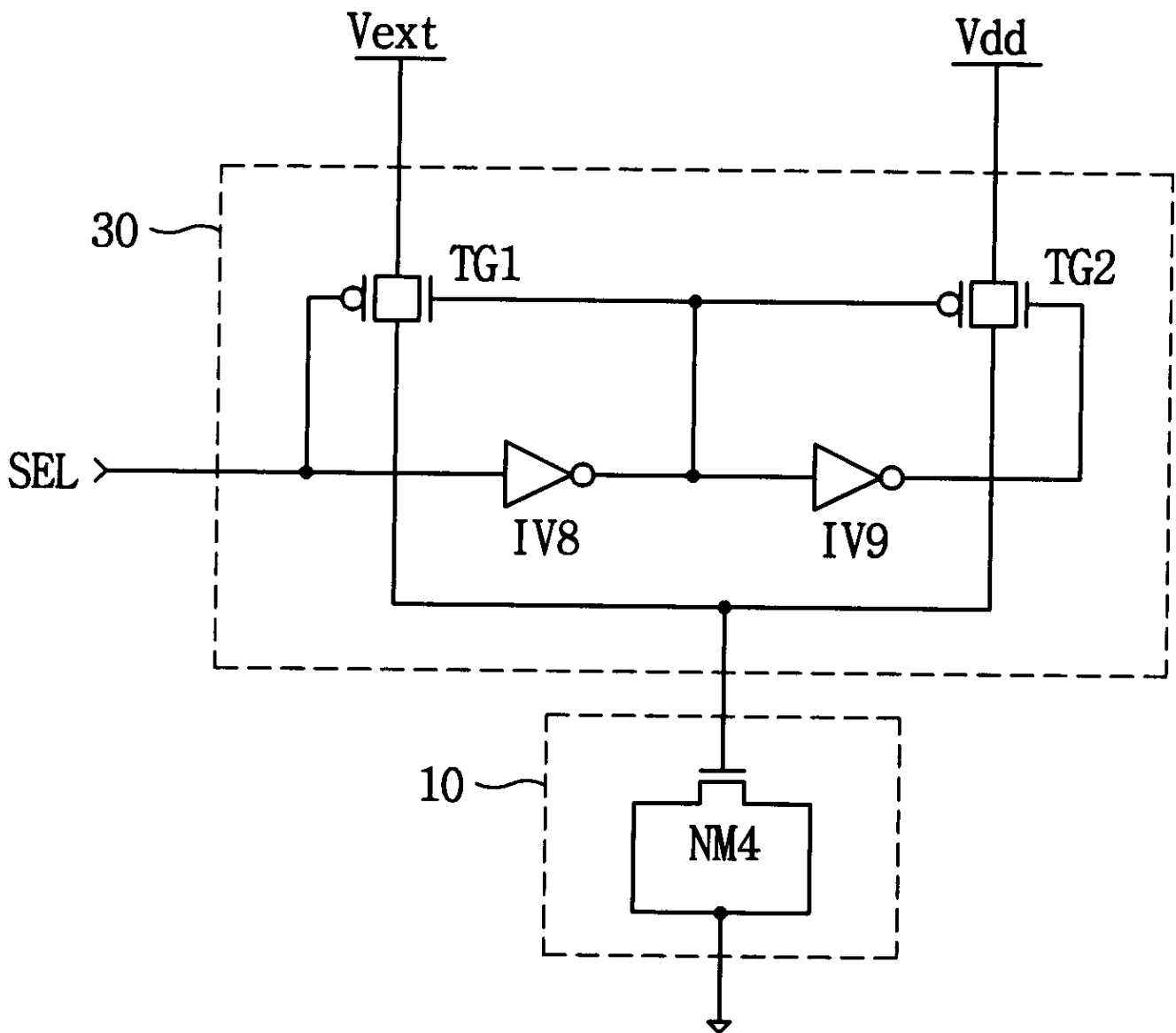
3



4



5



6

