

(74)

:

(54)

가 (EEPROM, Electrically Erasable Programmable Read Only Memory) 가

가 가 / (BIOS, Basic Input/Output System) 가

1 (100) 가 (110) X- (

160) Y- (180) X- (160) Y- (180) (120) (110)

(110) (status register)(130) (120) (110)

) -- -- (120)

(sense amplifiers)(140) (110)

(110) 16 / (I/Os)

I/O 16 (140) (charge pump)(150) (110) (charge pump)

(150)가 (100) (110)

가 (110)

(simultaneous operation) (250-500 ms)

가 가 가 가

가 (partition) , (partition) (partition) ,

1
2

3 3
4

가 /

2 (partition) A 210, B 215, C 225, D 220, E 230,....

n-1 235, n 235가 (partition) (partition) 210, 215, 220, 225, 225

, 230, 235, 240 X Y Y (240) X Y (240)

Y (200) 가 Y X

(partition) A가 (partition) B (partition) C

(partition) B (partition) A

(250) (200) (250)

(state machines) (state machines)

, 2 (state registers) , 3 (state machines)

(state machines) (state registers) (250) (260) (pa

rtition) (partition) (partition) n (idle), (being read),(2

60) (partition) : n (being written), (being erased). (sense amplifier)(270)

(sense amplifier)(270) (250) (sense amplifiers)(270) (sense amplifi

er) , 16 가 16 (

sense amplifiers)(270) (partition) (p

artition) , 32 (sense amplifiers)(270) , 2 (part

ition) 32 (sense amplifiers)(270) 가 (Y)

(sense amplifiers)(270) (width)(X) (partition) (se

(partition) , 3 (partition) 3X

nse amplifiers)(270) (sense amplifiers)(270)

(sense amplifiers)(270)

(sense amplifier)(270)가 가

(sense amplifier)(270) 가

(sense amplifiers)(270) (redundant column)

(sense amplifier) (270) , 2 (sense amplifiers)(2

70) 가, (charge pumps)(280) (charge pumps)(280)

가, (charge pumps)(280) -10

7 (partition)

(charge pump)(280)가 (

(partition)

charge pumps)(280) (charge pumps)(280)

(partition) Y (partition)

2 , 3 가 3

3 (partition)

(partition)

(partition)

가 (partition) 가

(partition) (partition)

(partition) (seamless) 가 3

(partition) , (partition) , ,
 3 3 (partition) A 310, (partition) B 31
 5, (partition) C 320 X Y , X (307) Y (309
 , 312) (partition) A(305, 310) , (partition) A(310) Y (3
 09, 312) (partition) B (partition) A(310) (partition) A (310
) (partition) A (305) (partition) C
 (partition) A(310) (status registe
 r)(335) (partition) A (status register)(335) (partition) A
 -- (idle), (being read), (being written), (being erased) --
 , (partition) B , X (317), Y (319) (status register)(340)가
 (partition) C X (323), Y (322) (status register)(345)
 345)가 (status register)(335, 340,
 (sense amplifiers)(350) (partition) (sens
 e amplifiers) 18 . 16 (sense amplifiers)(350) (partition)
 (sense amplifier) (partition)
 2 (2 (partition)) , 2 (state machines)
 (state machines)
 (charge pumps)(360)
 (charge pump)(360) (partition)
 , (partition) (partition)
 , 가 (partition) , (partition)
 , (partition)
 4 (partition) (410) (430)
 (410) (430)가 (410) (430)
 (receptacle) (430)
 460) (410) (partition)(
 (partition)(450) (partition)(450)
 (partition)(450) (dialing director) (440)
 , (partition)(470) (partition)(470) 가
 , (440)가 (partition)(470) (partition)(450)
 , (partition)(460) 가
 , 가 가 , ,

(57)

1.

가

1

가

2.

1 X - X - ;
 Y - Y -

3.

1 ,

4.

5.

1 ,
1 ,

6.

1 ,
,
,

7.

1 ,
,

8.

1 ,
,
,

9.

1 ,

10.

9 ,
,

11.

;
 ;
 , 가 가 - , , 가 가
 ,
 - ; 가 가 1 - , 가
 -

12.

11 ,
 ,
 X - X - ;
 Y - Y -

13.

11 ,

14.

15.

11 ,
1 ,
16

16.

11 ,

17.

16 ,

18.

17 ,

19.

11 ,

20.

19 ,

21.

1 , 2 3 , 1 2 ; ,
1 3 3

22.

21 ,
1 , 2 1 2

23.

21 ,
3 , 1 가

24.

23 ,
1 , 2 2 가

25.

24 ,

2

1

225, 230)

(20)

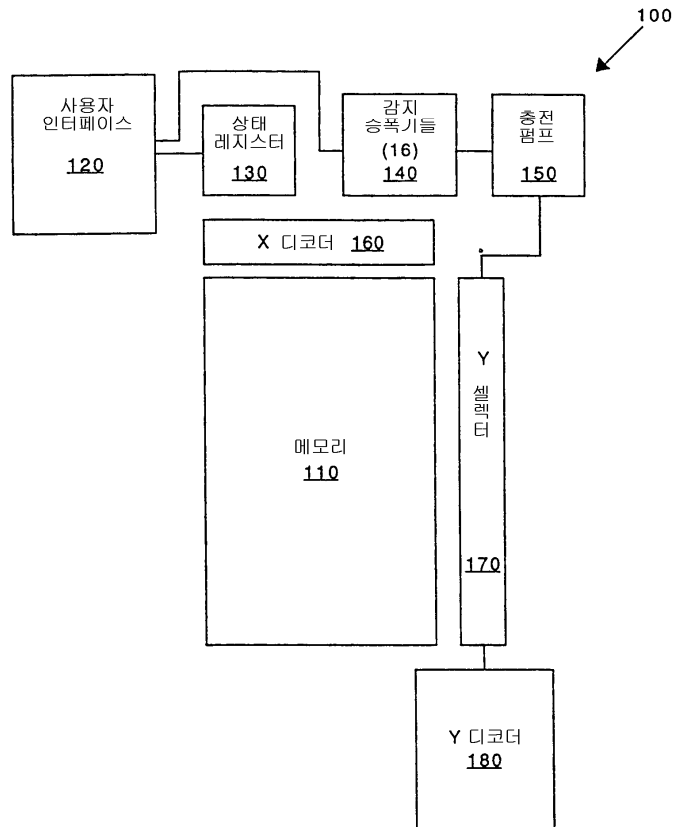
가

가가

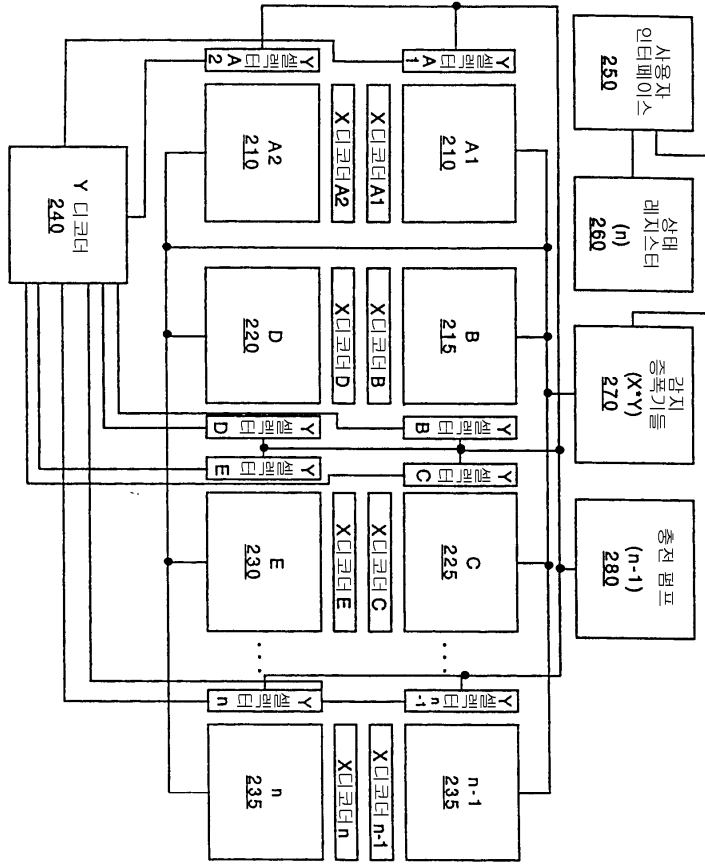
(210, 215, 220,

2

1



2



3

