

(19) (KR)  
(12) (A)

(51) 。 Int. Cl.<sup>7</sup> (11) 2003-0051393  
G11B 20/04 (43) 2003 06 25

(21) 10-2002-0081149  
(22) 2002 12 18

(30) 10/025,306 2001 12 19 (US)

(71) - ( )  
( 94304) 3000

(72) 94022 620

(74)

:

(54)

(110) - (112), - (214) - (112)  
- (214) (210)

.

1

1 - OTP ,

2 ,

3 1 ,

4 RS-PC ,

5a 5b 2 .



1 2 , - (10) - (112)  
 (112) (114) 2001 7 24 (112) 09/911,974 .

/ (210) (212) (114) / (210) (10) (c)  
 ontrolling power sense striping),

(112) (116) / (210) (11  
 6) 가 (112) , ,  
 (112) .  
 / (210) (212) ) ,  
 ( , 'ECC' ) , ,  
 - .

(114) ) . , - (214)( ,  
 (214) ( , )  
 (214)  
 ( , 32 ) .

3 가 , - , / (210)  
 1 (210) ( , )(  
 310) (212) ( 312). 가 (210)  
 가 ( 314). 가 , /  
 (210) ( 316), -  
 ( 318).

( , - 가 )( 314), /  
 (210) (214) ( 320).

/ (210)가 , (21  
 4) (212) 가 ( 316), -  
 , 가 ( 318).

-PC') . RS-PC OTP 가 , Reed-Solomon Product Code('RS  
 RS-PC

4 , RS-PC (410) 16 2 32  
 (412) . RS-PC RS-PC  
 2- RS-PC (410) (414) 1 가 . RS-PC (410)  
 RS-PC ) , RS-PC  
 (416) 2 .

5a 5b , / (210)  
 / (210) ( 510) (212) ( 51  
 2). 가 ( 514), / (210) R  
 S-PC ( 516), RS-PC ( 518).  
 가 ( 514), ( , 0) 가  
 ( 520), RS-PC ( 522).  
 - ( 524).

1 RS-PC 가 ,

- (214) ( 526). 가, (temporary) RS-PC  
 - (214) ( 526). 2 RS-PC  
 1 RS-PC  
 가 가 ( 530), RS-PC  
 (214) ( 532),  
 ( 534),  
 ( 536), RS-PC 가 ( 538).  
 ( 가 ) (212) ( 540).  
 가 ( 542), RS-PC ( 544).  
 , 가 - ( 548).  
 ,  
 ( 550). , 가 - (214)  
 ( 552).  
 5a 5b RS-PC .  
 5a 5b , ( )가 -  
 ,  
 ,  
 가 , (214) , /  
 , 가  
 ,  
 가 OTP ,  
 , -  
 .

OTP

, 가 , , -

(57)

1.

- (write-once memory)(112) ,  
 - (non-volatile memory)(214) ,  
 - (112)  
 - (214) (210)  
 (110).

2.

1 ,  
 가 (210) - (214) , (210)  
 (full block) , (210)  
 (112)  
 .

**3.**  
 1 ,  
 (210) (112) ,  
 (padding) - ,  
 - (214)  
 .

**4.**  
 3 ,  
 - (112) (temporary) -  
 (214)  
 .

**5.**  
 3 ,  
 (ending address) , - (112) (starting address) - (214)  
 (120)

**6.**  
 3 ,  
 (210) - (112) ,  
 , ,  
 .

**7.**  
 6 ,  
 (110) -  
 가

**8.**  
 3 ,

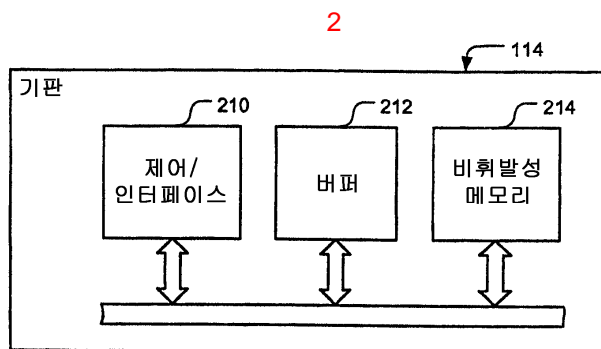
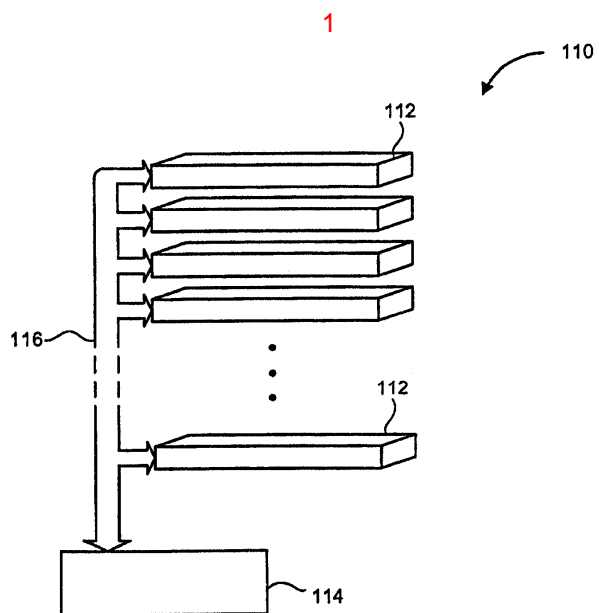
RS-PC

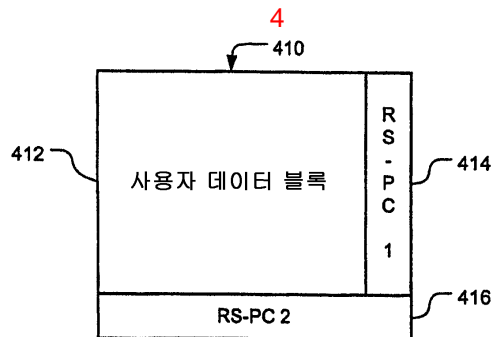
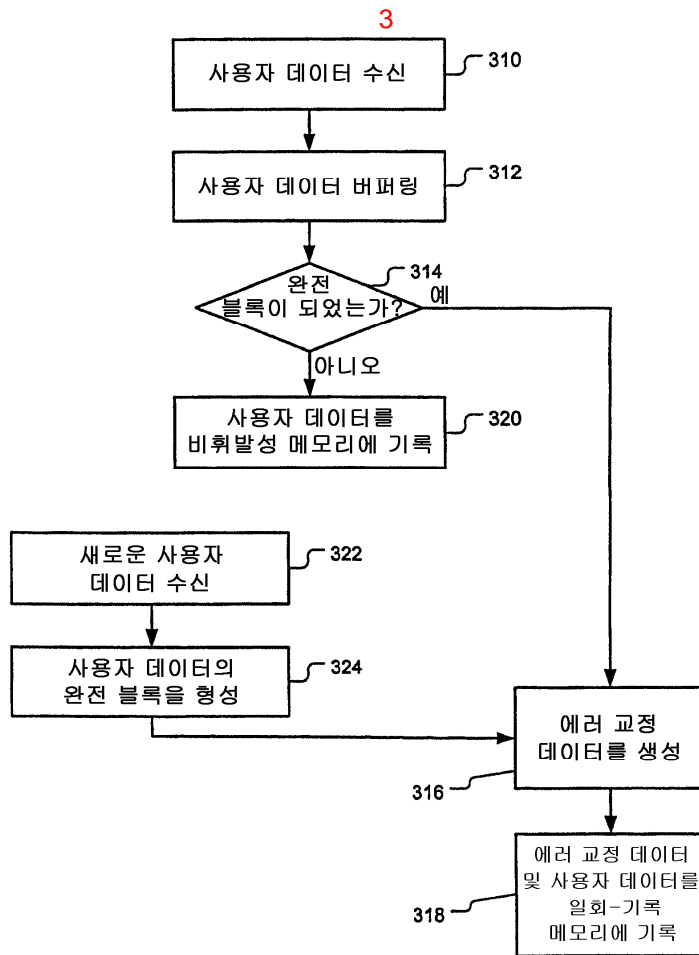
9.

1

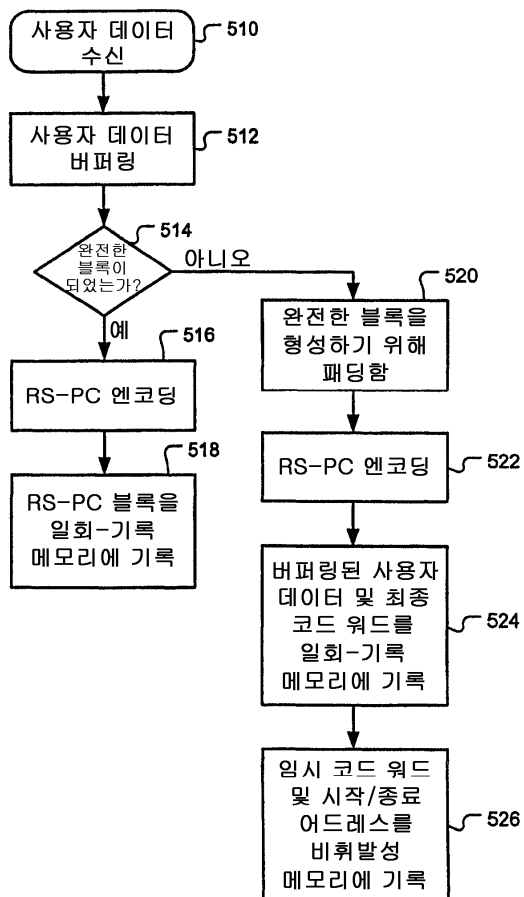
(214)

(full user data block size)





5a





5b

