

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

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G11B 20/04 (43) 2003 06 25

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

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

$$(71) \quad - \quad (\quad (\quad) \quad 94304) \quad 3000$$

(72) 94022 620

(74)

1

(54)

1

1 - OTP

3 1

4 RS-PC

5a 5b 2

110 : 112 : -

114 : 116 :

210 : / 212 :

214 : - 410 : RS - PC

가 (poor robustness),
가 (OTP) 2001 6 5
09/875,356 (high
shock tolerance),
(, PCMCIA, CF)

OTP 가 가 . . , OTP 가 , ECC

, (full block) . 32

가

OTP
가

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

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

$$\begin{array}{ccccccc} & (112) & & (116) & & / & (210) \\ 6) & & & (112) & & & \\ \text{가} & - & & , & & & , \\ & (112) & & & & & \end{array} \quad (11)$$

/ (210) 'ECC') (212) , , ,

$$(114) \quad) \quad . \quad . \quad , \quad - \quad . \quad . \quad (214) \quad (\quad , \quad) \quad (214)(\quad)$$

$$(\quad , 32 \quad) \quad (214) \quad (214)$$

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

4) / (210)가 , 가 (324).
 , (212) 가 (316),
 (318).

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

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

5a 5b , / (210) (210) (510) (512) (212) (210) (512).
 2). 가 (514), (516), RS-PC - (518).

가 (514), (, 0) (522).
 가 (520), RS-PC - (524).

1 RS-PC 가 ,

- (214) (526). 가, (temporary) RS-PC
 (214) (526). 1 RS-PC 2 RS-PC .

가 (214) 가 (530), RS-PC
 - (532), (534), 가
 (536), RS-PC (538).
 () 가 (212) (540).

가 (542), RS - PC (544).
 , 가 - (548).

5a 5b RS - PC

5a 5b . . . ()기

(214) 가 가

가 OTP

OTP

가

(57)

1.

(write-once memory)(112) ,

(non-volatile memory)(214) ,

$$\begin{array}{c} - \\ (214) \end{array} \qquad \qquad \begin{array}{c} (112) \\ (210) \end{array}$$

(110).

2.

1 ,
2 (210) (214)
3 (full block) , (210)
4 (112)

1 ,
2 (210) (112)
3 (padding) ,
4 (214) (214) (temporary)

1 ,
2 (214) (112) (120) (112) (starting address)
3 (ending address) , (214)

1 ,
2 (210) (112) ,
3 ,

1 ,
2 (110)
3 ,

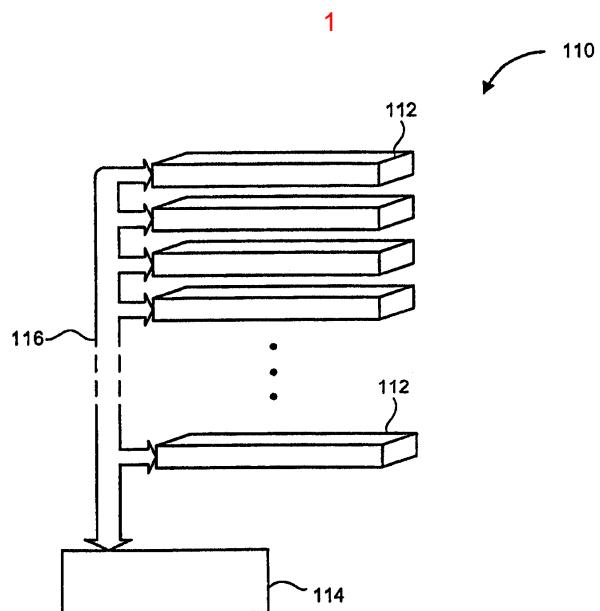
RS-PC

9.

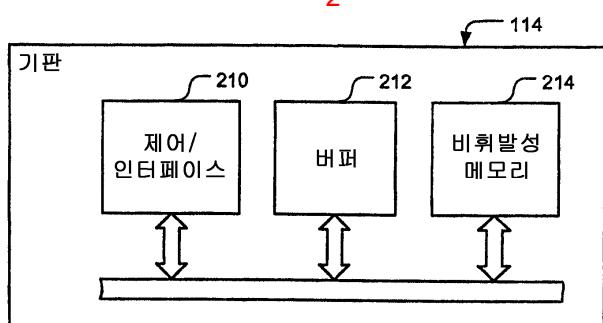
1

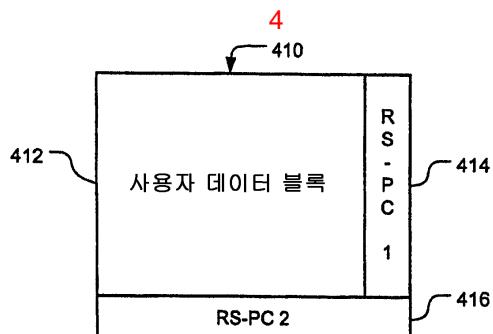
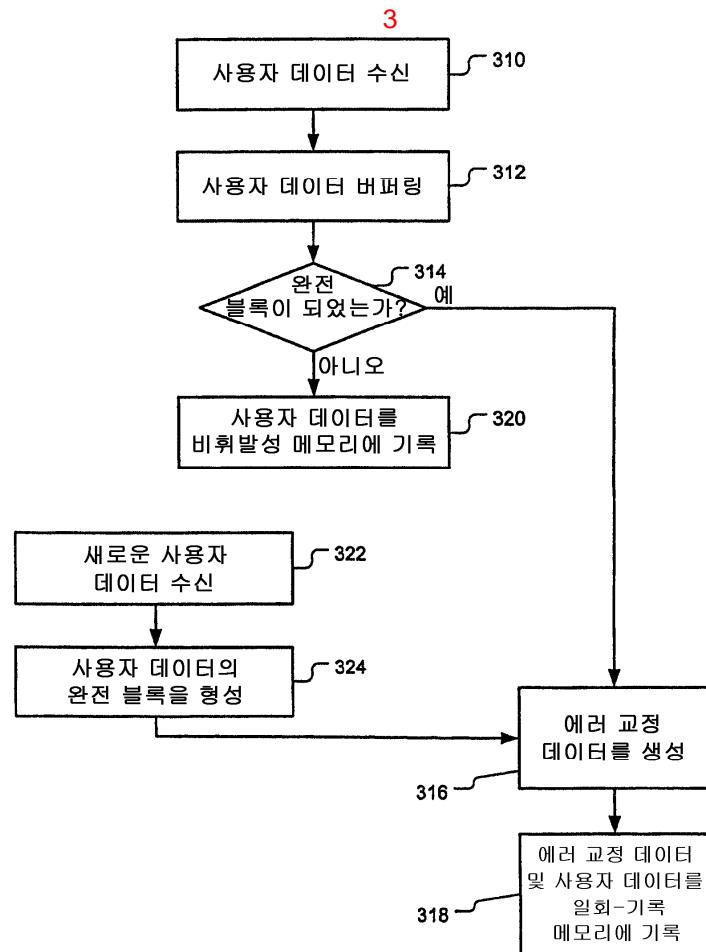
(214)

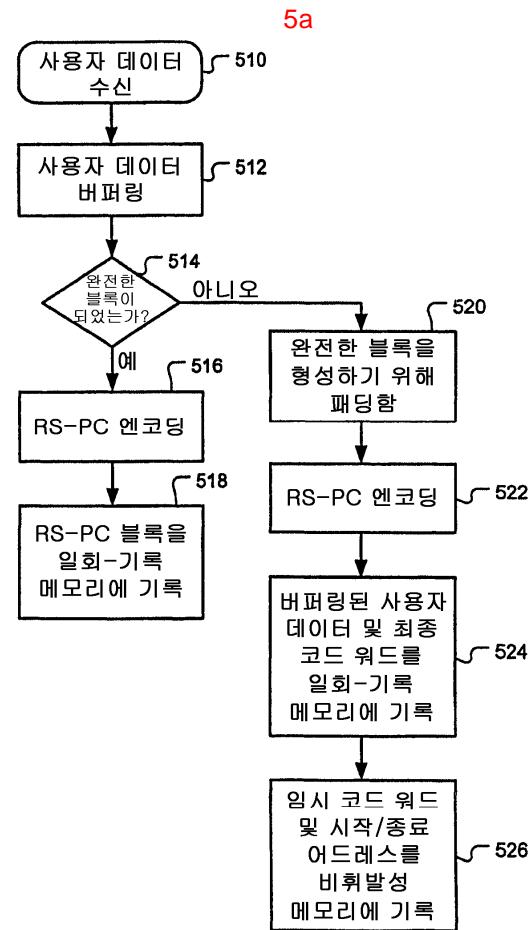
(full user data block size)



2







5b

