

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl.7
G06F 15/00

(45)
(11)
(24)

2004 10 20
10-0453504
2004 10 08

(21) 10-2002-0023618
(22) 2002 04 30

(65)
(43)

10-2003-0085270
2003 11 05

(73) 890-20

(72) 9 907 701

35 3 335 501

1321-6 4

(74)
:

(54)

· , , 1 , , 2 1 1 , 1 가
2 , , 1 , , 2 1 , 1 가

1a

· , , , , , CRC, FCS

가

1 1 2 1 2

가 가

2 3 2 3 가 2

3 2 2

3 가 1 2 1 3 2

32 16

1 1 1 2 1 2

INF) 가 가 (

가 가

가 가

Communications Service), (PDA, Personal Digital Assistant) (PCS, Personal

가

(ESN, Electronic Serial Number)' ,

Number)

가 가

(ESN, Electronic Serial

(ESN, Electronic Serial Number)

(ESN, Electronic Serial Number)

가

(ESN, Electronic Serial Number)

(INF, Information)'

(INF, Information)

1a

1a

(100)

(130)

(140)

(100)

(100)

(140)

(130)

(130)

가

(130)

(130)

가

(130)

(PDA, Personal Digital Assistant)

(PCS, Personal Communications Service),

(130)

(130)

(130)

(130)

(130)

(130)

(100)

(130)

(130)

(130)가

(100)

가

(110)

(100)

가

(100)

(140)

(100)

(110)

(100)

Serial Number)

(130)

(ESN, Electronic

가

(ESN, Electronic Serial Number)

(130)

5

(130)

(130)

(130)

(ESN, Electronic Serial Number)

(130)

(130)

(ESN, Electronic Serial Number)

1b

(100)

1b
(156)

(100)

(152),

(154),

(158)

(160)

(152)

(100)

가

(130)

(130)

가

(130)

3b

(154)

(130)

(156)

(158)

(130)가

(100)

(130)

(ESN, Electronic Serial Number)

(160)

(100)

1c

1c

(174)

(130)

(170),

(172),

(176)

(170)

(100)

(130)

(172)

(170)

(100)

(INF, Information)

(174)

(130)

(130)

(ESN, Electronic Serial Number)

(176)

(174)

(130)

2

가

(130)

(130)

가

(130)

(130)

2

200

(130)

(100)

1a , (130)가 (100)

2 ,

7b 205 (100) (100) (130)

(100)

(100) 210 (130)

215 (100)

(100) 225 (130)

230 (130)

(130) 가 가

(130) (ESN, Electronic Serial Number)

230 5

235 (130)

230 230 6

3a (100) (130)

3a (300), (320), (130) (340), (360)

(130) (300)

(300) (130)

(100)

(340) 가

가 (130) (340) (340)

(340) 3b (320)가 가

(360) (100)

(360) (130) (360)

(320) (360)

(360)

가 가

(360) (CRC, Cyclic Redundancy Check) (FCS, Frame

Check Sequence) (130)

(130) (100) (FCS, Fram
e Check Sequence) (130)
(FCS, Frame Check Sequence) 32(CRC32)
16(CRC16) (130)
16(CRC16)
32(CRC32) 16(CRC16)
가 32(CRC32) 가
16(CRC16)
(ARQ, Automatic Repeat reQuest)
(ARQ, Automatic Repeat reQuest) 가
(ARQ, Automatic Repeat reQuest) (FEC, Forward Error Corretio
(FEC, Forward Error Corretion)
(ARQ, Automatic Repeat reQuest)
가
가 (FEC, Forward Error Corretion)
(130)
(ARQ, Automatic Repeat reQuest)
1 4 1
3b (340) (340)
(130) (340)
가 (130)
(application programming interface, API)
(application programming interface, API) (OS)
(DBMS) (130)
(130) (130)가 (130)
3b (340) 3b (34
0) (342) 가 (130) (ESN, Electr
onic Serial Number), (130)
'1 (344) (MIN, Mobile Identification Number),
(340)
(MIN, Mobile Identification Number) 10
34
'2 (346) , SMS 가 (340) '3 (348) TCP/IP, UDP,
HTTP (340) (340) '4 (350)
'5 (352) (340) '6 (354)
(340) 가 (340)
4 (100)
(100)

(130) (100) (100)

(130)

4 (100)

400 (100) (130)

가 (100)

410 (100) (130)

가

(CRC, Cyclic Redundancy Check)

32(CRC32) 16(CRC16)

32(CRC32) 32(FCS 32, Frame Check Sequence

32) 16(CRC16) 16(FCS 16, Frame Check Sequence

16) 16(FCS 16, Frame Check Sequence 16)

32(FCS 32, Frame Check Sequence 32)

16(FCS 16, Frame Check Sequence 16)

32(FCS 32, Frame Check Sequence 32)

16(FCS 16, Fram

e Check Sequence 16)

410 가 415 32(FCS 32,

Frame Check Sequence 32)

32(FCS 32, Frame Check Sequence 32)

가 n 가 16 k

가 r 가

32(FCS 32, Frame Check Sequence 32)

가 k가 32 , 0x04c11db7

420 가 32(FCS 32, Frame Check Sequence 32)

410 가 425

16(FCS 16, Frame Check Sequence 16)

32(FCS 32, Frame Check Sequence 32)

16(FCS 16, Frame Check Sequence 16)

가 n 가 16 k

가 r 가

16(FCS 16, Frame Check Sequence 16)

가 k 16 , 0x8005

425 430 415 420

435 440 (130)

5 (130) (130)

가 가

(ESN, Electronic Serial Number)

(ESN, Electronic Serial Number) 가 가

5
 500 (130) (FCS, Frame Check Sequence)
 가
 (FCS, Frame Check Sequence) (FCS, Frame Check Sequence)16
 (FCS, Frame Check Sequence)32 가
 505 (130) (FCS, Frame Ch
 eck Sequence)
 510 (130) (FCS, Frame Check Sequence)
 515 (130) (INF, In
 formation)
 (100)
 (INF, Information)
 (INF, Information) 가 (130)
 (130) (INF, Information) (INF, Information)
 가 (INF, Information)
 가 (INF, Information)
 가 520 (130) (FCS, Frame
 Check Sequence) 16(CRC16) 가 (FCS, Frame Check Se
 quence)16 (FCS, Frame Check Sequence) 16
 가 (FCS, Frame Check Sequence)32 32(CRC32)
 (FCS, Frame Check Sequence)32
 525 (130) (FCS, Frame Check Se
 quence) 520 (FCS, Frame Check Sequence)
 520 (FCS, Frame Check Sequence)
 (FCS, Frame Check Sequence)
 520 (FCS, Frame Check Sequence)
 (FCS, Frame Check Sequence) 520 (FCS, Frame Check Sequence)
 530 (130) (130)
 (130) (130)
 Information) 가, (130) (INF,
 (130)
 (INF, Information)
 535 (130) (130) (ES
 N, Electronic Serial Number)
 가
 (XOR, exclusive or) 가 (Boolean operator) , 2 가
 가 540 가 (130)
 (130)
 500 540 (130)
 6 (130)

가 5

600 (130) (130)

605 (130) (FCS, Frame Check Sequence)

610 (130) (130) (ESN, Electronic Serial Number)

615 (130) (130) (ESN, Electronic Serial Number)

가 5 535 615 (130) (130)

620 5 540 615 (130) 5 540

가 615 (130) 5 540

540 가 615 (130) 5

7a 7b 가 625 (INF, Information) (130)

(100) (130)

6 7a 7c (130) (100)

가 (120) (120) (7) (7)

7a (100)

가 (120)

7a 가 (120)

700 (100) (100) (130)

705 (100) (130)가 (110)

(110)

(110) (110) (100)

(110) (100) (110)가 (10)

0) 710 (100) (110) (100) 710

710 (110) (100) 710

720 710 720 (100) 4 415 440 (130)

7b

(140) , (110)
 (100) 가 , 가
 , (110) ,
 , 7b , (140) (140)
 , (100) (130) (140) (140)
 750 (140) (130) (ESN, Electronic Serial Number)
 , 750 (140) (ESN, Electronic Serial Number)
 (130)가 (110) (ESN, Electronic Serial Number)
 , (110)
 (140) 755 (110)가 (140)
 (140) 755 (110) (140) 760
 (100) 765 (100) , 770
 , 785 (140)
 765 770 4 415 440
 790 (140) (130)
 , (110) ,

가 .

가

(57)

1.

(a)

;

(b)

1

;

(c)

;

(d)

1

1

;

(e)

1

가

2

,

2.

1

,

2

-;

3

;

2

가

3

,

- ;
- 가 ;
3. 1 2 ,
4. 1 1 2 , 2 3
5. 4 , 가 , 2 3 32
6. 4 , 가 , 2 3 16
7. 2 , 1
8. 2 ,
9. 8 , 1 2 2 , 1 (INF) 1
 , 2 1 가 , 2 가 , 1
- 10.
- (a) ;
- (b) ;
- (c) 가 ;
- (d) 가 ;
- (e) ;
- (f) ;
- (g) ;
11. 10 ,
12. 10 ,

10 13. ,
(c) 가 , 가

10 14. ,
(e) 가 16 ,

10 15. ,
(e) 가 32 ,

10 16. ,
; ;
; ;
가 ,

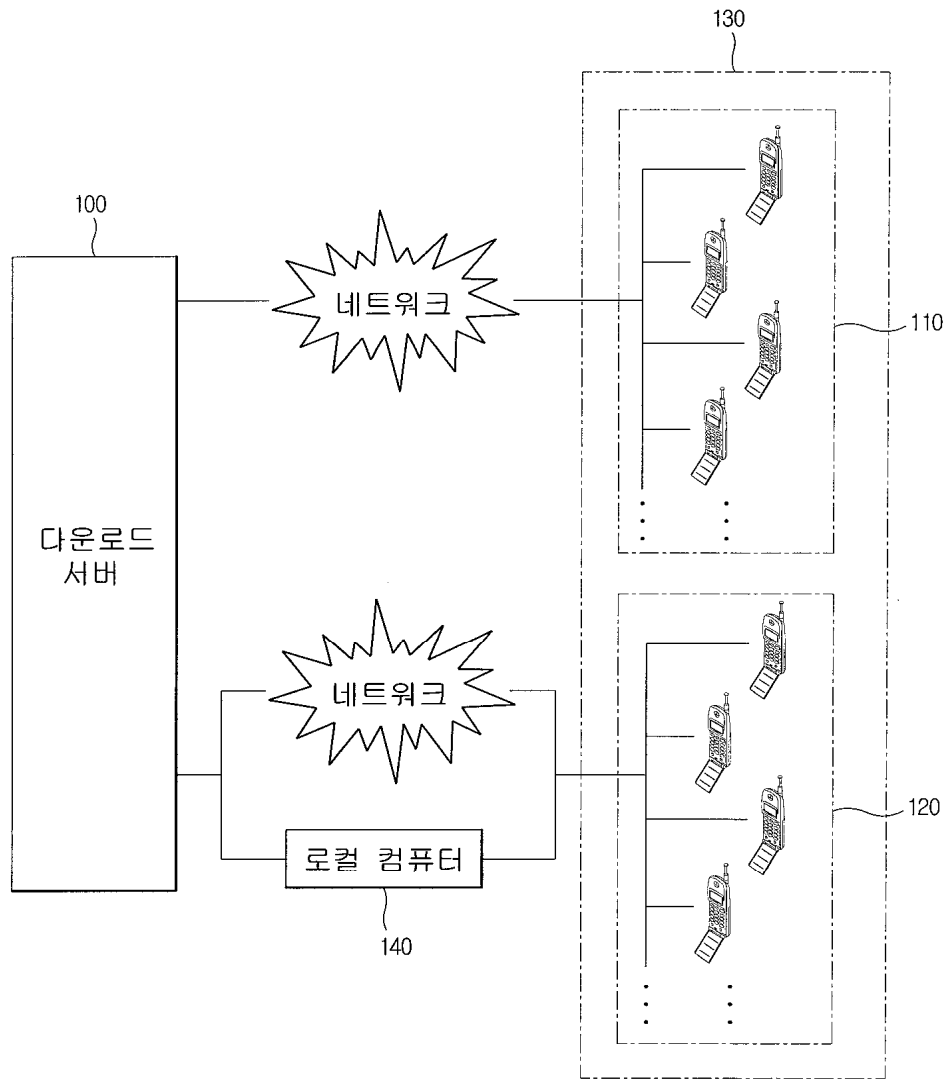
16 17. ,
가

10 18. ,
(e) , 가

1 19. 9

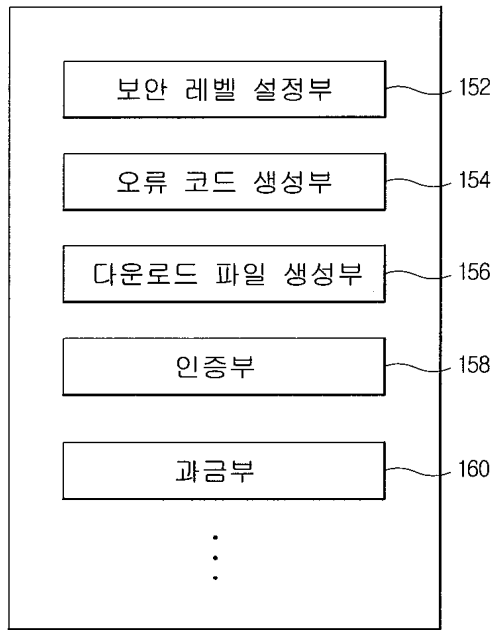
20. ; , 10 18 ,

1a



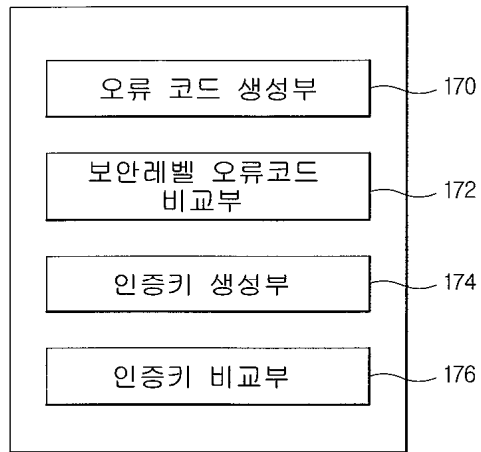
1b

100

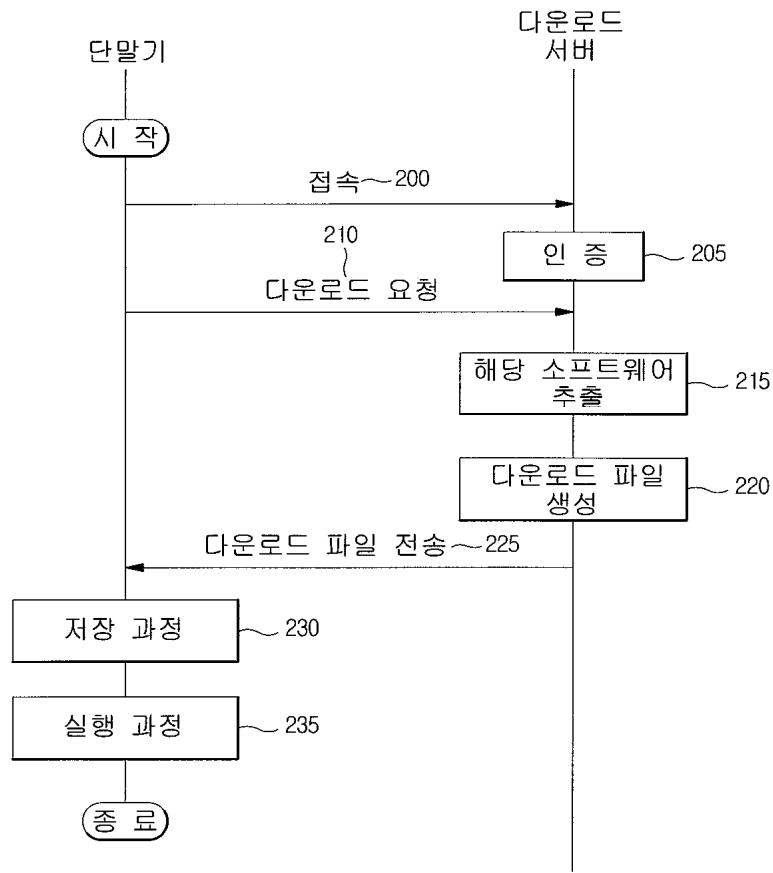


1c

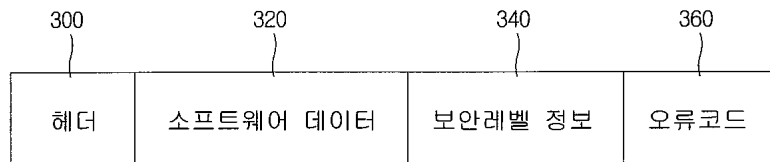
110



2



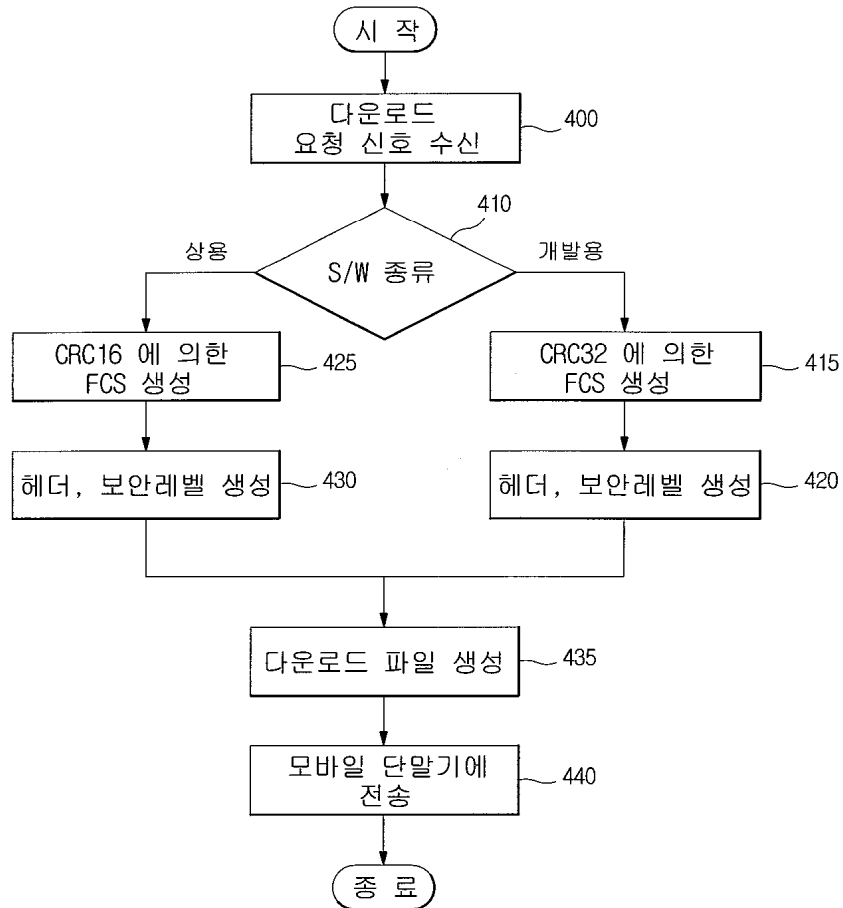
3a



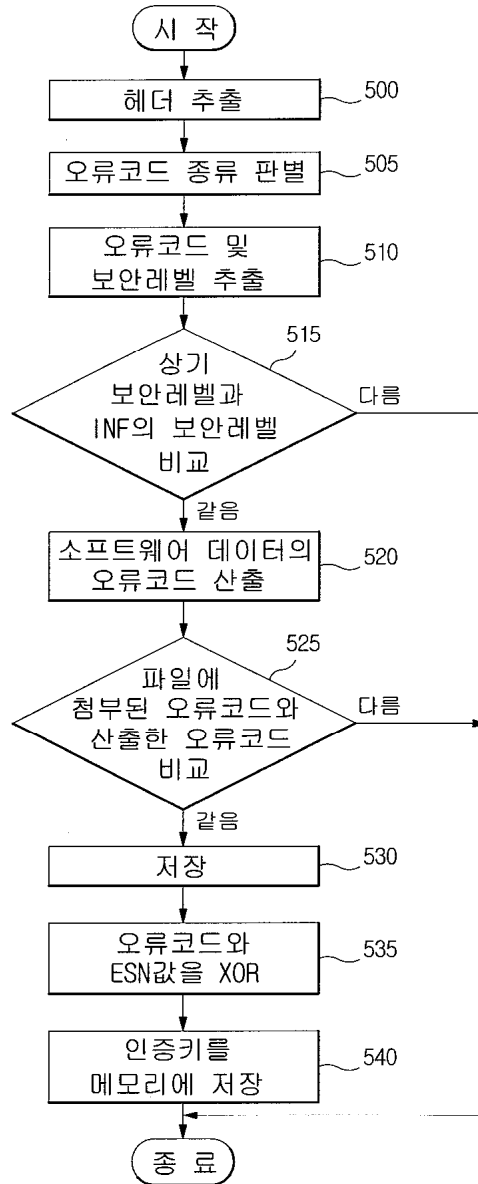
3b

	보안 레벨	S ₇	S ₆	S ₅	S ₄	S ₃	S ₂	S ₁	S ₀
342	0 단계	0	0	0	0	0	0	0	0
344	1 단계	0	0	0	0	0	0	0	1
346	2 단계	0	0	0	0	0	0	1	0
348	3 단계	0	0	0	0	0	0	1	1
350	4 단계	0	0	0	0	0	1	0	0
352	5 단계	0	0	0	0	0	1	0	1
354	6 단계	0	0	0	0	0	1	1	0
356	7 단계	0	0	0	0	0	1	1	1
358	8 단계	0	0	0	0	1	0	0	0

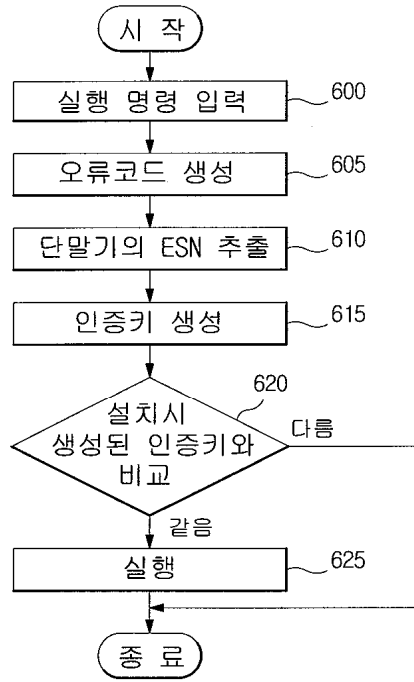
4



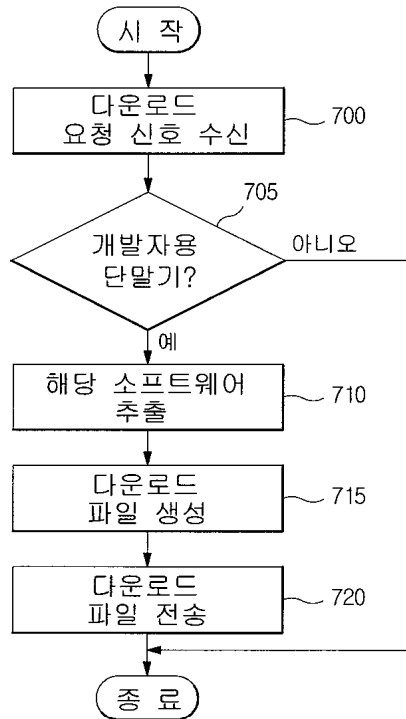
5



6



7a



7b

