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H04L 12/28

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(24)

2002 07 19
10 - 0343868
2002 06 27

(21) 10 - 1999 - 0010458
(22) 1999 03 26

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(43) 1999 10 25

(30) 98 - 078713 1998 03 26 (JP)

(73) ()
5 - 7 - 1

(72) 5 - 7 - 1 ()

(74)

:

(54)

n) (client machine) , (server machine) / (log i
, (remote station) , /
(disconnection) , ,

1 1 .
2 1 .
3 1 .
4 1 1
5 (profile) .
6 .
7 / .
8 (S5) .
9a 9d (S8) .
10 .
11 가 .
12a 12e (S27) .
13a 13b (S10) .
14a 14b (S12) .
15 .
16a 16b .
17a 17b .
18a 18b .
19a 19b .
20a 20b .

, , /
 / , , ,
 , / , / , , ,

1 , (1) (9) (1)
 (4), (6) (10) (9) / .

(4) PDC PHS , (2) (1)
 (3) , (4) (6)
 (5) , (6)

(6) PSTN(Public Swithced Telephone Network) ISDN(Integrated services Digital Network)
 (TA) (7) (10)

(10) , LAN(Local Area Network) (8) (9)

가 , (1) (7) PIAFS
 , (7)

2 1 (1)

2 , (1) (CPU); / ((BIOS:Base Input/Output System) (121) (122) (RAM(13); (131) (132) ROM); CPU(11) (14); (LCD) (15); (1) (16); (18) (132) 232C(RS - 232C) (17); (18)

2e) (132) (1) (132b), (132d) (132) (132a) ; (131) (17) (13) (17) (132b) ; (131) / (132d) ; (18) (132e) .

(18) (132e) 1 (4) 가 , (18) (132e) . 3 1 (9) .

3 , (9) CPU(21) ; (221) (222) ROM(22); CPU(21) , (231) (232) RAM(23); (25); (9) (2) 4); (LCD) (26); (8) (232) IEEE 802.4 (Ethernet) (27) .

(232) (9) (232b), / (232c) (232) (232a) , (27) , (231) (27) 가 (231) / (231) / (232b) , / (231) (232c) .

4 . 가 , (7) (1) (18) (7) (9) , 가 (L2) 가 . , (L4) , - 793(RFC 793) TCP DP(User Datagram Protocol) (L3) / 가 , RFC 768 U

5

22 5 ID

(132b) (9) 5 (232b) 가 (1)

SSN , ID RSN 22 ID Profile

DataLength , UserDataLength , PacketLength

Window Size

6 (1) (9)

(1) SSN + PacketLength

Window Size (9) Window Size

7

가 (1) RAM (S1), / (S4)

(132c) 가 (No) (S3) (S2), (Yes) (S4)

(S3) , (S4) , /

(132d) (132c) (132d)가 (S5) , (S6),

(S8) (S7)

(S7) , (132d) / (132c) 가

(S8) , (132d) / (132c) (132b)

(S9)).

(132b) (9) (232b) ((

S10)). (131) (132b) (9) (131) ((S11)).

(S12)).

(S5) 8

(132d) (17) (18) ((S13)),

(S15) , (S14)

(S14) , (132d) / (132c)

가 (131) (S15) ,

(132d) (17) (18)가 ,

(S16) , (S14)

(S16) , (132d) (132e)가
가 A (14) (S1
7)), (S18)) .

(132e) (18)
(17) (" " "
) (S19)), (132d) (S20)).

가
(132a)
(S18) 9 .

(132d) / (132c) , (14)
(132e) .

9a , (132d) / (132c)
(S15) .

9b , (132d) (132e)
(S21)), (14)가 A (S22)), /
(132c) (S23)).

9c , (14) A , / (132c)
가 (S24)).

9d , (132e) , 가
(132e) - (dial - up) (S25)). (S25) , (132d)
(S27)) .

10 , (132a)
, 10 .

10 (A) , (132d) (132e) -

(132d) - (132e)
11 .

(132e) - (17)
(S28)), (18) 가 (S29)).
(132e)
(S32) , (S33) .

(S32) , (132e) (132d) (S33) ,
(S34) , (S
29) . (S34) , (132d) .

가

/ (S27) 12 (132d) ,
 (132c) (132e) (14) ,

12a (S15) , (132d) / (132c)

12b (S35) , (132d) (132e)
 (S36))

12c (S9) , (132c) (132e) / (132b) (S8)), (132b) (9) (232b) (

12d (S39) , (S38) , (S37), (S39) , (S38) (132c) (1
 4) (S27) , B (S15)

12e (13

2a) (S10) (S9) (9) (232b)

13a (S42)), (S46) (9) (132d) (17) (open) (132b) (9) (S41)), C (14) (9) (S43)). (S

(132b) (S46) , (14) C (S45) ,

(S45) , / (132) /

(S46) (S43) , (9) (132b)

13b (9) ,

(S47)), D (14) (S48)),
(131) (131) (14)가 D
(S49)). (131) (132b)
(9) (231) (S12)).

(132a)

(9) (S12) 14

14a (131) (132b) (S50)).
(132b) RAM(13) A (S12)

14b (14) D A
(9) (negotiated) (S5
2)), (S53) (S54)

(S53) (132b) (cut) (S54)
(S54) SSN (9)
(232b) A (S55)), R
AM(13) B (S56)),
(S57) (9) (S57)),
(S58) (S12)

(S58) (132b)
RSN B (S59) (S12)
(131)

6, 17 15, 1

15 (132e) (S60), (S62)
(132d) (S61)

(S61) (132d) / (132c) (1
32b) (S62) (S39)
(132b) (9) (232b)

16a (1) (9)

16a (132b) (17) (9)
(232b) (S63)), E (14)
(S64)), (9) (S65)).

68) (14) D (132b)
(S66)), (S67) (S

(S67) (132b) / (132c) (132b 2
32b) (132c) (132d) (9) (232b) (S68) /
/ (S6) 5)

16b (9) RSN (9) (232b)
(S69)). (S12)).

17 (9) (1)

17a (132b) (9) (232b) RSN (S71)),
(S70)), E (S72)).
(9)

2b (14) E (13
(S73)), (S74) (S75)

(S74) (132b) / (132c) (132b 2
32b) (132c) (132d) (9) (232b) (S75) /
(132b) (S72)

17b (9) (132b) (9)
가 (S73)).

18

18a (132d) / (132c) (132d)
(S8)).

(132e) (132c)
(S74)). 23 (

(S75)). 가 (9) (S76)

(S76) , (132b) (17) (9)
 , (232b) (S77)), F (14)
 ((S78)), (9) ((S79)).

(132b) (14) F ((S12)).

18b , (9)
 ((S12)).

2 .
 1 , 1, 2, 3

2 ,
 19 .

19a , / (132c) (132b) ((S8)),
 (132d) G ((S100)),

((S101)). , (14) G (132e),
 가 ((S102)),
 (S101) (S103) .

(S103) ,
 24 .

(S104) , (132b) (17) (132b) (9) (232b) (14)
 , ((S106)), ((S105)), H ((S107)).

132b , (14) H , ((S12)). (

19b , (9) ,
 ((S12)).

, 3 .
 1 , 1, 2, 3 .

3 , 20 .

(132e) , (132d) , (18)

20a , / (132cf) (132b) ((S8)),
(132d) I (14) ((S120)),

((S121)). (132e) (14) I ,
가 ((S102)),
(S121) , (S123) .

(S123) , 25 .

(S124) , (132b) (132b) . (9) ,
(132b) (17) J (14)
(232b) ((S125)), (9) ((S127)).
((S126)), (9)

(14) J ,
((S12)).

20b , (9) ,
((S12)).

4 .

1 , 1, 2, 3 .

4 , (18) (132e) , 21
(1) (/). /

21a , / (132c) (132e)
((S140)), 가 A (14)
((S141)), ((S142)).

(132d) / (132e) (17) 가 , (18)
((S143)), (1) (S144)).

21b , (132d) / (132c) , ((S120)),
14) (132e) . (14) / (132c) (132c)
(S24) , (S21) . A ,
((S145)) (S27) (132e) .

- (1) , / 가 (time - out) /
- (2) RAM 가 ,
- (3) , , 가 , (operability) / .
- (4) / , / 가 ,
- (5) , / 가 ,
- (6) , / 가 ,

(57)

1.

n) , (client machine) (server machine) / (log i) / (remote station) (disconnection) , ,

2.

1 , , / ,

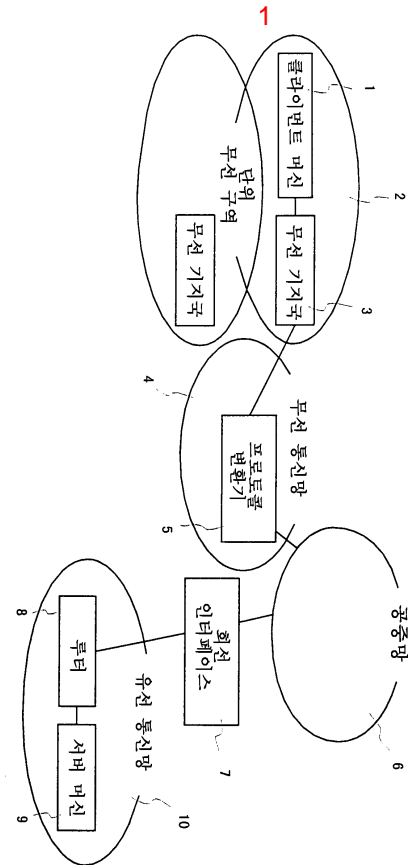
3.

11.

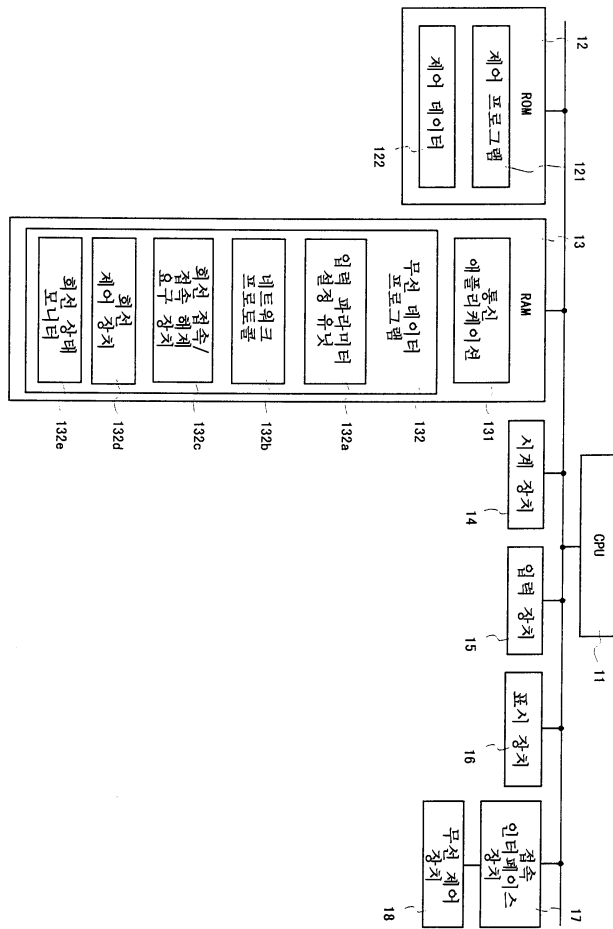
7 , , 가

12.

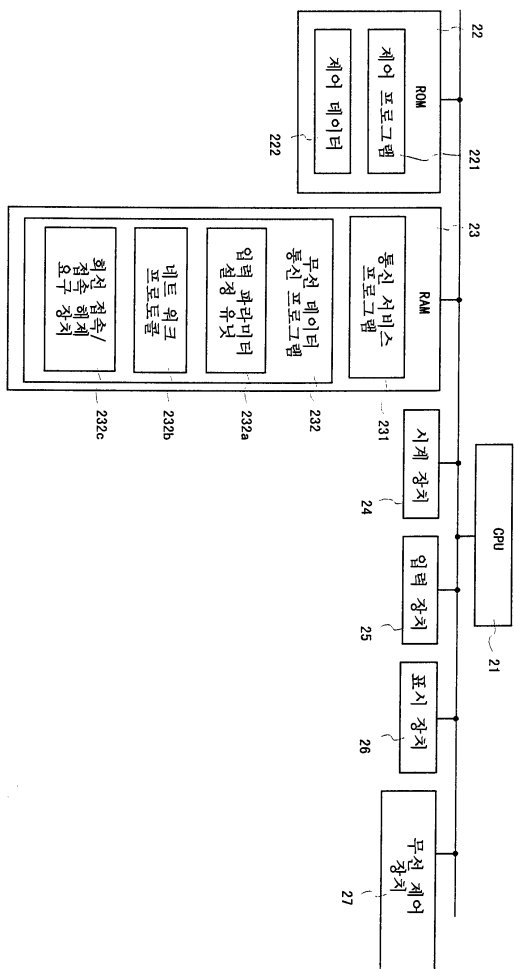
7 , / , /



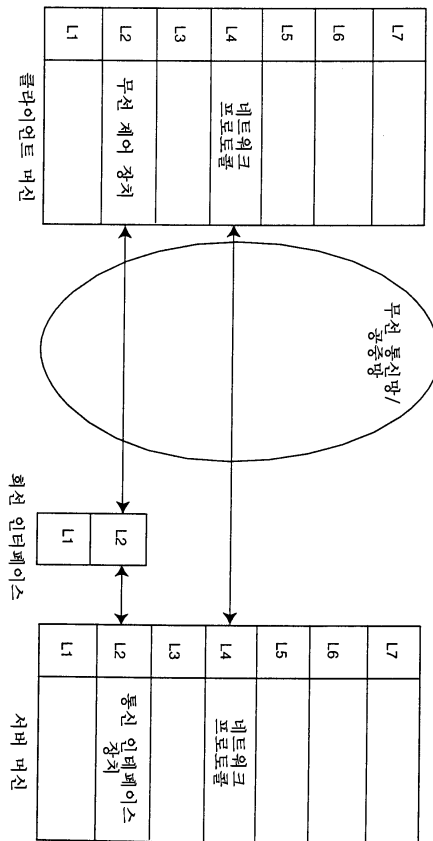
2



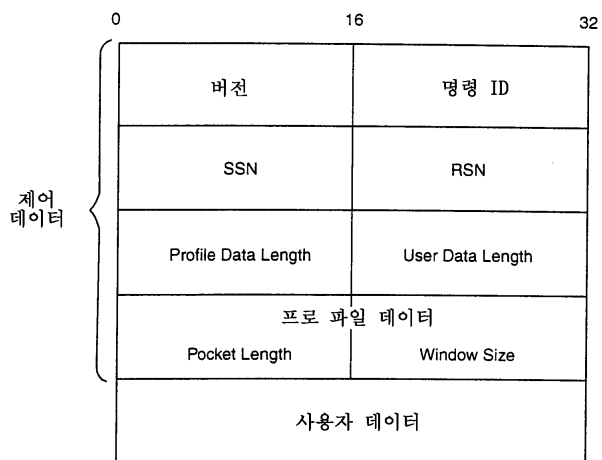
3



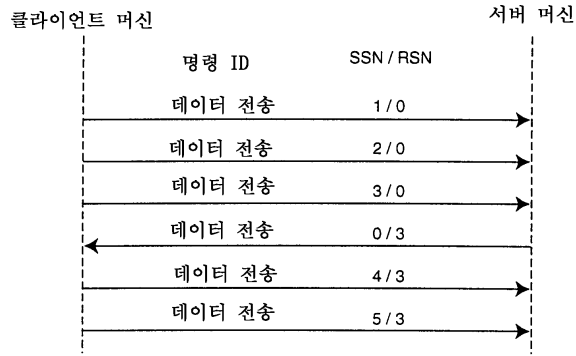
4



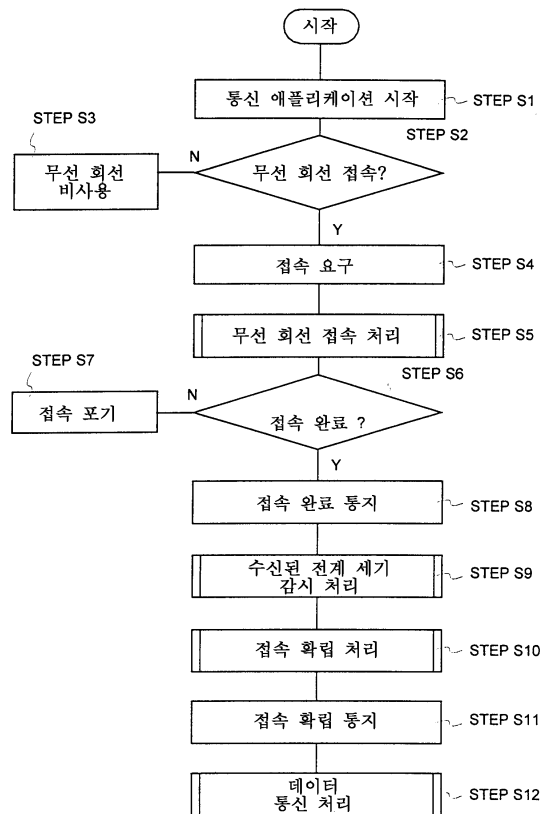
5



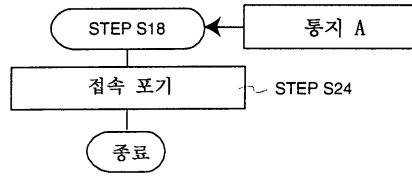
6



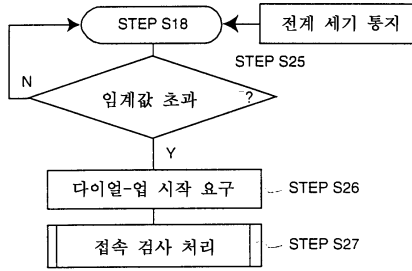
7



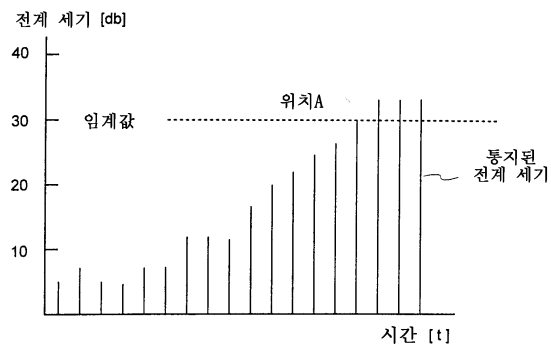
9c



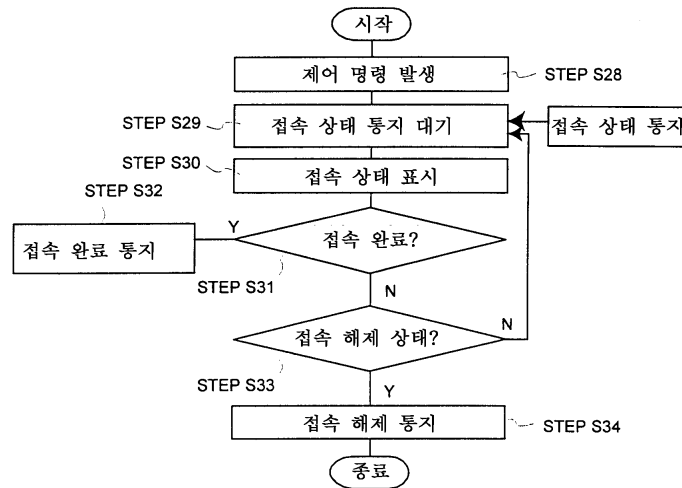
9d



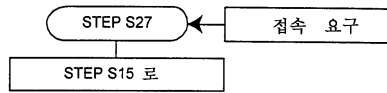
10



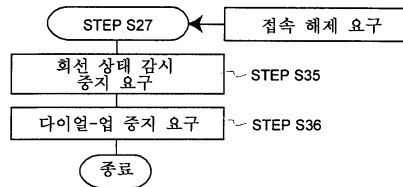
11



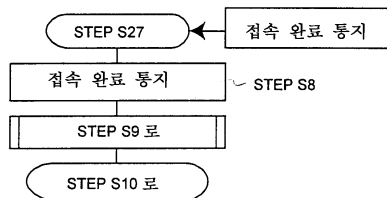
12a



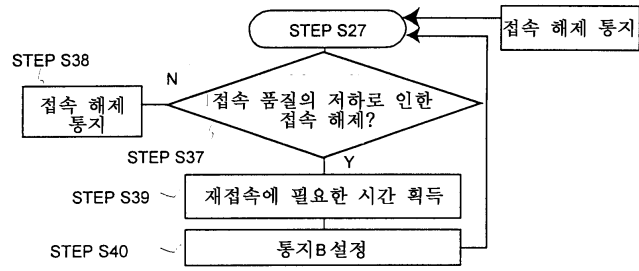
12b



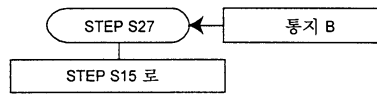
12c



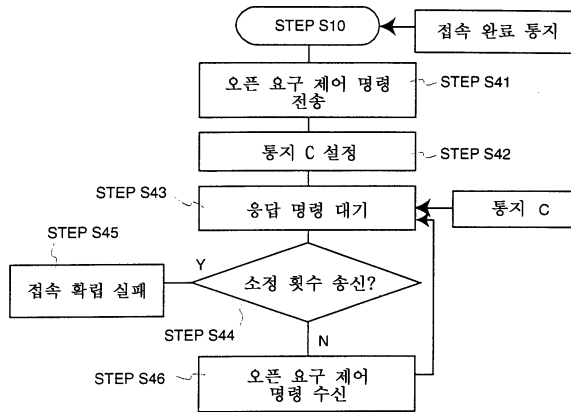
12d



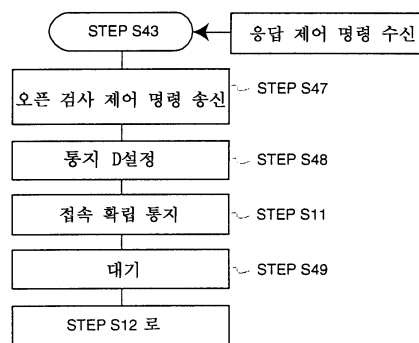
12e



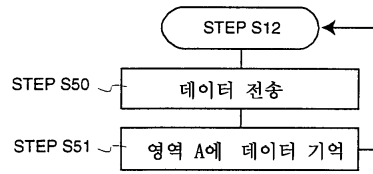
13a



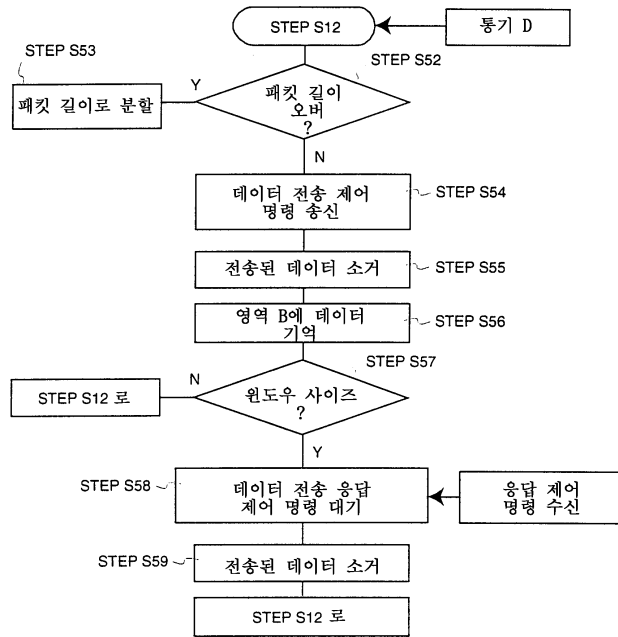
13b



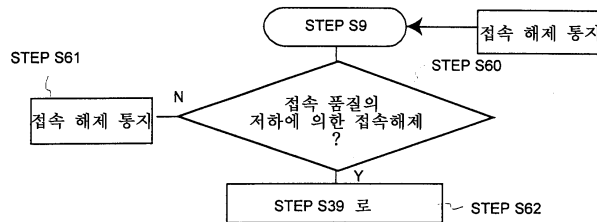
14a



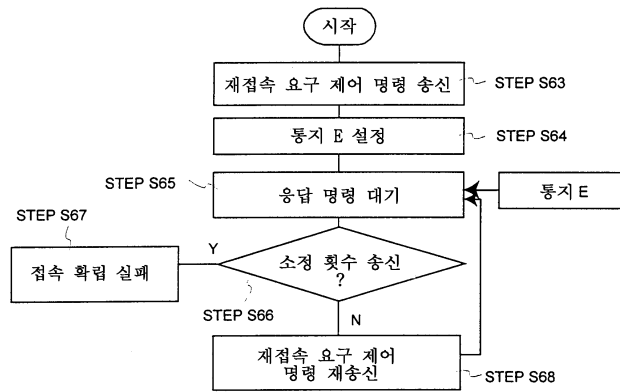
14b



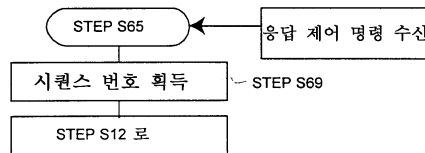
15



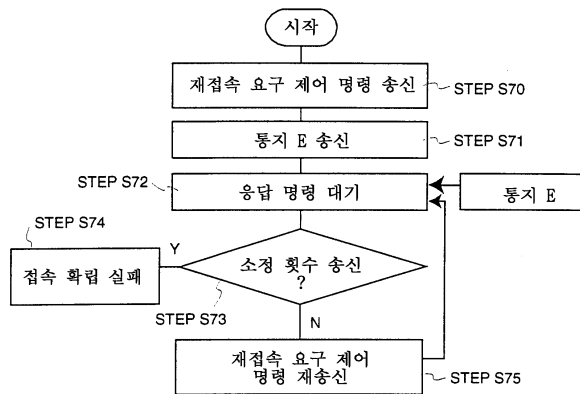
16a



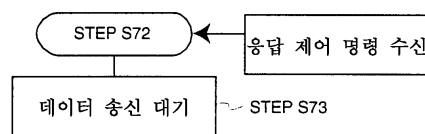
16b



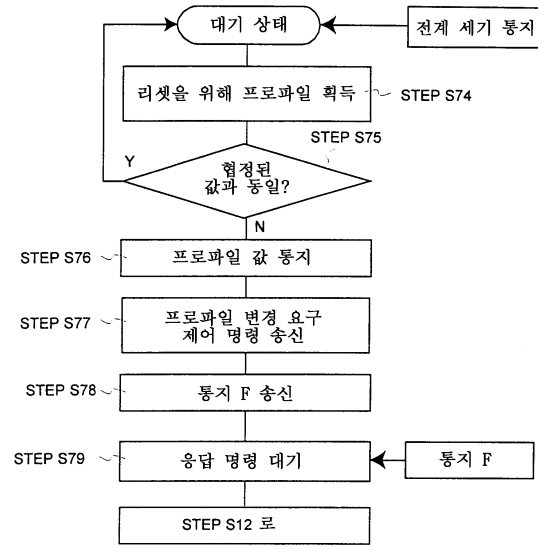
17a



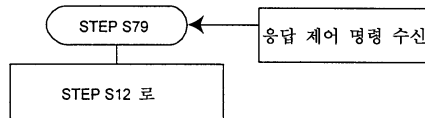
17b



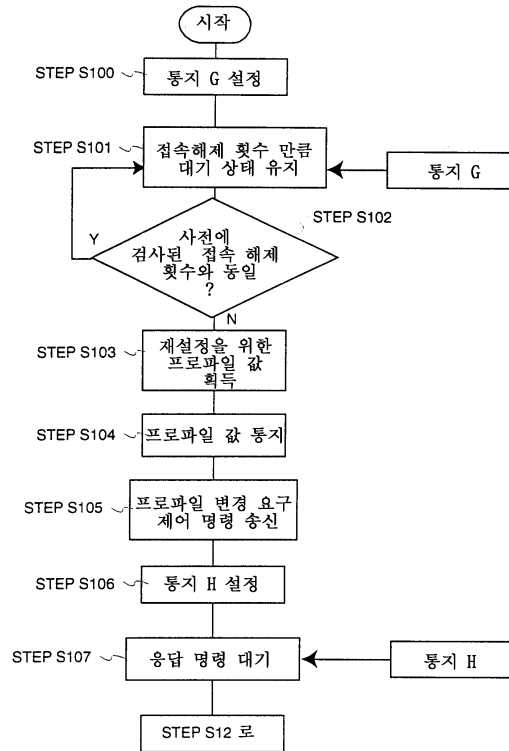
18a



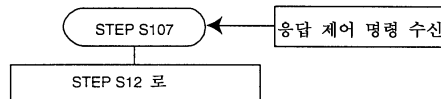
18b



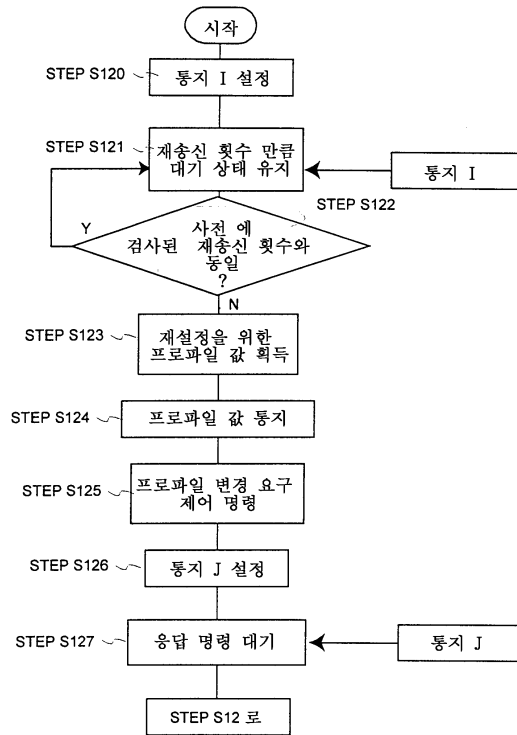
19a



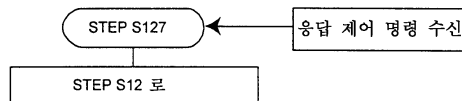
19b



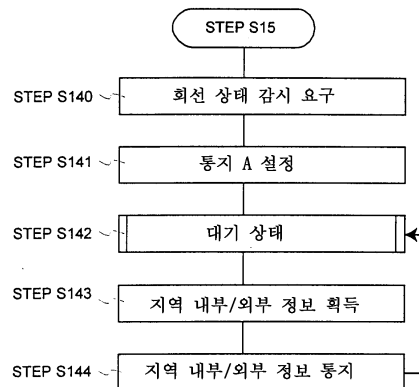
20a



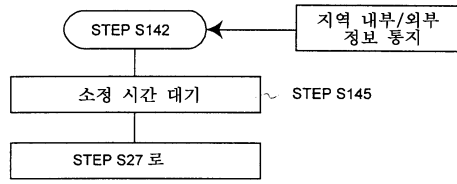
20b



21a



21b



22

제어 명령 이름	명령 ID 값
오픈 요구	0 x 01
오픈 응답	0 x 11
오픈 확인	0 x 21
클로즈 요구	0 x 02
클로즈 응답	0 x 12
데이터 송신	0 x 04
데이터 송신 응답	0 x 14
재접속 요구	0 x 07
재접속 응답	0 x 17
프로파일 변경 요구	0 x 08
프로파일 변경 응답	0 x 18
프로파일 변경 검사	0 x 28

23

수신 전체 세기 (db)	PacketLength (Byte)	Wndsize (Quantity)
40	8192	256
30	4096	128
20	1024	24
10	256	4

24

접속 해제 횟수 (횟수/시간)	PacketLength (Byte)	Wndsize (Quantity)
1	8192	256
2	4096	128
3	1024	24
4	256	4

25

재송신 횟수 (횟수/시간)	PacketLength (Byte)	Wndsize (Quantity)
1	8192	256
5	4096	128
10	1024	24
20	256	4