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(43)

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(21) 10-2003-0097766
(22) 2003 12 26

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(71) 가 가 10 1

(72) 10 1 , 가 가

10 1 , 가 가

10 1 , 가 가

10 1 , 가 가

(74)

:

(54)

가

MM , (MM)
가 , 가 MM
가 MM 가 가 MM
MM (2A)
(2F)

1

2

3

4

[1]

5

6

7

8

(6)

(child process)

(part)

9

()

10

[2]

11

[3]

12

[2 3] HTTP

()

SV ... ()

CL:CL1~CLn;CLs,CLr ...

MF ... (Dc), (Dt) (De) ()

MR ... (MF)

가

E-

1 가

[1]

2001-197553

(template)

2002-82831(, 「 」 .)

(, , , ,)

가 가 3 가

(5; S51); (MF) (De) 가 (De: E1,E2,...) (MF) (SD,LS; S5

1); (MF) URL (De) 가 (CR51

(CLr) (S52); (CLr) URL 가 (CR51

) (CLr)가 (CLr)가 (S53~S55) (De)

(S54 YES) URL (MF) (SV) [2] 가

(SV)[1] (E1) (CLr) (E5,E6) (E5,E6) 가

(CLs) (E5,E6) (E4

,E5,...)가 가 (MF) (5; CR1,CR42,CR52) , (

(E4,E5,...)가 (E4,E5,...)가

(MF) (E4,E5,...) (E5,E6)

(2A,2F; CR4,CR26~CR28,CR43) , (E4,E5,...) (E5,E6)

(CLs) (E5,E6) (MF

) (4; CR5~CR6, CR31~CR33, CR44~CR45) [3]가

[]

(SV) (MF) (De: E1,E2,...)

(De) 가 (MF) (MF) URL

(CLs) (S51), (MF) 가 URL

(CLr)가, (S55), (CLr) 가 (S55),

(S55 YES) URL (MF) (S53~S55). (De)

(E1) (E4,E5)가 .

(E4,E5)가 가 (CLr) (E4,E5) (2A) (MF) (MF)

(E4,E5) (E4,E5,...) (MF) (CR1,CR42,CR52), (MF) (MF')

(2A) (E4,E5) (CR4,CR26~CR28,CR43). (E4,E5) (E4,E5)

(CLs) (MF') (CR5~CR6,CR31~CR33,CR44~CR45).

(MF) (E1) (E2,E3) (E4,E5,...) 가

(MF) (E4,E5,...) (2A) 「 」 (CLs) (E4,E5,...)

(CLs) (E4,E5) (CLr) (MF) (CLs) (MF) (E4, E5,...)

(CLs) (SV) (CLs) 가 가 가 (MF) (MF)

(MF) 「 가」 가 가 (S51). (MF) (MF)

(MF) 「 가」 가 가 (S53~S55), (MF) (CLr) (CLr)

(MF) 가 (CLr) (E4,E5) (MF) (E4,E5,...) (CR1,CR42,CR52) (2A) (CR

4,CR26~CR28,CR43). (MF') (E4,E5)

(E4,E5,...)가

가

[]

1 () () 1(1) (SV)(1

(CL1,CL2,...,CLn) (SV,CL1~CLn) (MR) (CN) 가

(SV), (CL1~CLn) (CN) LAN , PDA,

(CN) 가 (SV) (CL1~CLn)가 (CL1~CLn)가 PDA 가

(CL1~CLn)가 (BS)

(2), (3), (4), (5) (2) (CPU)(1),

(ROM) (RAM) ,

(2) A)가 , CPU(1) RAM ROM (2F) (2

(3) , (doublet) (4) CRT · LCD
 가 , ()
 가 ,

(5) (CN) (SV) ,
 LAN (SV) (SV) (2)
 (5) (BS) (BS) (CN)
 (SV) 1(2) 가 (CL)
) (CD,DVD,MO) (가 ,

[]

, MM (SV)) MF가 (CL)(CL1~CLn) (CL)
 (CLs) (MF) (CLs)(1 s n)
 (CLr)(1 r n, r s) (SV) (MF)
 (CLs) (MF) (CL)

2 (CLs) (SV) (MF) 2 (De)(
) (Dc)(MF) (Dt)(BGM))

(De) , 2 (E1) 가 (E2)
 (MF) (E3) (E1) MID
 (E2) (CLs) (E3) (

(De) 가 (CLs)
 (E4), (E5), E-mail (E6), ()
 (CLs,CLr))가 (E4,E5,...) (E5) (E6)

(Dc) , 2 (MF) (E1,E2,...)
 (De) 가 가 (Ts), (Dt) (Ts) (D
 (E4,E5,...) 가 가 가 가 (Ep), (De)
 (Cd) (MF)

가 (CLr) (MF) (Cd) (MF)
 , 2 (Dt) (Ts)

(De)(E1,E2,...)
 (De) () (De)
 (De) (3) (Dt) (MF) [,]
 (MF)
 (Ts) (Dt) (Dt) (De)
 SV) (MF) (CLs) (CLr) (CLs) (CLr)
 (CLr) (MF) (CLs)
 3 E-mail (CLs) (CLr) (MR) , (Pt1) ,
 , 3 (MM) (MF) 2 () (Pt2) 가 [3 1 가 2
 (Pt2)] (MF)] [(Pt1,Pt2,...) 가 2
 (CLr) (2) 3 (2A) (MF)
 (CLr) (2F) (CLs) (MR) 2 (MF) (MF)
 (2F) (2F) (Cd) (E5,E6) (MF) (E4,E5,...)
 2F) (MF) (MF) (MF')
 (2F) (MF') (MF')
 (E4,E5,E6,...)[(MF) (E5,E6) (Dc) (Cd) (De) (Cd) (2F)
 () (MF) () (MF) ()
 (MF) 가 (MF) 가 가 (CLr)
 (CLs) (MF) / (MF)
 (MF) 3 [1]~[3] , 1 [1] 1
 [1] (CLs) (CLr) (MF) (1) (MF) (MR)
 [2] (MF) () (CLs) (SV) (2 3 (SV))
 [3] (CLr) (CLs) (MF) (SV) (SV)

[1 = 1]

4 1 [1] (CLs) (CL
 r) [1] (MF) (CLs) 1 (MF
) (CS1). (MF) (MR) (CLr)
 (CS2).
 (CLr) (CLs) (MR) (MF) (CR2).
 CR1), 3 (MF) (MR) (E4,E5,E6,...) (MF) CR3).
 (MF) (MF) (MF) (CR4). (E5,E6)
 (CLr) (2F) (2A) (MF)
 (MF)
 (CLs) (CLr) (發呼) (CS3)
 (CLs) (CLs) (MF) (CR5),
 (3) (MF) (2F) RAM
 (CR6
).

[]

5 4 1 (CS1) (MF)
 MM) 가 . MMT 6 가 (MF)
 (MF) 가 (De) (Ts) 가 (Ep)가
 () , MMT (Cd) (E4,E5,...) 가
 (E4,E5))가
 (CLs) MMT , MMT (SV) (MF)
 (2) (2)
 (Ep) 가 MMT RAM(2) (M1), MMT 가
 (M2). , MMT (3) (24) (4) 가 (M3 YES
) MMT (M4).
 (M3 M4) , 가 (Ep) 가 :
 (1) 가 : (Dt) (Dt)
 (Ts)가 (De)
 (2) , MMT (Ts) (De) : (1)
 (CLs) 가),
 (3) : () (E3,E4,...) (Ts)
 (Dt) ()
 (4) : (Cd) () (E4,E5,...)
 (5) : (3) (De)()
 (De) (De)

,(2) (scroll) (MF)

가 (MF) 1

(E2) (E1) BGM

(5) (De)

(CLs) (De) (A,B) (a,b) (CLs) E-mail

(B) (b) (A) (a) (A,a:B,b)

(CLs) (CLs) BGM

(CLr) (MF1,MF2) (MF1,MF2) (CLs) 가 (MF1,MF2) (MF1,MF2) (CLr) (MF1,MF2) (2F)

[(CLs) (MF1), (MF2)]

(CLr) (CLs) 가 (MF) (CLr) (MF)

(2F) (MF) (3)

, MMT (M4) (M3 NO) (4)

(M5). 가 (M6)

가 (M6) (M5 NO) (M7 NO) (M2) (Ep)가

가 (M2~M7) (M7), 가 (M7) (M4) 가 (M4) 가 (M7 YES) (M4) MMT (2) (MM

) (MF) (M9) [(CLr) (MF) (M10).]

(M4) (3) 가 (M7 YES), 가 (E5~E6) 가 (MMT (

M8) (Cd) 가

(M9) (MF) (CLr) 가 (MF) (2)

[(E5,E6)] (E4,E5,...) (Cd) 가

[]

6~ 8 5 (CLs) (CLr) (CR1~CR4,CR5~CR6) , 6 (CLr) (CLr)

가 (4) (CLr) (2)

(4) 가 (MR) (CR11).
 (mail browse application)() (MR) (4) (CR12),
 (CR13).

(MF) (MR) (3
 (CR11) (CR13), 1 (Pt1)[.]
 (Pt2) 가 (CR13).
 (CR13) , 8 가

8 6 () 가 가
) (CR21), 가 (CR21 YES) 가 (2 (Pt2)
 (Pt1,Pt2,...)
 1 가 2 가 (4)
 (CR21 YES) 가

가 (Pt2)가 (CR22). (Dc) (Cd)가 가
 (MF) (MF) (CR22 YES) 가
 (CR23).

(Cd)가 가 (MF) (CR23 YES) (MF) (Cd)가 가
 가 (MF) (CR24).
 가 (MF) (CR25). (CR23)
 (MF) (4) (MF)

De) 가 가 (CR25 YES) (MF) (MF)
] (2F) (CR26) (E5), (E6)] [(E4), (E
 (2A) (CR27). [(E4),

3 (Cd) (R26) (MF)
 (E4,E5,...)(
 (MF')

(CLs) (MF) (C
 R28). [(E5) (E
 6)] (CLs) (MF)

(CR28)

(MF) (MF)
 가 (CR21~CR22 YES), (MF)
 (CR23 YES) (MF) 가 (E5,E6)
 4,E5,...] (2A) 가 (CR27), [(E
 (MF) (CR28). (E5,E6) (CLs)
 (CR24~CR28) (Cd)가 가 YES

(MF) HTTP(HyperText Transfer Protocol) (CR24)

(10: CR42, 11: CR52) , 8 'A' , (CLs)

(MF) 가 (MF) (2 (CLs)

(MF) (CR26~CR28)) (CLs) 8 (CR28)

(MF) (4) ,

(CR21) (CR21 NO) (CR25) ' (5: CR13)

(CR25 NO) (MF) (CR22 NO)

(CR23) (CR23 NO) 가

(4) (CR29), 가 (5: CR13)

7 (CLs) (CLr) ' ' (CLs)

(CR31), (CLs) (CLs)

(MF) (2F) (CR23).

(CLs) (MF) (CR32 YES) (MF)

(4) (CR33). 9 (MF) (

(MF) (CR32 NO) (

CLr) (CR34). (CR33,CR34) ,

가 (CR35).

(CLr) (MF) (CLs)

(CLs) (CLr) (7)

(MF) (CR32 YES), 9

(4)

(CLs) (CLr) () (M)

F) BGM(E1), (E3) E-mail (E2)

(4) (MF) (CLs)

(MF) (BGM)

1 (MF) ,

(CLs) ()

BGM (CLs) [(E5) (E6)

] (CLs)

9 (MF)() (CLr)

[GM1' (E5) 'BGM2') (E6)] (E4) (4) (E3), (E1: 'B

(E2) 가

[2 = 2 3]

(MF) 가 , 가
가 (MF) 가 (MF) 가
(SV) (CLs) 가 (MF) (MF) (2)
(MF) (MF) (3) (CLr)

(MF) 「 가 」 가 가 가
(MF) 가 (MF) 가
3).

10 11 2 [2] (CLs) (SV)
(MF) [2 3]

6) 10 2 2 (MF) (MF) (De) (E5,E)
(CLs) (MF) (E1) (E2) (S)
HTTP (SV) (CS41). (CLs) 가
(MF) (MMT)

(SV) (CLs) 5
(MF) 가 2 가 (MF) (S41). 가
(SV) URL(Uniform Resource Locator) (MF) (DB)(SD)
(CLr) (MF) 「 가 」 가 가 (MF) (MF)
(MF) URL (MF)

(SV) (CLs) (MF)
(CLs) HTTP (SV) (S42). (De) HTTP
(CLs) FAX (CLr) (CLs)

(CLr) (SV) HTTP (S43) (SD)
(MF) (CR41). (SV) HTTP (CLr) (S)
44). (MF)

(CLr) 'A' (MF) 1 [3, 4: CR3~CR4, 6
(MF) 가 (MF) (CR42)
(MF) (CR43).

1 (4: CS3, CR5~CR6; 7: CR31~CR33) 가 (CLs)
(CLr) (,) (CS3) (CLs)
(CLs) (MF) (2F) RAM (CR5), ()
(CR6). (3)

11 3 2 가 (MF) (SV)
(SV)

3 (CLs) 11 3 (MF) (E5,E6), (E2),
 (E1) (De) 가 (MF) (SV) 1
 (CLr) (CS51). , URL 가 1
 (MF) (MMT) (CLr) , IPv6 (Internet Pro
 tocol version 6) (MF) .
 (SV) (CLs) (De) 가
 (5) (MF) (MF) , 가 1
 (SD) (CLr) (S51). , URL 가
 (LS) (MF) (MF)
 , (SV) (MF) (CLr) (CLr) (CLr) (MF) URL
 (S52). , (CLs) 1 (CLs) (CLr) (CLr) (MF) URL
 MF) , URL [(S55,CR52) .].
 (CLr) HTTP (SV) (SV) (S53) (CLr)
 (MF) (CR41). (SV) (MF) 가 가 (CLr)
 (LS) (MF) (CLr) 가 가
 (S54).
 , (CLr) 가 (S5
 4 YES) (CLr) (SD) 가 (MF) , HTTP
 (S54 NO) (CLr) (S54). 가 가
 (CLr) (SV) (MF) 1 2 가
 (MF) (CR52), (MF) (MF) 1 2
 가 (CLs))(MF) 1 2
 12 2 3 (MF) , (CLs) HTTP
 (SV) (10: CS41, 11:CR41)
 (1) (CLs) (E4), (E5), e-mail(E6)
 (CLr) 가 가
 (SV) (CLr)
 (2) (MF) 가 가
 (SV)가 , 가
 (3) (SV) (MF) (MF)
 (11: CR41)
 (3a~5) 3 가 (11: CR41)
 (3) (3b) , (3b)
 (4) , (5)

(MF) (MMT) .

PDA , 2 [2] (CL) , PC, , , (SV)

[3]

3 [3] (MF) (CLs) , , (SV) (CLr) [3]

10 11 (MF) (S41,S51)가 (CLs) (SD) (SV)

(MF) 2 3 (2 [2]) (CLr) (MF)

(MF) (CLr) (CLs)

(MF) , E-mail URL (vCard)

(MF) 가

가 , 가 가 「 」

/

(MF) 「 가」 가

가

가

가

- (57)
1. ;
가 ;
URL ;
URL 가 URL

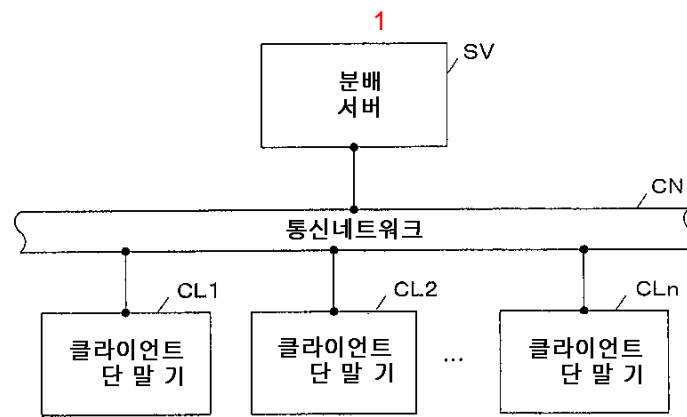
2.

1 . ,

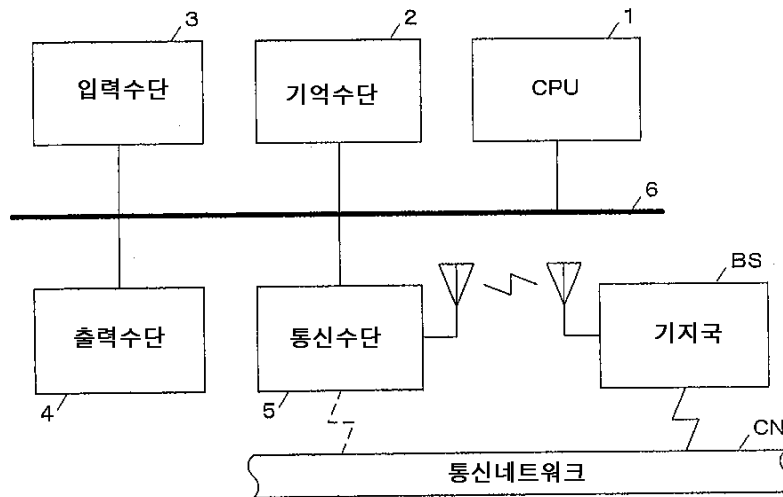
3.

가 가

가



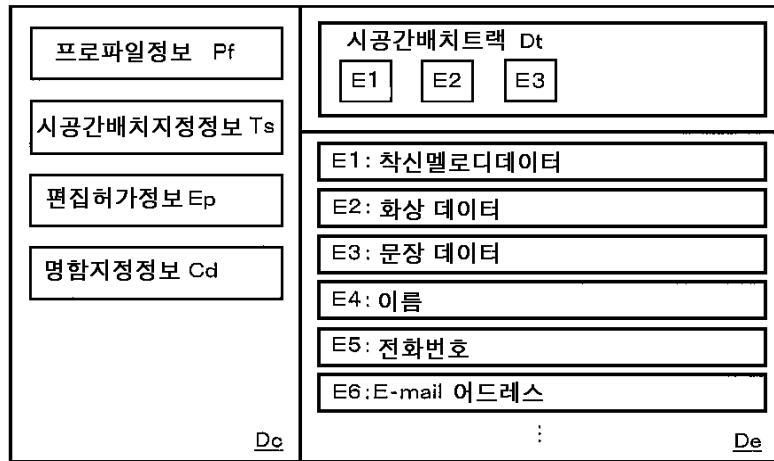
(1) 전체도



(2) 클라이언트단말기의 구성예

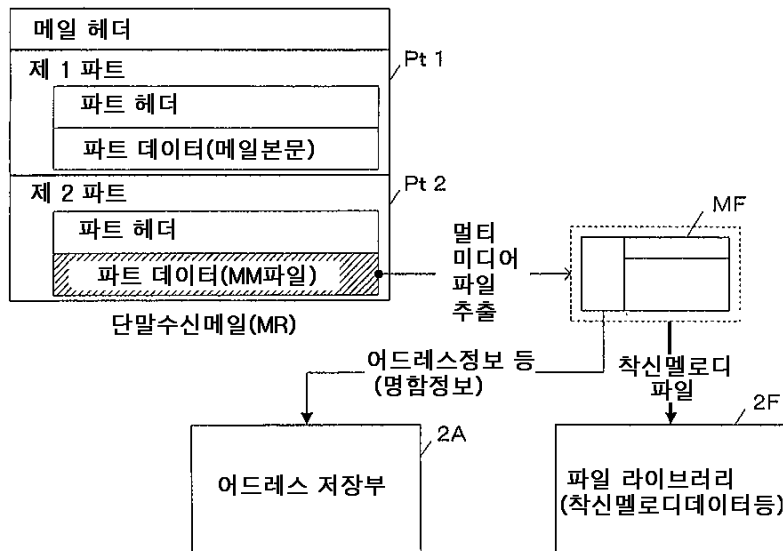
시스템의 개요

2



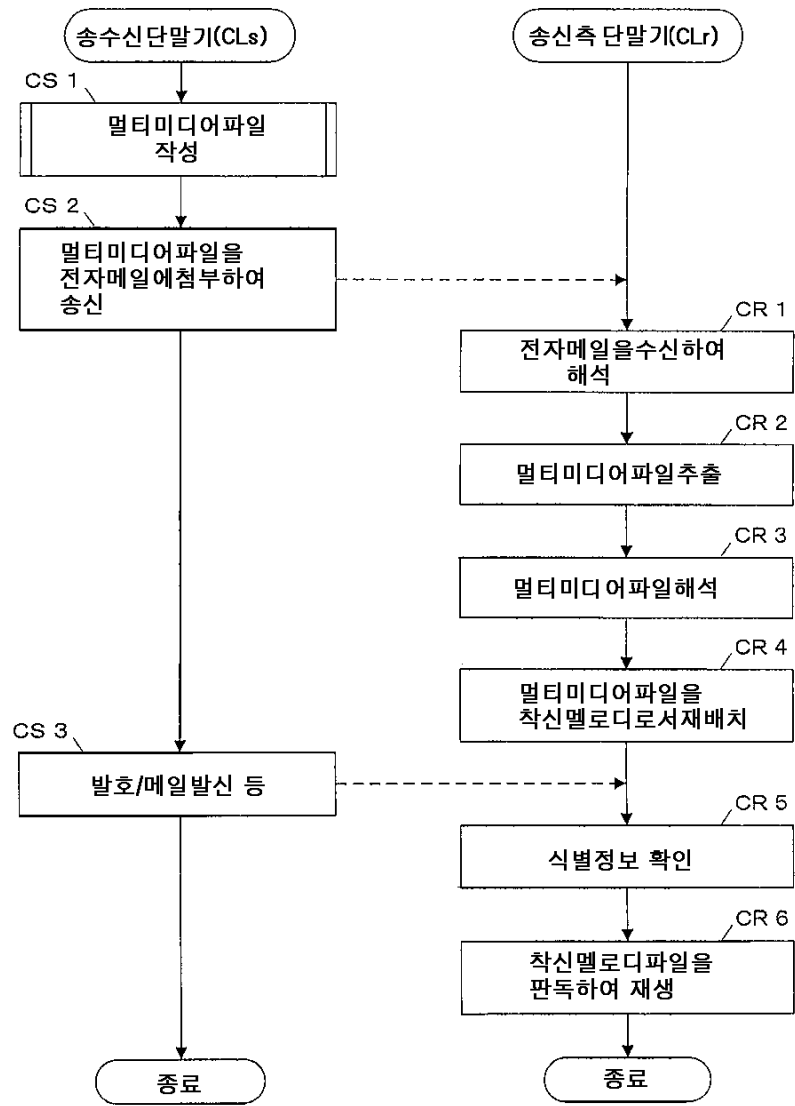
멀티미디어파일(착신멜로디파일)(MF)의 데이터 구조예

3



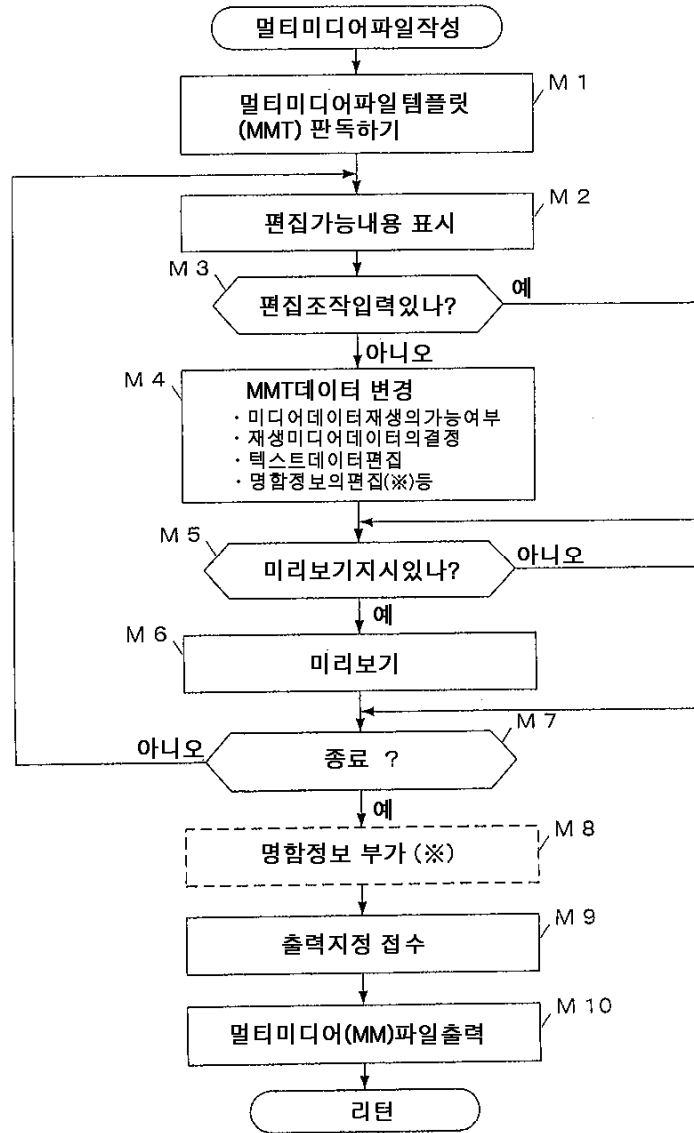
멀티미디어파일 및 정보의추출

4



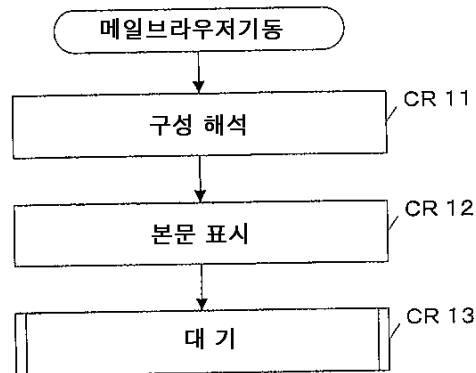
전체처리1[제1실시형태]

5



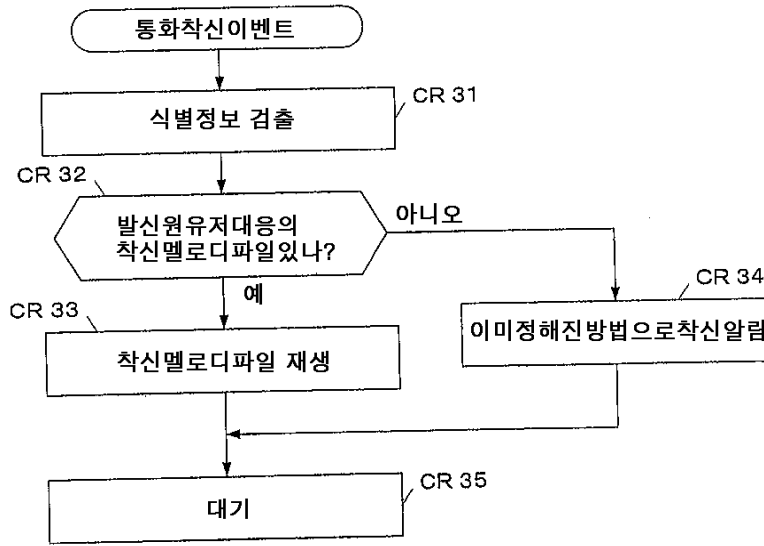
멀티미디어파일작성처리흐름

6



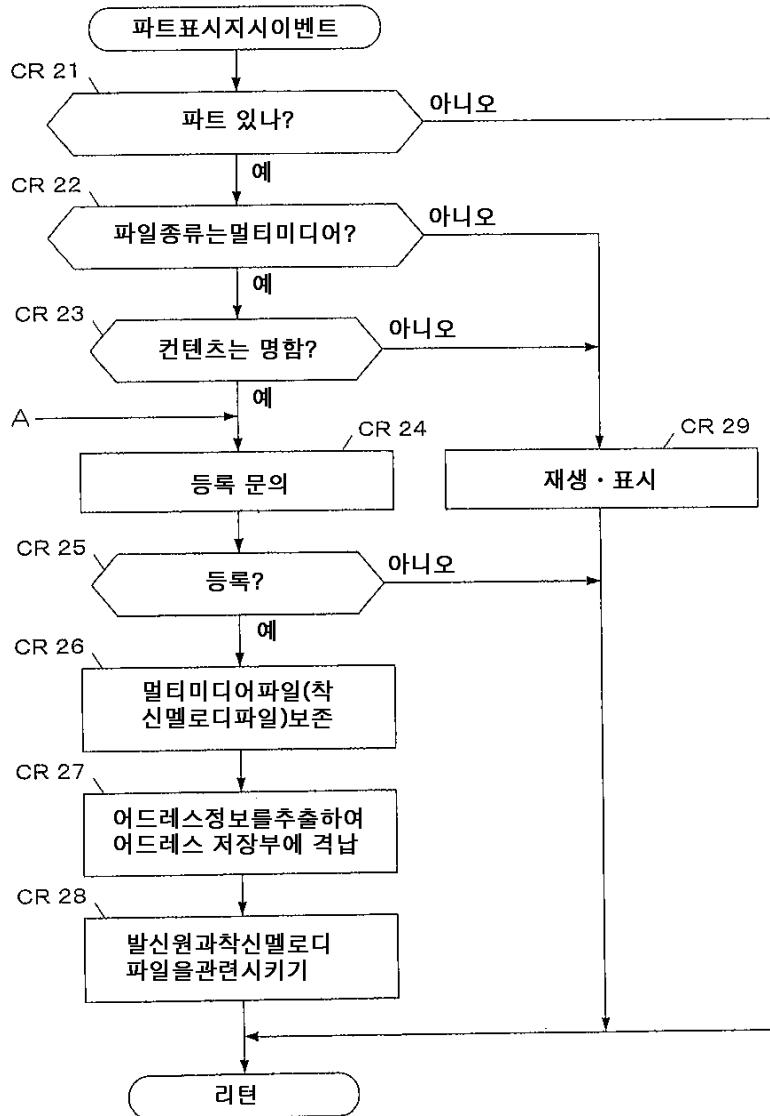
수신측(Clr)의 처리흐름[1]

7



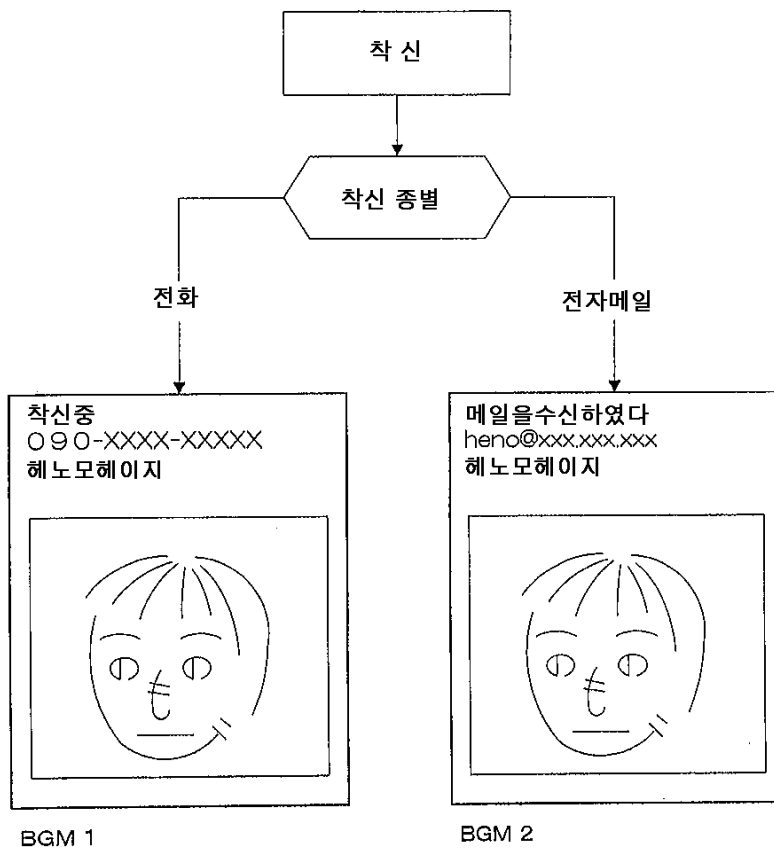
수신측(CLR)의 처리 흐름 [2]

8



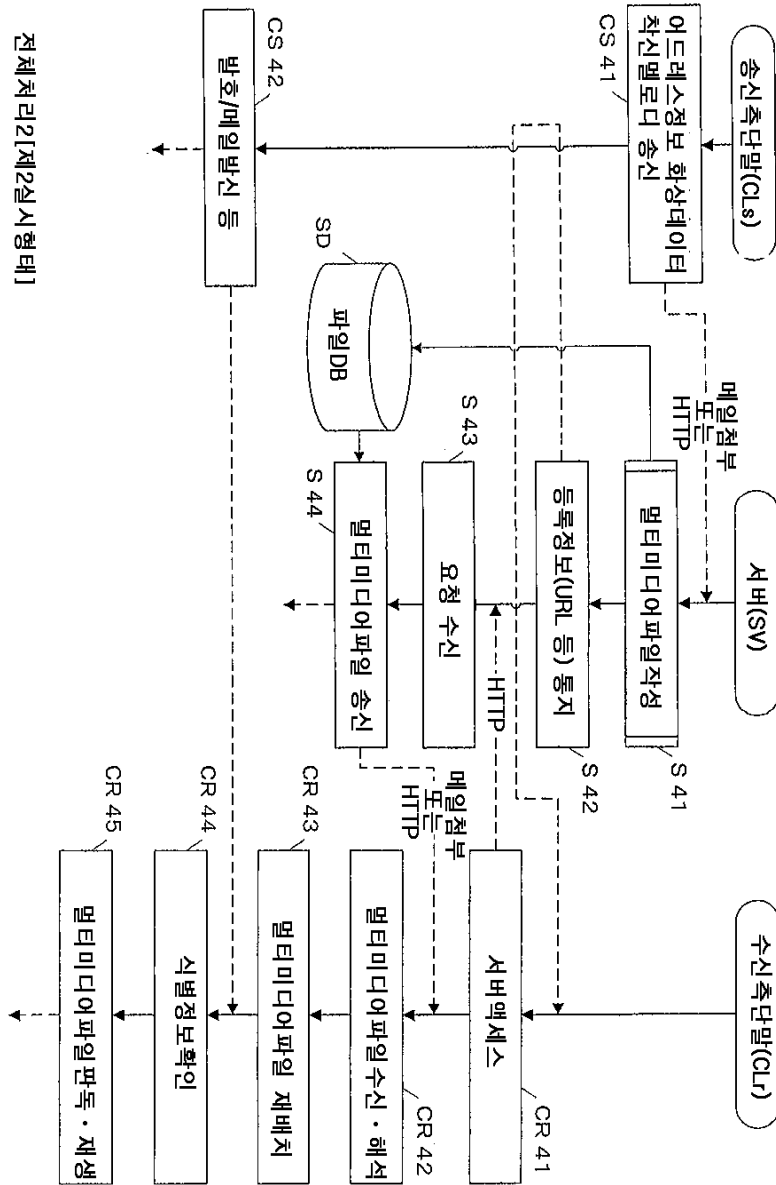
메일브라우저의 서버 처리 흐름

9

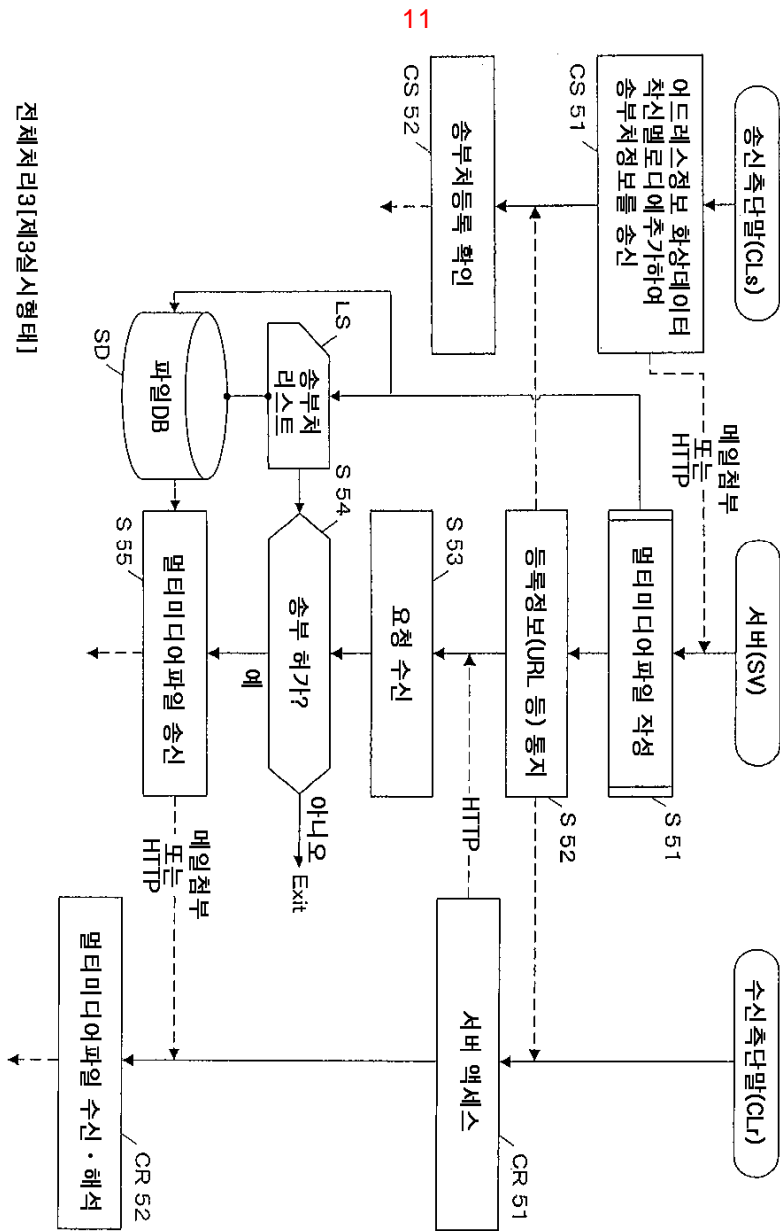


출력컨텐츠의예(멀티미디어컨텐츠)

10



전체처리[제2실시형태]



12

