

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

(51) 。 Int. Cl.⁷
G06F 13/14

(11)
(43)

10-2004-0071745
2004 08 12

(21) 10-2004-7009754

(22) 2004 06 19

2004 06 19

(86) PCT/IB2002/005525

(87)

WO 2003/054712

(86) 2002 12 19

(87)

2003 07 03

(30) 10/032,116 2001 12 21 (US)

(71) -02150 4

(72) 33580 4 12

33100 7

33950 1 12

(74)

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(54)

(104)

가

(114)

(101)

(114)

가

(108)

, DVB-T(digital video broadcasting-terrestrial;

)

DVB-T

가

(local area network; LAN)

가

가

(policy)

가

가

(web hit)

가

가

가

가

가

가

가

가

가

가

1

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가

가

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DVB-T

1

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PC,
(118)

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1

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가

가

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(116)

(118)

(116)

1

(104)

LAN

(110)

가

(general policy)

()

(가

)

100

가 20

100

가 3

101-500

가 1MB

1000

<http://www.statistics.com/webtop/O00.isam>

가

2

가 , (110) (108) (108) (112)
 . , (106) , (114)
 가 (114)
 (116) . (116)
 , (118) (116)
 , , (118)
 . , , (, 가
)
 . , 'claudia*.gif 'claudia*.jpg
 (118) (118)
 , (118)
 (Advanced Television Enhancement Forum; ATVEF) uHTTP(unidirectional HTTP; HT
 TP) (118) MS
 (120) (124) (118)
 (120) (120) (104)
 2 1 (110) (102) (204)가 (web hit)
 (200) (202) (interaction) , 2 . 2
 (204) , 가 (Virtual Private
 Network; VPN) (Public Switc
 hed Telephone Network; PSTN) (Internet Protocol; IP)
 (General Packet Radio Service ; GPRS) IP , (Universal Mobile T
 telecommunications System) IP , LAN(wireless LAN; WLAN)
 , 가 가 (104) 가
 가 , (202) (114) (110)
 , (108) , (106) , (116)
 (114) (112) , (116)
 18) , (116) (118) (1
 .
 2 , (202) 가 .
 .가
 (, , IP)
 , (, IP)
 , (dial-up) IP
 (Point-to-Point Protocol; PPP)
 (route)'
 (local proxy)' 가
 (File Transfer Protocol; FTP) (HyperText Trans
 port Protocol; HTTP)).

(snooper)' HTTP/ 가
HCP)/IP (Transmission Control Protocol;
() 2 (Layer 2 Tunneling Protocol; L2TP)

(router) (Simple Network Management Protocol; SNMP)

(, VPN HTTP)

2 (114) (202)

(110) 가 (114)

(sponsored page)' 가 (DVB-T) I

P 2

가

, www.nokia.com/index.html () 가 (,)

% 가 (, 가 가 가 가 10

가 가 50% 가

3 2 (300) (302)가 (202), (110),

(108) 3가 (104) 가 가

(302) (114) (112) (114) (11

6) (116) (116) (118)

(118)

(302) (, HTTP/TCP) (302)

(302)

URL(Uniform Resource Locator;)

(12) 가

4 (402) (402)가 4 3 (116) 4

(118) (118) (104) (118) 가

(402) (120) (124) (402) (402)

(116) (Application Programming Interface; API) (nice)' API

(402) 가 (116)

(116)가 , API 가 (, (Squid)가 (402)
 (WebCrawler가) (116)
 (, - (Remote Method Invocation; RMI), (Open Net
 work Computing; ONC) - (Remote Procedure Call; RPC), (Simple Objec
 t Access Protocol; SOAP), (Common Object Request Broker Architecture; CORBA),
 (Distributed Component Object Model; DCOM), TCP)

(402)
 가 , (402)
 (, 가 , www.demogames.com , (402)
 (가) (118)
 가 (, 가)
 (data will expire)' (time stamp)
 (402) (, FTP HTTP)가
 (mirroring)

5) (, 가
 , (506,508) (502,504) 가 가
 (204) (506,508) 가
 (114) (502,504) (204)
) 가 (

C# , , / , , , -C, ,

system; OS) , OS X, G4 XP, (operating s
 (Dell Dimension) CE E
 POC (Personal Digital Assistant; PDA) , , DVB-
 T

C , OS X, , CE, XP, EPO
 , PC, , PDA,
 가 , , , , ,

6 (600) 2 (651,652) , (RAM; 653),
 (ROM; 655), / (I/O) (657,658), (659), (66
 (661) 가 (650) (659)
 3) . I/O (657,658) , IEEE 1394, IEEE 802.11, (66
 652) IBM PC (663) , (651,
 (600) , LCD (601), (602) (603)
 (602) / (603)가 (600)
 , DVD ,
 , (600)

-C, C, C#, C++

, StrongARM, DVB-T

, GSM, PCS,

CE

EPOC

가

(57)

1.

가

가

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2.

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, VPN, LAN

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7 **8.** , 100 .

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6 **11.** , 가

6 **12.** ,
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11 **13.** ,
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14 **15.** ,
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14 **16.** , 가

14 **17.** ,
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a)

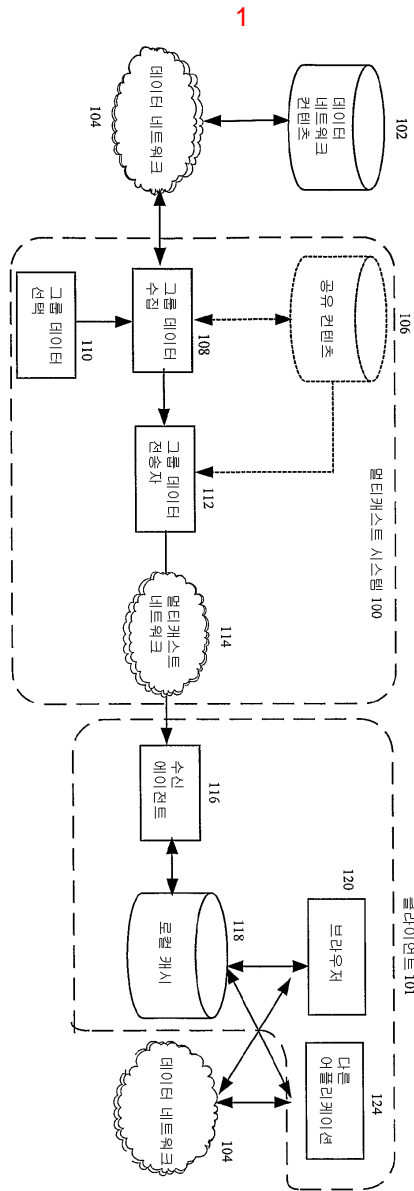
;

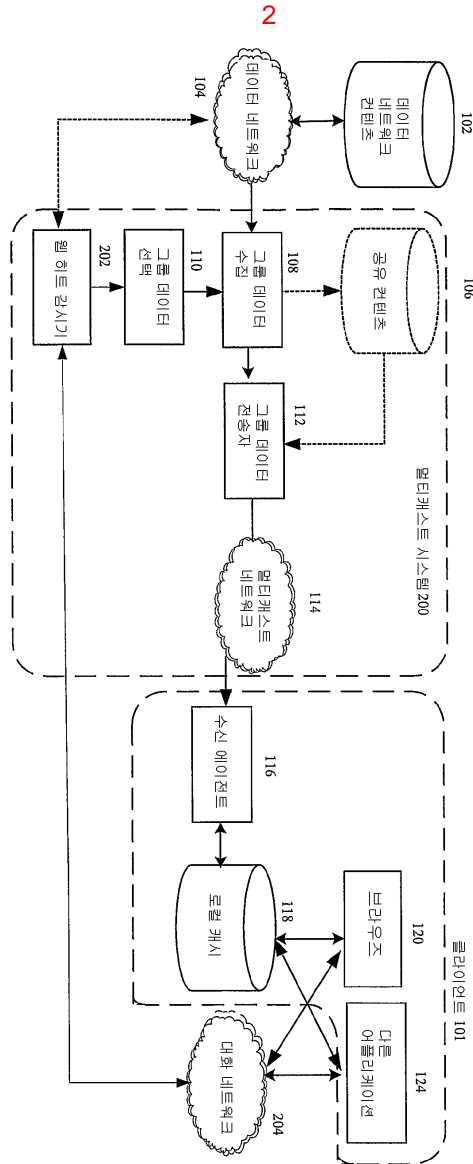
b)

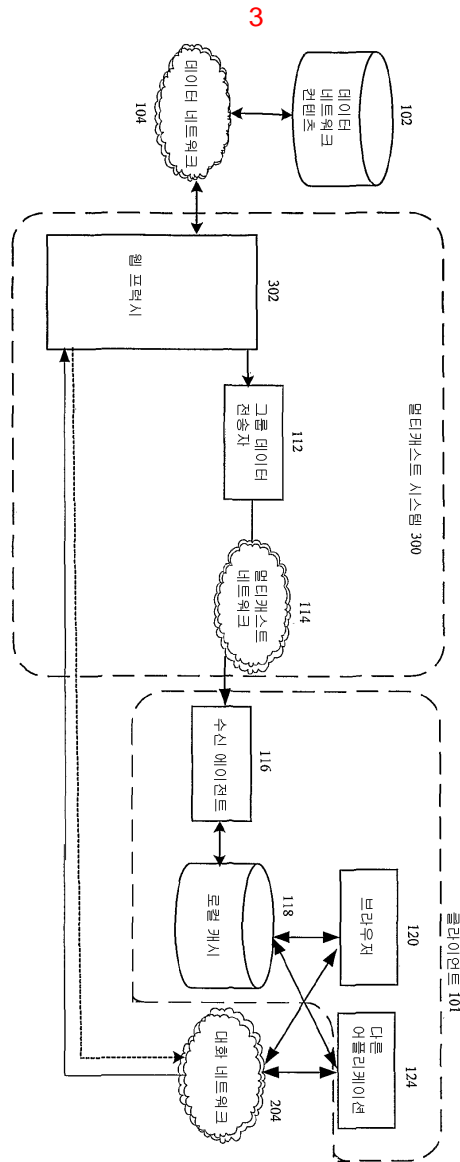
가

;

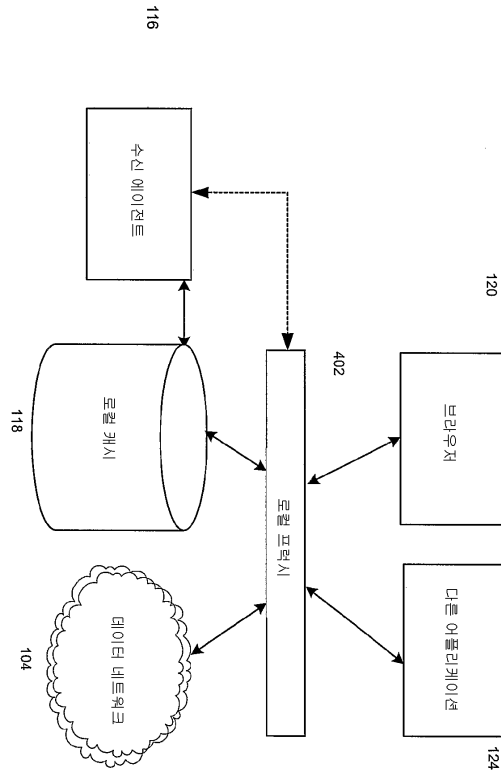
c)



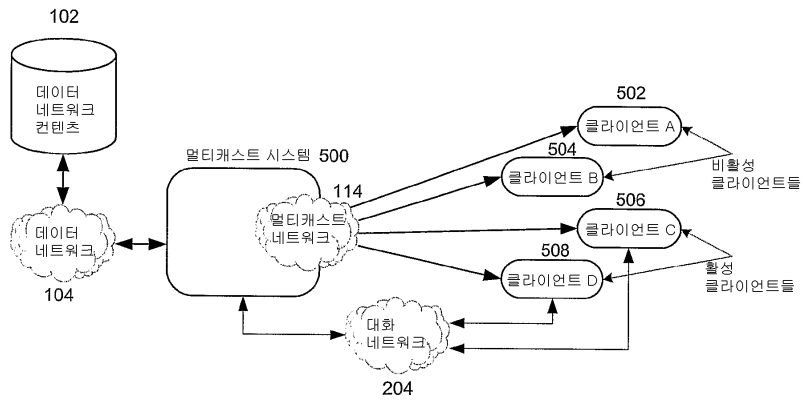




4



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