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(12)(KR)
(A)(51) 。 Int. Cl.⁷

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G06F 17/30

G06F 17/00

(11)

(43)

10-2005-0007423

2005 01 17

(21)	10-2004-7019316		
(22)	2004 11 29		
	2004 11 29		
(86)	PCT/GB2003/001620	(87)	WO 2004/003787
(86)	2003 04 15	(87)	2004 01 08

(30) 10/184,255 2002 06 28 (US)

(71) 10504

(72) 78727-4555 1516

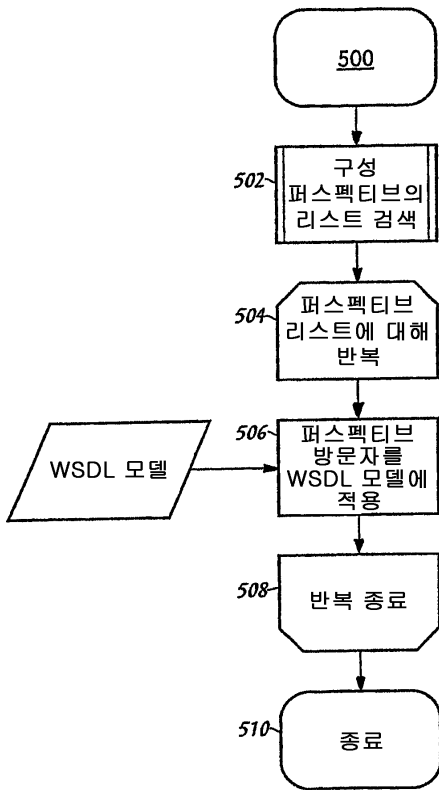
78717 16608

78757 6300

(74)

:

(54)



가

WWW(World Wide Web)

GUI(graphical user interface)

HTML

가 가

, HTML

HTML

가

CRT

Netscape Naviga

tor[®], Mozilla, Internet Explorer[®], iCab, Opera가

ASP(Active Server Pages) JSP(Java™ Server Pages)가
 omponent Object Model), CORBA(Common Object Request Broker Architecture)

DCOM(Distributed C
 RMI(Remote Method In
 vocation)
 (API)

9

가 1 (100)

(114) (100) (108)

(108) (104) (106) SOAP XML (110)

(108) (112) (112)

(104) (114)

(112) (108) (112) (114)

(114) (116) (118)

(120) (108) SOAP XML (112)

SOAP W3C(World Wide Web Consortium) (proposed standard) (SOAP 1.2)

http://www.w3.org/TR/SOAP12. Simple Object Access Protocol(1.2)

(.) (SOAP Simple Object Access Protocol (acronym) 1.2)

가 (.) (108) (112)

(112) (104)

가 WSDL SOAP SOAP

3 5 SOAP (Java), JSP

WSDL (serialization)

가

2 (200)

202 WSDL URI(Uniform Resource Identifier)가 , URI

204 3 204 , WSDL

206 가 204 6

208 206

210 , 212 (200) 214

3 2 204 302 , 2 202 URIG가 ,

304 , URI WSDL 가 WSDL 가

WSDL

. WSDL , 306 WSDL 가

WSDL (tree-like) 4 WSDL
 (400) (402-414) (402)
 (404, 406, 408) (408) (410, 41
 2) (41)

3 가 , 308 , 가 .
 , WSDL 가 , 312 WSDL .

5.1 5.2 , 5.1 5.2 3 306 . 502 ,
 (list of configured perspective)가 506 ,
 , JSP , SOAP , WSDL

504 , 가 . 506 , WSDL
 WSDL , WSDL
 , (visitor) , .
 WSDL WSDL (Java snippet)
 , 4 (404) ,
 HTML (taglib)
 WSDL WSDL (

visitor class) (concrete child class) . (, Erich Gamma, Richard Helm, R
 alph Johnson John Vlissides Design Patterns, Elements of Reusable Object-Oriented Software(Addison
 Wesley, 1995), 5 331-344).

506 WSDL
 (accept) , , (populate)
 , ,
 (polymorphic) WSDL 5.2 552 562
 , 4 412 WSDL 506
 . 506 504 , 510 306 .

6.1 6.3 JSP (aglib) , Java™ SOAP
 GUI (602a-c) . (JSP 'System
 s And Methods For Accessing Web Services Using A Tag Library' 10/185,796
 (AUS9-2002-0330US1) , WSDL

가 , 'GetTemperature' , (zip co
 de) (602a) , (604) 'GetTemperature'
 (606) 'GetTemperature' , (608) 'zipcode' ,
 가 , 7
 , (610) '78758'
 (612)
 가 , (602b) 'zipcode'(616) 'GetTemperature'
 , SOAP (602c) SOAP (622) 'GetTe
 mperature' (618) 'zipcode' (620)

7 (700) 3, 7 (700) (702) , 6.1
 6.3 704 , 가 (602a 602c) 가
 706 , 가 708 , 702 가 1 (1)
 04) 가 710 , 1 704 (118) SOAP (1)
 (800) 8 , 8 (104)가 (800)
 (812) (800) CPU(810) , (800) RAM(random access memor
 y)(814), ROM(read only memory)(816), (820) I/O(Inp
 ut/output) (818), (824), (826) / (822) (800)
 U(810) (834) , (812) (838) (836) . CP
 . CPU(810)
 (824), (838) (836) (812) , (828), (838)
 가 (814)
 (820) 가
 가 가 , , , 가 (biological)
 9 (108) (900) (114) (900) , 1 (900)
 (CPU)(910) (912) (920) (900)
 912) / (I/O) (900) RAM(914), ROM(916) (900) (900) (900)
 . CPU(910) , (918) (900) (900) (934)
 . CPU(901)

(914)

(920)

(920)

가 () . , 가 가 가 가 (bi

ological)

(57)

1.

(204) ,

(perspective visitor) (208)

(encapsulating) (210) -

2.

1

(208)

3.

1

(410, 412, 414)

(408) ,

4.

3

(558) ,

(560)

5.

1 ,

(704) ,

(710)

6.

1 5

가

7.

(204) 가 ,

(perspective visitor)

(208)

가 ,

ncapsulating)

(210) -

- 가

(e

8.

7 ,

가 (208)

9.

7 ,

(408) ,

(410, 412, 414)

10.

9 ,

가

(558)

가 ,

(560)

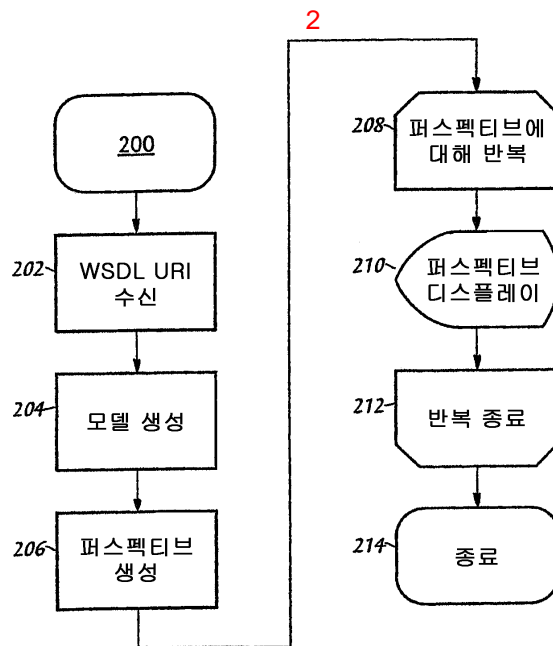
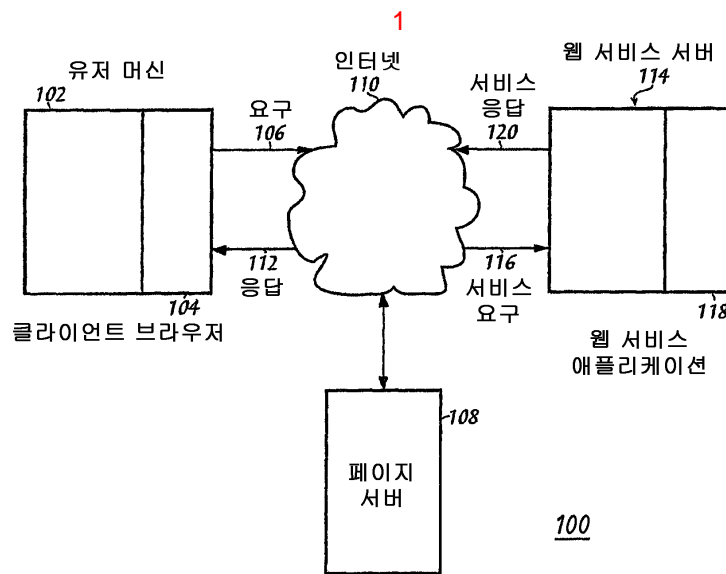
가

11.

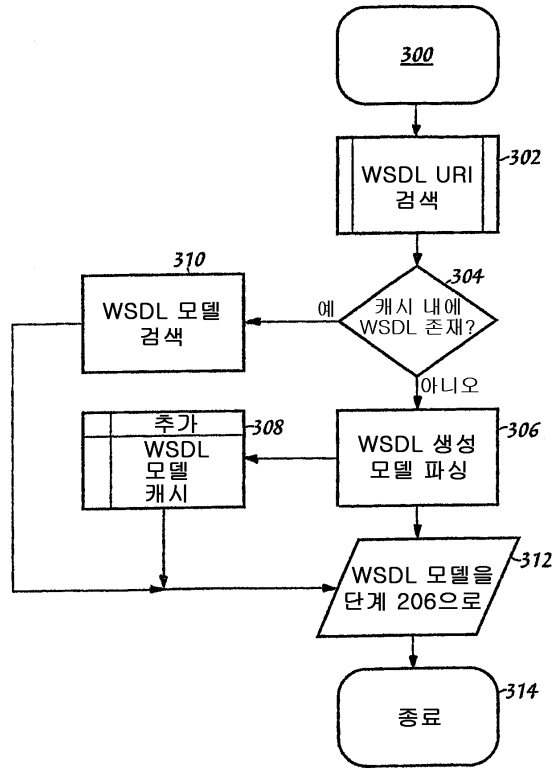
7

(704) 가

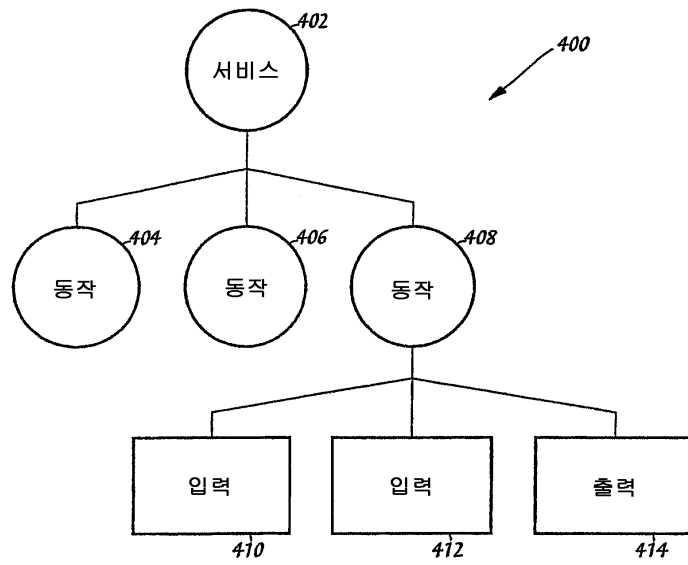
(710) 가



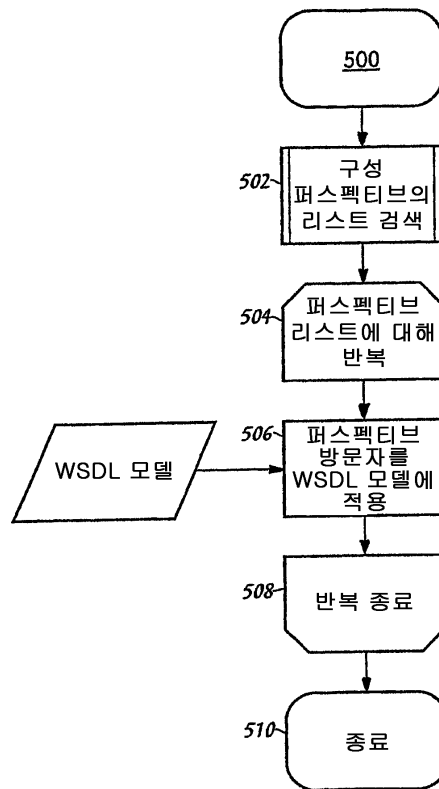
3



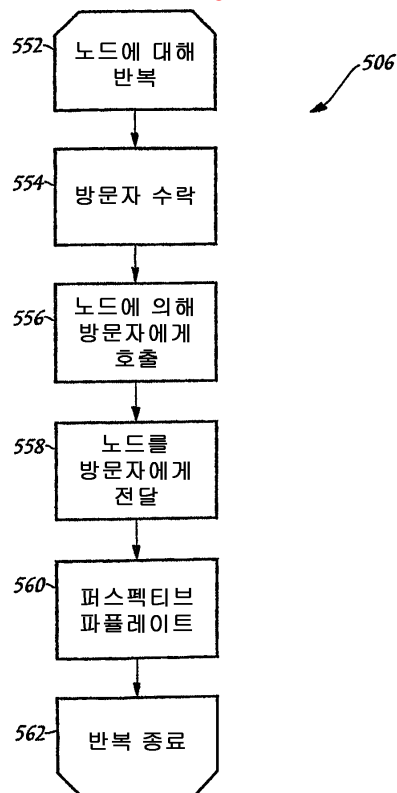
4



5.1



5.2



602a

```
<%@ taglib url="http://com.ibm.webservice/taglib" prefix="webservice"%>
<% Object result = null; %>
<webservice:call service="WeatherRetriever" operation="GetTemperature"
port="WeatherRetrieverSoap"
wsdl="http://www.ybws.com/services/WeatherRetriever.asmx?WSDL">
  <webservice:input name="zipCode" value="78758"/>
  <webservice:output>
    <% result = serviceResult; %>
  </webservice:output>
</webservice:call>
```

606 ←

604

608

610

612

태그 실행(하기 결과)

태그 실행(새 창 내에 결과)

메시지 뷰

WSDL 뷰

6.2

602B

```

WeatherRetriever.GetTemperature
java.lang.String
public float GetTemperature(java.lang.String zipCode)
float result;
java.lang.String zipCode = "stringValue";
mappings: WeatherRetriever proxy = new mappings: WeatherRetriever();
result = proxy.GetTemperature(zipCode);
    
```

지바 실행(하기 결과) 지바 실행(새 창 내에 결과)

TagLib 뷰

메시지 뷰

WSDL 뷰

6.3

602C

```

WeatherRetriever.GetTemperature
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <SOAP-ENV:Body SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    618 <ns1:GetTemperature xmlns:ns1="http://tempuri.org/">
      620 <zipCode xsi:type="xsd:string">78758</zipCode>
    </ns1:GetTemperature>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
    
```

지바 실행(하기 결과) 메시지 실행(새 창 내에 결과)

메시지 실행(하기 결과)

WSDL 뷰

