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(81) **Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

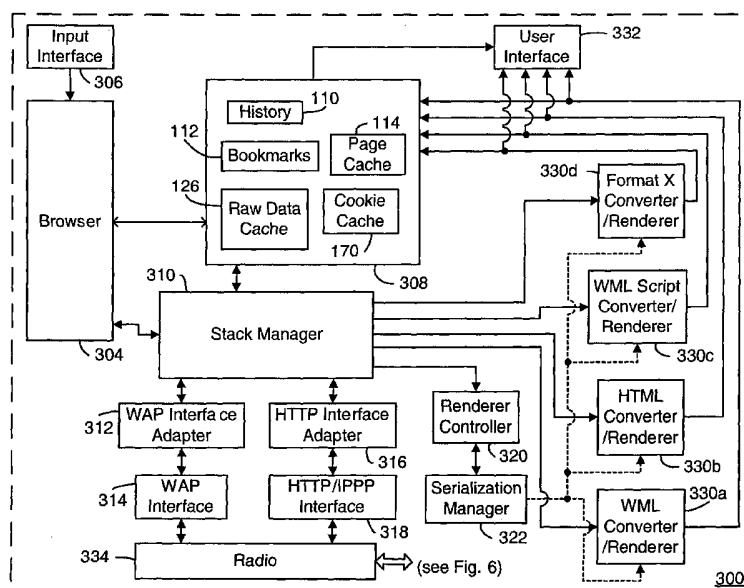
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG,*

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[Continued on next page]

- (54) Title:** INFORMATION BROWSER SYSTEM AND METHOD FOR A WIRELESS COMMUNICATION DEVICE



- (57) Abstract:** An information browser system and method enables sending of information request to remote information sources and receiving of requested information from the remote sources on a wireless communication device. Information in any of a plurality of formats, including WML, HTML and WMLScript, is converted into a format in which the information can be displayed or otherwise further processed by the device. Information browsing functions may also be integrated with other communication functions on a mobile communication device.



- SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only
- Published:**
- with international search report
- (88) Date of publication of the international search report:**  
8 April 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP01/01857

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"MULTI-MODAL DATA ACCESS" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, no. 426, October 1999 (1999-10), pages 1393-1396, XP000907811 ISSN: 0374-4353	1-6, 25-28,31
Y	paragraph [0001] - paragraph [0045];	1
A	figures 1-3 --- -/--	14,16-24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

11 September 2003

Date of mailing of the international search report

15. 09. 2003

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/C. 91/01857

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FREYTAG C ET AL: "Resource adaptive WWW access for mobile applications" COMPUTERS AND GRAPHICS, PERGAMON PRESS LTD. OXFORD, GB, vol. 23, no. 6, December 1999 (1999-12), pages 841-848, XP004187832 ISSN: 0097-8493 abstract; figure 1 page 843, left-hand column, line 9 -right-hand column, line 30 ---	1
X	GB 2 340 001 A (IBM) 9 February 2000 (2000-02-09) abstract; figure 2B page 4, line 9 - line 28 page 6, line 12 - line 15 page 9, line 43 -page 10, line 2; figure 3 ---	1-6, 25-28,31
A	EP 0 987 868 A (PHONE COM INC) 22 March 2000 (2000-03-22) abstract; figure 3A paragraph [0025] - paragraph [0027]; figure 1 ---	1-6, 25-28,31
X	SCHILIT B N ET AL: "TeleWeb: Loosely connected access to the World Wide Web" COMPUTER NETWORKS AND ISDN SYSTEMS, NORTH HOLLAND PUBLISHING. AMSTERDAM, NL, vol. 28, no. 11, 1 May 1996 (1996-05-01), pages 1431-1444, XP004018240 ISSN: 0169-7552 abstract page 1431, left-hand column, line 1 -right-hand column, line 8 page 1434, right-hand column, line 17 - line 40 page 1436, left-hand column, line 33 - line 39 page 1437, left-hand column, line 20 - line 24 page 1439, right-hand column, line 5 - line 7 ---	11-15
A	abstract page 1431, left-hand column, line 1 -right-hand column, line 8 page 1434, right-hand column, line 17 - line 40 page 1436, left-hand column, line 33 - line 39 page 1437, left-hand column, line 20 - line 24 page 1439, right-hand column, line 5 - line 7 ---	19,22,23
X	"ARCHIVING AGENT FOR THE WORLD WIDE WEB" IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, vol. 40, no. 6, 1 June 1997 (1997-06-01), pages 33-34, XP000728326 ISSN: 0018-8689 the whole document ---	11-15
A	the whole document ---	19,22,23
A	US 6 105 028 A (GAUVIN WILLIAM JOSEPH ET AL) 15 August 2000 (2000-08-15) abstract; figures 3B,5 ---	11-15
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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/C/91/01857

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 675 507 A (BOBO II CHARLES R) 7 October 1997 (1997-10-07) abstract; figure 1 ---	16-24
X	US 4 837 798 A (OSTERWEIL JANIS R ET AL) 6 June 1989 (1989-06-06) abstract; figure 1 ---	16-24
X	EP 0 911 728 A (SUN MICROSYSTEMS INC) 28 April 1999 (1999-04-28) abstract; figure 2 page 3, paragraph 12 - paragraph 14 ---	29,30
A	GB 2 332 126 A (SAMSUNG ELECTRONICS CO LTD) 9 June 1999 (1999-06-09) abstract; figure 4 -----	29,30

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 01/01857

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
  
1-6, 11-31
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-6, 25-28, 31

Claims 1-6, 25-28, 31 directed to making pages of different formats available offline on a client web browser device with cache

2. Claims: 7-10, 32-41

Claims 7-10, 32-41 directed to the diversification of information adapters and communication links in a wireless device web browser.

3. Claims: 11-15

Claims 11-15 directed to the use of a background processing daemon for the retrieval of information in a web browser.

4. Claims: 16-24

Claims 16-24 directed to the integration of other applications with a web browser through the use of a common message store.

5. Claims: 29-30

Claims 29-30 directed to the installation of converter software on a wireless device.

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/CA/01/01857

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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