

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 November 2006 (02.11.2006)

PCT

(10) International Publication Number
WO 2006/116026 A3

(51) International Patent Classification:
H04Q 7/32 (2006.01)

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(21) International Application Number:
PCT/US2006/014994

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 21 April 2006 (21.04.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/673,867 21 April 2005 (21.04.2005) US

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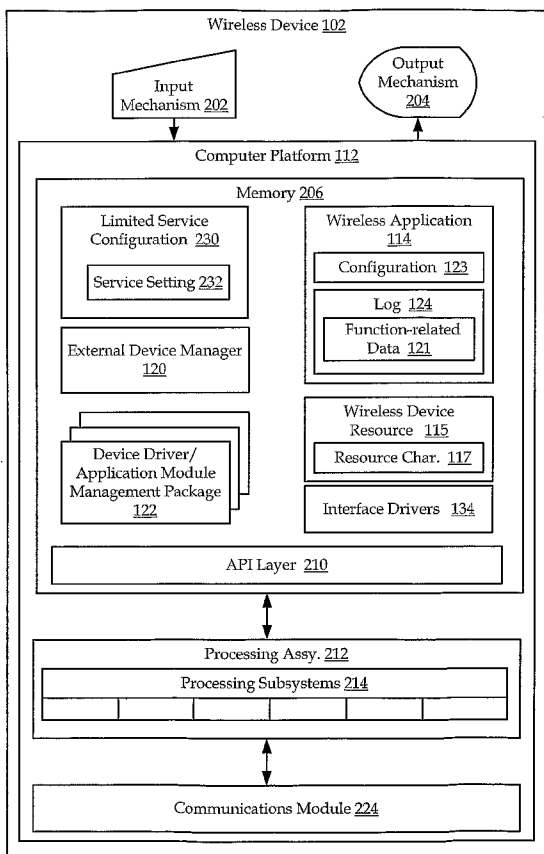
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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR PROVIDING WIRELESS DEVICE-CENTRIC CONTROL OF AN EXTERNAL COMPUTING DEVICE



(57) Abstract: Apparatus and methods allowing a wireless device to utilize resources on a connectable external device may comprise installing a software component on the external device, the software component operable to enable communication between the wireless device and the desired resource on the external device. In other aspects, a wireless device resident application is operable to obtain an application install package from a remote server across a wireless network, and install, on-demand, an external device application on the external device.

WO 2006/116026 A3



Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:

1 February 2007

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/US2006/014994

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04Q7/32

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)
H04Q H04L 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, PAJ, 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	US 2004/210657 A1 (NARAYANAN SATHYA ET AL) 21 October 2004 (2004-10-21) paragraphs [0007] - [0042]	1-30, 40, 41
X	US 2003/118015 A1 (GUNNARSSON MAGNUS ET AL) 26 June 2003 (2003-06-26) paragraphs [0006] - [0023]	1-30, 40, 41
X	US 2004/203800 A1 (MYHRE JOHN ET AL) 14 October 2004 (2004-10-14) abstract paragraphs [0011] - [0052], [0061] - [0074], [0079] - [0085]; claim 1 ----- -/--	1-30, 40, 41

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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"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

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"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

27 November 2006

Date of mailing of the international search report

05/12/2006

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/014994

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 6 684 397 B1 (BYER JAMES EARLE [US] ET AL) 27 January 2004 (2004-01-27) column 3, line 5 - column 4, line 29 column 5, line 60 - column 7, line 25 column 8, line 57 - column 10, line 56 column 13, line 57 - column 15, line 22; claim 1; figure 6	31-39
A	US 6 161 134 A (WANG ET AL) 12 December 2000 (2000-12-12) column 2, line 20 - column 12, line 52	1-30, 40, 41
A	EP 1 458 206 A (HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P) 15 September 2004 (2004-09-15) paragraphs [0031] - [0051]	1-30, 40, 41
A	US 2002/083121 A1 (CHANG WILLIAM HO ET AL) 27 June 2002 (2002-06-27) columns 9-31	1-30, 40, 41
A	US 6 754 895 B1 (BARTEL MARK ALLEN [US] ET AL) 22 June 2004 (2004-06-22) abstract column 2, lines 45-64 column 5, line 1 - column 8, line 5	31-39
A	US 2001/053702 A1 (KANBARA MASATOMO [JP] ET AL) 20 December 2001 (2001-12-20) the whole document	31-39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/014994

Box II Observations where certain claims were found unsearchable (Continuation of item 2 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 III Observations where unity of invention is lacking (Continuation of item 3 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.:
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: 1-30, 40, 41

Method for exploiting resources shared with an external wireless device

2. claims: 31-39

Method of installing applications on wireless devices

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/014994

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