

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 May 2002 (10.05.2002)

PCT

(10) International Publication Number  
**WO 02/037867 A3**

(51) International Patent Classification<sup>7</sup>: **G06F 17/30**,  
H04Q 7/32, H04L 29/06

(21) International Application Number: PCT/IB01/01898

(22) International Filing Date: 10 October 2001 (10.10.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
09/699,863 30 October 2000 (30.10.2000) US

(71) Applicant: **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, 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).

Published:  
— with international search report

(71) Applicant (*for LC only*): **NOKIA INC.** [US/US]; 6000 Connection Drive, Irving, TX 75039 (US).

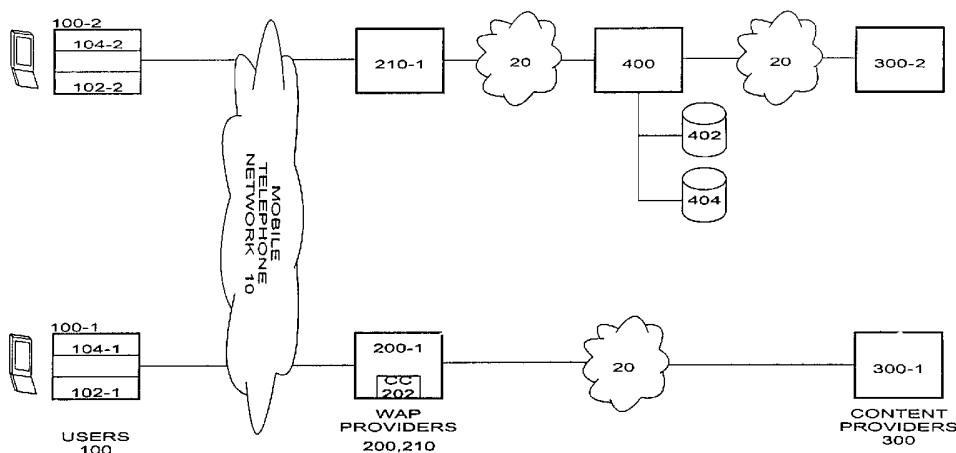
(72) Inventor: **HEISKA, Jukka**; Apollonkatu 21 A 24, FIN-00100 Helsinki (FI).

(88) Date of publication of the international search report:  
7 August 2003

(74) Agent: **STUART, Michael, C.**; Cohen, Pontani, Lieberman & Pavane, 551 Fifth Avenue, Suite 1210, New York, NY 10176 (US).

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.

(54) Title: CONTENT CONVERTER PORTAL



(57) Abstract: A system including a data network for providing Wireless Application Protocol (WAP) data to wireless terminals from a selection of content servers connected to the data network through a plurality of WAP gateways connected to the data network includes a content converter accessible as a centralized network resource. Characteristics of each wireless terminal are uploaded to the central content converter and stored there. Content provided by a content server is routed through the data network to the central converter for adjustment according to the stored characteristics and preferences, and further routed through the data network to a particular wireless terminal.



WO 02/037867 A3

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/IB 01/01898

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 G06F17/30 H04Q7/32 H04L29/06				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 G06F H04L				
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) WPI Data, PAJ, EPO-Internal, INSPEC				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 00 39666 A (CARLINO KENNETH F ;HOHL KENNETH B (US); SPYGLASS INC (US)) 6 July 2000 (2000-07-06) page 7, line 1-5 page 13, line 1 -page 34, line 12	1-14		
A	VAN DER MEER S ET AL: "Flexible control of media gateways for service adaption" TECHNICAL UNIVERSITY BERLIN, XP010511163 page 1-6	1-14		
<table style="width:100%; border:none;"> <tr> <td style="width:50%; border:none;"><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</td> <td style="width:50%; border:none;"><input checked="" type="checkbox"/> Patent family members are listed in annex.</td> </tr> </table>			<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/> Patent family members are listed in annex.
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.	<input checked="" type="checkbox"/> Patent family members are listed in annex.			
° Special categories of cited documents :				
<table style="width:100%; border:none;"> <tr> <td style="width:50%; border:none;">                     *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                 </td> <td style="width:50%; border:none;">                     *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.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*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
*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  <p align="center">28 April 2003</p>		Date of mailing of the international search report  <p align="center">08/05/2003</p>		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <p align="center">Bowler, A</p>		

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 01/01898

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>METTER M ET AL: "WAP enabling existing HTML applications" USER INTERFACE CONFERENCE, 2000. AUIC 2000. FIRST AUSTRALASIAN CANBERRA, ACT, AUSTRALIA 31 JAN.-3 FEB. 2000, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 31 January 2000 (2000-01-31), pages 49-57, XP010371196 ISBN: 0-7695-0515-5 page 49-57</p> <p>-----</p>	1-14

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 01/01898

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0039666	A	06-07-2000	
		DE 19962192 A1	06-07-2000
		FI 992746 A	28-06-2000
		GB 2347329 A	30-08-2000
		JP 2000194612 A	14-07-2000
		SE 9904687 A	29-06-2000
		WO 0039666 A1	06-07-2000

---