

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

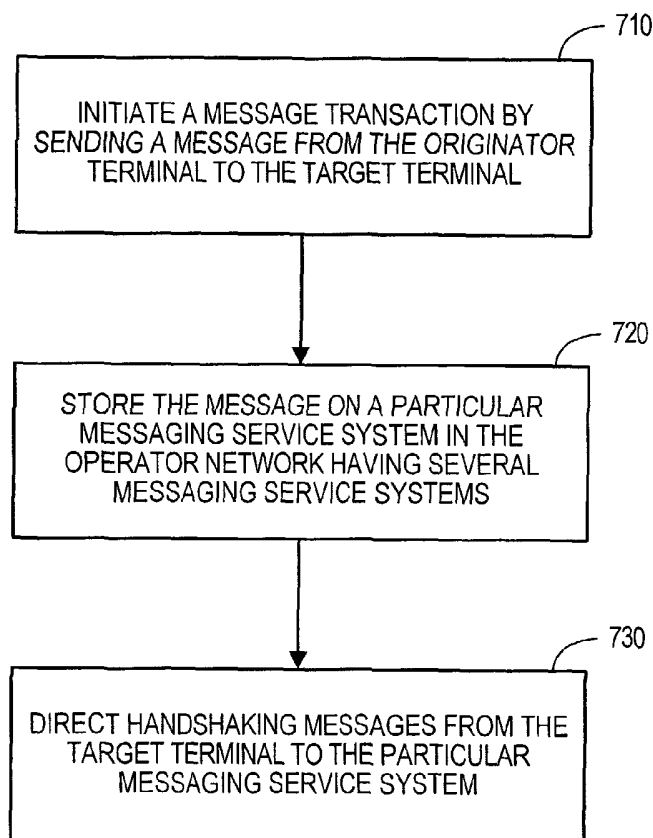
PCT

(10) International Publication Number
WO 2003/103154 A3

- (51) International Patent Classification⁷: **H04Q 7/20**
- (21) International Application Number: PCT/IB2003/002118
- (22) International Filing Date: 21 May 2003 (21.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/161,323 31 May 2002 (31.05.2002) US
- (71) Applicant: **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (71) Applicant (for LC only): **NOKIA, INC.** [US/US]; 6000 Connection Drive, Irving, TX 75039 (US).
- (72) Inventors: **SAVINEN, Teppo**; Männiköntie 23 D 12, FIN-03400 Vihti (FI). **WARSTA, Ville**; Pietarinkatu 15 B 65, FIN-00140 Helsinki (FI).
- (74) Agent: **FUNK, Steven, R.**; Crawford Maunu PLLC, 1270 Northland Drive, Suite 390, St. Paul, MN 55120 (US).
- (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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, 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, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR OPERATING INTRAVENDOR AND INTERVENDOR MESSAGING SYSTEMS



(57) Abstract: A system and method for enabling the operation of intervender and intravendor messaging service systems within an operator network includes correctly routing data messages and handshaking messages between the various system components. In one aspect, the uniform resource identifier of a particular messaging system (840) is used to route handshaking messages (813) from a target terminal (820) to the particular messaging system (840). In another aspect, a message transaction identification embedded in the handshaking message is used to direct the handshaking message (913) to the correct messaging service system (940). In one embodiment, the transaction identification is analyzed by a load balancing switch (934) to determine the location of the particular messaging service system. In another embodiment, one or more of the several messaging service systems (1040, 1050) in the operator network (1060) are used to analyze the transaction identification to determine the location of the particular messaging service system.

WO 2003/103154 A3



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

21 May 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/IB03/02118

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04Q 7/20

US CL : 455/466

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)

U.S. : 455/466, 445, 417, 414.1, 432.1-433, 412.1-413, 454, 552.1, 453

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 practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,295,449 B1 (WESTERLAGE et al) 25 September 2001 (25.09.2001), abstract, column 8, line 62 to column 9, line 3, and column 9, line 58 to column 10, line 15.	1-49
Y	US 6,366,609 B1 (ROSSI) 02 April 2002 (02.04.2002), abstract, column 2, line 60 to column 4, line 25.	1-49
A	US 5,918,181 A (FOSTER et al) 29 June 1999 (29.06.1999), abstract, column 4, lines 20-40 and column 8, lines 1-27.	1-49

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:		"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
"A"	document defining the general state of the art which is not considered to be of particular relevance	"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
"E"	earlier application or patent published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search

11 January 2004 (11.01.2004)

Date of mailing of the international search report

26 JAN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Eliseo Ramos-Feliciano

Telephone No. 703-305-3631

INTERNATIONAL SEARCH REPORT

PCT/IB03/02118

Continuation of B. FIELDS SEARCHED Item 3:

EAST Text Search

Search terms: intervendedor, intravendedor, messasing, SMS, handshaking, call forwarding, call routing