(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 19 July 2001 (19.07.2001)

PCT

(10) International Publication Number WO 01/52486 A3

(51) International Patent Classification⁷: H04L 12/58, H04Q 7/22

(21) International Application Number: PCT/US01/00705

(22) International Filing Date: 9 January 2001 (09.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/480,835 10 January 2000 (10.01.2000) US

(71) Applicant: QUALCOMM INCORPORATED [US/US]; 5775 Morehouse Drive, San Diego, CA 92121-1714 (US).

- (72) Inventors: DEJACO, Andrew, P.; 9705 Caminito Mojado, San Diego, CA 92131 (US). HAN, Charles, S.; 9396 Laurentian Drive, San Diego, CA 92129 (US).
- (74) Agents: WADSWORTH, Philip, R. et al.; Qualcomm Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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.
- (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, GW, ML, MR, NE, SN, TD, TG).

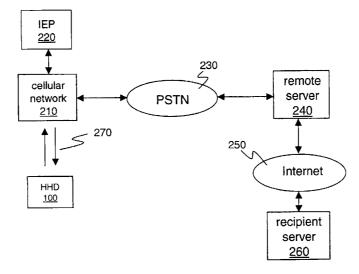
Published:

with international search report

(88) Date of publication of the international search report: 13 December 2001

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: SYSTEM AND METHOD FOR SENDING AN ELECTRONIC MAIL A WIRELESS DEVICE



(57) Abstract: A system and method for preparing and sending e-mail communications using a wireless communications device are disclosed. In one embodiment, input data comprising audio, image, and/or video data is encoded and transmitted to a cellular network. An integrated e-mail processor connected to the cellular network processes the coded data into a composite e-mail message and forwards the message to a server. The server then forwards the composite e-mail message to the indicated recipient(s). In another embodiment, the wireless communications device processes the coded data into a composite e-mail message and forwards it to a server via a cellular network. In either embodiment, the server may be dedicated to the cellular network. The invention thus enables users of handheld wireless communications devices, users of other devices lacking typing keyboards, or users presently unable to use a typing keyboard to prepare and send e-mail messages.



INTERNATIONAL SEARCH REPORT

rnational Application No PCT/US 01/00705

a. classification of subject matter IPC 7 H04L12/58 H04C H04Q7/22 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) H04L H04M H040 TPC 7 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, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5 974 449 A (CHANG JACK H ET AL) 1,2,5-7,26 October 1999 (1999-10-26) 9,11, 15-17, 21,22, 28,31 abstract column 3, line 54 -column 5, line 14 column 11, line 45 -column 12, line 39 column 18, line 13 -column 19, line 16 3,4 Υ Patent family members are listed in annex Further documents are listed in the continuation of box C. χ ХΙ 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 *A* document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention *E* earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-*O* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled "P" document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 17/07/2001 10 July 2001 Authorized officer Name and mailing address of the ISA European Paient Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Peeters, D Fax: (+31-70) 340-3016

1

INTERNATIONAL SEARCH REPORT

rnational Application No PCT/US 01/00705

C (Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	101/03/01/00/03	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
>			
X	WO 94 23394 A (MOTOROLA INC) 13 October 1994 (1994-10-13) page 10, line 32 -page 12, line 10 page 8, line 7 - line 13 claims 10-12	1,17,23, 25,28	
A		2-16, 18-22, 24,26, 27,29-31	
Υ	YU S -F ET AL: "A multimedia gateway for phone/fax and MIME mail" COMPUTER COMMUNICATIONS,NL,ELSEVIER SCIENCE PUBLISHERS BV, AMSTERDAM, vol. 20, no. 8, 25 August 1997 (1997-08-25), pages 615-627, XP004126715 ISSN: 0140-3664 page 621, paragraph 4.1.1; figure 7 page 626, left-hand column, line 30 - line 40	3,4	
P,X	W0 00 59196 A (HELFERICH RICHARD J) 5 October 2000 (2000-10-05) abstract page 4, line 10 - line 17 page 6, line 13 -page 10, line 24 page 16, line 22 - line 27 page 17, line 15 -page 18, line 4 page 19, line 22 -page 24, line 8	1-22, 28-31	
Α	claims 9-12 	23-27	

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

rnational Application No PCT/US 01/00705

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5974449	A	26-10-1999	NONE		
WO 9423394	Α	13-10-1994	US AU	5426594 A 6417394 A	20-06-1995 24-10-1994
WO 0059196	Α	05-10-2000	AU	3928400 A	16-10-2000