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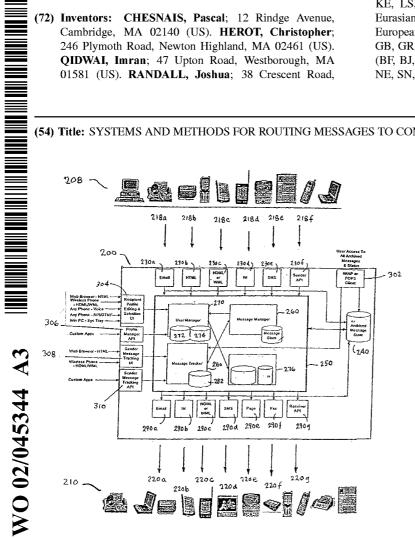
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(54) Title: SYSTEMS AND METHODS FOR ROUTING MESSAGES TO COMMUNICATIONS DEVICES



(57) Abstract: The present disclosure is directed to systems and methods for routing a message to a communications device. These systems and methods may receive a message via a communications channel, convert the message into a uniform media format, identify at least one of the following: at least one user communications device to receive the message and at least one communications channel for delivering the message, then convert the uniform media formatted message for at least one communications protocol and then forward the message formatted for the at least one communications protocol to the at least one user communications device via at least one communications channel. In accordance with the systems and methods disclosed herein, messages sent in one communications protocol via a communications channel may be delivered to a user in a different communications protocol via a different communications channel. The message may be forward to a user's communications device based upon the user's contact profile and location information and the user's preference information. In some embodiments, the message may be delivered via an instant messaging communications channel.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L12/58

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B. FIELDS SEARCHED

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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

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 00 49819 A (CELPAGE INC ;AYALA JOSE A (US); MORALES RAFAEL (US); ALICEA ANASTA) 24 August 2000 (2000-08-24)	1-3,17, 18, 26-31, 33, 61-63,
Y	abstract	76,77 5,6, 8-12,15, 21,22, 37,38, 40,41, 50-53, 55,65, 66, 68-72, 80,81
	page 9, line 13 – line 16 page 9, line 29 –page 10, line 10 page 10, line 28 –page 12, line 10 –/	50,01

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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
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Int "onal Application No PCI/US 01/44907

	cition) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Holovalit to oldin 140.
	claims 17-19	
Υ	WO 96 09710 A (OCTEL COMMUNICATIONS CORP) 28 March 1996 (1996-03-28)	8-12,15, 21,22, 37,38, 40,41, 50-53, 55, 68-72, 80,81
Α	abstract	6,27,28, 33,66
	page 7, line 8 - line 16 page 19, line 27 -page 20, line 11 page 24, line 11 -page 25, line 23 page 26, line 17 -page 29, line 10 page 31, line 8 - line 18 page 32, line 23 - line 31 page 36, line 18 -page 37, line 24 page 42, line 11 -page 43, line 31; figure 3	
:	page 49, line 27 -page 50, line 19 page 52, line 11 -page 53, line 9 page 54, line 7 -page 56, line 21 page 62, line 9 -page 63, line 8 page 63, line 20 - line 25 page 68, line 30 -page 69, line 2 page 70, line 17 -page 71, line 2	
Y	US 5 493 692 A (GOLDSTEIN RICHARD J ET AL) 20 February 1996 (1996-02-20) abstract column 9, line 41 -column 10, line 27	5,6,65, 66
Α	US 6 101 320 A (MCPHEDRAN PETER SEAN GEORGE ET AL) 8 August 2000 (2000-08-08) abstract column 9, line 12 - line 65; figure 3	26

INTERNATIONAL SEARCH REPORT principles on patent family members

In anal Application No PCI/US 01/44907

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0049819	Α	24-08-2000	AU WO	3372700 A 0049819 A1	04-09-2000 24-08-2000
WO 9609710	A	28-03-1996	US US AU CA EP US US US US US US US	5740231 A 5621727 A 3633795 A 2199243 A1 0781482 A1 5872779 A 6411684 B1 6031895 A 6064723 A 5982856 A 9609710 A1 5761201 A	14-04-1998 15-04-1997 09-04-1996 28-03-1996 02-07-1997 16-02-1999 25-06-2002 29-02-2000 16-05-2000 09-11-1999 28-03-1996 02-06-1998
US 5493692	Α	20-02-1996	NONE		
US 6101320	Α	08-08-2000	NONE		