



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04M 7/00, H04J 3/06, H04L 12/64, H04Q 11/04	A3	(11) International Publication Number: WO 99/40715 (43) International Publication Date: 12 August 1999 (12.08.99)
(21) International Application Number: PCT/US99/01352 (22) International Filing Date: 22 January 1999 (22.01.99) (30) Priority Data: 09/019,372 4 February 1998 (04.02.98) US (71) Applicant: SIEMENS INFORMATION AND COMMUNICATION NETWORKS, INC. [US/US]; 900 Broken Sound Parkway, Boca Raton, FL 33487 (US). (72) Inventors: NEUBAUER, Harald; 285 Union Avenue #E1117, Campbell, CA 95008 (US). SKRZYNSKI, Mark; 217 Stockton Avenue, Capitola, CA 95010 (US). DUMAS, Greg; 1390 Prada Court, Milpitas, CA 95035 (US). (74) Agents: CODISPOTI, Joseph, S. et al.; Siemens Corporation – Intellectual Property Dept., 186 Wood Avenue South, Iselin, NJ 08830 (US).		(81) Designated States: CN, JP, KR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 21 October 1999 (21.10.99)
(54) Title: B–CHANNEL SYNCHRONIZATION FOR G.723.1 VOCODING (57) Abstract <p>A gateway (1000a) is provided including a telephony interface (1004), a network interface (1002), and a digital signal processor (DSP) (1008a) for encoding the incoming telephony channels. The telephony interface (1004) is configured to separate an incoming data stream into separate channels. The telephony interface (1004) is further configured to control operation of a plurality of clocks for synchronizing the transfer of the channels to the encoding DSP, thereby minimizing multiplexing delay. According to another embodiment, the incoming channels are separately initialized by a controller (1050), at a predetermined delay.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/01352

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04M7/00 H04J3/06 H04L12/64 H04Q11/04

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)

IPC 6 H04M 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HOUGHTON T F ET AL: "A PACKET TELEPHONY GATEWAY FOR PUBLIC NETWORK OPERATORS" ISS '97. WORLD TELECOMMUNICATIONS CONGRESS. (INTERNATIONAL SWITCHING SYMPOSIUM), GLOBAL NETWORK EVOLUTION: CONVERGENCE OR COLLISION? TORONTO, SEPT. 21 - 26, 1997, vol. 2, 21 September 1997 (1997-09-21), pages 35-44, XP000704453 ABDALLAH ABI-AAD ET AL the whole document</p> <p style="text-align: center;">--- -/--</p>	1-19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

19 August 1999

Date of mailing of the international search report

30/08/1999

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International Application No

PCT/US 99/01352

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>KOSTAS T J ET AL: "REAL-TIME VOICE OVER PACKET-SWITCHED NETWORKS" IEEE NETWORK: THE MAGAZINE OF COMPUTER COMMUNICATIONS, vol. 12, no. 1, 1 January 1998 (1998-01-01), pages 18-27, XP000770952 ISSN: 0890-8044 the whole document</p> <p style="text-align: center;">---</p>	1-19
A	<p>US 5 526 353 A (HENLEY ARTHUR ET AL) 11 June 1996 (1996-06-11) figure 2 column 9, line 40 - column 11, line 3</p> <p style="text-align: center;">---</p>	1-19
A	<p>WO 97 47118 A (ERICSSON TELEFON AB L M ;HANSSON ALLAN (SE); TOENNB Y INGMAR (SE)) 11 December 1997 (1997-12-11) page 12, line 19 - page 13, line 14 figure 5</p> <p style="text-align: center;">---</p>	1-19
A	<p>WO 97 23078 A (MCI COMMUNICATIONS CORP) 26 June 1997 (1997-06-26) page 7, line 21 - page 9, line 12 figures 3A,B</p> <p style="text-align: center;">---</p>	1-19
A	<p>US 4 903 261 A (MARGGRAFF LEWIS J ET AL) 20 February 1990 (1990-02-20)</p> <p style="text-align: center;">-----</p>	

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Information on patent family members

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