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(21) International Application Number: PCT/US96/16680 (22) International Filing Date: 18 October 1996 (18.10.96) (30) Priority Data: 08/544,836 18 October 1995 (18.10.95) US (71) Applicants: TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE). ERICSSON INC. [US/US]; 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC 27709 (US). (72) Inventors: BILLSTÖM, Lars; Wiboms väg 25, S-171 60 Solna (SE). DIACHINA, John; 505 Kristin Drive, Garner, NC 27529 (US). (74) Agents: GRUDZIECKI, Ronald, L. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i> (88) Date of publication of the international search report: 29 May 1997 (29.05.97)
(54) Title: PACKET CHANNEL FEEDBACK (57) Abstract A method is disclosed for improving the efficiency of the packet data channel by providing means for interrupting transmissions from or to a first mobile station so as to allow a short message to be communicated between the communication system and a different mobile station. The packet channel feedback information includes several flags: Busy-Reserved/Idle (BRI); Received/Not Received (R/N); Partial Echo (PE); and Partial Echo Qualifier (PEQ). The PEQ allows the communication system to interrupt the transmission to one mobile station to send a short message to another mobile station. By setting the PEQ to various values, a mobile station can determine whether subchannel ownership has been temporarily interrupted and reassigned to another station.		

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 96/16680

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04Q7/38 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)

IPC 6 H04Q

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

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A	INTERNATIONAL SYMPOSIUM ON PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS (PIMRC' 94), vol. 4, - 18 September 1994 AMSTERDAM (NL), pages 1247-1253, XP002027584 Q. GUO ET AL: "Aggressive Packet Reservation Multiple Access Using Signatures" see paragraph ABSTRACT see page 1247, right-hand column, line 17 - line 26 see page 1248, right-hand column, paragraph 2.3 - page 1249, left-hand column, paragraph 3 --- -/--	1,8

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

☒ Patent family members are listed in annex.

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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

Gerling, J.C.J.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	ELECTRONICS & COMMUNICATIONS IN JAPAN, PART I - COMMUNICATIONS, vol. 77, no. 4, 1 April 1994, NEW-YORK (US), pages 92-102, XP000445332 UMEDA N ET AL: "IDLE-SIGNAL CASTING MULTIPLE ACCESS WITH PARTIAL ECHO (ICMA-PE) FOR MOBILE PACKET COMMUNICATIONS" see page 93, left-hand column, paragraph 2. - page 94, right-hand column, paragraph 3. ---	1,8
A	EP 0 652 680 A (ERICSSON TELEFON AB L M) 10 May 1995 see page 37, line 28 - page 40, line 45 ---	1,8
A	WO 94 10767 A (ERICSSON TELEFON AB L M) 11 May 1994 -----	

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