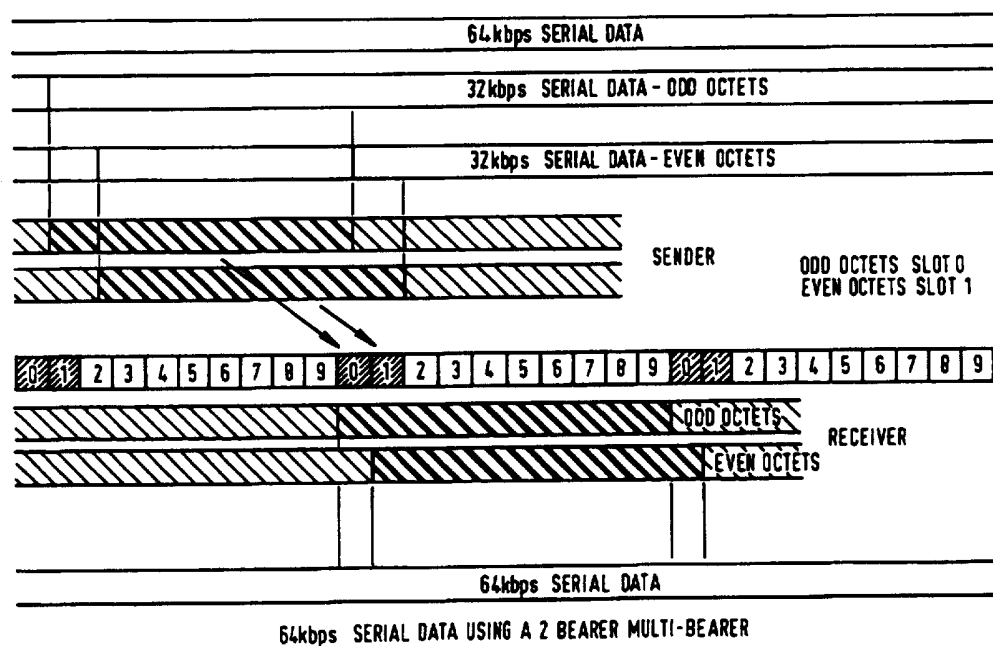




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04Q 7/22</p>	<p>A3</p>	<p>(11) International Publication Number: WO 96/08934 (43) International Publication Date: 21 March 1996 (21.03.96)</p>
<p>(21) International Application Number: PCT/GB95/02134 (22) International Filing Date: 8 September 1995 (08.09.95) (30) Priority Data: 9418780.4 16 September 1994 (16.09.94) GB (71) Applicant (for all designated States except US): IONICA INTERNATIONAL LIMITED [GB/GB]; Cowley Road, Cambridge CB4 4AS (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): ALBROW, Richard, John [GB/GB]; 27 Lonsdale, Linton, Cambridge CB1 6LT (GB). BLACK, Simon, Alexander [GB/GB]; 52 Auckland Court, Auckland Road, Cambridge CB5 8DS (GB). CARTER, Leigh [AU/GB]; 50 Cantelupe Road, Haslingfield, Cambridge CB3 7LU (GB). GOODINGS, Rupert, Leslie, Alexander [GB/GB]; 33 Elizabeth Way, Cambridge CB4 1DD (GB). MARTIN, Paul, Maxwell [GB/GB]; 9 Taylors Field, Dullingham, Newmarket, Suffolk CB8 9XS (GB). PIERCY, Neil, Philip [GB/GB]; 13 Harston Road, Newton, Cambridge CB2 5PA (GB). (74) Agent: HOGG, Jeffery, Keith; Withers & Rogers, 4 Dyer's Buildings, Holborn, London EC1N 2JT (GB).</p>	<p>(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, MW, SD, SZ, UG).</p> <p>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></p> <p>(88) Date of publication of the international search report: 18 April 1996 (18.04.96)</p>	

(54) Title: TRANSMISSION OF DIGITAL DATA MESSAGES IN DIGITAL TELEPHONY



(57) Abstract

In a communication between a base station and subscriber unit in time slots within fixed length time frames, different types of messages require different numbers of time slots per frame to maintain transmission rate. At least a portion of the message is detected to determine the type of message, and if appropriate, additional time slot(s) are assigned.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 95/02134

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 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 H04B

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.
X, P	US, A, 5 446 739 (NAKANO ET AL.) 29 August 1995 see column 4, line 26 - line 33 see column 6, line 1 - line 34 see column 9, line 15 - column 10, line 3	1-4, 15, 16, 20, 21
X	& CA, A, 2 112 762 (KABUSHIKI KAISHA TOSHIBA) 7 July 1994 ---	1-4, 15, 16, 20, 21
A	EP, A, 0 399 611 (PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES LIMITED ET AL.) 28 November 1990 see column 5, line 39 - column 7, line 8 --- -/--	1-6, 11, 15-18, 20, 21

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 20 February 1996	Date of mailing of the international search report 01.03.96
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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 Behringer, L.V.
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 95/02134

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ICC '93 GENEVA. IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS '93, vol. 1, 23 - 26 May 1993 GENEVA CH, pages 172-176, XP 000371088 W.-C.WONG ET AL. 'Integrated data and speech transmission using packet reservation multiple access' see page 173, left column, line 29 - right column, line 35 <p style="text-align: center;">-----</p>	1,2,4,6, 7,12,15, 16,18-21

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 95/02134

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