

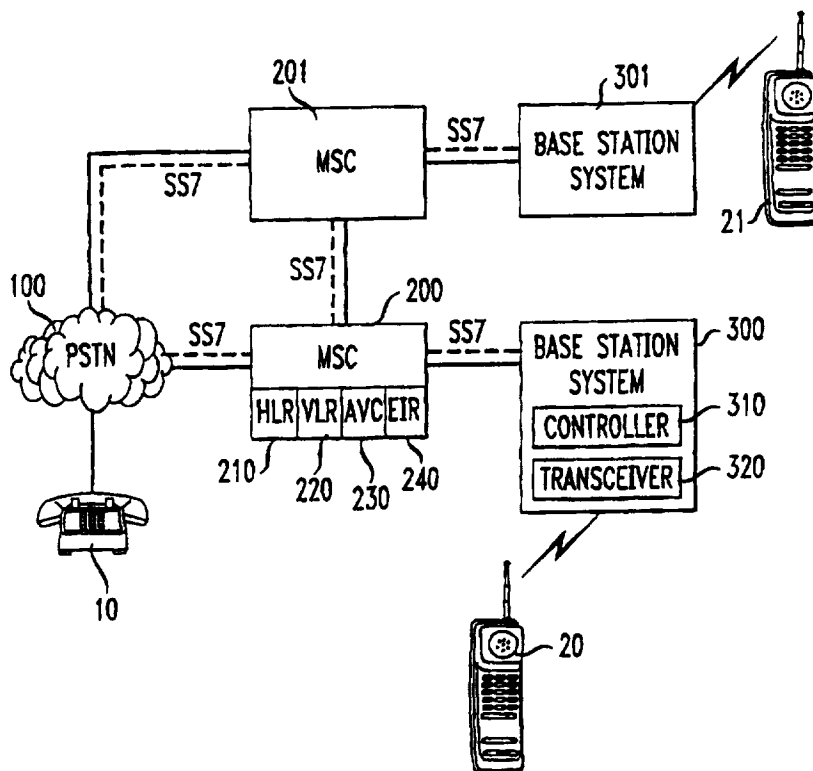


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(21) International Application Number: PCT/US97/12164 (22) International Filing Date: 11 July 1997 (11.07.97) (30) Priority Data: 08/688,626 29 July 1996 (29.07.96) US (71) Applicant: AT & T WIRELESS SERVICES, INC. [US/US]; 5000 Carillon Point, Kirkland, WA 98033 (US). (72) Inventor: HOLMES, David, William, James; 2019 213th Avenue, N.E., Redmond, WA 98053 (US). (74) Agent: DWORETSKY, Samuel, H.; AT & T Corp., P.O. Box 4110, Middletown, NJ 07748-4110 (US).		(81) Designated States: BR, CA, JP, MX, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. 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: 19 March 1998 (19.03.98)

(54) Title: METHOD FOR ALLOCATING A MOBILE STATION TMSI**(57) Abstract**

A portion of the bits within an assigned Temporary Mobile Station Identification (TMSI) number are encoded based upon a subscriber's group classifications (i.e., classifications based on the user's characteristics, such as subscriber services and affiliation). When a mobile station user requests service in a visiting location, the user's service profile is accessed to determine the user's group classifications (if any). The mobile station is assigned a TMSI number according to the user's accessed service profile and a portion of bits associated with the TMSI number are encoded based on the identifiable user group classification. The length of the assigned TMSI number may be adjusted depending upon the particular application to maximize the number of TMSI numbers that may be transmitted in a single paging slot.



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INTERNATIONAL SEARCH REPORT

Intern al Application No
PCT/US 97/12164

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 04759 A (NOKIA TELECOMMUNICATIONS OY) 15 February 1996 see page 10, line 15 - page 14, line 35 ----	1, 12
A	US 4 972 460 A (SASUTA MICHAEL D) 20 November 1990 see column 2, line 67 - column 5, line 9 ----	1, 12
A	US 5 375 251 A (PFUNDSTEIN MATTHIAS) 20 December 1994 cited in the application see column 2, line 30 - column 3, line 15 see column 3, line 62 - column 4, line 13 ----- -/--	1, 12

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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