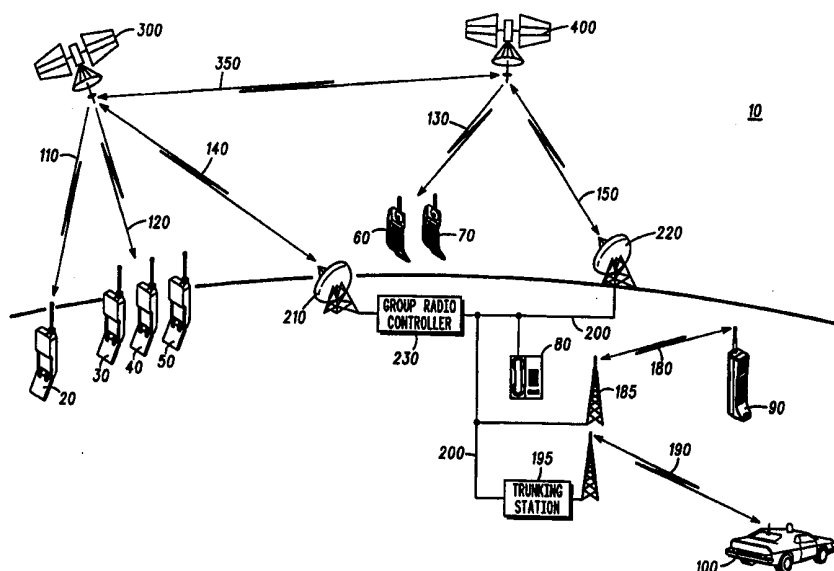




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US98/18564 (22) International Filing Date: 4 September 1998 (04.09.98) (30) Priority Data: 08/923,582 4 September 1997 (04.09.97) US (71) Applicant: MOTOROLA INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US). (72) Inventors: BLANCHARD, Scott, David; 2747 South Davis, Mesa, AZ 85210 (US). VANDEN HEUVEL, Dean, Paul; 3295 S. Oleander Drive, Chandler, AZ 85248 (US). DANKERT, Paul, Frederick; 1897 W. Pinion Court, Gilbert, AZ 85233 (US). ADAMS, Mark, Denis; 7245 Saint Lucia Court, Mannassas, VA 20109 (US). (74) Agents: INGRASSIA, Vincent, B. et al.; Motorola Inc., Intellectual Property Dept., P.O. Box 10219, Scottsdale, AZ 85271-0219 (US).		(81) Designated States: CA, CN, DE, FI, GB, JP, 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: 27 May 1999 (27.05.99)

(54) Title: DYNAMIC GROUP RADIO USING EXISTING TELEPHONY INFRASTRUCTURE



(57) Abstract

A group radio system (10) uses a group radio controller (230) to connect and manage remote units (20-100) through a wireline switched telephony network. The group radio controller receives voice or data from any of the remote units and repeats this to the others who are connected to the group channel. The group radio controller also assigns remote units in communication with the group channel via satellites (300, 400) and other remote units also in communication with the group channel via a terrestrial cellular host network (90) to be anchor radios. The use of anchor radios for these types of users significantly lowers the cost to the group for this type of global radio service.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/18564

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/28

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.
X A	WO 86 03635 A (MOTOROLA INC) 19 June 1986 see abstract see page 1, line 30 - page 2, line 11 see page 3, line 10-35 see page 5, line 13-25 see page 7, line 21-29 see figure 1 see claims ---	1,6 2-5,7,8
X A	US 5 650 995 A (KENT JAMES S) 22 July 1997 see abstract see column 1, line 32 - column 2, line 12 see column 2, line 46 - column 3, line 19 see figures 1,2 --- -/--	7 8

☒ 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

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	<p>US 5 058 199 A (GRUBE GARY W) 15 October 1991 see abstract see column 1, line 22-40 see column 2, line 3-20 see column 3, line 13-47 see column 5, line 1-45 see claims</p> <p style="text-align: center;">---</p>	9,10
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