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(74) Agent: **BIGEL, Mitchell, S.**; Myers Bigel Sibley & Sajovec, P.O. Box 37428, Raleigh, NC 27627 (US).

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(71) Applicant (*for all designated States except US*): **MOBILE SATELLITE VENTURES, LP** [US/US]; 10802 Parkridge Boulevard, Reston, VA 20191-5416 (US).

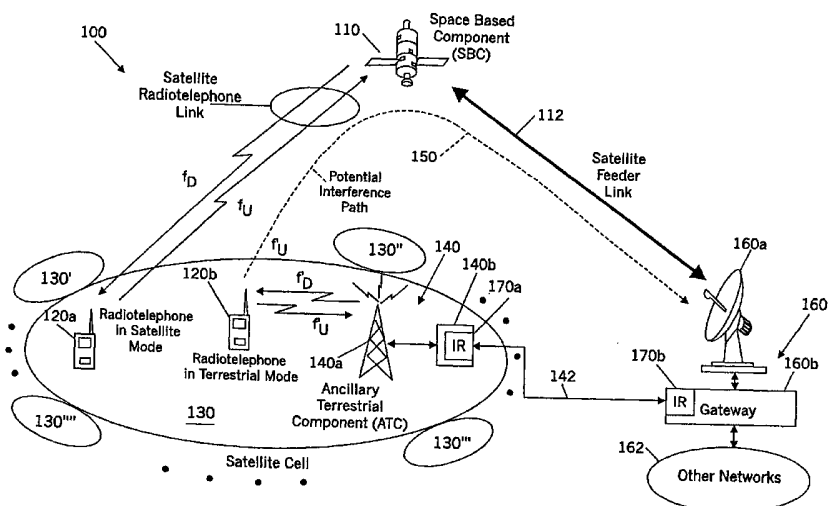
(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **KARABINIS, Peter**, Published:  
D. [US/US]; 101 Chalon Drive, Cary, NC 27511 (US).

— with international search report

[Continued on next page]

(54) Title: MULTI-BAND/MULTI-MODE SATELLITE RADIOTELEPHONE COMMUNICATIONS SYSTEMS AND METHODS



(57) Abstract: Satellite radiotelephone systems and communications methods include a space-based component (110) that is configured to communicate with radiotelephones (120q, 120b) in a satellite footprint that is divided into satellite cells. The space-based component is configured to communicate with a first radiotelephone (120a) in a first satellite cell over a first frequency band and/or a first air interface, and to communicate with a second radiotelephone in the first or a second satellite cell over a second frequency band and/or a second air interface. An ancillary terrestrial network also is provided that is configured to communicate terrestrially with the first radiotelephone over substantially the first frequency band and/or substantially the first air interface, and to communicate terrestrially with the second radiotelephone over substantially the second frequency band and/or substantially the second air interface.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/26847

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04Q 7/20

US CL : 455/12.1, 13.3, 63, 427,428,429

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)

U.S. : 455/12.1, 13.3, 63, 427,428,429

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 practicable, 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	US 5,303,286 A (WIEDEMAN) 12 April 1994, see entire reference.	1, 7-9, 19, 25-27,
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A		2-6, 10-18, 20-24, 28-46
A	US 5,761,605 A (TAWIL et al) 02 June 1998, see entire reference.	1-46
A	US 6,169,878 B1 (TAWIL et al) 02 January 2001, see entire reference.	1-46

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

15 November 2002 (15.11.2002)

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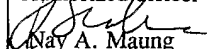
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Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

  
Nay A. Maung

Telephone No. 703-308-7745