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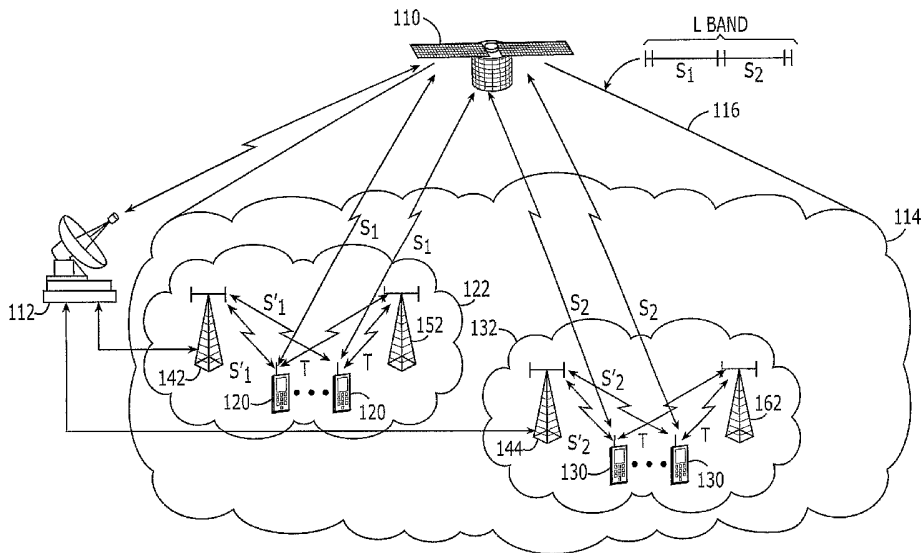
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(54) Title: A SATELLITE BASED COMMUNICATION SYSTEM HAVING MULTI FREQUENCY BANDS AND MULTI SPECTRUM REUSE SIZE



(57) Abstract: Satellite radioterminal communications systems, methods and components thereof, can use multiple frequency segments of at least one satellite frequency band, multiple air interfaces, multiple spectrum reuse cluster sizes and/or multiple geographic cell sizes. For example, a space-based component is configured to communicate with first radioterminals in first satellite cells over a first frequency segment of a satellite frequency band, such as a first frequency segment of a satellite L-band, and to communicate with second radioterminals in second satellite cells over a second frequency segment of the same or different satellite frequency band. The space-based component also may be configured to communicate with a first radioterminal over a first air interface and to communicate with the second radioterminals over a second air interface.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
H04B7/185

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)
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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/069936 A (INMARSAT LTD; DRAKOS, EVRIPIDES) 21 August 2003 (2003-08-21) figures 7,8,10	1-161
X	US 2003/054815 A1 (KARABINIS PETER D) 20 March 2003 (2003-03-20) paragraphs [0082] - [0085] figures 13,14	1-161

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See patent family annex.

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