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(71) Applicant (for all designated States except US): VIASAT, INC. [US/US], 6155 El Camino Real, Carlsbad, California 92009 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BECKER, Donald, W. [US/US], 6296 Camino del Pajaro, Rancho Santa Fe, California 92067 (US).

(74) Agents: CATMULL, Kelvin, B. et al, Townsend And Townsend And Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, California 94111-3834 (US).

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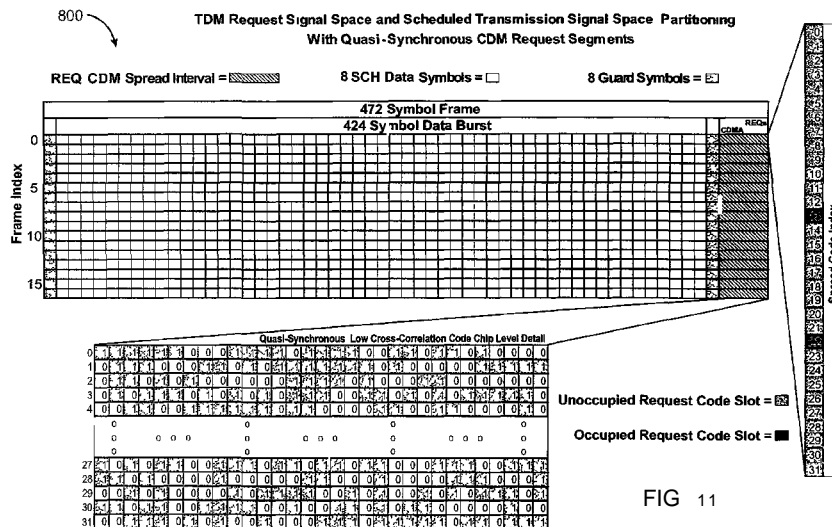


FIG 11

(57) Abstract: Methods and apparatuses are presented for conducting communications over a shared communication medium involving (a) sending a request from a first node, the shared communication medium organized to include (i) a request signal space including a plurality of request segments each having a different location within the request signal space and (ii) a scheduled transmission signal space including a plurality of scheduled transmission segments each having a different location within the scheduled transmission signal space, the request sent in a request segment, (b) obtaining an assignment associating the request with a scheduled transmission segment, (c) from the first node, sending a data transmission in the scheduled transmission segment associated with the request, and (d) wherein a collection of request segments in the plurality of request segments is separated by a guard zone from an adjacent collection of scheduled transmission segments in the plurality of scheduled transmission segments.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/053210

A. CLASSIFICATION OF SUBJECT MATTER
INV. 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 H04J

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	CHAN H C B ET AL: "A Dynamic Reservation Protocol for LEO Mobile Satellite Systems" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 22, no. 3, 1 April 2004 (2004-04-01), pages 559-573, XP011110206 ISSN: 0733-8716	5-7,9, 13,14, 19-21, 23,27,28
Y	page 567, left-hand column, paragraph 2 - paragraph 3; figures 1,2	1,10,15, 24
X	EP 1 526 655 A (GILAT SATELLITE NETWORKS LTD [IL]) 27 April 2005 (2005-04-27) paragraph [0034] - paragraph [0038] paragraph [0041]; figures 1,7 ----- -/--	5-7,9, 13,14, 19-21, 23,27,28

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

¹ A ¹ document defining the general state of the art which is not considered to be of particular relevance	¹ T ¹ 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
¹ E ¹ earlier document but published on or after the international filing date	¹ X ¹ 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
¹ L ¹ 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)	¹ Y ¹ 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.
¹ O ¹ document referring to an oral disclosure, use, exhibition or other means	¹ & ¹ document member of the same patent family
¹ P ¹ document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 14 July 2008	Date of mailing of the international search report 15/09/2008
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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 Pieper, Thomas
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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/053210

(^Continuation). -DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/080816 A1 (SPINAR BRIAN [US] ET AL) 27 June 2002 (2002-06-27) abstract; figure 4 paragraphs [0041], [0053], [0050] -----	1,10,15, 24
A	HABERLE H ET AL: "G2 - COMBINATIONS OF FREQUENCY, TIME AND SPACE DIVISION MULTIPLE ACCESS IN MULTITRANSPONDER SATELLITE COMMUNICATIONS" TELECOMMUNICATIONS NUMERIQUES PAR SATELLITE. PARIS, 28-30 NOVEMBRE 1972, DEUXIEME COLLOQUE; [COLLOQUE INTERNATIONAL SUR LES TELECOMMUNICATIONS NUMERIQUES PAR SATELLITE], PARIS, CHIRON, FR, vol. COLLOQUE 1972, 1 November 1972 (1972-11-01), pages 432-440, XP000807937 abstract; figures 4,5,7 -----	5-7,9, 13,14, 19-21, 23,27,28
A	EP 0 282 028 A (TOKYO SHIBAURA ELECTRIC CO [JP]) 14 September 1988 (1988-09-14) abstract; figure 2 page 3, line 21 - line 28 page 4, line 15 - line 40 page 5, line 10 - line 22 page 6, line 22 - line 26 page 7, line 4 - line 16 page 8, line 18 - line 23 page 9, line 51 - line 53 -----	5-7,9, 13,14, 19-21, 23,27,28
A	US 5 592 469 A (SZABO LASZLO [DE]) 7 January 1997 (1997-01-07) figure 2a column 4, line 24 - line 29 column 5, line 21 - line 41 column 6, line 1 - line 5 -----	1,10,15, 24
A	WO 93/15573 A (MILLICOM HOLDINGS UK LTD [GB]) 5 August 1993 (1993-08-05) abstract -----	6,20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/053210

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentoned in the claims; it is covered by claims Nos.:
1,5-7 ,9, 10, 13-15 ,19-21 ,23,24,27,28

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 5-7,9,13,14,19-21,23,27,28

Resource allocation on request taking into account the location of the request

1.1. claims: 1,10,15,24

Request segments are separated by guard zone from scheduled transmission segments

2. claims: 2,8,11,16,22,25

Dynamic allocation between request signal space and scheduled transmission signal space

3. claims: 3,4,12,17,18,26

Request segment is randomly selected

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2008/053210

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1526655 A	27-04-2005	NONE	
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