

PatBase - Search results 25 October 2019
Search query (7): fn=(74327810 or 71281911 or 31807629 or 57354244 or 68730862 or 69739037 or 71281911 or 74327810 or 32255549 or 23199216 or 34349766 or 34363547 or 41576205 or 42147554 or 31731465 or 54078868 or 55114131 or 55704577 or 42023700 or 57266547 or 59225620 or 61596464 or 61863861 or 62154146 or 59548111 or 65129883 or 68719526 or 23894777 or 1077341 or 3497926 or 4304620 or 8433715 or 30156110 or 15343678 or 24043650 or 12851641 or 10650590 or 8824493 or 28103003 or 8824496 or 11252247 or 15002311 or 15028429 or 23981160 or 16055841 or 11582480 or 30690525 or 32811423 or 48716175 or 58075603 or 48694478 or 65140097)
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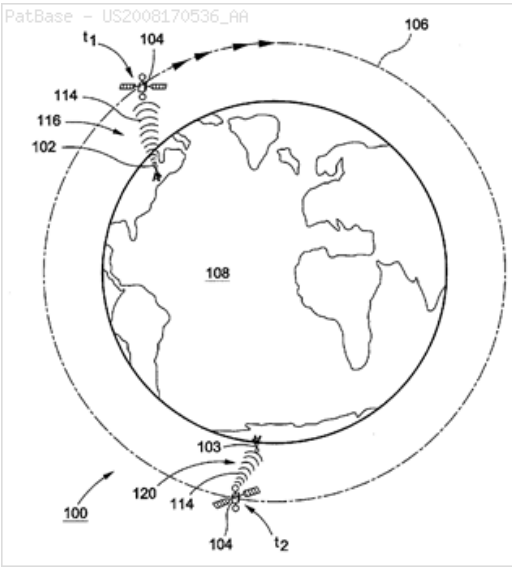
25) Family number: 42023700 (US2008170536A) © PatBase

Title: DYNAMIC ROUTING FROM SPACE

Abstract: A satellite communication network includes one or more satellites and multiple ground stations, or ground stations. An originating ground station receives an Internet communication, determines when a satellite will be within range, and transmits a stream of data packets including part or all of the communication to the satellite when in communication range. The satellite either forwards the data packets to another satellite, or determines when a destination ground station will be in sight and transmits the data packets to the destination ground station when in range.

Classifications:

International (IPC 8-9): G01R31/08 H04B7/185 H04B7/212
H04W40/20 (Advanced/Invention);
H04B7/185 (Core/Invention)
CPC: H04B7/18513 H04W40/20 H04B7/18521 H04B7/1858
European: H04B7/185F H04B7/185S4
US: 370/261 370/316 370/323



Family:

Publication number	Publication date	Application number	Application date
US2008170536 AA	20080717	US20080969720	20080104
US2014177522 AA	20140626	US20140194202	20140228
US8665777 BB	20140304	US20080969720	20080104
WO08088963 A1	20080724	WO2008US50405	20080107

Priority:

US20070884810P 20070112 US20080969720 20080104 US20140194202 20140228

Probable Assignee: DNA GLOBAL SOLUTIONS

Assignee(s): (std): DNA GLOBAL SOLUTIONS ; DNA GLOBAL SOLUTIONS LLC ; FELLOWS ANDREW ; LEOTERRA LLC ; MARSHACK DAVID ; MEHLMAN AMY ; NOZETTE STEWART ; TUDOR GEOFFREY

Inventor(s): (std): TUDOR GEOFFREY ; FELLOWS ANDREW ; MEHLMAN AMY ; NOZETTE STEWART ; MARSHACK DAVID

Agent(s): FISH AND RICHARDSON PC; WALTERS GREGORY A ET AL

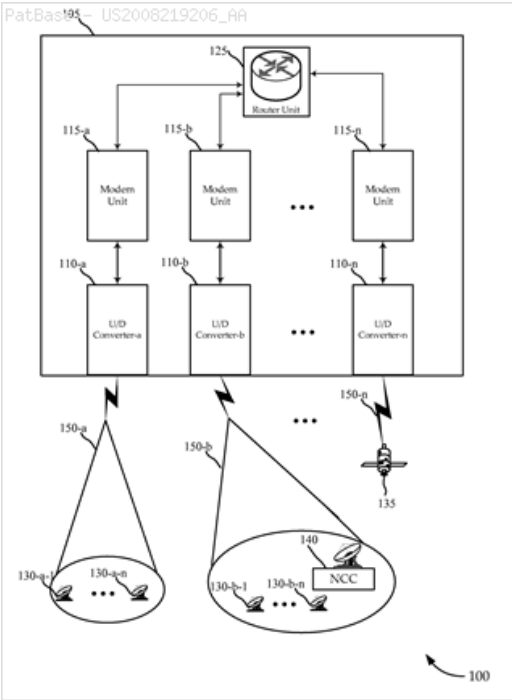
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26) Family number: 42147554 (US2008219206A) © PatBase

Title: DISTRIBUTION OF ROUTING TABLES FOR SATELLITE WITH REFERENCE TERMINAL FUNCTIONALITY

Abstract: Satellite communications systems, methods, and related devices are described. A satellite communications system may include routing and switching functionality onboard the satellite. Such a system may include a satellite in communication with terminals (e.g., subscriber terminals or gateways) either directly, or via one or more other satellites through an inter-satellite link. The satellite may be configured with different beams which each provide service to a coverage area. A ground-based network control center (NCC) may dynamically allocate bandwidth and process data measured on the satellite. A novel partition of functionality between the satellite and the NCC is described. Routing paths on the satellite, and the distribution of routing tables within the system, are described as well.

Classifications:
International (IPC 8-9): H04B7/185 H04J3/04 H04L12/26 H04L12/28 H04L12/56 H04Q7/22 (Advanced/Invention); H04H20/71 (Advanced/Non-invention); H04B7/185 H04L12/56 H04Q7/22 (Core/Invention)
CPC: H04B7/18528 H04B7/18584 H04B7/18589
European: H04B7/185J H04B7/185S12 H04B7/185S8
US: 370/252 370/316 370/316P 370/389 370/392 370/392P 370/535 455/3.01 455/428



Family:

Publication number	Publication date	Application number	Application date
CN101675606 A	20100317	CN200880014905	20080307
EP2132883 A2	20091216	EP20080743738	20080307
EP2132883 B1	20161005	EP20080743738	20080307
US2008219206 AA	20080911	US20080044742	20080307
US2008219266 AA	20080911	US20080044757	20080307
US2008220771 AA	20080911	US20080044713	20080307
US8159964 BB	20120417	US20080044742	20080307
US8159992 BB	20120417	US20080044757	20080307
WO08109860 A2	20080912	WO2008US56294	20080307
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Priority:
US20070893691P 20070308 US20080044713 20080307 US20080044742 20080307
US20080044757 20080307 WO2008US56294 20080307

Probable Assignee: VIASAT INC

Assignee(s): (std): AGARWAL ANIL ; HARIHARAN MOORTHY ; VIASAT INC
Assignee(s): WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL TRUSTEE AS ; UNION BANK NA

Inventor(s): (std): AGARWAL ANIL ; HARIHARAN MOORTHY ; MOORTHY HARIHARAN ; ANIL AGARWAL

Agent(s): GILL DAVID ALAN; SMITH JEREMY ROBERT; TOWNSEND AND TOWNSEND AND CREW LLP VIASAT INC
CLIENT 017018; KILPATRICK TOWNSEND AND STOCKTON LLP; DRAPKIN MICHAEL L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

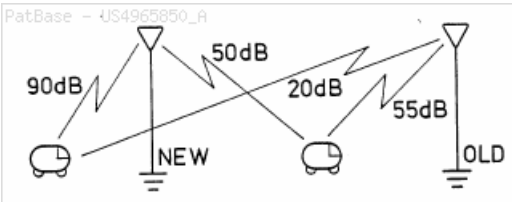
27) Family number: 4304620 (US4965850A)

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Title: System for and method of assigning frequencies in a communications system with no central control of frequency allocation

Abstract: A system for and method of assigning frequencies in a mobile telephone communication system wherein there is no central control of frequency channel allocations and wherein such assignment is made by real time signal comparisons without reference to geographical patterns.

Classifications:
International (IPC 8-9): H04W16/10 (Advanced/Invention)
International (IPC 1-7): H04Q7/00
CPC: H04W16/10 H04W72/0453 H04W72/082
European: H04W216/10 H04W8/026 T04W72/04H4 T04W72/08B
US: 455/33 455/450 455/452.2



Family:

Publication number	Publication date	Application number	Application date
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Priority:

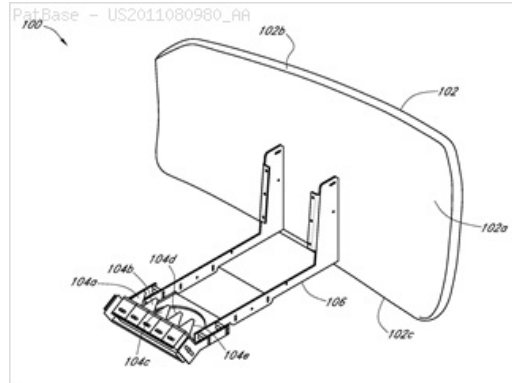
US19890299625 19890123

Probable Assignee: WIRELESS SPECTRUM TECHNOLOGY INC**Assignee(s):** (std): SCHLOEMER JERRY R**Assignee(s):** WIRELESS SPECTRUM TECHNOLOGY INC**Inventor(s):** (std): SCHLOEMER JERRY R**28) Family number: 48694478** (US2011080980A)

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Title: MULTI-FEED DIVERSITY RECEIVE SYSTEM AND METHOD

Abstract: Embodiments disclosed herein relate to diversity receive systems and methods. An antenna system may comprise a reflector and a plurality of feed antennas configured to receive a wireless signal from a common source with directional diversity. A receive system may comprise such antenna system in combination with a plurality of receivers and/or demodulators, and in combination with a combiner and/or controller.

Classifications:**International (IPC 8-9):** H01Q19/17 H01Q25/00 H01Q3/02 H01Q3/12 H01Q3/20 H01Q3/24 H01Q3/26 H04L27/06 (Advanced/Invention)**CPC:** H01Q3/245 H01Q3/2658 H01Q3/02 H01Q3/20 H01Q25/007**European:** H01Q25/00D7 H01Q3/24C H01Q3/26D**US:** 342/359 343/761 343/779 343/835 343/835S 343/882 343/915 375/340 375/340P**Family:**

Publication number	Publication date	Application number	Application date
US2011080980 AA	20110407	US20100874974	20100902
US2015249287 AA	20150903	US20150715386	20150518
US9035839 BB	20150519	US20100874974	20100902
US9537211 BB	20170103	US20150715386	20150518

Priority:

US20090275933P 20090903 US20100874974 20100902 US20150715386 20150518

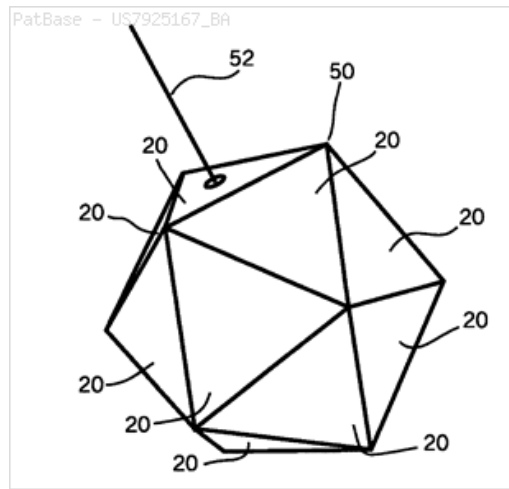
Probable Assignee: TROLL SYSTEMS CORP**Assignee(s):** (std): HOPKINS JEFF ; SCOTT JULIAN ; TROLL SYSTEMS CORP**Assignee(s):** UPSERVE INC ; SILICON VALLEY BANK COLLATERAL AGENT AS ; GOLUB CAPITAL MARKETS LLC**Inventor(s):** (std): HOPKINS JEFF ; SCOTT JULIAN**Agent(s):** EIP US LLP**29) Family number: 48716175** (US7925167B)

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Title: SATELLITE DOWNLINK VIA PATTERNS OF UNCOLLIMATED LIGHT

Abstract: A satellite or spacecraft in low Earth orbit, when in eclipse and not illuminated by sunlight, represents a low-bandwidth datastream through modulation of a source of uncollimated light, such as a set of light emitting diodes. Transmission modes include generating patterns in the color, intensity or polarization of a light source, or precise timing control of a strobe signal. A ground station tracks the satellite in a telescope, steering the telescope to follow the satellite as it moves across the sky, recording light generated by the satellite with a light sensor such as a video camera. The datastream is regenerated through analysis of recorded video. Satellite downlink is initiated by detection of eclipse, by command via radio uplink, or in response to a periodic automatic timer. In an alternative embodiment, the satellite represents the datastream through modulation of its effective albedo or reflective flux during periods of solar illumination.

Classifications:**International (IPC 8-9):** H04B10/00 (Advanced/Invention)**CPC:** H04B7/18513 H04B10/118**European:** H04B10/118 H04B7/185D2**US:** 398/118 398/121 398/124 398/125 398/128 398/130 455/12.1 455/3.02 455/427 455/452.1



Family:

Publication number	Publication date	Application number	Application date
US7925167 BA	20110412	US20070981419	20071031

Priority:

US20070981419 20071031

Probable Assignee: KOZUBAL MAREK J

Assignee(s): (std): KOZUBAL MAREK J ; SULLIVAN TERENCE SEAN

Inventor(s): (std): KOZUBAL MAREK J ; SULLIVAN TERENCE SEAN

30) Family number: 54078868 (US2013148250A)

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Title: MULTI-PURPOSE ELECTRICAL COIL AS A MAGNETIC FLUX GENERATOR, HEATER OR DEGAUSS COIL

Abstract: A method and system of using a common set of coils to provide at least two of magnetic flux, heat and degaussing in a mobile platform are provided. In accordance with one embodiment, the method involves oscillation of current in the coils at a frequency higher than a defined pointing requirement to provide heat. In accordance with another aspect, the coil functions as a degausser by energizing the coil with an oscillating current that decreases in amplitude over time.

Classifications:

International (IPC 8-9): B64G1/00 B64G1/24 B64G1/32 B64G1/50

H01F13/00 H01F38/00 H01F5/00 H05B3/00 (Advanced/Invention);

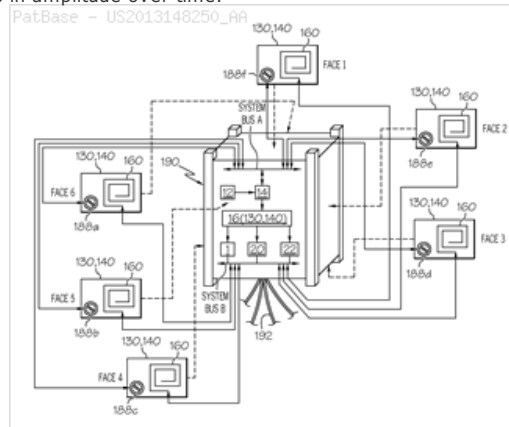
B64G1/26 G05D1/08 (Advanced/Non-invention)

CPC: B64G1/32 B64G1/50 B64G1/244 H01F5/003 H01F13/006 B64G1/26

US: 1/1 361/149

JP F-Term: 3D140

JP F-Index: B64G1/24/B



Family:

Publication number	Publication date	Application number	Application date
CN103165257 A	20130619	CN201210539459	20121213
CN103165257 B	20181218	CN201210539459	20121213
EP2604525 A2	20130619	EP20120195488	20121204
EP2604525 A3	20171122	EP20120195488	20121204
JP2013136375 A2	20130711	JP20120270295	20121211
JP6224318 B2	20171101	JP20120270295	20121211
US2013148250 AA	20130613	US20110324609	20111213
US9114891 BB	20150825	US20110324609	20111213

Priority:

US20110324609 20111213

Probable Assignee: BOEING CO

Assignee(s): (std): BROWN JEFFREY JACOB ; DAY CHRISTOPHER ALAN ; HAYS KENNETH MAXWELL ; BOEING CO

Assignee(s): BOEING CO THE ; THE BOEING COMPANY

Inventor(s): (std): BROWN JEFFREY JACOB ; HAYS KENNETH MAXWELL ; DAY CHRISTOPHER ALAN

Agent(s): MCLEISH NICHOLAS ALISTAIR MAXWELL; BOULT WADE TENNANT; THOMPSON HINE LLP
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

31) Family number: 55114131 (US2013293415A)

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Title: CORRECTING FOR TIME DELAY VARIATION IN A SATELLITE FOR POSITIONING, NAVIGATION OR TIMING APPLICATIONS

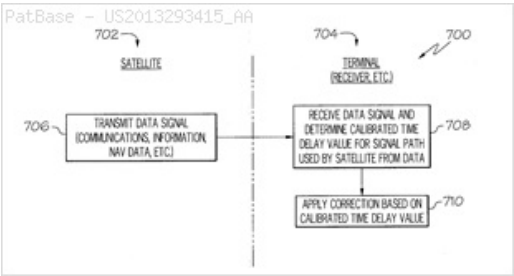
Abstract: A method for correcting for time delay variations between a plurality of signal paths from a signal source to at least one transmit antenna of a satellite may include measuring a time delay for each of the plurality of signal paths. The method may also include correcting a signal for the time delay variation based on the time delay for the signal path that is currently being used by the satellite, the corrected signal being usable for at least one of navigation, determining a geographic location and determining time.

Classifications:

International (IPC 8-9): G01S19/02 G01S19/07 G01S19/40 G01S19/42 G01S5/02 (Advanced/Invention)

CPC: G01S19/07 G01S5/021 G01S19/02 G01S19/40

US: 342/357.25



Family:

Publication number	Publication date	Application number	Application date
US2013293415 AA	20131107	US20120664115	20121030
US9612334 BB	20170404	US20120664115	20121030

Priority:

US20100949404 20101118 US20110114013 20110523 US20110556080P 20111104
US20120664115 20121030

Probable Assignee: BOEING CO

Assignee(s): (std): BOEING CO

Inventor(s): (std): GUTT GREGORY ; WHELAN DAVID A ; FYFE PETER M ; LASSA JAMES C

Agent(s): CHARLES L; MOORE AND VAN ALLEN PLLC

32) Family number: 55704577 (US2014027576A)

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Title: EARTH OBSERVATION CONSTELLATION METHODOLOGY AND APPLICATIONS

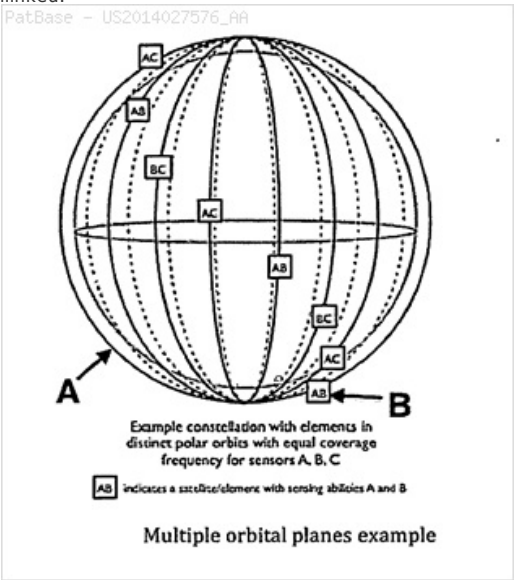
Abstract: The focus of this invention pertains to the methodology behind launching line-scanning satellite constellations that can image an entire planet such as the Earth at high temporal cadence (less than a week), at high spatial resolution (less than 10 m). Utilizing simple control and operation, our invention captures images of an entire planet in an effective and distributed manner. Additional benefits are realized by taking advantage of the distributed onboard storage and computing abilities of such a constellation to optimize the data collected, system latency, and data downlinked.

Classifications:

International (IPC 8-9): B64G1/10 (Advanced/Invention)

CPC: B64G1/1085 B64G2001/1028 B64G2001/245

US: 244/158.6



Family:

Publication number	Publication date	Application number	Application date
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Title: ADAPTIVE MODULATION IN A HYBRID VEHICLE COMMUNICATION SYSTEM

Abstract: Techniques for providing hybrid communications to devices on vehicles include using a selected modulation scheme on a forward link to deliver data (that is intended to be received by an on-board device) onto a vehicle, and using a reverse link in a different frequency band to send reverse data from the vehicle. Based on the reverse data, a subsequent pre-defined modulation scheme for a subsequent forward transmission is selected from a plurality of modulation schemes corresponding to a plurality of performance levels of data delivery. The selections may be based on a current geo-spatial location of the vehicle, a type of data, and/or on one or more other dynamic conditions. The forward data may be multiplexed and/or multicast. Thus, adaptive modulation is achieved in a hybrid communications system in which the forward link and the reverse link to the vehicle are supported by different wireless communication bands.

Classifications:

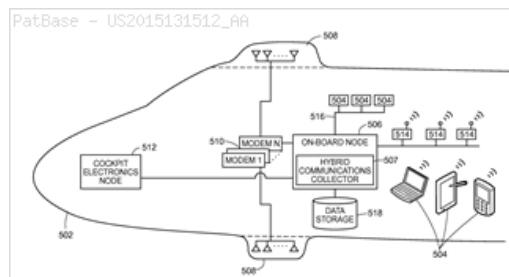
International (IPC 8-9): B64D47/00 H04B H04B7/00 H04B7/14 H04B7/155 H04B7/185 H04H20/71 H04L H04L1/00 H04L12/18 H04L27/00 H04L27/08 H04L29/06 H04L29/08 H04L5/14 H04M11/00 H04M3/00 H04W H04W16/26 H04W28/02 H04W28/08 H04W28/18 H04W4/00 H04W4/04 H04W4/06 H04W4/14 H04W4/40 H04W40/02 H04W48/16 H04W56/00 H04W72/00 H04W72/04 H04W76/02 H04W76/04 H04W84/00 H04W84/06 H04W88/02 (Advanced/Invention); H04L29/08 H04W40/02 H04W72/00 H04W72/04 H04W84/00 H04W84/06 H04W88/02 (Advanced/Non-invention)

CPC: H04L27/0008 H04W72/0453 H04L5/1453 H04W88/02 H04B7/14 H04W4/14 H04L65/60 H04W28/0268 H04W28/08 H04W84/06 H04L67/12 H04L5/14 H04L12/18 H04W4/06 H04W72/005 H04B7/18506 H04L1/0003 H04B7/18508 H04L12/189 H04W40/02 H04W84/005

US: 1/1 370/312 370/315 370/316 370/329 455/11.1 455/431

JP F-Term: 5K072 5K072/BB13 5K072/CC02 5K072/CC34 5K072/DD13 5K072/DD16 5K201 5K201/BB04 5K201/CA02 5K201/CA09 5K201/CB04 5K201/DA07 5K201/EA05 5K201/EA07 5K201/EA08 5K201/EC06 5K201/EC07 5K201/ED05 3D140 5K067 5K067/AA01 5K067/BB41 5K067/EE04 5K067/EE06 5K067/EE10 5K067/EE33 5K072/DD15 5K072/GG33 5K067/EE02 5K072/AA21 5K072/EE31 5K072/GG44 5K067/AA21 5K067/BB21 5K072/BB22 5K072/CC13 5K072/DD01 5K072/FF04 5K072/FF22 5K034 5K034/EE03 5K034/LL01 5K034/LL02 5K067/AA22 5K067/CC02 5K067/DD34 5K067/EE16 5K072/BB27 5K067/BB43 5K067/EE61

JP F-Index: H04B7/185 H04M11/00/302 H04M3/00/B B64D47/00 H04B7/155 H04W28/18/110 H04W4/00/111 H04W4/04/150 H04W4/40 H04W4/44 H04W84/00/110 H04W84/06 H04W48/16/130 H04W48/16/132 H04W48/16/133 H04W16/26 H04W76/02 H04W76/10 H04L13/00/307/A H04W76/04

**Family:**

Publication number	Publication date	Application number	Application date
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AU2017203203 AA	20170601	AU20170203203	20170512
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CN105706378 A	20160622	CN201480061088	20141110
CN105765881 A	20160713	CN201480061080	20141110
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CN105830489 A	20160803	CN201480068190	20141110
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US2016036517 AA	20160204	US20150876542	20151006
US2016205610 AA	20160714	US20160075032	20160318
US2016381519 AA	20161229	US20160150576	20160510
US2017195039 AA	20170706	US20170459709	20170315
US2018234165 AA	20180816	US20180945545	20180404
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WO15070145 A1	20150514	WO2014US64809	20141110
WO15070153 A2	20150514	WO2014US64826	20141110
WO15070153 A3	20150924	WO2014US64826	20141110

Priority:

US20130901634P	20131108	US20130901641P	20131108	US20130901644P	20131108
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CN201480068190	20141110	EP20140803306	20141110	EP20140808758	20141110
EP20140808760	20141110	EP20140835641	20141110	WO2014US64768	20141110
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US20150876542	20151006	US20160075032	20160318	US20160150576	20160510
JP20160228288	20161124	JP20160228302	20161124	HK20170101089	20170201
HK20170101124	20170202	US20170459709	20170315	AU20170203203	20170512
US20180945545	20180404				

Probable Assignee: GOGO LLC

Assignee(s): (std): GOGO CO LTD ; GOGO LLC

Assignee(s): GOGO LLC CHICAGO ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; MORGAN STANLEY SENIOR FUNDING INC ; MORGAN STANLEY SENIOR FUNDING INC COLLATERAL AGENT AS ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; N A ; US BANK NATIONAL ASSOCIATION

Inventor(s): (std): RUKMANI LOGANATHAN ; LOGANATHAN RUKMAIMI ; SAJIT SASI ; ADRIAN LAUER BRYAN ; RUKMAINI LOGANATHAN ; ANAND CHARI ; PATRICK J WALSH ; LOGANATHAN RUKMAINI ; WALSH PATRICK J ; BANGOLE PREMKUMAR ; WANG KATHY ; LAMARCA TONY ; KANABAR PARESH ; WALSH PAT ; SASI SAJIT ; CHARI ANAND ; LAUER BRYAN ADRIAN ; LOGANATHAN RUKMANI ; BRYAN ADRIAN LAUER ; PAT WALSH ; SASI SAJITI

Inventor(s): LOGANATHAN RUKMAINI BARTLETT ; PARESH KANABAR ; KATHY WANG ; TONY LAMARCA ; PREMKUMAR BANGOLE ; SAJITI SASI ; BANGOLE PREMKUMAR BLOOMINGDALE ; WANG KATHY BUFFALO GROVE ; KANABAR PARESH NAPERVILLE ; LAUER BRYAN ADRIAN HINCKLEY ; CHARI ANAND NAPERVILLE ; SASI SAJIT CHICAGO ; LAUER BRYAN ADRIAN HICKLEY ; LOGANATHAN RUKMANI BARTLETT ; WALSH PATRICK J NAPERVILLE

Agent(s): WRAYS PTY LTD ; BARDEHLE PAGENBERG PARTNERSCHAFT MBB PATENTANWAELTE RECHTSANWAELTE ; HAUPT CHRISTIAN ; WEGNER HANS ; DEACONS ; AXIS PATENT INT ; MARSHALL GERSTEIN AND BORUN LLP ;

RANDALL G; RUETH RANDALL G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

37) Family number: 59548111 (US2016365629A)

PatBase

Title: GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM

Abstract: The present application includes systems and methods for determining pointing error of a satellite antenna. In one aspect a method for determining pointing error of a satellite antenna includes receiving, at a receiving station, a pointing error signal formed by the antenna and transmitted from a satellite, wherein the pointing error signal includes a first beacon (reference) signal and a modulated second beacon (error) signal. The receiving station may demodulate the received pointing error signal to recover the second beacon signal with respect to the first beacon signal, and based at least in part on the demodulated beacon signal, the receiving station may determine the pointing error of the satellite antenna.

Classifications:

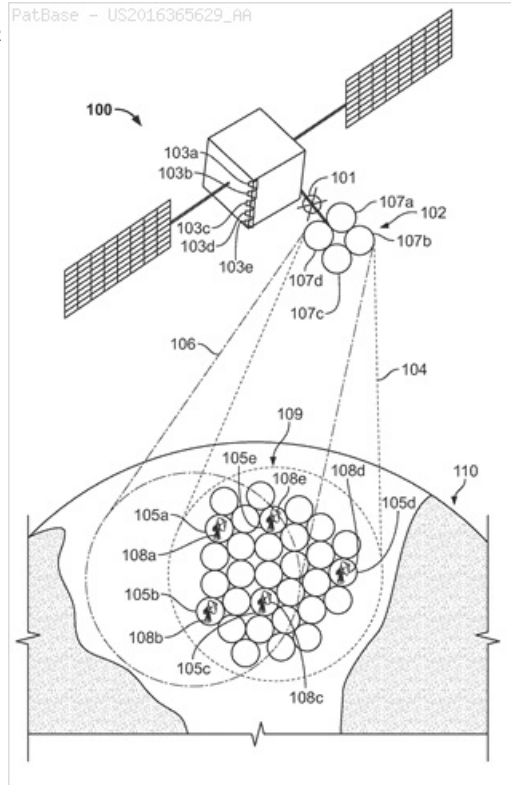
International (IPC 8-9): G01S19/13 H01Q H01Q1/12 H01Q1/28 H01Q3/02 H01Q3/08 H04B7/10 H04B7/185 (Advanced/Invention); H01Q1/28 (Advanced/Non-invention); H01Q (Subclass/Invention)

CPC: H01Q3/08 H04B7/18519 G01S19/13 H01Q1/288 H01Q1/1257 H04B7/2041

US: 1/1 342/355

JP F-Term: 5J021 5J021/AA01 5J021/AB07 5J021/BA01 5J021/DA02 5J021/GA02 5J021/HA05 5J021/JA10 5K159 5K159/CC04 5K159/EE02 5K159/FF02 5K159/GG01

JP F-Index: H01Q3/02 H04B7/10/A



Family:

Publication number	Publication date	Application number	Application date
CA2925575 AA	20160324	CA20142925575	20140926
EP3050154 A2	20160803	EP20140851452	20140926
IL244754 A0	20160531	IL20140244754	20140926
IN201617012119 A	20160826	IN201617012119	20160406
JP2016533657 T2	20161027	JP20160517525T	20140926
US2016365629 AA	20161215	US20140496071	20140925
US2018205147 AA	20180719	US20170853441	20171222
US9853356 BB	20171226	US20140496071	20140925
WO15088627 A2	20150618	WO2014US57623	20140926
WO15088627 A3	20150813	WO2014US57623	20140926

Priority:

US20130882690P 20130926 US20140496071 20140925 WO2014US57623 20140926
US20170853441 20171222

Probable Assignee: ORBITAL SCIENCES CORP

Assignee(s): (std): ORBITAL SCIENCES CORP

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS ; YAO HUIWEN ; CASE GEORGE ; ORBITAL ATK INC

Inventor(s): (std): YAO HUIWEN ; CASE GEORGE

Agent(s): SIM AND MCBURNEY; MARKS AND CLERK; ADARES PATENT U RECHTSANWALTE REININGER AND PARTNER; ONDA MAKOTO; ONDA HIRONORI; CHRISTENSEN FONDER DARDI AND HERBERT PLLC; INGERMAN JEFFREY H ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW

38) Family number: 61596464 (US2016037434A)

© PatBase

Title: CENTRALIZED GROUND-BASED ROUTE DETERMINATION AND TRAFFIC ENGINEERING FOR SOFTWARE DEFINED SATELLITE COMMUNICATIONS NETWORKS

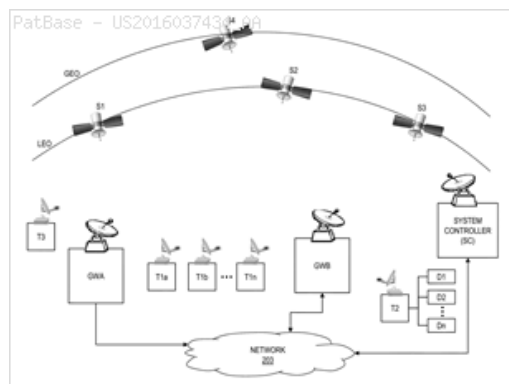
Abstract: Approaches are provided for an SDN that employs a satellite network nodes, where central L2 network nodes are controlled via a centralized Controller. Link status information is obtained regarding links of each L2 node. Global routing constraints, satellite ephemeris data, and resource allocation information are obtained. A constellation topology of the network nodes is determined based on the ephemeris data. Network routes between pairs of endpoints are determined. Each route includes links based on the link status information regarding the links, the global routing constraints, the bandwidth resources of the links and the current allocation of bandwidth resources, and/or the constellation topology. A forwarding table is generated for each network node, wherein each forwarding table includes route entries providing a next hop indicating a destination for data packets, wherein the destination is associated with a link of the respective network node that represents a link of a respective route.

Classifications:

International (IPC 8-9): H04B7/185 H04L12/721 H04L12/751 H04W40/02 H04W40/24 H04W72/04 (Advanced/Invention); H04L12/721 (Advanced/Non-invention)

CPC: H04W40/246 H04L45/02 H04B7/1851 H04W40/02 H04B7/18519 H04L45/124 H04W40/248

US: 370/316

**Family:**

Publication number	Publication date	Application number	Application date
DE602015021688 D1	20190103	DE201560021688T	20150803
EP3175647 A1	20170607	EP20150853936	20150803
EP3175647 A4	20180321	EP20150853936	20150803
EP3175647 B1	20181212	EP20150853936	20150803
US2016037434 AA	20160204	US20150817181	20150803
US9763167 BB	20170912	US20150817181	20150803
WO16069077 A1	20160506	WO2015US43508	20150803

Priority:

US20140032631P 20140803 EP20150853936 20150803 US20150817181 20150803
WO2015US43508 20150803

Probable Assignee: HUGHES NETWORK SYSTEMS LLC

Assignee(s): (std): HUGHES NETWORK SYSTEMS LLC

Assignee(s): HUGHES NETWORK SYSTEMS LLC GERMANTOWN ; US BANK NATIONAL ASSOCIATION ; WELLS FARGO BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; WELLS FARGO BANK NATIONAL ASSOCIATION TRUSTEE AND COLLATERAL AGENT AS

Inventor(s): (std): GOPAL RAJEEV ; RAVISHANKAR CHANNASANDRA

Inventor(s): RAVISHANKAR CHANNASANDRA CLARKSBURG ; GOPAL RAJEEV NORTH POTOMAC

Agent(s): MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; KOERFER THOMAS; POTOMAC TECHNOLOGY LAW LLC; PLASTRIK CRAIG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

39) Family number: 61863861 (US2016080072A)

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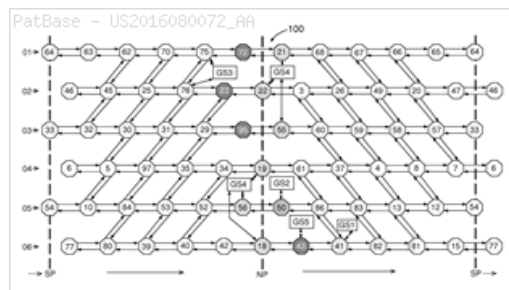
Title: SATELLITE COMMUNICATIONS NETWORKING

Abstract: A method of operating a satellite communication network is disclosed. The network includes a plurality of satellites interconnected by a plurality of satellite-to-satellite communication links. Each of the plurality of satellites is configured to communicate with at least one ground station using respective ground-satellite communication links. The method includes transmitting a routing table to each of the satellites. Each routing table has a list of destination satellites, and defines at least two possible routes leading to it. An alert message identifying a problem communication link is transmitted to a subset of the plurality of satellites. In response to receiving the alert message, subsequent data packets are routed through the communication network by the satellites using their respective routing table to avoid the problem communication link.

Classifications:

International (IPC 8-9): H04B7/185 H04W40/02 H04W40/14 (Advanced/Invention)

CPC: H04B7/18519 H04B7/18521 H04B7/18584 H04B7/18586



Family:

Publication number	Publication date	Application number	Application date
DE602014035034 D1	20181122	DE201460035034T	20140917
EP2999136 A1	20160323	EP20140290278	20140917
EP2999136 B1	20181031	EP20140290278	20140917
EP3442135 A1	20190213	EP20180195653	20140917
US2016080072 AA	20160317	US20150855998	20150916
US2018034537 AA	20180201	US20170727028	20171006
US2018034538 AA	20180201	US20170727170	20171006
US9787392 BB	20171010	US20150855998	20150916
US10250321 BB	20190402	US20170727028	20171006
US10361774 BB	20190723	US20170727170	20171006

Priority:

EP20140290278 20140917 EP20180195653 20140917 US20150855998 20150916
 US20170727028 20171006 US20170727170 20171006

Probable Assignee: IRIDIUM SATELLITE LLC

Assignee(s): (std): IRIDIUM COMM INC ; IRIDIUM SATELLITE LLC

Assignee(s): IRIDIUM SATELLITE LLC MCLEAN ; IRIDIUM COMMUNICATION INC

Inventor(s): (std): BAUDOIN CEDRIC ; BOUTILLON JEAN FRANCOIS

Agent(s): PRIORI ENRICO; BAKER BOTTS LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

40) Family number: 62154146 (US2016112117A)

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Title: SATELLITE OPERATING SYSTEM, ARCHITECTURE, TESTING AND RADIO COMMUNICATION SYSTEM

Abstract: A cubesat communication system implementing addressable data packet for transmitting information collected by the cubesat to one or more receive-only ground stations. The cubesat may transmit information to the receive-only ground stations according to a scheduler. The receive-only ground stations may receive information from the cubesat without sending any commands to the cubesat to prompt transmission and re-transmit to a central common station using a bent pipe streaming protocol. Information between the cubesat and the ground station may be transmitted via a connectionless, datagram network protocol.

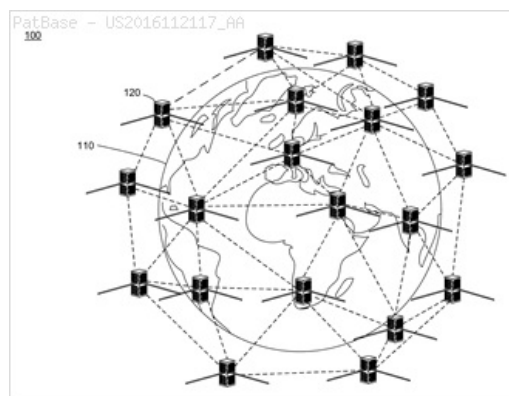
Classifications:

International (IPC 8-9): H04B1/00 H04B7/185 H04B7/195

H04W24/02 (Advanced/Invention)

CPC: H04B7/195 H04B7/18513 H04W24/02

US: 1/1 370/316



Family:

Publication number	Publication date	Application number	Application date
US2016112117 AA	20160421	US20140515142	20141015
US2017272150 AA	20170921	US20170611139	20170601
US9673889 BB	20170606	US20140515142	20141015
WO16060954 A2	20160421	WO2015US54906	20151009
WO16060954 A3	20160616	WO2015US54906	20151009

Priority:

US20140515142 20141015 US20170611139 20170601

Probable Assignee: NANOSATISFI INC

Assignee(s): (std): SPIRE GLOBAL INC ; SPIRE GLOBE INC
Assignee(s): NANOSATISFI INC
Inventor(s): (std): PLATZER PETER ; SPARK JOEL ; TRUTNA JESSE ; CAPPAERT JEROEN
Agent(s): TROUTMAN SANDERS; BOLLINGER JAMES MOORE ET AL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

41) Family number: 65129883 (US2017070939A)

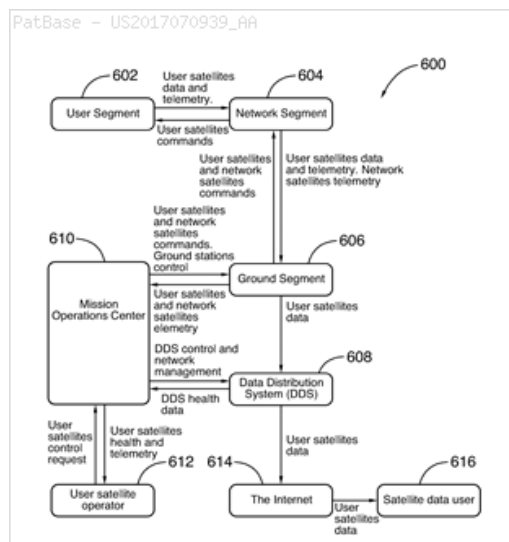
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Title: SYSTEM AND METHOD FOR PROVIDING CONTINUOUS COMMUNICATIONS ACCESS TO SATELLITES IN GEOCENTRIC, NON-GEOSYNCHRONOUS ORBITS

Abstract: A system including a constellation of satellites in Low Earth Orbit and a plurality of ground stations to enable continuous communication for other geocentric, non-geosynchronous spacecraft. Network latency, Doppler effects, and router handover time are minimized through selection of orbital parameters for the satellite constellation and locations of ground stations. A plurality of polar or near polar orbit planes is presented at equally spaced right ascension of the ascending node (RAAN), in an alternative ascending-descending pattern. Inter-satellite communication is performed in-plane to relay data to a ground station, and out-of-plane or in-plane to communicate with another satellite that is not a member of the constellation. The number and location of ground stations is selected based on the number of small satellites and orbital planes in order to maintain continuous communications. The system can enable continuous communication for geocentric satellites without the need for line-of-sight access to a ground station.

Classifications:

International (IPC 8-9): H04W36/32 H04W36/36 (Advanced/Invention)
CPC: H04W36/36 H04W36/32 H04B7/1851 H04L2012/6421 H04W84/06 H04B7/18513 H04B7/195 H04B7/18521
US: 1/1 455/428



Family:

Publication number	Publication date	Application number	Application date
US2017070939 AA	20170309	US20160258528	20160907

Priority:

US20150215312P 20150908 US20160258528 20160907

Probable Assignee:

KEPLER COMMUNICATIONS INC

Assignee(s): (std):

KEPLER COMMUNICATIONS INC

Inventor(s): (std):

MITRY MINA ; CHONG WEN CHENG

42) Family number: 65140097 (US9595989B)

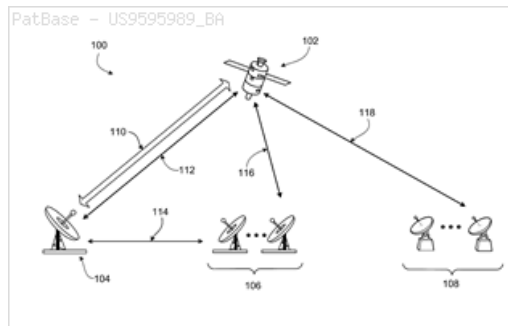
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Title: RAIN FADE MITIGATION IN A SATELLITE COMMUNICATIONS SYSTEM

Abstract: A beam plan that defines beams generated by a satellite that satisfy a set of communication service requirements is obtained. Fade condition information that indicates an amount of fade at particular geographic areas for one or more of the beams is obtained. A modification to the beam plan that mitigates the amount of fade at the particular geographic areas for the one or more of the beams is determined. The beam plan is modified based on the determined modification.

Classifications:

International (IPC 8-9): H04B1/12 H04B7/06 H04B7/185 H04W72/04 H04W72/06 (Advanced/Invention); H04B7/185 H04W72/04 H04W84/06 (Advanced/Non-invention)
CPC: H04B1/12 H04B7/185 H04W72/04 H04W72/046 H04B7/0617 H04W72/06 H04W84/06 H04B7/18519 H04B7/2041 H04B7/18513 H04W72/0453 H04B7/1851



Family:

Publication number	Publication date	Application number	Application date
US9595989 BA	20170314	US20140194085	20140228
US9680559 BA	20170613	US20130841572	20130315
US9748989 BA	20170829	US20140194085	20140228
US9985706 BA	20180529	US20150816276	20150803
US10004073 BA	20180619	US20150816309	20150803

Priority:

US20120697143P 20120905	US20130770392P 20130228	US20130841572 20130315
US20140194085 20140228	US20150816276 20150803	US20150816309 20150803

Probable Assignee: RKF ENGINEERING SOLUTIONS LLC

Assignee(s): (std): RKF ENG SOLUTIONS LLC

Assignee(s): RKF ENGINEERING SOLUTIONS LLC

Inventor(s): (std): FREEDMAN JEFFREY ; BERMAN ARNOLD ; KAPLAN TED ; MARKLEY SCOTT CONRAD ; HALVORSON ERIK ; MARSHACK DAVID ; MANDELL MICHAEL ; SIPOS BRIAN

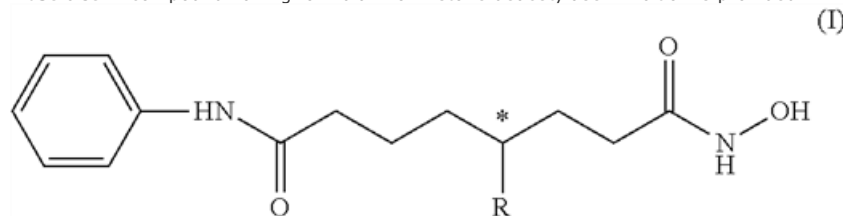
Agent(s): FISH AND RICHARDSON PC

43) Family number: 68719526 (US2018057448A)

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Title: STRUCTURAL REQUIREMENTS OF HISTONE DEACETYLASE INHIBITORS: C4-MODIFIED SAHA ANALGS DISPLAY DUAL HDAC6/HDAC8 SELECTIVITY

Abstract: A compound having formula I for histone deacetylase inhibition is provided:



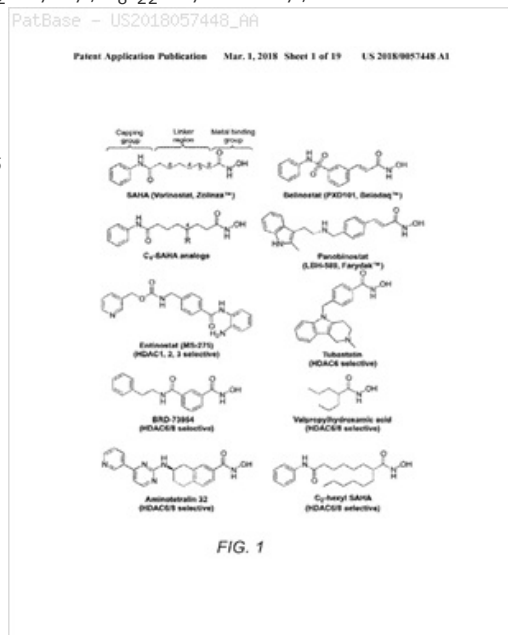
or hydrate thereof wherein R is alkyl, C₆₋₁₈ aryl, C₅₋₁₈ heteroaryl, C₈₋₂₂ alkylaryl, C₈₋₂₂ alkylheteroaryl, or halo.

Classifications:

International (IPC 8-9): A61K31/167 A61P35/00 A61P35/02 B64G1/10 B64G1/22 B64G1/24 B64G1/40 B64G1/44 B64G1/54 B64G1/58 C07C259/06 F03H1/00 G01S19/25 G01S19/39 H04B7/185 H04W84/06 (Advanced/Invention)

CPC: C07C259/06 G01S13/90 G01S19/39 H04B7/18513 B64G1/1021 B64G1/425 B64G1/443 B64G1/66 B64G2001/1028 B64G2001/1035 H04B7/195 A61P35/00 H04B7/18534 H04W84/06 G01S19/254 B64G1/405 B64G1/1085 B64G1/242 G01S13/88 F03H1/0012 B64G1/10 B64G1/22 B64G1/24 B64G1/40 B64G1/44 B64G1/54 B64G1/58 G01S19/25 H04B7/1851 H04B7/18515

US: 1/1 244/171.1 342/352 342/357.78 514/575



Family:

Publication number	Publication date	Application number	Application date
US2018057448 AA	20180301	US20170686794	20170825
US2018155067 AA	20180607	US20170439533	20170222
US2018156924 AA	20180607	US20180868794	20180111
US2018159617 AA	20180607	US20180868812	20180111
US2019016672 AA	20190117	US20180129210	20180912
US10259779 BB	20190416	US20170686794	20170825
US10351267 BB	20190716	US20170439533	20170222
WO18147925 A1	20180816	WO2017US64712	20171205
WO19140156 A1	20190718	WO2019US13149	20190111
WO19140159 A1	20190718	WO2019US13153	20190111

Priority:

US20160380051P 20160826 US20160430727P 20161206 US20170439533 20170222
US20170686794 20170825 US20180868794 20180111 US20180868812 20180111
US20180129210 20180912

Probable Assignee: SKEYEON INC

Assignee(s): (std): SKEYEON INC ; UNIV WAYNE STATE

Assignee(s): WAYNE STATE UNIV

Inventor(s): (std): PFLUM MARY KAY ; REEDY RONALD E ; SCHWARTZENTRUBER THOMAS E ; REEDY RONALD ; SCHWARTZENTRUBER THOMAS ; NOBBE DAN

Agent(s): BROOKS KUSHMAN PC; MCANDREWS HELD AND MALLOY LTD; MARRONE MATTHEW; MARRONE MATTHEW E

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

44) Family number: 68730862 (US2019109634A)

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Title: RADIO SYSTEM USING SATELLITES

Abstract: A radio communication route enables communication from an originating ground station to a destination ground station via one of multiple randomly orbiting satellites with no attitude control. The ground stations and satellites include directional antennas for receiving radio signals from and transmitting radio signals in multiple directions. The satellites store an address of a destination ground station from which an initial information signal is transmitted and antenna information identifying the satellite antenna on which the initial information signal was received. Plural satellite antennas transmit linking information identifying the satellite to the originating ground station. Data transmissions received at the originating ground station that designate a particular destination are retransmitted by the originating ground station using the antenna on which the linking information was received and the satellite retransmits the data transmission using the satellite antenna identified by the stored antenna information.

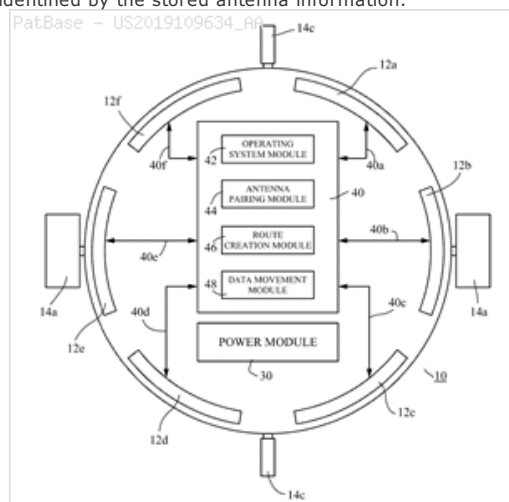
Classifications:

International (IPC 8-9): H04B H04B7/185 H04W4/00 H04W40/12 H04W40/24 (Advanced/Invention)

CPC: H04B7/18513 H04B7/18515 H04B7/1856 H04B7/18584

H04B7/18593 H04W40/12 H04W40/246

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
AU2017316680 AA	20190404	AU20170316680	20170823
CA3032969 AA	20190204	CA20173032969	20170823
CN109644044 A	20190416	CN201780051920	20170823
CO20190001996 A2	20190308	CO20190001996	20190228
EP3504808 A1	20190703	EP20170844319	20170823
IL264883 A0	20190430	IL20170264883	20170823
JP2019528617 T2	20191010	JP20190507247T	20170823
MX2019002124 A1	20190516	MX20190002124	20170823
PH2019550023 A	20190603	PH20190550023	20190208
SG11201900774Q A1	20190328	SG20191100774	20170823
US2019109634 AA	20190411	US20180109806	20180823
US2019229800 AA	20190725	US20170320106	20170823

US10084536 BA	20180925	US20170656111	20170721
US10447381 BB	20191015	US20170320106	20170823
WO18039292 A1	20180301	WO2017US48110	20170823
ZA201900468 A	20190925	ZA20190000468	20190123

Priority:

US20160379601P 20160825 US20160396181P 20160918 US20170656111 20170721
WO2017US48110 20170823 US20170320106 20170823 US20180109806 20180823

Probable Assignee: STAR MESH LLC

Assignee(s): (std): SCHLOEMER GERALD R ; STAR MESH LLC

Assignee(s): GERALD R SCHLOEMER

Inventor(s): (std): GERALD R SCHLOEMER ; SCHLOEMER GERALD ; SCHLOEMER GERALD R

Agent(s): FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; FDST PATENTANWALTE; QUINLAN PC DAVID M; QUINLAN DAVID M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

45) Family number: 69739037 (US2018139074A)

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Title: HANDOVER METHOD AND CONTROL TRANSFER METHOD

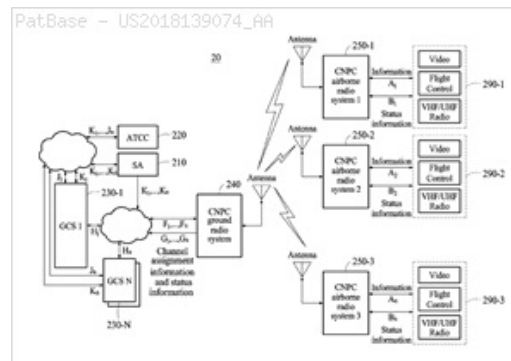
Abstract: A handover method and a control transfer method are provided. A handover method of performing an inter-cell handover between a first ground station and a second ground station may include setting a first channel to the second ground station, measuring, by an airborne radio station, a second channel and reporting a measurement result to the first ground station, sending, by the first ground station, a handover request to at least one of a ground control station (GCS) or a control and non-payload communication (CNPC) network, determining, by the at least one of the GCS or the CNPC network, whether to perform a handover, and transmitting, by the at least one of the GCS or the CNPC network, a handover instruction to the airborne radio station based on a result of the determining.

Classifications:

International (ipc 8-9): H04B7/185 H04L12/54 H04W24/10 H04W36/08 H04W36/16 H04W36/28 H04W36/30 H04W36/38 H04W72/04 H04W84/04 H04W84/06 (Advanced/Invention)

CPC: H04L12/56 H04W36/28 H04W72/0406 H04W36/16 H04W84/045 H04W36/38 H04W24/10 H04W36/30 H04W84/06 H04B7/185 H04W36/08

US: 1/1 455/428



Family:

Publication number	Publication date	Application number	Application date
KR20180054391 A	20180524	KR20160175372	20161221
US2018139074 AA	20180517	US20170607889	20170530
US2019013969 AA	20190110	US20180104467	20180817
US10084615 BB	20180925	US20170607889	20170530

Priority:

KR20160150893 20161114 KR20160175372 20161221 US20170607889 20170530
US20180104467 20180817

Probable Assignee: ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST

Assignee(s): (std): ELECTRONICS AND TELECOMMUNICATIONS RES INST ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST KOREA

Assignee(s): ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST

Inventor(s): (std): KIM HEE WOOK ; HONG TAE CHUL ; LIM KWANG JAE

Agent(s): WILLIAM PARK AND ASSOCIATES LTD

46) Family number: 71281911 (US2019104462A)

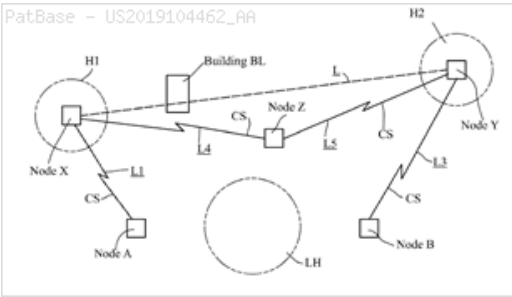
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Title: RADIO SYSTEM USING NODES WITH HIGH GAIN ANTENNAS

Abstract: A radio communication route enables communication from an originating ground station to a destination ground station via one of multiple randomly orbiting satellites with no active attitude control. The ground stations and satellites include multi-feed parabolic antennas for receiving radio signals from and transmitting radio signals in multiple directions. The satellites store an address of a destination ground station from which an initial information signal is transmitted and antenna information identifying the satellite antenna feed on which the initial information signal was received. Plural satellite antennas transmit linking information identifying the satellite to the originating ground station. Data transmissions received at the originating ground station that

designate a particular destination are transmitted by the originating ground station using the antenna on which the linking information was received and the satellite retransmits the data transmission using the satellite antenna feed identified by the stored antenna information.

Classifications:
International (IPC 8-9): G01R31/08 H01Q1/28 H04B7/185 H04L12/26 H04W16/28 H04W40/12 H04W40/24 H04W40/26 (Advanced/Invention); H01Q1/28 H01Q15/14 (Advanced/Non-invention)
CPC: H04B7/18515 H04B7/18519 H04W40/12 H01Q1/288 H01Q15/14 H04L43/0847 H04L43/18 H04W16/28
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019104462 AA	20190404	US20180110538	20180823
US10085200 BA	20180925	US20170719611	20170929
WO19067651 A1	20190404	WO2018US53002	20180927

Priority:

US20170719611 20170929 US20180110538 20180823

Probable Assignee: STAR MESH LLC

Assignee(s): (std): STAR MESH LLC

Inventor(s): (std): SCHLOEMER GERALD R ; SCHLOEMER GERALD

Agent(s): QUINLAN PC DAVID M; QUINLAN DAVID M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

47) Family number: 74327810 (US2019181947A)

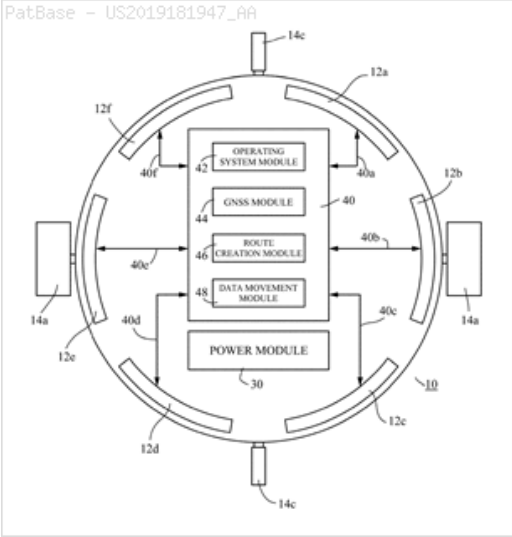
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Title: DATA TRANSMISSION SYSTEMS AND METHODS USING SATELLITE-TO-SATELLITE RADIO LINKS

Abstract: Radio communications systems use 100 to 200 satellites in random low-earth orbits distributed over a predetermined range of north and south latitudes. The satellites themselves create a radio route between ground stations via radio links between multiple satellites by virtue of onboard global navigation satellite system circuitry for determining the location of the satellite and route creation circuitry for calculating in real time the direction from the satellite's location at a particular instant to a destination ground station. Directional antennas in the satellites transmit routing radio signals to enhance the probability of reception by other satellites. One embodiment facilitates the creation of satellite-to-satellite links by assigning each satellite a unique identifier, storing orbital information defining the locations of all of the orbiting satellites in the system at any particular time, and including in the radio signal the unique identifier associated with the transmitting satellite.

Classifications:

International (IPC 8-9): G01S19/06 H04B7/185 H04B7/195 H04W40/20 (Advanced/Invention)
CPC: H04B7/18556 G01S19/06 H04B7/18519 H04B7/18521 H04B7/18554 H04B7/18584 G01S19/14
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019181947 AA	20190613	US20190252877	20190121
US10291316 BA	20190514	US20180034413	20180713
WO19118245 A1	20190620	WO2018US64041	20181205

Priority:

US20170596928P 20171211 US20180034413 20180713 US20190252877 20190121

Probable Assignee: STAR MESH LLC

Assignee(s): (std): STAR MESH LLC

Inventor(s): (std): SCHLOEMER GERALD R

Agent(s): DAVID M QUINLAN PC; QUINLAN DAVID M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

48) Family number: 8433715 (US5274840A)

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Title: Satellite communication system

Abstract: A selective call receiver transmission system for transmitting a message to at least one selected selective call receiver of a plurality of selective call receivers comprises a transmitter for transmitting information including the message thereto. At least one satellite receives the information and transmits the message to the selective call receiver and subsequently retransmits the message from a different location to the selective call receiver.

Classifications:

International (IPC 8-9): H04B7/185 H04B7/195 H04Q7/08

H04W84/02 (Advanced/Invention);

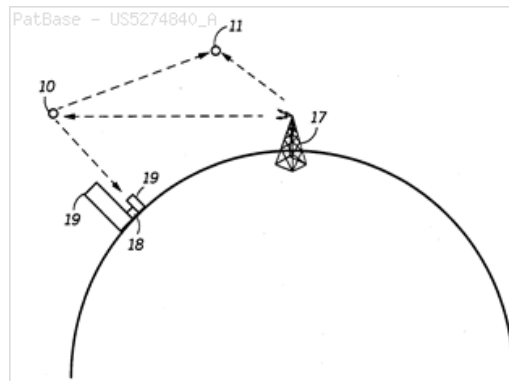
H04B7/195 H04W84/02 (Advanced/Non-invention);

H04B7/185 H04B7/195 H04W84/02 (Core/Invention)

International (IPC 1-7): H04B7/02 H04B7/185 H04B7/195 H04B7/26 H04Q7/02

CPC: H04B7/18521 H04W84/022

US: 455/13.1 455/331 455/517 455/541



Family:

Publication number	Publication date	Application number	Application date
AT123365 E	19950615	AT19900916632T	19901022
AU199067129 A1	19910531	AU19900067129	19901022
AU649426 B2	19940526	AU19900067129	19901022
CA2053597 AA	19930417	CA19912053597	19911016
CA2053597 C	19950822	CA19912053597	19911016
DE69019825 D1	19950706	DE19906019825	19901022
DE69019825 T2	19951221	DE19906019825T	19901022
DK0466843 T3	19950717	DK19900916632T	19901022
EP0466843 A1	19920122	EP19900916632	19901022
EP0466843 A4	19920429	EP19900916632	19901022
EP0466843 B1	19950531	EP19900916632	19901022
ES2073040 T3	19950801	ES19900916632T	19901022
HK99997 A	19970808	HK19970000999	19970626
US5274840 A	19931228	US19910783726	19911028
WO9107025 A1	19910516	WO1990US06043	19901022

Priority:

US19890432269 19891106 WO1990US06043 19901022 CA19912053597 19911016
US19910783726 19911028

Probable Assignee: MOTOROLA INC

Assignee(s): (std): MOTOROLA INC

Assignee(s): MOTOROLA INC SCHAUMBURG ILL US ; SCHWENDEMAN ROBERT JOSEPH

Inventor(s): (std): SCHWENDEMAN ROBERT J ; SCHWENDEMAN ROBERT JOSEPH ; SCHWENDEMAN ROBERT

Inventor(s): ROBERT J SCHWENDEMAN ; SCHWENDEMAN ROBERT J POMPANO BEACH FL 33060 US

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IT JP KR LI LU NL NO SE

49) Family number: 8824493 (US5757784A)

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Title: Usage-based billing system for full mesh multimedia satellite network

Abstract: A satellite communications system is provided for full mesh connectivity between a number of earth terminals via a satellite link. The earth terminals are connected to user access devices to receive and transmit voice, video and data and are operable to generate bursts to transmit user data via a satellite, and to process data received from the satellite and transmit it to the addressed user access devices. The terminals each comprise a programmable computing device which organizes bursts in at least one of a plurality of slots constituting a time division multiple access frame in accordance with a burst plan. Billing is based

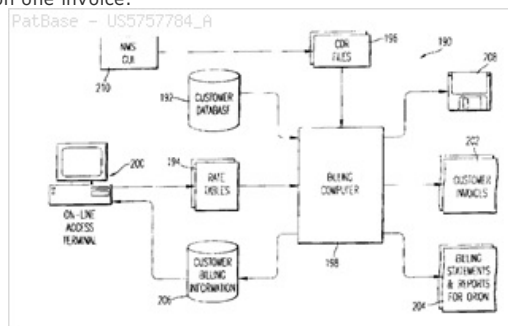
Classifications:

International (IPC 1-7): H04B7/155 H04B7/212 H04M15/32

CPC: H04B7/18523 H04B7/18578

European: H04B7/185H H04B7/185S

US: 370/321 370/345 370/442 379/112 379/114 379/114.01 379/114.06
379/114.07



Family:

Publication number	Publication date	Application number	Application date
AU199718234 A1	19970801	AU19970018234	19970102
US5757784 A	19980526	US19960582750	19960104
WO9725785 A1	19970717	WO1997US00115	19970102

Priority:

US19960582750 19960104 WO1997US00115 19970102

Probable Assignee: ORION ATLANTIC LP

Assignee(s): (std): ORION ATLANTIC L P

Assignee(s): ORION ATLANTIC LP ; MORGAN STANLEY AND CO INC

Inventor(s): (std): SWEENEY STEVEN : LIEBOWITZ BURT

Designated states: AL AM AT AU AZ BB BE BF BG BR BY CA CH CN CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG
KP KR KZ LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR
TT UA UG UZ VN

50) Family number: 8824496 (US5812545A)

Title: Full mesh satellite-based multimedia networking system

Abstract: A satellite communications system is provided for full mesh connectivity between a number of earth terminals via a satellite link. The earth terminals are connected to user access devices to receive and transmit voice, video and data and are operable to generate bursts to transmit user data via a satellite, and to process data received from the satellite and transmit it to the addressed user access devices. The terminals each comprise a programmable computing device which prioritizes data into bursts using a fragmentation protocol. The programmable computing device also organizes bursts in at least one of a plurality of slots constituting a time division multiple access frame in accordance with a burst plan. Each terminal has access to a guaranteed number of the slots. The allocation of the remaining slots among the terminals varies dynamically to increase or decrease the burst transmission rates of the terminals as needed. Dynamic assignment of slots depends on committed information rates, the lengths of data queues in the terminals and the type of data to be transmitted. Terminals need not be assigned consecutive ones of the dynamically assignable slots.

Classifications:

International (IPC 8-9): H04B7/185 H04B7/212 H04L12/28 H04L12/56 (Advanced/Invention);

H04L12/56 (Advanced/Invention),
H04L12/28 H04L12/56 (Advanced/Non-invention)

International (IPC 1-7): H04B7/185 H04B7/212 H04J3/16

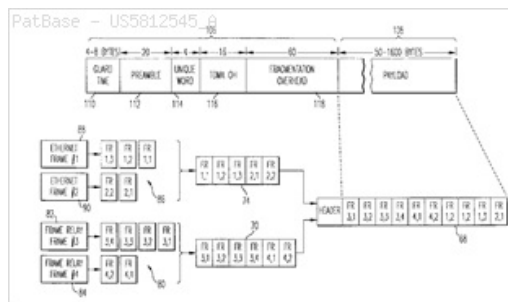
CPC: H04B7/18523 H04B7/18582 H04W28/06 H04W28/14 H04W72/0406
H04W74/04 H04W84/06

European: H04B7/185H H04B7/185S6 T04W12/02H T04W12/067

T04W228/06 T04W228/14 T04W272/04 T04W274/04 T04W28/06

T04W28/14 T04W284/06 T04W36/04 T04W36/12 T04W50/04A

US: 370/337 370/348 370/444 370/468



Family:

Publication number	Publication date	Application number	Application date
AU199718235 A1	19970801	AU19970018235	19970102
DE69734705 D1	20051229	DE19976034705	19970102
DE69734705 T2	20060824	DE19976034705T	19970102
DE69734705 T8	20070118	DE19976034705T	19970102
EP0875103 A1	19981104	EP19970903743	19970102
EP0875103 A4	20010110	EP19970903743	19970102
EP0875103 B1	20051123	EP19970903743	19970102
US5812545 A	19980922	US19960589255	19960123
WO9725787 A1	19970717	WO1997US00116	19970102

Priority:

US19960582753 19960104 US19960589255 19960123 WO1997US00116 19970102

Probable Assignee: ND SATCOM GES FUR SATELLITENKOMMUNIKATIONSSYSTEME

Assignee(s): (std): ND SATCOM GES F SATELLITENK ; NORTEL DASA NETWORK SYSTEMS GM ; ND SATCOM GES FUER SATELLITENK : ORION ATLANTIC L P

Assignee(s): NORTEL DASA NETWORK SYSTEMS GMBH AND CO ; ORION ATLANTIC LP ; NORTEL DASA NETWORK SYSTEMS GMBH AND CO KG ; TELESAT CANADA ; TELESAT NETWORK SERVICES INC ; JPMORGAN CHASE BANK NA COLLATERAL AGENT AS ; MORGAN STANLEY AND CO INC ; ND SATCOM GES ; ND SATCOM GES FUR SATELLITENKOMMUNIKATIONSSYSTEME ; ND SATCOM GESELLSCHAFT FUER SATELLITENKOMMUNIKATIONSSYSTEME MBH ; ND SATCOM GESELLSCHAFT FUER SATELLITENKOMMUNIKATIONSSYSTEME GMBH ; ND SATCOM GES F SATELLITENKOMMUNIKATIONSSYSTEME GM ; NORTEL DASA NETWORK SYSTEMS GMBH ; ND SATCOM GESELLSCHAFT FUER SATELLITENKOMMUNIKATIO

Inventor(s): (std): LIEBOWITZ BURT ; SWEENEY STEVEN ; ARENS HEINRICH ; THALLER FRANZ

Designated states: AL AM AT AU AZ BB BE BF BG BR BY CA CH CN CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG UZ VN