

Diego Gonzalez

1) Family number: 64288543 (US2018019800A)

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Title: SATELLITE FOR END-TO-END BEAMFORMING WITH ACCESS NODE CLUSTERS

Abstract: Methods and systems are described for providing end-to-end beamforming. For example, end-to-end beamforming systems include end-to-end relays and ground networks to provide communications to user terminals located in user beam coverage areas. The ground segment can include geographically distributed access nodes and a central processing system. Return uplink signals, transmitted from the user terminals, have multipath induced by a plurality of receive/transmit signal paths in the end to end relay and are relayed to the ground network. The ground network, using beamformers, recovers user data streams transmitted by the user terminals from return downlink signals. The ground network, using beamformers generates forward uplink signals from appropriately weighted combinations of user data streams that, after relay by the end-end-end relay, produce forward downlink signals that combine to form user beams.

Classifications:

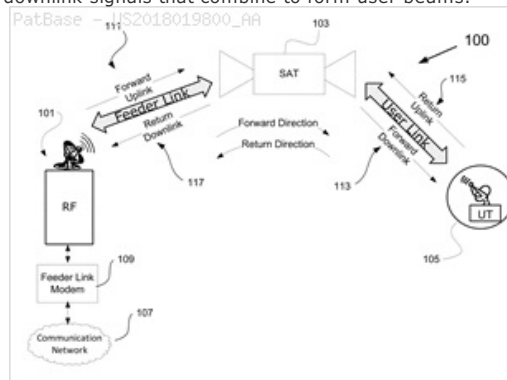
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H04B7/185 (Core/Invention);

H04B (Subclass/Invention)

CPC: H04B7/022 H04W56/001 H04B7/18513 H04B7/18515 H04B7/18517 H04B7/2041 H04B7/0617 H01Q1/288 H01Q3/247 H01Q3/40 H01Q19/132 H01Q21/24 H01Q25/001 H04B7/024 H04B7/0413 H04B7/18508 H04B7/18534 H04B7/1858 H04B7/18586 H04B7/18589 H04B7/204 H05K999/99 H01Q1/06 H01Q1/247 H01Q5/50 H01Q21/0025 H04B10/118 H04W16/26 H04W16/28 H04W40/20 H04W76/10 H04W84/06

US: 1/1 342/354 370/316 370/324 370/325 398/115 455/12.1 455/13.1



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Assignee(s): (std): VIASAT INC

Assignee(s): RUNYON DONALD ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL TRUSTEE AS ; VIASAT INK ; BUER KENNETH ; CRONIN CHRISTOPHER ; DANKBERG MARK ; MILLER MARK

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Inventor(s): BUER KENNET ; KENNETHBUER ; RANON DONALD ; KRONIN KRISTOFER

Agent(s): ADAMS PLUCK; BORDEN LADNER GERVAIS LLP; ESTUDIO CAREY LTDA; MAURICIO JARAMILLO CAMPUZANO; EIP; SMITH JEREMY ROBERT; EAGLE IP LTD; GEORGE WIDJOJO SH; KITA AOYAMA INT PATENT BUREAU; NEVINPAT; NEVINPAT PATPOV AV POLIKARPOVU REG N 0009; ONE LEGAL LLC; KILPATRICK TOWNSEND AND STOCKTON LLP; RALSTON WILLIAM ET AL; PUTNAM JONATHAN 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 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 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

2) Family number: 71544317 (WO18190794A1)

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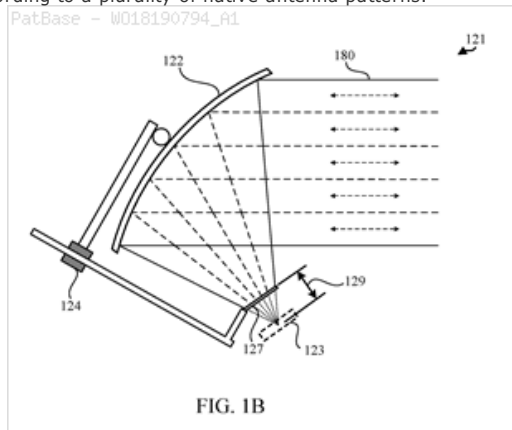
Title: COVERAGE AREA ADJUSTMENT TO ADAPT SATELLITE COMMUNICATIONS

Abstract: The described features generally relate to adjusting a native antenna pattern of a satellite to adapt communications via the satellite. For example, a communications satellite may include an antenna having a feed array assembly, a reflector, and a linear actuator coupled between the feed array assembly and the reflector. The feed array assembly may have a plurality of feeds for communicating signals associated with a communications service, and the reflector may be configured to reflect the signals transmitted between the feed array assembly and one or more target devices. The linear actuator may have an adjustable length, or otherwise provide an adjustable position between the feed array assembly and the reflector. By adjusting the position of the feed array assembly relative to the reflector, the communications satellite may provide a communications service according to a plurality of native antenna patterns.

Classifications:

International (IPC 8-9): H01Q1/28 H01Q19/17 H01Q25/00 H01Q3/02 H01Q3/18 H01Q3/20 (Advanced/Invention); H01Q19/17 (Advanced/Non-invention)

CPC: H01Q1/288 H01Q3/02 H01Q3/18 H01Q3/20 H01Q19/17 H01Q25/007 H04B7/18515 H04B7/2041



Family:

Publication number	Publication date	Application number	Application date
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WO18190794 A1	20181018	WO2017US26839	20170410

Priority:

WO2017US26839 20170410

Probable Assignee: VIASAT INC

Assignee(s): (std): VIASAT INC

Assignee(s): MENDELSON AARON ; RUNYON DONALD

Inventor(s): (std): MENDELSON AARON ; RUNYON DONALD

Agent(s): ADAMS PLUCK; BORDEN LADNER GERVAIS LLP; PUTNAM JONATHAN 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 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 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

3) Family number: 44575205 (US2010068993A)

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Title: SYSTEM AND METHOD FOR SATELLITE-LONG TERM EVOLUTION (S-LTE) AIR INTERFACE

Abstract: An air interface for use with a mobile satellite system that extends the baseline LTE interface modulation and coding from 3GPP. The LTE OFDM and S-FDMA technologies are used in the lowest FDD E-UTRA assigned bandwidth of 1.4 MHz but can be extended up to 7 other bands. The key differentiator for S-LTE from LTE would be the use of 32-ary Amplitude Phase Shift Keying (32-APSK) in the uplink channel for S-FDMA with LDPC and turbo coding and 64-QAM in the downlink channel for OFDM with LDPC and turbo coding. This new mechanism for S-LTE with new combination of coding will allow a robust channel model for S-LTE air interface and will enable the S-LTE air interface to have an efficient link budget. The S-LTE air interface of the present invention can be implemented in 700 MHz, 1.5 GHz, 2.1 GHz and 2.6 GHz bands or any future bands allocated for the specific air interface.

Classifications:

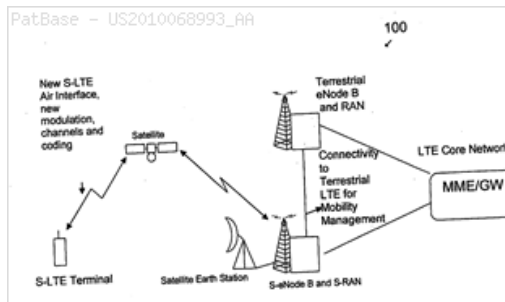
International (IPC 8-9): H04B7/185 (Advanced/Invention);

H04B7/185 (Core/Invention)

CPC: H04B7/1853

European: H04B7/185M

US: 455/12.1 455/12.100P



Family:

Publication number	Publication date	Application number	Application date
■ CN102150379 A	20110810	CN200980136909	20090910
■ EP2347527 A1	20110727	EP20090786233	20090910
■ US2010068993 AA	20100318	US20080209436	20080912
■ WO10029413 A1	20100318	WO20091B06797	20090910

Priority:

US20080209436 20080912 WO20091B06797 20090910

Probable Assignee: TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Assignee(s): (std): ERICSSON TELEFON AB L M ; KHAN RAHIL

Assignee(s): TELEFONAKTIEBOLAGET L M ERICSSON PUBL ; TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) ; TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Inventor(s): (std): KHAN RAHIL ; RAHIL KHAN

Agent(s): HOFFMANN EITL; ERICSSON INC; CAMERON MICHAEL G

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 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 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 PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 15699921 (US6636734B)

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Title: Dual receive ground terminal for use in communication systems utilizing multiple satellites

Abstract: A ground terminal renders feasible a communications system that locates two satellites at the same node along the geostationary arc. Each satellite is capable of receiving RF signals through an uplink channel and transmitting RF signals through a downlink channel distinct from the uplink channels. The ground terminal is able to transmit RF signals to only one of the satellites, but can receive RF signals from both of the satellites. The ground terminal includes an antenna, an RF signal processor that includes two demodulators for processing signals from the two downlink channels, and a data processor.

Classifications:

International (IPC 8-9): H04B7/15 H04B7/155 H04B7/185

H04B7/26 (Advanced/Invention);

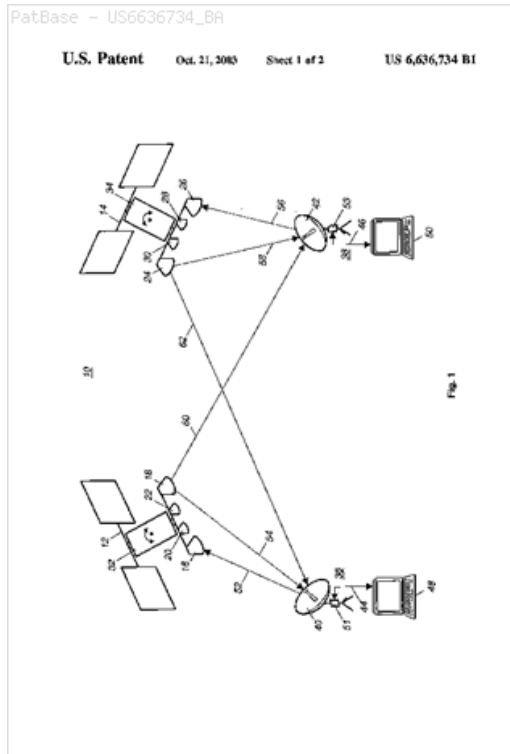
H04B7/15 H04B7/185 H04B7/26 (Core/Invention)

International (IPC 1-7): H04B7/15 H04B7/155 H04B7/185 H04B7/19

H04B7/26 H04Q7/20

CPC: H04B7/18563

European: H04B7/185M12

**Family:**

Publication number	Publication date	Application number	Application date
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US6636734 BA	20031021	US20000572162	20000517

Priority:

US20000572162 20000517 CA20012347548 20010515

Probable Assignee: NORTHROP GRUMMAN SYSTEMS CORP**Assignee(s):** (std): NORTHROP GRUMMAN CORP ; TRW INC**Assignee(s):** NORTHROP GRUMMAN SYSTEMS CORP ; NORTHROP GRUMMAN SPACE AND MISSION SYSTEMS CORP ; BERGER HARVEY L ; JUE REGINALD ; NIVENS DENNIS A**Inventor(s):** (std): BERGER HARVEY L ; JUE REGINALD ; NIVENS DENNIS A**Agent(s):** GOWLING LAFLEUR HENDERSON LLP; SHAMOTO ICHIO; MASUI CHUJI; KOBAYASHI YASUSHI; OHTSUKA TAKAHIKO; TOMITA HIROYUKI**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR**5) Family number: 50610133 (US2012032876A)**

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Title: MEGA COMMUNICATION AND MEDIA APPARATUS CONFIGURED TO PROVIDE FASTER DATA TRANSMISSION SPEED AND TO GENERATE ELECTRICAL ENERGY

Abstract: Disclosed embodiments comprise communication apparatus operatively configured with CMOS multiple antennas disposed on a chip for boosting communication signals to and for enabling faster data transmission speed and to provide interactive user interface. The communication apparatus is further configured to convert sound waves, vibrations, solar energy, wind force and pressure force into electrical energy communicable to a battery cell. Disclosed embodiment encompasses three modes of communications-the Cell phone, wireless Internet applications, and Global communication and media information. Embodiments provide communication apparatus operable to enhance mobile communication efficiency with touch sensitive display and provide energy harvesting platform on at least the housing for the apparatus and/or the circuit board configured with memories, processors, and modules. Embodiments provide advanced computing and media applications, including in-vehicle interactive communications and wireless Internet applications. Embodiments further provide a gaming device, a wireless media device configured with touch pads comprising sensors being embedded in silicon substrate and fused in micro fiber material having excellent electrical characteristics. Certain embodiments provide communication apparatus configured for voice enabled applications comprising human voice auditory operable to convert text into voice auditory and/or voice auditory into text applications.

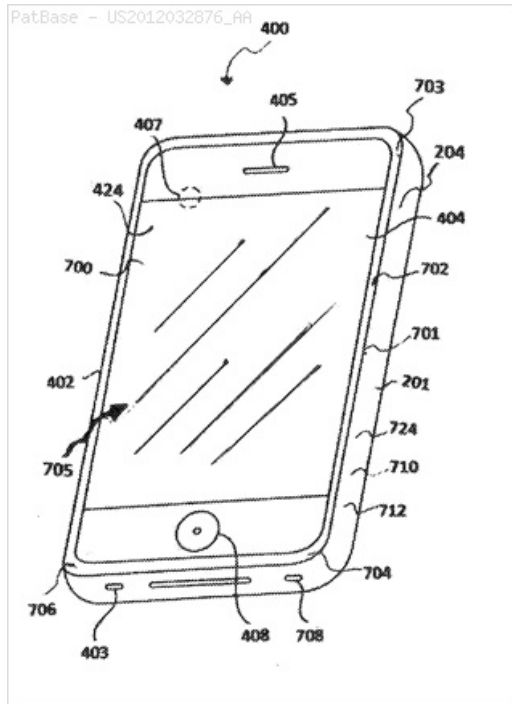
Classifications:

International (IPC 8-9): G09G5/00 H01Q1/22 H01Q1/24 H01Q11/12 H01Q21/28 H04B1/3827 H04M1/00 H04M1/02 H04M1/60 H04M1/725 H04W52/04 H04W88/02 (Advanced/Invention); H04B1/3827 H04W88/02 (Advanced/Non-invention)

CPC: H01Q1/2283 H01Q1/243 H01Q1/245 H01Q21/28 H04W88/02 H04M1/0202 H04B1/3838 H04M1/00 H04M1/0214 H04M1/0235 H04M1/6083 H04M1/72522 H04M1/72536 H04M1/72558 H04M2250/10 H04M2250/12 H04M2250/22 H04W52/04 Y02D70/1224 Y02D70/1242 Y02D70/142 Y02D70/144 Y02D70/146 Y02D70/164 Y02D70/166 Y02D70/168 Y02D70/23 Y02D70/26 Y02D70/40 Y02D70/1262

European: H04B1/38P2E H04M1/02A H04M1/60T2C2 H04M1/725F1 T04B1/38P2E T04M1/02A2B4 T04M1/02A2B8 T04M1/725F1E T04M1/725F1P T04M250/10 T04M250/12 T04M250/22 T04W88/02

US: 1/1 345/156 345/156P 455/127.1 455/127.100S 455/550.1
455/550.100S 455/566 455/566P 455/571 455/571S 455/572
455/572S



Family:

Publication number	Publication date	Application number	Application date
US2012032876 AA	20120209	US20100910833	20101024
US2012034954 AA	20120209	US20100852481	20100807
US9130651 BB	20150908	US20100910833	20101024
US9237211 BB	20160112	US20100852481	20100807

Priority:

US20100852481 20100807 US20100910833 20101024

Probable Assignee: TABE JOSEPH AKWO

Assignee(s): (std): TABE JOSEPH AKWO

Inventor(s): (std): TABE JOSEPH AKWO

Agent(s): JOSEPH

6) Family number: 31359431 (US2003207684A)

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Title: Broadband communication system for mobile users in a satellite-based network

Abstract: A satellite-based communications system operating at high data rates includes a plurality of satellites each having uplink and downlink antennas for transmitting and receiving a plurality of signals utilizing a plurality of spot beams to and from a plurality of coverage areas at a predetermined range of frequencies. The system can include, or be combined with, other systems to enable increased capacity over high population areas and ubiquitous coverage over lower population areas. A portable antenna assembly can be coupled to a user's portable or mobile electronic device for coupling the electronic device directly to a satellite. A routing switch provides routing and switching on-board the satellite and routes signals according to their desired destination.

Classifications:

International (IPC 8-9): B01F3/12 C01B13/32 C01B33/00 C01B33/14 C01G25/00 C04B35/16 C04B35/462 C04B35/468 C04B35/47 C04B35/49 C04B35/491 C04B35/493 C04B35/624 C04B35/628 C09D1/00 C23C18/12 H01L27/10 H01Q3/00 H04B7/185 H04Q7/20 (Advanced/Invention); C01B33/00 C01G25/00 C04B35/49 (Advanced/Non-invention); B01F3/12 C01B13/32 C01B33/00 C01G25/00 C04B35/16 C04B35/462 C04B35/49 C04B35/622 C04B35/626 C09D1/00 C23C18/00 H01L27/10 H01Q3/00 H04B7/185 H04Q7/20 (Core/Invention); C01B33/00 C01G25/00 C04B35/49 (Core/Non-invention)

International (IPC 1-7): B01F3/12 C01B13/32 C01B33/00 C01B33/14 C01G25/00 C04B35/462 C04B35/49 C04B35/628 C09D1/00 H01L27/10 H04B7/185 H04Q7/20

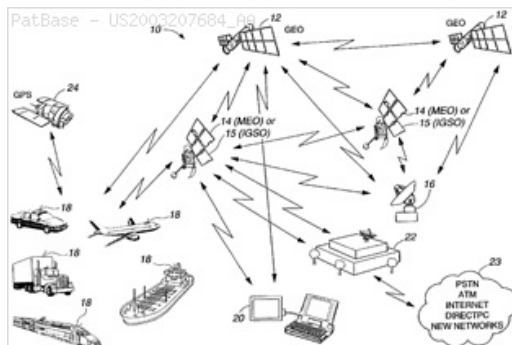
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European: C04B35/01 C04B35/16 C04B35/491 C04B35/624 C04B35/63 C23C18/12C2 C23C18/12J2 H04B7/185S H04B7/204B M04B235/32H14 M04B235/32H4 M04B235/32H8 M04B235/32P M04B235/32Y M04B235/40R T04B7/185F

US: 106/286.2 106/287.18 106/287.19 343/702 343/758 343/766 370/307 370/316 455/12.1 455/12.100S 455/13.3 455/13.300 455/427 455/427P 455/428 455/429 455/429S 501/1 501/12 501/134 501/136 501/154 516/81 516/88

Family:

Publication number	Publication date	Application number	Application date
CN1266079 C	20060726	CN200410033074	20040319
CN1535934 A	20041013	CN200410033074	20040319
DE69838272 D1	20071004	DE19986038272	19980530
DE69838272 D1	20071004	DE19986038272T	19980530
DE69838272 T2	20080515	DE19986038272T	19980530



EP0883252 A2	19981209	EP19980109938	19980530
EP0883252 A3	20030604	EP19980109938	19980530
EP0883252 B1	20070822	EP19980109938	19980530
JP2004299921 A2	20041028	JP20030091717	20030328
US2003207684 AA	20031106	US20010848072	20010502
US2004157554 AA	20040812	US20040771862	20040203
US2004248997 AA	20041209	US20040808349	20040325
US2008064328 AA	20080313	US20070937307	20071108
US6032041 A	20000229	US19970867197	19970602
US6339707 BA	20020115	US19990395903	19990914
US6708029 BB	20040316	US20010848072	20010502
US7020462 BA	20060328	US19980159817	19980923
US7045006 BB	20060516	US20040808349	20040325
US7324056 BB	20080129	US20040771862	20040203
US7750863 BB	20100706	US20070937307	20071108

Priority:

US19970867197 19970602 US19980159817 19980923 US19990395903 19990914
US20010848072 20010502 JP20030091717 20030328 US20040771862 20040203
US20070937307 20071108

Probable Assignee: SEIKO EPSON CORP

Assignee(s): (std): DIRECTV GROUP INC ; HUGHES ELECTRONICS CORP ; SEIKO EPSON CORP ; WESEL ELLEN K

Assignee(s): HUGHES ELECTRONICS

Inventor(s): (std): KIJIMA KATSU ; WANG ARTHUR W ; PAVLOFF MICHAEL S ; WESEL ELLEN K ; WAINFAN S LYNNE ; WAINFAN LYNNE S ; EIJI KIJIMA KATSU NATORI ; KIJIMA TAKESHI ; NATORI EIJI ; EIJI NATORI ; KATSU KIJIMA

Inventor(s): WESEL ELLEN ; KIJIMA KATSU NATORI EIJI

Agent(s): DIRECTV GROUP INC PATENT DOCKET ADMINISTRATION; GEORGANN S; OLIFF AND BERRIDGE PLC

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

7) Family number: 30384256 (US2005249139A)

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Title: SYSTEM TO DELIVER INTERNET MEDIA STREAMS, DATA AND TELECOMMUNICATIONS

Abstract: A system for delivering broadcast and communications services, wherein said services comprise provision of one or more Internet media streams; the system comprising one or more gateways which provide connections to external communications networks and nodes and internal loopbacks from which said services are obtained, each of said gateways comprising: a selection system to selectively establish communication channels with said external communication nodes networks and said loopbacks to establish an individual bidirectional channel between each node network and allow recipients to obtain the communication channel of their choice; a processing system comprising non-blocking matrix switching or routing system, buffering, packeting, and addressing systems; processing said channels containing services into digitized packaged data format and said addressing systems identifying, storing and updating the location of each recipient, and applying routing information to each packet of digitized packaged data to enable packets to be correctly routed through the system.

Classifications:

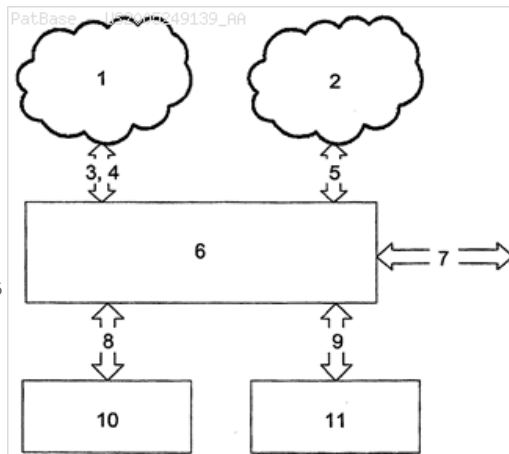
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International (IPC 1-7): H04B7/00 H04B7/005 H04H1/08 H04L12/58 H04L12/66 H04L29/08 H04Q7/28

CPC: H04L67/32 H04L69/329 H04H20/08 H04H20/82 H04L12/18 H04L12/189 H04L12/56 H04N7/17318 H04N21/4126 H04N21/41407 H04N21/42676 H04N21/4788 H04N21/6125 H04N21/8106 H04W52/26 H04W52/34 H04W52/50

European: H04H1/00D H04H1/10D H04H20/08 H04H20/764 H04H20/82 H04H20/82 H04L12/18 H04L12/56 H04L29/08A7 H04L29/08N31 H04N21/414M H04N21/41P5 H04N21/426M H04N21/4788 H04N21/61D3 H04N21/81A H04N7/173B2 T04H1/00 T04L12/18W T04W52/26 T04W52/34 T04W52/50

US: 348/E7.071 348/E70.71S 370/312 370/312P



Family:

Publication number	Publication date	Application number	Application date
AU2002952575 A0	20021128	AU20020952575	20020905
AU2003203591 AA	20040325	AU20030203591	20030409
AU2003233249 AA	20040329	AU20030233249	20030611
CA2497518 AA	20050302	CA20032497518	20030611
EP1540906 A1	20050615	EP20030727014	20030611
EP1540906 A4	20061115	EP20030727014	20030611
US2005249139 AA	20051110	US20050070195	20050302
WO04023748 A1	20040318	WO2003AU00725	20030611

Priority:

AU20020301467 20020905 AU20020952575 20020905 AU20030203591 20030409
AU20030233249 20030611 WO2003AU00725 20030611

Probable Assignee: NESBIT P

Assignee(s): (std): NESBIT P ; NESBIT PETER ; SOUTH LAND COMM PTY LTD ; SOUTH LAND COMMUNICATIONS PTY LTD

Inventor(s): (std): NESBIT PETER ; NESBIT PETER R ; PETER NESBIT ; PETER R NESBIT

Agent(s): MILLS OAKLEY LAWYERS; MILLS OAKLEY; SMITHS IP; THE HALVORSON LAW FIRM

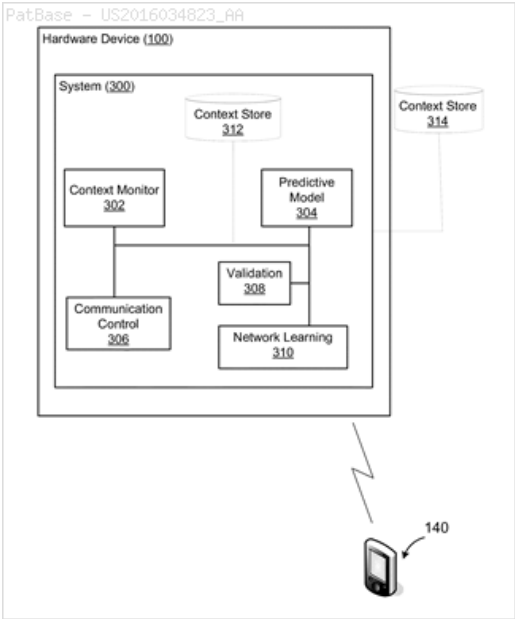
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8) Family number: 61595312 (US2016034823A) © PatBase

Title: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR OPTIMIZING A PREDICTIVE MODEL FOR MOBILE NETWORK COMMUNICATIONS BASED ON HISTORICAL CONTEXT INFORMATION

Abstract: Methods and systems are described for optimizing a predictive model for mobile network communications based on historical context information. In one aspect, historical context information is collected including at least one of communication environment, communication parameter estimates, mobile device statistics, mobile device transmit settings, base station receiver settings, past network statistics and settings, and adjacent network node information statistics and settings, the historical context information including data from communications of at least one mobile device. A predictive model for network communications is determined based on the historical context information. A communication context for a first mobile device different than the at least one mobile device is determined. The first device is scheduled and/or network parameters are set based on the determined predictive model. Actual to expected results are compared and the predictive model is adjusted based on the comparison.

Classifications:
International (IPC 8-9): G06N5/04 G06N99/00
H04W16/22 (Advanced/Invention);
H04W24/08 (Advanced/Non-invention)
CPC: G06N5/048 H04W16/22 G06N99/005 H04W24/08
US: 1/1 706/12 706/14



Family:

Publication number	Publication date	Application number	Application date
US2016034823 AA	20160204	US20140448435	20140731
US2018249345 AA	20180830	US20180967379	20180430
US9961560 BB	20180501	US20140448435	20140731

Priority:
US20140448435 20140731 US20180967379 20180430

Probable Assignee: COLLISION COMMUNICATIONS INC

Assignee(s): (std): COLLISION COMM INC ; COLLISION COMMUNICATIONS INC

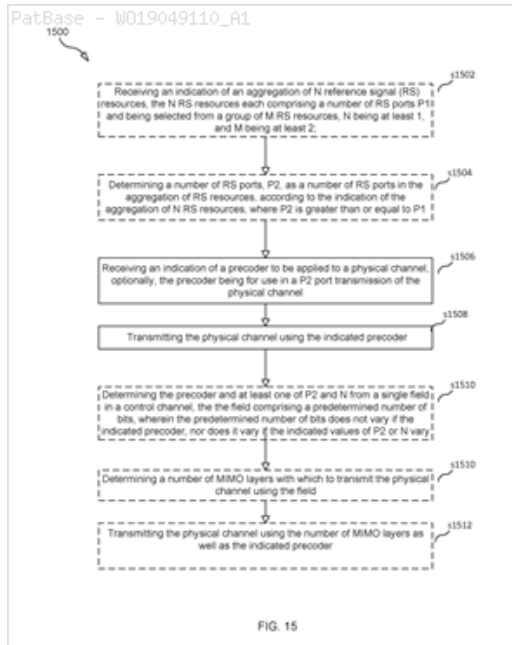
Inventor(s): (std): WEST BARRY ; HOMBS BRANDON ; FARKAS JOSEPH

9) Family number: 73505531 (WO19049110A1) © PatBase

Title: PRECODING AND MULTI-LAYER TRANSMISSION USING REFERENCE SIGNAL RESOURCE SUBSETS

Abstract: A method performed by a transmitting device is provided. The method includes at least one of: receiving an indication of an aggregation of N reference signal (RS) resources, the N RS resources each comprising a number of RS ports P1 and being selected from a group of M RS resources, N being at least 1, and M being at least 2, Determining a number of RS ports, P2, as a number of RS ports in the aggregation of RS resources, according to the indication of the aggregation of N RS resources, where P2 is greater than or equal to P1, receiving an indication of a precoder to be applied to a physical channel, optionally, the precoder being for use in a P2 port transmission of the physical channel; and transmitting the physical channel using the indicated precoder. Other methods, apparatuses, computer programs are provided.

Classifications:
International (IPC 8-9): H04L5/00 (Advanced/Invention)
CPC: H04L5/0023 H04L5/00



Family:

Publication number	Publication date	Application number	Application date
WO19049110 A1	20190314	WO20181B56942	20180911

Priority:

US20170557022P 20170911

Probable Assignee: ERICSSON AB

Assignee(s): (std): ERICSSON AB ; ERICSSON TELEFON AB L M ; FAXER SEBASTIAN ; HARRISON ROBERT MARK ; NILSSON ANDREAS

Assignee(s): TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Inventor(s): (std): NILSSON ANDREAS ; HARRISON ROBERT MARK ; FAXER SEBASTIAN

Agent(s): GRABARI MAGDALENA 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 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