PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CLEAR WIRELESS LLC	10/26/2011

RECEIVING PARTY DATA

Name:	CLEARWIRE COMMUNICATIONS LLC
Street Address:	1475 120TH AVENUE NE
City:	BELLEVUE
State/Country:	WASHINGTON
Postal Code:	98005

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13959521

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	017421-0424007
NAME OF SUBMITTER:	Manu Bansal
Signature:	/Manu Bansal/
Date:	08/05/2013

Total Attachments: 10
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<u>ASSIGNMENT</u>

WHEREAS, CLEAR WIRELESS LLC (hereinafter referred to as ASSIGNOR), a limited liability company of the State of Nevada having a place of business at 1475 120th Avenue NE, Bellevue, WA 98005, is the owner of rights in patents and patent applications in the United States as set forth in the SCHEDULE OF PATENT APPLICATIONS and the SCHEDULE OF PATENTS annexed hereto (hereinafter Patent Rights);

WHEREAS, CLEARWIRE COMMUNICATIONS LLC (hereinafter referred to as ASSIGNEE), a limited liability company of the State of Delaware having a place of business at 1475 120th Avenue NE, Bellevue, WA 98005, is desirous of acquiring the entire right, title and interest in and to said inventions, said applications and any and all letters patent that may be granted for said inventions in the United States;

NOW, THEREFORE, in exhange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, the entire right, title and interest in and to said inventions, said applications and any and all letters patent which may be granted for said inventions in the United States and its territorial possessions, and any and all divisions, reissues, continuations and extensions thereof, together with all rights of ASSIGNOR associated therewith, including the right to file additional applications for said inventions directly in the name of ASSIGNEE and to claim priority rights deriving from said applications by virtue of international convention, treaty or otherwise. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said inventions or resulting from said applications to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for letters patent on said inventions, for litigation regarding said letters patent, or for the purpose of protecting title to said inventions and letters patent therefor.

ASSIGNOR	ASSIGNEE
CLEAR WIRELESS LLC	CLEARWIRE COMMUNICATIONS LLC
By	By
Name: Hope Cochran	Name: Hope Cochran
Title: Chief Financial Officer	Title: Chief Financial Officer
Dated: 10/26/2011	Dated: 10/26/2011

1

State of _____WA_____)

County of _____KING_____) ss.

I certify that I know or have satisfactory evidence that _HOPE COCHRAN_ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument, and acknowledged it as the _CFO_ of CLEAR WIRELESS LLC (ASSIGNOR), to be the free and voluntary act of said corporation for the uses and purposes mentioned in the instrument.
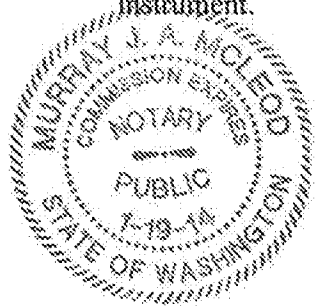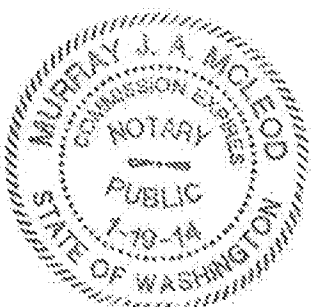
Dated _10-26-11_

Signature of
Notary Public _____

Printed Name _Murray J. A. McLeod_

My appointment expires _1-19-14_

State of _____WA_____)

County of _____KING_____) ss.

I certify that I know or have satisfactory evidence that _HOPE COCHRAN_ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute the instrument, and acknowledged it as the _CFO_ of CLEARWIRE COMMUNICATIONS LLC (ASSIGNEE), to be the free and voluntary act of said corporation for the uses and purposes mentioned in the instrument.

Dated _10-26-11_

Signature of
Notary Public _____

Printed Name _Murray J. A. McLeod_

My appointment expires _1-19-14_

2

**PATENT
REEL: 030944 FRAME: 0691**

Pending US Patent Applications

Title	U.S. Application Number
METHOD AND COMPUTER-READABLE MEDIUM FOR DYNAMIC RATE CAPPING	12/487,743
METHOD, APPARATUS AND COMPUTER-READABLE MEDIUM FOR IMPROVING PUSH-TO-TALK CALL SETUP SPEED	12/467,393
INCAR BLUEMAX WIMAX + BLUETOOTH	13/029,221
SYSTEMS AND METHODS OF SUPPORTING POWERLINE COMMUNICATIONS	12/534,280
SYSTEMS AND METHODS OF SUPPORTING POWERLINE COMMUNICAITONS	12/534,990
A SOLUTION FOR INE/HO LB BOTTLE NECK	12/488,271
A HYBRID SCHEME FOR DL LINK ADAPTATION	12/474,872
SYSTEM AND METHOD FOR PROVIDING EXTERNAL RECEIVER GAIN COMPENSATION WHEN USING AN ANTENNA WITH A PRE-AMPLIFIER	12/481,697
SYSTEM AND METHOD PROVIDING VARIOUS PILOT SUB-CARRIER DENSITIES IN OFDMA COMMUNICATIONS	12/539,268
CARRIER SIGNALS FOR SYNCHRONIZATION	12/814,206
CONFIGURABLE DOWNLOAD TIMING AND REWARD SYSTEM IN A DATA NETWORK	12/549,024
APPARATUS AND METHOD FOR DUAL-MODE WIMAX/CDMA OPERATION	12/495,154
INTER-TECHNOLOGY (4G - 3G) HANDOFF	12/698,384
SYSTEM AND METHOD FOR MICROWAVE TRAFFIC ROUTING	12/510,896
SYSTEM AND METHOD FOR PROXIMITY BASED RADIO MANAGEMENT	12/610,794
OPTIMIZED BANDWIDTH ALLOCATION PROCEDURE FOR REAL TIME TRAFFIC ON WIMAX RADIO ACCESS NETWORK	12/691,018
METHOD AND SYSTEM FOR MANAGING WIRELESS LINKS IN A COMMUNICATION NETWORK	12/835,256
METHOD AND SYSTEM FOR MAINTAINING WIRELESS LINKS IN A COMMUNICATION NETWORK	12/835,284
SYSTEM AND METHOD FOR DISPLAYING TIME-SENSITIVE ALERTS IN A MOBILE DEVICE	12/644,792
MULTIPLE DEVICE TO ONE-ANTENNA COMINING CIRCUIT AND METHODS OF USING SAME	12/614,010

DWT 18410531v1 0088796-000004

Title	U.S. Application Number
APPARATUS AND METHOD FOR SCHEDULER IMPLEMENTATION FOR BEST EFFORT (BE) PRIORITIZATION AND ANTI-STARVATION	12/545,959
SYSTEM AND METHOD FOR PORVIDING QUALITY OF SERVICE TO VOICE-OVER-IP TRAFFIC ON A WIRELESS RADIO ACCESS NETWORK	12/723,235
METHOD AND SYSTEM OF HANDOVER BASED ON CHANNEL QUALITY AND LOADING	12/760,546
SYSTEM AND METHOD FOR COMBINED MAC LEVEL MESSAGE WITH CQI CHANNEL CONTROL MESSAGE FOR CHANNEL FEEDBACK REPORT	12/762,701
METHOD AND SYSTEM OF DETERMINING WHETHER A MOBILE STATION IS LOCATED INSIDE A COVERAGE AREA OF ANARROWBAND REPEATER AND USING THE DETERMINATION IN A HANDOVER PROCEDURE	12/759,195
METHOD AND SYSTEM FOR SYNCHRONIZING WIRELESS DEVICES WITH A COMMUNICATION NETWORK	12/842,066
APPARATUS AND METHOD FOR LOAD BALANCING	13/046,832
APPARATUS AND METHOD FOR MULTIMODE DEVICE HANDOVER	12/760,987
MACRO-NETWORK LOCATION DETERMINATION, LOCAL-OSCILLATOR STABILIZATION, AND FRAME-START SYNCHRONIZATION BASED ON NEARBY FM RADIO SIGNALS	13/023,269
SYSTEMS AND METHODS OF SUPPORTING EMERGENCY COMMUNICATIONS	12/955,466
METHOD AND SYSTEM OF PAYLOAD ENCODING AND MODULATION FOR CHANNEL QUALITY FEEDBACK	13/053,405
SYSTEM AND METHOD FOR UPLINK POWER CONTROL	13/016,633
HANDOVER CANCELLATION IN 16M	13/047,464
METHOD FOR SEAMLESS IP SESION CONTINUITY FOR MULTI-MODE MOBILE STATIONS	12/907,751
ENABLING COEXISTENCE BETWEEN WIRELESS NETWORKS	13/160,273
APPARATUS AND METHOD FOR DETERMINING NUMBER OF RETRANSMISSION IN A WIRELESS SYSTEM	13/049,310
ENABLING COEXISTENCE BETWEEN FDD AND TDD WIRELESS NETWORKS	12/896,494
SYSTEM AND METHOD FOR RADIO FREQUENCY RESOURCE ALLOCATION	11/517,365
CENTRALIZED SECURITY MANAGEMENT SYSTEM	11/533,586
METHOD AND SYSTEM FOR TRANSMITTING STREAMING MEDIA CONTENT TO WIRELESS SUBSCRIBER STATIONS	11/876,949

4

Title	U.S. Application Number
SUPPORTING MULTIPLE AUTHENTICATION TECHNOLOGIES OF DEVICES CONNECTING TO A WIRELESS NETWORK	11/672,787
DECISION ENVIRONMENT FOR DEVICES THAT FAIL AUTHENTICATION	11/672,823
METHOD AND SYSTEM FOR TAILORING WIMAX DEVICE PROVISIONING BASED ON DEVICE CAPABILITY INFORMATION COMMUNICATED TO NETWORK	11/680,714
METHOD AND SYSTEM FOR TAILORING WIMAX DEVICE PROVISIONING BASED ON DEVICE CAPABILITY INFORMATION COMMUNICATED TO NETWORK	13/240,425
METHODS AND APPARATUSES FOR PROVIDING A STABLE WIDEBAND NOISE SIGNAL	11/960,511
TREATMENT OF DEVICES THAT FAIL AUTHENTICATION	11/672,833
OPEN MOBILE ALLIANCE PROVISIONING VIA A GLOBAL WIMAX DEVICE REGISTRY	11/765,779
METHOD AND SYSTEM FOR DISTRIBUTING ALERTS	11/877,439
SYSTEMS AND METHODS OF ANTENNA SELECTION	11/780,783
SYSTEMS AND METHODS OF TESTING WIRELESS NETWORKS	11/939,136
COMMUNICATION SYSTEM FOR PROVIDING USER INFORMATION TO WIRELESS COMMUNICATION DEVICES IN A BUILDING	12/172,699
SYSTEM AND METHOD OF ALLOCATING SUB-CHANNELS	12/046,554
TWO STAGE TRAFFIC SCHEDULING	12/112,713
SYSTEM AND METHOD FOR DETERMINING WIRELESS CHIPSET PERFORMANCE	12/099,866
SYSTEM AND METHOD FOR PUSH-TO-TALK (PTT) GROUP CALLS IN A WIMAX COMMUNICATIONS NETWORK	12/103,568
PRIORITY ALLOCATION OF CONTENTION RESOURCES	12/113,615
METHODS AND SYSTEMS FOR PROVIDING DYNAMIC BANDWIDTH ADAPTATION IN WIRELESS SYSTEMS	12/254,899
ALLOCATION OF SIGNAL QUALITY FEEDBACK BANDWIDTH	12/175,696
MEASURING SIGNAL STRENGTH IN A MULTIPLE-INPUT OUTPUT ANTENNA ENVIRONMENT	12/197,745
METHODS AND SYSTEMS FOR PROVIDING OPTIMAL DELIVERY OF CONTENT TO MOBILE DEVICES	12/275,418
SCHEDULING ALGORITHM FOR REALIZING MULTI-USER DIVERSITY FOR GUARANTEED BIT RATE FLOWS	12/540,916
SYSTEMS AND METHODS OF TRANSMISSION OF USER DATA PACKETS	12/118,917

5

Title	U.S. Application Number
SYSTEMS AND METHODS FOR SELECTIVELY PRE-REGISTERING DATA PATHS FOR MOBILE STATIONS	12/508,694
SYSTEMS AND METHODS FOR ESTABLISHING A DATA-PATH BETWEEN A MOBILE STATION AND A HOME ACCESS SERVICE NETWORK GATEWAY	12/508,715
EFFICIENT IN-BAND BACKHAUL	12/248,707
SYSTEM AND METHOD OF EXTENDING BASE STATION COVERAGE	12/170,481
VIDEO BURSTING BASED ON WIRELESS DEVICE LOCATION	12/199,468
STREAMING VIDEO FORMAT BASED ON WIRELESS DEVICE LOCATION	12/210,787
METHOD FOR OBTAINING A MOBILE INTERNET PROTOCOL ADDRESS	12/265,000
VIDEO BURSTING BASED UPON MOBILE DEVICE PATH	12/255,930
LOAD BALANCING MULTIPLE AMOUNG MULTIPLE CARRIERS IN A SECTOR	12/403,542
METHOD AND SYSTEM FOR PAGING MOBILE DEVICES IN A WIRELESS NETWORK	12/464,208
METHOD AND ALGORITHM FOR ADAPTIVELY CONFIGURING A LIVE WIMAX RADIO ACCESS NETWORK (RAN) PARAMETERS FOR OPTIMUM PERFORMANCE OBJECTIVE	12/407,059
MULTI-FREQUENCY REAL-TIME DATA STREAM HANDOFF	12/606,319
BROADCAST CHANNELS OF STREAMING MEDIA CONTENT IN A WIRELESS TELELCOMMUNICATIONS NETWORK	12/235,229
CARRIER SELECTION	12/372,814
WIRELESS COMMUNICATION SYSTEM	12/533,846
WIRELESS COMMUNICATION SYSTEM	12/533,889
SYTEM AND METHOD FOR EXTENDING A WIRELESS COMMUNICATION COVERAGE AREA OF A CELLULAR BASE TRANSCEIVER STATION (BTS)	12/575,691
MANAGING MULTIPLE APPLICATION FLOWS OVER AN ACCESS BEARER IN A QUALITY OF SERVICE POLICY ENVIRONMENT	12/554,503
SYSTEMS AND METHODS OF BANDWIDTH ALLOCATION DURING HANDOFF	12/503,949
SYSTEM AND METHOD FOR HYBRID SCHEMES FOR MIMO MODE DECISION	12/434,029
SYSTEM AND METHOD FOR ADAPTIVE CONTROL OF AN AVERAGING PARAMETER FOR PCINR AND RSSI	12/434,047

6

Title	U.S. Application Number
SYSTEM AND METHOD FOR DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST (HARQ) ENABLE/ DISABLE	12/434,063
CHANNEL CONDITION BASED SIGNAL QUALITY FEEDBACK BANDWIDTH ALLOCATION	12/537,973
DETECTING A DENIAL OF SERVICE ATTACK	12/500,656
EXTENDED RANGE VOICE OVER IP WIMAX DEVICE	12/432,643
DETERMINING A QUALITY-OF-SERVICE (QOS) PRIOR TO REGISTERING A WIRELESS DEVICE	11/735,033
DUAL WIMAX RADIO MODEM	11/736,645
COMMUNICATION SYSTEM AND METHOD THAT REDUCES INTERFERENCE	11/950,844
BROADCAST SERVICE CHANNEL OPTIMIZATION FOR TV SERVICES	12/040,532
NETWORK ACCESS FOR NON-NETWORK ENABLED DEVICES	12/016,006
MANAGEMENT OF WIMAX TONES TO AVOID INTER-MODULATION INTERFERENCE	11/695,829
LOCATION REPORTING SYSTEM	11/970,652
GROUP COMMUNICATION THROUGH BROADCAST CHANNELS	12/040,454
AIR INTERFACE QUALITY	12/139,232
DYNAMIC ALLOCATION OF WIMAX RANGING CODES	12/124,307
WIRELESS SLOT ALLOCATION	12/139,308
PACKET DROPPING BASED ON RF CONDITIONS	12/139,346
DYNAMIC UPLINK/DOWNLINK CAPACITY ALLOCATION IN A COMMUNICATION NETWORK	12/169,704
MOBILE COMMUNICATION DEVICE INITIATED HAND-OFF BASED ON WIRELESS BASE STATION PRIORITY	12/181,924
MOBILE COMMUNICATIONS DEVICE INITIATED HAND-OFF BASED ON AIR INTERFACE METRICS	12/193,926
INTERFERENCE MITIGATION	12/185,966
SERVICE INITIATION BASED ON ALTERNATIVE RESOURCES AND QOS	12/188,248
RANGING OF WIRELESS COMMUNICATION NETWORKS WITH DISTANT LINKS	12/180,036
RANGING OF WIRELESS COMMUNICATION NETWORKS WITH DISTANT WIRELESS LINKS	12/197,597

7

Title	U.S. Application Number
OPTIMIZING HANDOVER IN A COMMUNICATION NETWORK	12/487,905
SEASONALITY OPTIMIZATION OF WIRELESS NETWORKS	12/261,114
METHOD AND SYSTEM FOR CONTROLLING THE PROVISION OF MEDIA CONTENT TO MOBILE STATIONS	12/109,502
QUALITY OF SERVICE BASED DOWNLINK POWER ALLOCATION	12/509,130
SELECTION OF PEER TO PEER PROVIDERS IN A WIRELESS NETWORK	12/248,735
APPARATUS AND METHOD OF DYNAMIC DOWNLINK PERMUTATION ASSIGNMENT FOR USE IN A WIRELESS COMMUNICATION SYSTEM	12/821,813
MIMO DISTRIBUTED BASED CALL ADMISSION CONTROL IN WIMAX	12/257,545
METHOD FOR REDUCING TIME OF FLIGHT INTERFERENCE IN A WIRELESS COMMUNICATION NETWORK	12/388,391
SETTING TOKEN BUCKET PARAMETERS FOR SCHEDULING OF AIR-INTERFACE RESOURCES	12/388,038
QUALITY OF SERVICE BASED MULTI-ANTENNA MODE SWITCHING	12/369,880
MUTLTI-CARRIER SELECTION	12/372,949
DYNAMIC TRANSMISSION OF DCD AND UCD MESSAGES IN A WIMAX NETWORK	12/235,948
COMMUNICATION RETRANSMISSION BASED ON TRANSMISSION PERFORMANCE RELATIVE TO EXPECTED QUALITY OF SERVICE	12/396,166
COMMUNICATION OPERATING MODE SELECTION BASED ON MULTI-PATH SIGNAL POWER MEASUREMENT	12/397,702
PREDICTIVE THROUGHPUT MANAGEMENT	12/389,475
WIRELESS DEVICE HANDOFF BASED UPON DYNAMIC FACTORS	12/324,179
ADJUSTABLE MODULATION FOR OVERHEAD INFORMATION IN WIRELESS COMMUNICATION NETWORKS	12/324,228
DYNAMIC MODE TRANSITION BASED ON RESOURCE UTILIZATION AND USER APPLICATION	12/271,084
METHODS AND DEVICES FOR SHEDULING TRANSMISSIONS IN A WIRELESS NETWRK BASED ON TRAFFIC PRIORITY AND CHANNEL CONDITIONS	12/548,921
METHODS AND DEVICES FOR SCHEDULING TRANSMISSIONS IN A WIRELESS NETOWRK BASED ON CONTENTION AND CHANNEL CONDITIONS	13/276,010

Title	U.S. Application Number
BIDIRECTIONAL UPLINK/DOWNLINK HANDOFF	12/270,204
SYSTEM AND METHOD FOR PAGING CYCLE MANAGEMENT IN A WIRELESS NETWORK	12/819,887
DYNAMIC ALLOCATION OF RANGING SUBCHANNELS	12/268,123
SYSTEM AND METHOD FOR NETWORK OPTIMIZATION	12/753,663
SYSTEM AND METHOD FOR DYNAMICALLY BALANCING A MAXIMUM NUMBER OF ACTIVE REMOTE DEVICE USERS BETWEEN BASE STATIONS	12/985,933
METHOD AND SYSTEM FOR MANAGEING TRAFFIC IN A WIRELESS COMMUNICATION SYSTEM	12/712,651
SYSTEM AND METHOD TO UTILIZE WHITE SPACE OR THE VACANT TV AIRWAVES IN 4G NETWORKS	12/416,983
METHOD AND SYSTEM FOR IMPROVING PERFORMANCE OF BROADCAST/MULTICAST TRANSMISSIONS	12/410,008
SYSTEMS AND METHODS OF INFORMATION TRANSMISSION	12/479,913

9

Granted Patents

Title	U.S. Patent Number
SYSTEMS AND METHODS OF SUPPORTING MULTIPLE WIRELESS COMMUNICATION TECHNOLOGIES	7,843,870
GLOBAL WiMAX DEVICE REGISTRY	8,032,115
RANGING RESOURCE ALLOCATION FOR WIRELESS DEVICES IN NETWORKS PROVIDING ACCESS BY WI-MAX AND LIKE PROTOCOLS	7,693,530
METHOD AND SYSTEM FOR CONFIGURING A TOWER TOP LOW NOISE AMPLIFIER	7,937,063
METHOD AND SYSTEM FOR OVERLOAD CONTROL	7,961,610
MOBILE STATION SERVICE SESSION HANDOFF	7,929,497
COMMUNICATION SYSTEM AND METHOD FOR FILTERING AND ATTENUATING A SIGNAL BETWEEN AN ANTENNA SYSTEM AND A BASE STATION	8,027,646
LOAD SIMULATION FOR TESTING UPLINK OF WIRELESS NETWORKS	8,019,385
USING BASE-STATION LOCATION TO ASSIST MOBILE-DEVICE SYSTEM ACQUISITION	7,920,877
SYSTEMS AND METHODS OF ALLOCATING RADIO RESOURCES	7,978,724
SEPARATION AND COMBINATION OF MULTIPLE CHANNELS IN A BI-DIRECTIONAL TIME-DIVISION COMMUNICATION SYSTEM	7,733,814
DATA RATE MANAGEMENT IN A COMMUNICATION NETWORK	7,929,567
METHOD FOR OBTAINING A MOBILE INTERNET PROTOCOL ADDRESS	8,023,484
METHOD FOR OBTAINING A MOBILE INTERNET PROTOCOL ADDRESS	8,036,222
METHOD AND SYSTEM FOR CONFIGURING A TOWER TOP LOW NOISE AMPLIFIER	7,831,213
FACILITATING A CHANNEL CHANGE BETWEEN MULTIPLE MULTIMEDIA DATA STREAMS	7,769,035
ENHANCED RANGING IN WIMAX	8,036,225
CONNECTION IDENTIFIER RESERVATION IN A WIRELESS COMMUNICATION SYSTEM	8,031,665
COMMUNICATIONS DATA IN VARIOUS MODES USING HEADER-COMPRESSION ALGORITHMS	7,948,913
DYNAMIC TWO-DIMENSIONAL CODING FOR APPLICATIONS	7,970,920

10