PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID E. NEWMAN	06/15/2023
R. KEMP MASSENGILL	06/15/2023

RECEIVING PARTY DATA

Name:	ULTRALOGIC 6G, LLC
Street Address:	709 VIA DEL MONTE
City:	PALOS VERDES ESTATES
State/Country:	CALIFORNIA
Postal Code:	92074

PROPERTY NUMBERS Total: 169

Property Type	Number
Application Number:	63476032
Application Number:	18096052
Application Number:	18199524
Application Number:	63435061
Application Number:	18098290
Application Number:	63437839
Application Number:	18098982
Application Number:	63441488
Application Number:	18126402
Application Number:	63444380
Application Number:	18191012
Application Number:	63447167
Application Number:	18191015
Application Number:	63448422
Application Number:	18191017
Application Number:	63451722
Application Number:	18191019
Application Number:	63496769
Application Number:	18305307

Property Type	Number
Application Number:	18309844
Application Number:	63497844
Application Number:	63463167
Application Number:	18312816
Application Number:	63464686
Application Number:	18318017
Application Number:	62924914
Application Number:	16943214
Application Number:	17175430
Application Number:	17531905
Application Number:	63009609
Patent Number:	11160111
Application Number:	17484131
Application Number:	17737267
Application Number:	63023462
Application Number:	62705114
Application Number:	16949284
Application Number:	17350039
Application Number:	17588652
Application Number:	63113420
Application Number:	63151270
Application Number:	63114168
Application Number:	63117720
Application Number:	63118156
Application Number:	63199061
Application Number:	63199063
Application Number:	63127421
Application Number:	63131902
Application Number:	63131905
Application Number:	63131908
Application Number:	63134338
Application Number:	63157090
Application Number:	63159195
Application Number:	63159238
Application Number:	17484132
Patent Number:	11510096
Application Number:	17990018
Application Number:	63159239

Property Type	Number
Application Number:	63170631
Application Number:	63176996
Application Number:	63170633
Application Number:	63170635
Patent Number:	11395135
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Application Number:	63170642
Application Number:	63210216
Application Number:	63220669
Application Number:	63214489
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Patent Number:	11496266
Patent Number:	11626955
Application Number:	18121779
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Application Number:	63255586
Patent Number:	11523334
Application Number:	17994830
Application Number:	63256042
Patent Number:	11627524
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Application Number:	63271335
Application Number:	63272352
Patent Number:	11558731
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Application Number:	63274221
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Application Number:	18121243
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Application Number:	63276745
Patent Number:	11533084
Application Number:	18076460
Application Number:	63278578

Property Type	Number
Application Number:	17841235
Application Number:	18196722
Application Number:	63280281
Patent Number:	11522636
Application Number:	18070710
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Application Number:	18098260
Application Number:	63281847
Patent Number:	11522637
Application Number:	18070950
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Application Number:	63310364
Patent Number:	11522745
Application Number:	18070866
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Application Number:	63313380
Patent Number:	11601320
Application Number:	18117519
Application Number:	63317177
Patent Number:	11523461

Property Type	Number
Application Number:	18072761
Application Number:	63321878
Patent Number:	11627592
Application Number:	18124179
Application Number:	63321879
Patent Number:	11616668
Application Number:	18121710
Application Number:	63327005
Patent Number:	11522634
Application Number:	18070731
Application Number:	63327007
Patent Number:	11528178
Application Number:	18075489
Application Number:	63329593
Patent Number:	11522740
Application Number:	17991069
Application Number:	63329599
Application Number:	63342437
Patent Number:	11652533
Application Number:	18125317
Application Number:	18127741
Application Number:	18127760
Patent Number:	11671305
Application Number:	18137140
Application Number:	18117535
Application Number:	17994876
Application Number:	18096047
Application Number:	16819546
Application Number:	17028018
Application Number:	17106431
Application Number:	17375051
Application Number:	17588614
Application Number:	62983029
Application Number:	16723198
Application Number:	17241519
Application Number:	17542731

CORRESPONDENCE DATA

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Address Line 4:	MORRISTOWN, NEW JERSEY 07960

ATTORNEY DOCKET NUMBER:	ULTRALOGIC 6G MASS ASSIGN
NAME OF SUBMITTER:	MICHELLE WOLF
SIGNATURE:	/michelle wolf/
DATE SIGNED:	06/16/2023

Total Attachments: 19

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ASSIGNMENT

We, David E. Newman and R. Kemp Massengill have made certain inventions or discoveries (or both) set forth in the applications for Letters Patent attached hereto as Exhibit A.

and

WHEREAS, Ultralogic 6G, LLC, having a place of business at 709 Via Del Monte, Palos Verdes Estates, California 92074 (hereinafter referred to as "assignee", which term includes the successors and assigns of assignee), is desirous of acquiring the entire right, title and interest, in and to said invention and in and to said letters patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW THEREFORE, be it known that in consideration of the payment by assignee to each assignor of the sum of one dollar ($1.00) and for other good and valuable consideration, the receipt of which is hereby acknowledged, assignors, collectively and severally, hereby sell, assign and transfer to assignee their full and complete right, title, and interest in and to said invention and said patent application (including the rights of priority thereto) in the United States, its possessions, and in all foreign countries, and to all Letters Patent or similar legal protection in the United States, its possessions, and any and all foreign countries to be obtained on said invention or issuing from said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment, sale, and transfer.

ASSIGNOR further covenants that assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, application, and Letters Patent and legal equivalents thereto in such foreign countries as may be known to and within the control of assignors and assignors will in good faith testify as to the same in any interference, proceeding, or litigation

related thereto and will promptly execute and deliver to assignee or its legal representative any and all papers, instruments, affidavits, or the like required or useful to apply for, obtain, maintain, issue and enforce said application or Letters Patent or equivalent thereof in any aforesaid country of the world which may be necessary or desirable therefor.

IN WITNESS WHEREOF, I have hereunto set my signature representing my hand and seal on the respective date(s) indicated.

/David E. Newman/ June 15, 2023

_____ Date _____

David E. Newman

/ r. kemp massengill / June 15, 2023

_____ Date _____

R. Kemp Massengill

Exhibit A

Case Number	Application No.	Patent No.	Application Title
6900/100	63/476,032		Guard-Space Timestamp Point for Precision Synchronization in 5G and 6G
6900/100	18/096,052		Guard-Space Timestamp Point for Precision Synchronization in 5G and 6G
6900/100	18/199,524		Phase-Shift Guard-Space Timestamp Point for 5G/6G Synchronization
6900/101	63/435,061		Compact Timing Signal for Low-Complexity 5G/6G Synchronization
6900/101	18/098,290		Compact Timing Signal for Low-Complexity 5G/6G Synchronization
6900/102	63/437,839		Ultra-Lean Synchronization Procedure for 5G and 6G Networking
6900/102	18/098,982		Ultra-Lean Synchronization Procedure for 5G and 6G Networking
6900/103	63/441,488		Multiplexed Code for ACK/SR/Power/Beam Feedback in 5G and 6G
6900/103	18/126,402		Multiplexed Code for ACK/SR/Power/Beam Feedback in 5G and 6G

6900/104	63/444,380		Concise Feedback for Downlink Beam and Power Adjustment in 5G and 6G
6900/104	18/191,012		Concise Feedback for Downlink Beam and Power Adjustment in 5G and 6G
6900/105	63/447,167		Incremental Realtime Signal-Quality Feedback in 5G/6G
6900/105	18/191,015		Incremental Realtime Signal-Quality Feedback in 5G/6G
6900/106	63/448,422		AI-Managed Channel Quality Feedback in 5G/6G
6900/106	18/191,017		AI-Managed Channel Quality Feedback in 5G/6G
6900/108	63/451,722		Lean Deterministic Beam/Power Feedback During 5G/6G Initial Access
6900/108	18/191,019		Lean Deterministic Beam/Power Feedback During 5G/6G Initial Access
6900/109	63/496,769		Waveform Indicators for Fault Localization in 5G and 6G Messages
6900/109	18/305,307		Waveform Indicators for Fault Localization in 5G and 6G Messages

6900/110	18/309,844		Artificial Intelligence for Fault Localization and Mitigation in 5G/6G
6900/110	63/497,844		Artificial Intelligence for Fault Localization and Mitigation in 5G/6G
6900/111	63/463,167		Signal Quality Input for Error-Detection Codes in 5G and 6G
6900/111	18/312,816		Signal Quality Input for Error-Detection Codes in 5G and 6G
6900/112	63/464,686		Signal Quality Input for Error-Detection Codes in 5G and 6G
6900/112	18/318,017		Error Correction in 5G and 6G using AI-Based Analog-Digital Correlations
6900/12	62/924,914		6900/12 - Wireless Protocol for Improved Throughput and Fairness
6900/13	16/943,214		6900/13C1-US-Wireless Message Collision Avoidance with High Throughput
6900/13	17/175,430		6900/13C2-US-Wireless Message Collision Avoidance with High Throughput
6900/13	17/531,905		6900/13C3-US-Wireless Message Collision Avoidance with High Throughput

6900/16	63/009,609		6900/16P - Managed Transmission of Wireless DAT Messages
6900/16	17/188,572	11,160,111	6900/16C1 - Managed Transmission of Wireless DAT Messages
6900/16	17/484,131		6900/16C2 - Managed Transmission of Wireless DAT Messages
6900/16	17/737,267		6900/16 C3 - Managed Transmission of Wireless DAT Messages
6900/17	63/023,462		6900/17P - Wireless Protocols for Emergency Message Transmission
6900/17	62/705,114		6900/17P2 - Wireless Protocols for Emergency Message Transmission
6900/17	16/949,284		6900/17C1 - US - Wireless Protocols for Emergency Message Transmission
6900/17	17/350,039		6900/17C2 - Wireless Protocols for Emergency Message Transmission
6900/17	17/588,652		6900/17C3 - Rapid Transmission of 5G/6G and Low-Complexity Emergency Messages
6900/21	63/113,420		6900/21P - Wireless Modulation for Mitigation of Noise and Interference

6900/21	63/151,270		6900/21P2 - Wireless Modulation for Mitigation of Noise and Interference
6900/22	63/114,168		6900/22P - High-Power Transmission of Priority Wireless Messages
6900/23	63/117,720		6900/23P - Automatic Frequency Correction for Wireless Mobile Communications
6900/23	63/118,156		6900/23P2 - Automatic Frequency Correction for Wireless Mobile Communications
6900/25	63/199,061		6900/25P - Scheduling Request Protocols for Low Latency at High Throughput
6900/25	63/199,063		6900/25P2 - Scheduling Request Protocols for Low Latency at High Throughput
6900/26	63/127,421		6900/26P - Temporary QoS for Improved Wireless Message Control
6900/27	63/131,902		6900/27P - Early Disclosure of Receiver Address for Low-Latency Messaging
6900/28	63/131,905		6900/28P - Protocols for Rapid Uplink Access on Unregulated Channels
6900/30	63/131,908		6900/30P - Low-Latency Asynchronous Uplink Wireless Message Transmission

6900/31	63/134,338		6900/31P - Network-Based User-Specific Recipient Database for Low Latency
6900/35	63/157,090		6900/35P - Asymmetric Modulation for High-Reliability 5G Communications
6900/36	63/159,195		6900/36P - Asymmetric Modulation for High-Reliability 5G Communications
6900/37	63/159,238		6900/37P - Selecting a Modulation Table to Mitigate 5G Message Faults
6900/37	17/484,132		6900/37C1 - Selecting a Modulation Table to Mitigate 5G Message Faults
6900/37	17/737,366	11,510,096	6900/37 C2 - AI-Based Algorithm for Optimizing Modulation in 5G/6G
6900/37	17/990,018		Fault Detection and Mitigation Based on Fault Types in 5G/6G
6900/38	63/159,239		6900/38P - Artificial Intelligence for Predicting 5G Network Performance
6900/41	63/170,631		6900/41P - Rapid Uplink Access by Modulation of 5G Scheduling Requests
6900/41	63/176,996		6900/41P2 - Rapid Uplink Access by Modulation of 5G Scheduling Requests

6900/42	63/170,633		6900/42P - Rapid Uplink Access by Parallel Signaling on a 5G Random-Access Channel
6900/43	63/170,635		6900/43P - Early Disclosure of Destination Address for Fast Information Transfer in 5G
6900/43	17/577,546	11,395,135	6900/43 C1 - Rapid Multi-Hop Message Transfer in 5G and 6G
6900/43	17/864,726		6900/43 C2 - Just-in-Time Transmission of Data Messages in 5G and 6G
6900/44	63/170,636		6900/44P - Temporary QoS Elevation for High-Priority 5G Messages
6900/45	63/170,642		6900/45P - Managed Database of Recipient Addresses for Fast 5G Message Delivery
6900/49	63/210,216		6900/49P - US - Low-Complexity Access and Machine-Type Communication in 5G
6900/49	63/220,669		6900/49P3 - Low-Complexity Access and Machine-Type Communication in 5G
6900/49	63/214,489		6900/49 P2 Low-Complexity Access and Machine-Type Communication in 5G
6900/5	62/745,866		6900/5P-US - Anti-Tailgating System

6900/52	63/230,926		6900/52P - Error Detection and Correction in 5G by Modulation Quality
6900/53	63/234,911		6900/53P - Short Demodulation Reference for Improved Reception in 5G
6900/53	17/841,061	11,496,266	6900/53 C1 - Demodulation Reference for High Background Rejection in 5G and 6G
6900/53	17/976,950	11,626,955	Resource-Efficient Demodulation Reference for 5G/6G Networking
6900/53	18/121,779		AI-Assisted Selection of Demodulation Reference Type in 5G and 6G
6900/59	63/254,357		6900/59P1 - Low-Complexity Downlink, Uplink, and Sidelink Messaging in 5G
6900/60	63/255,586		6900/60P - Searchable Database of 5G Network Access Information
6900/60	17/875,733	11,523,334	6900/60 C1 - Network Database for Rapid, Low-Complexity 5G/6G Network Access
6900/60	17/994,830		Automatic Base Station Discovery, Selection, and Registration in 5G/6G
6900/61	63/256,042		6900/61P - Hailing Procedure for V2R, V2V, and V2X Initial Contact in 5G

6900/61	17/895,137	11,627,524	6900/61 C1 - Rapid Discovery of Closest Base Station in 5G and 6G Networks
6900/61	18/124,136		Discovery and Initial Access for Reduced-Capability Devices in 5G/6G
6900/62	63/271,335		6900/62P - Semaphore Messages for Rapid 5G and 6G Network Selection
6900/63	63/272,352		6900/63P - Sidelink V2V, V2X, and Low-Complexity IoT Communication in 5G and 6G
6900/63	17/887,632	11,558,731	6900/63 C1 - Spontaneous Low-Complexity Local Sidelink Networks in 5G/6G
6900/63	18/094,812		Self-Selected Unique Identification for Sidelink 5G/6G Communications
6900/64	63/274,221		6900/64 - Rapid Doppler Correction for Mobile V2X Communication in 5G/6G
6900/64	17/858,165	11,611,375	6900/64 C1 - Location-Based System Information and Doppler Correction in 5G/6G
6900/64	18/121,243		Ultra-Lean Localization and Doppler Procedures for 5G and 6G
6900/65	63/276,139		6900/65P - Location-Based Power for High Reliability and Low Latency in 5G/6G

6900/65	17/879,907	11,581,919	6900/65 C1 - Transmission Power Compensation by Attenuation Mapping in 5G and 6G
6900/65	18/104,910		Automatic Condition-Based Adjustment of Transmission Power in 5G and 6G
6900/66	63/276,745		6900/66 - AI-Based Power Allocation for Efficient 5G/6G Communications
6900/66	17/852,622	11,533,084	6900/66 C1 - Automatic Adjustment of Transmission Power for 5G/6G Messaging
6900/66	18/076,460		Throughput Enhancement by Location-Based Power Adjustment in 5G and 6G
6900/67	63/278,578		6900/67P - Location-Based Beamforming for Rapid 5G and 6G Directional Messaging
6900/67	17/841,235		Geographical Localization of 5G/6G Network Users and Base Stations
6900/67	18/196,722		Beamforming Communication Method for Wireless Devices in 5G and 6G
6900/68	63/280,281		6900/68P - Error Detection and Correction by Modulation Quality in 5G/6G
6900/68	17/842,901	11,522,636	6900/68 C1 - Modulation Quality and Fault Mitigation in 5G/6G

6900/68	18/070,710		Message Fault Recovery Without Retransmission in 5G and 6G
6900/69	63/281,187		6900/69P - Error Correction by Merging Copies of 5G/6G Messages
6900/69	17/858,176	11,563,515	6900/69 C1 - Fault Recovery by Selection based on Modulation Quality in 5G/6G
6900/69	18/098,260		Message Fault Localization and Correction in 5G and 6G
6900/70	63/281,847		6900/70P - Retransmission of Selected Message Portions in 5G/6G
6900/70	17/848,828	11,522,637	6900/70 C1 - Selection of Faulted Message Elements by Modulation Quality in 5G/6G
6900/70	18/070,950		Method for Mitigating Branch-Amplitude Faults in 5G and 6G Messages
6900/71	63/282,770		6900/71P - AI-Based Error Detection and Correction in 5G/6G Messaging
6900/71	17/851,722	11,522,638	6900/71 C1 - Artificial Intelligence Fault Localization in 5G and 6G Messages
6900/71	17/991,149		AI Means for Mitigating Faulted Message Elements in 5G/6G

6900/72	63/283,649		6900/72P - Downlink Demarcations for Rapid, Reliable 5G/6G Messaging
6900/72	17/846,100	11,546,111	6900/72 C1 - Demarking the Start and End of 5G/6G Downlink Messages
6900/72	18/084,800		Low-Complexity Method for Identifying Downlink Messages in 5G and 6G
6900/73	63/285,627		6900/73P - Custom Downlink Search-Spaces for Low-Complexity 5G/6G Messaging
6900/73	17/874,499	11,546,112	6900/73 C1 - Resource-Efficient Custom Downlink Search-Space in 5G/6G
6900/73	18/084,807		Parameter Options for Custom Downlink Search Spaces in 5G or 6G
6900/77	63/309,748		6900/77P - Error Detection and Correction in 5G/6G Pulse-Amplitude Modulation
6900/77	17/862,555	11,516,065	6900/77 C1 - Identifying Specific Faults in 5G/6G Messages by Modulation Quality
6900/77	17/991,094		Fault Detection and Correction by Sum-Signal Modulation in 5G or 6G
6900/78	63/309,750		6900/78P - Error Correction by Merging Copies of PAM-Modulated 5G/6G Messages

6900/78	17/902,441	11,546,201	6900/78 C1 - Selection of Message Elements based on Modulation Quality in 5G and 6G
6900/78	18/085,757		Enhanced Fault Correction and Noise Avoidance in 5G/6G Networking
6900/79	63/310,240		6900/79P - Retransmission of Selected PAM-Modulated Message Portions in 5G/6G
6900/79	17/901,314	11,616,679	6900/79 C1 - Detection and Mitigation of 5G/6G Message Faults
6900/79	18/121,735		Recovery of Corrupted 5G/6G Messages by Modulation Quality
6900/80	63/310,364		6900/80P - Artificial-Intelligence Error Mitigation in 5G/6G Messaging
6900/80	17/851,753	11,522,745	6900/80 C1 - Identification and Mitigation of Message Faults in 5G and 6G Communications
6900/80	18/070,866		Method to Locate Faulted Message Elements Using AI in 5G and 6G
6900/80	18/199,399		AI-Based Correction of Corrupted 5G/6G Messages
6900/81	63/313,380		6900/81 P - Short-Form 5G/6G Pulse-Amplitude Demodulation References

6900/81	17/979,814	11,601,320	Single-Point Demodulation Reference for Noise Mitigation in 5G and 6G
6900/81	18/117,519		Low-Complexity Resource-Efficient Demodulation Reference for 5G and 6G
6900/82	63/317,177		6900/82 P - Cascaded Polling for Resource-Efficient Low-Complexity 5G/6G DRX
6900/82	17/881,870	11,523,461	6900/82 C1 - Procedures to Inform Users of Incoming 5G/6G Messages
6900/82	18/072,761		Fast, Low-Complexity Polling in 5G/6G Networks
6900/83	63/321,878		6900/83 P- Cascaded Scheduling Requests for Resource-Efficient 5G and 6G
6900/83	17/883,923	11,627,592	6900/83 C1 - Resource-Efficient Polling and Scheduling of 5G/6G Uplink Messages
6900/83	18/124,179		Ultra-Lean Priority-Aware Uplink Access Scheduling for 5G and 6G
6900/84	63/321,879		6900/84 P - Low-Complexity Demodulation of 5G and 6G Messages
6900/84	17/881,741	11,616,668	6900/84 - Low-Complexity Demodulation of 5G and 6G Messages

6900/84	18/121,710		Identifying Faulted Message Elements by Modulation Consistency in 5G/6G
6900/85	63/327,005		6900/85P - Recovery and Demodulation of Collided 5G/6G Message Elements
6900/85	17/881,801	11,522,634	6900/85 C1 - Collision-Tolerant Modulation and Fault Recovery in 5G and 6G Messages
6900/85	18/070,731		Modulation Schemes for Recovering Collided States in 5G/6G
6900/86	63/327,007		6900/86P - Modulation Including Zero-Power States in 5G and 6G
6900/86	17/883,915	11,528,178	6900/86 C1 - Zero-Power Modulation for Resource-Efficient 5G/6G Messaging
6900/86	18/075,489		Information Content in Zero-Power Modulation States in 5G and 6G
6900/87	63/329,593		6900/87 P - Amplitude-Variation Encoding for High-Density 5G/6G Modulation
6900/87	17/878,238	11,522,740	6900/87 C1 - Modulation Scheme with Amplitude Variation Within Symbol in 5G/6G
6900/87	17/991,069		Measuring and Mitigating Inter-Subcarrier Interference in 5G and 6G

6900/88	63/329,599		6900/88 P - Polarization Encoding for High-Density 5G/6G Communication
6900/90	63/342,437		6900/90P - Resource-Efficient Beam Selection in 5G and 6G
6900/90	17/957,134	11,652,533	Resource-Efficient Beam Selection in 5G and 6G
6900/90	18/125,317		Low-Complexity Procedure for 5G/6G Beam Alignment
6900/91	18/127,741		6900/91 - Deterministic Low-Complexity Beam Alignment for 5G and 6G Users
6900/94	18/127,760		How to Maximize Phase-Noise Margins in 5G and 6G
6900/95	18/095,089	11,671,305	Extremely Compact Phase-Tracking 5G/6G Reference Signal
6900/95	18/137,140		Scheduling Single-Branch Phase-Tracking References in 5G and 6G
6900/97	18/117,535		6900/97C1 - Phase-Tracking Demodulation Reference and Procedure for 5G and 6G
6900/98	17/994,876		Multiplexed Amplitude-Phase Modulation for 5G/6G Noise Mitigation

6900/99	18/096,047		Mid-Symbol Timestamp Point for Precision Synchronization in 5G and 6G
6900/15	16/819,546		Short RTS Messages for Rapid Wireless Communication
6900/15	17/028,018		Short RTS Messages for Rapid Wireless Communication
6900/15	17/106,431		Short RTS Messages for Rapid Wireless Communication
6900/15	17/375,051		Short RTS Messages for Rapid Wireless Communication
6900/15	17/588,614		Rapid Uplink Access in 5G/6G and CDMA-CA Networks
6900/15	62/983,029		Short RTS Messages for Rapid Wireless Communication
6900/14	16/723,198		Short Pre-RTS Packets for Wireless Collision Avoidance
6900/14	17/241,519		Short Pre-RTS Packets for Wireless Collision Avoidance
6900/14	17/542,731		SINGLE-BIT READINESS SIGNAL FOR RAPID ACCESS IN 5G AND 6G