

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI158703

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
Coherent Logix, Incorporated	12/20/2023
RECEIVING PARTY DATA	
Company Name:	ACP Post Oak Credit I LLC
Street Address:	3009 Post Oak Blvd
Internal Address:	Ste 1250
City:	Houston
State/Country:	TEXAS
Postal Code:	77056
PROPERTY NUMBERS Total: 102	
Property Type	Number
Patent Number:	10776085
Patent Number:	11483580
Patent Number:	6317365
Patent Number:	11030023
Patent Number:	10838787
Patent Number:	11163558
Patent Number:	11720479
Patent Number:	7335387
Patent Number:	10747689
Patent Number:	6959310
Patent Number:	11755504
Patent Number:	7289341
Patent Number:	11023272
Patent Number:	7121076
Patent Number:	11726812
Patent Number:	7210078
Patent Number:	11016779
Patent Number:	11544072
Patent Number:	7264955

Property Type	Number
Patent Number:	11594301
Patent Number:	6884143
Patent Number:	9973301
Patent Number:	6933648
Patent Number:	11327753
Patent Number:	10887879
Patent Number:	11350404
Patent Number:	7210079
Patent Number:	11356200
Patent Number:	7132222
Patent Number:	10747709
Patent Number:	7295104
Patent Number:	11550750
Patent Number:	11755382
Patent Number:	10873754
Patent Number:	11323729
Patent Number:	11405245
Patent Number:	7345471
Patent Number:	11544895
Patent Number:	7208356
Patent Number:	11212876
Patent Number:	11683860
Patent Number:	11228339
Patent Number:	11677437
Patent Number:	7346013
Patent Number:	7801242
Patent Number:	8451933
Patent Number:	8654827
Patent Number:	9008216
Patent Number:	9362981
Patent Number:	8151305
Patent Number:	5312456
Patent Number:	8332896
Patent Number:	5226123
Patent Number:	9515776
Patent Number:	5695111
Patent Number:	9900364
Patent Number:	10425462

Property Type	Number
Patent Number:	10893085
Patent Number:	11757962
Patent Number:	8489762
Patent Number:	4945011
Patent Number:	8984159
Patent Number:	9560403
Patent Number:	10425673
Patent Number:	10666998
Patent Number:	10848811
Patent Number:	11206437
Patent Number:	11671642
Patent Number:	8358705
Patent Number:	5443480
Patent Number:	9960787
Patent Number:	10601445
Patent Number:	11233527
Patent Number:	11689215
Patent Number:	8347339
Patent Number:	5260731
Patent Number:	8650598
Patent Number:	5643378
Patent Number:	9009761
Patent Number:	6035307
Patent Number:	9363543
Patent Number:	10567971
Patent Number:	6640085
Patent Number:	9749879
Patent Number:	6603219
Patent Number:	9913153
Patent Number:	10075857
Patent Number:	10206126
Patent Number:	10567981
Patent Number:	11172383
Patent Number:	11706641
Patent Number:	10129601
Patent Number:	6705809
Patent Number:	11234288
Patent Number:	7089339

Property Type	Number
Application Number:	17513336
Patent Number:	11829320
Application Number:	17733678
Application Number:	17318933
Application Number:	17555769
Application Number:	18312411
Application Number:	18144665

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 2127288000
Email: IPDocketing@willkie.com
Correspondent Name: Matthew S. Makover
Address Line 1: 787 Seventh Avenue
Address Line 4: New York , NEW YORK 10019

NAME OF SUBMITTER:	HEATHER SCHNEIDER
SIGNATURE:	HEATHER SCHNEIDER
DATE SIGNED:	04/11/2024

Total Attachments: 27

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this “Agreement”), dated as of December 20, 2023, is made by Coherent Logix, Incorporated (the “Grantor”) in favor of ACP Post Oak Credit I LLC, as Collateral Agent (in such capacity, together with its successors and assigns in such capacity, the “Collateral Agent”).

Recitals

The Collateral Agent, the Grantor and the Lenders from time to time party thereto have entered into a Senior Secured Term Loan Credit Agreement, dated as of December 23, 2022, as amended by Amendment No. 1 to Senior Secured Term Loan Credit Agreement, dated as of December 7, 2023 (the “Amendment”), and as such may be further amended, restated, supplemented or otherwise modified from time to time (the “Credit Agreement”).

Pursuant to the Credit Agreement and as a condition to the extension of credit by the Lenders under the Credit Agreement, the Grantor executed and delivered a Guarantee and Collateral Agreement, dated as of December 23, 2022, as amended by the Amendment (the “Collateral Agreement”), in favor of the Collateral Agent for the ratable benefit of the Secured Parties.

This Agreement is being executed pursuant to Section 9(a) of the Amendment. The Grantor solely and exclusively owns the patents and patent applications listed on Schedule A attached hereto (the “Patents”), which Patents have been issued by or are pending applications in the United States Patent and Trademark Office.

This Agreement has been executed in conjunction with (i) the execution and delivery of the Amendment and (ii) the security interest granted under the Collateral Agreement to the Collateral Agent for the ratable benefit of the Secured Parties. In the event that any provisions of this Agreement are deemed to conflict with the Collateral Agreement, the provisions of the Collateral Agreement shall govern. This Agreement shall be read in conjunction with the Patent Security Agreement dated December 23, 2022, as amended from time to time (“Existing Agreement”) and shall not be considered to have superseded the Existing Agreement in any manner.

Agreement

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1. Definitions. Unless otherwise indicated, all capitalized terms not defined herein shall have the respective meaning given to them in the Collateral Agreement.

2. The Security Interest. The Grantor hereby pledges, assigns and transfers to the Collateral Agent, and grants to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in all of the following property, now owned or at any time hereafter acquired by the Grantor or in which the Grantor now has or at any time in the future may acquire any right, title or interests and whether now existing or hereafter coming into existence: (1) any and all patents and patent applications, including the Patents; (2) all inventions and improvements described and claimed therein; (3) all reissues, reexaminations, divisionals, continuations, renewals, extensions and continuations-in-part thereof; (4) all income, royalties, damages, claims and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future infringements thereof; (5) all rights to sue for

past, present and future infringements thereof; (6) all rights corresponding to any of the foregoing throughout the world; and (7) all Proceeds of the foregoing.

3. Governing Law. **THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.**

IN WITNESS WHEREOF, the Grantor has executed this Agreement by its duly authorized representative as of the date first written above.

GRANTOR

COHERENT LOGIX, INCORPORATED

By: Michael B. Doerr

Name: Michael Doerr

Title: Co-Chief Executive Officer

[Signature Page to Patent Security Agreement]

PATENT
REEL: 067097 FRAME: 0370

IN WITNESS WHEREOF, the Grantor has executed this Agreement by its duly authorized representative as of the date first written above.

Acknowledged and Agreed:

ACP POST OAK CREDIT I LLC
as Collateral Agent

By: 

Name: Matthew E. Laterza

Title Chief Operating Officer

[Signature Page to Patent Security Agreement]

PATENT
REEL: 067097 FRAME: 0371

Patents

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
EP: EXECUTION OF HARDWARE DESCRIPTION LANGUAGE (HDL) PROGRAMS	05762106.2	28-Jun-2005	1766544	04-Dec-2019
CN: EXECUTION OF HARDWARE DESCRIPTION LANGUAGE (HDL) PROGRAMS	200580021770.3	28-Dec-2006	200580021770.3	23-Sep-2009
EP: EXECUTION OF HARDWARE DESCRIPTION LANGUAGE (HDL) PROGRAMS	05762106	28-Jun-2005	1766544	04-Dec-2019
EP: EXECUTION OF HARDWARE DESCRIPTION LANGUAGE (HDL) PROGRAMS	05762106	28-Jun-2005	1766544	04-Dec-2019
PROGRAMMING A MULTI-PROCESSOR SYSTEM	15/951354	12-Apr-2018	10776085	15-Sep-2020
FREQUENCY DIVIDER WITH SYNCHRONOUS RANGE EXTENSION ACROSS OCTAVE BOUNDARIES	12703652.3	11-Jul-2013	2668723	26-Nov-2014
DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	13/915499	11-Jun-2013	11483580	25-Oct-2022
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	20195696.8	11-Sep-2020	3767961	29-Mar-2023
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	13732021.4	11-Jun-2013	2859729	16-Sep-2020

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	13732021.4	11-Jun-2013	2859729	16-Sep-2020
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	13732021.4	11-Jun-2013	2859729	16-Sep-2020
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	602013083545.4	11-Sep-2020	3767961	29-Mar-2023
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	20195696.8	11-Sep-2020	3767961	29-Mar-2023
A DISTRIBUTED ARCHITECTURE FOR ENCODING AND DELIVERING VIDEO CONTENT	20195696.8	11-Sep-2020	3767961	29-Mar-2023
CLOCK DISTRIBUTION NETWORK FOR MULTI-FREQUENCY MULTI-PROCESSOR SYSTEMS	602013018701.0	22-Jun-2015	2932346	15-Mar-2017
PROCESSING SYSTEM WITH SYNCHRONIZATION INSTRUCTION	2015-546462	27-May-2015	6317365	06-Apr-2018
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO	15/219018	25-Jul-2016	11030023	08-Jun-2021
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO	602013013463.4	17-Oct-2016	2923279	02-Nov-2016
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO AND MULTI-LAYER INTERCONNECT	602013013475.8	27-Mar-2013	2923275	02-Nov-2016
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS WITH MULTI-LAYER INTERCONNECT	16/713812	13-Dec-2019	10838787	17-Nov-2020

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO AND MULTI-LAYER INTERCONNECT	20204916.9	30-Oct-2020	3789884	02-Aug-2023
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO AND MULTI-LAYER INTERCONNECT	20204916.9	30-Oct-2020	3789884	02-Aug-2023
PROCESSING SYSTEM WITH INTERSPERSED PROCESSORS DMA-FIFO AND MULTI-LAYER INTERCONNECT	20204916.9	30-Oct-2020	3789884	02-Aug-2023
MULTIPROCESSOR PROGRAMMING TOOLKIT FOR DESIGN REUSE	201811023611.2	04-Sep-2018	ZL201811023611.2	14-Jun-2022
MULTIPROCESSOR PROGRAMMING TOOLKIT FOR DESIGN REUSE	16/818007	13-Mar-2020	11163558	02-Nov-2021
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	16/162558	17-Oct-2018	11720479	08-Aug-2023
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	18211655.8	11-Dec-2018	3499371	07-Jun-2023
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	602013049278.6	08-Nov-2013	2917837	02-Jan-2019
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	2022-058455	31-Mar-2022	7335387	21-Aug-2023
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	18211655.8	11-Dec-2018	3499371	07-Jun-2023
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	602013084007.5	11-Dec-2018	3499371	07-Jun-2023

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
REAL TIME ANALYSIS AND CONTROL FOR A MULTIPROCESSOR SYSTEM	18211655.8	11-Dec-2018	3499371	07-Jun-2023
SECONDARY INTERCONNECTION NETWORK IMPROVEMENTS	602013009459.4	17-Aug-2016	2932398	13-Jul-2016
MULTIPROCESSOR SYSTEM WITH IMPROVED SECONDARY INTERCONNECTION NETWORK	16/252827	21-Jan-2019	10747689	18-Aug-2020
SECONDARY INTERCONNECTION NETWORK IMPROVEMENTS	16174345.5	21-Nov-2013	3109769	16-Oct-2019
MULTIPROCESSOR SYSTEM WITH IMPROVED SECONDARY INTERCONNECTION NETWORK	2019-186694	10-Oct-2019	6959310	11-Oct-2021
MULTIPROCESSOR SYSTEM WITH IMPROVED SECONDARY INTERCONNECTION NETWORK	16/928611	14-Jul-2020	11755504	12-Sep-2023
MULTIPROCESSOR SYSTEM WITH IMPROVED SECONDARY INTERCONNECTION NETWORK	2021-165241	07-Oct-2021	7289341	01-Jun-2023
DYNAMIC RECONFIGURATION OF APPLICATIONS ON A MULTI-PROCESSOR EMBEDDED SYSTEM	602013025442.7	13-Oct-2017	2997469	23-Aug-2017
DYNAMIC RECONFIGURATION OF APPLICATIONS ON A MULTI-PROCESSOR EMBEDDED SYSTEM	15/976021	10-May-2018	11023272	01-Jun-2021
Method, Medium And System For Performing Application Swapping In A Multiprocessor System	201910513077.1	14-Jun-2019	ZL201910513077.1	04-Aug-2023

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
DYNAMIC RECONFIGURATION OF APPLICATIONS ON A MULTI-PROCESSOR EMBEDDED SYSTEM	17185840.0	21-May-2013	3279793	04-Dec-2019
DYNAMIC RECONFIGURATION OF APPLICATIONS ON A MULTI-PROCESSOR EMBEDDED SYSTEM	2020-126852	16-Jul-2020	7121076	08-Aug-2022
DYNAMIC RECONFIGURATION OF APPLICATIONS ON A MULTI-PROCESSOR EMBEDDED SYSTEM	17/243890	29-Apr-2021	11726812	15-Aug-2023
MEMORY-NETWORK PROCESSOR WITH PROGRAMMABLE OPTIMIZATIONS	201811023623.5	04-Sep-2018	ZL201811023623.5	30-May-2023
MEMORY-NETWORK PROCESSOR WITH PROGRAMMABLE OPTIMIZATIONS	2019-100154	29-May-2019	7210078	13-Jan-2023
MEMORY-NETWORK PROCESSOR WITH PROGRAMMABLE OPTIMIZATIONS	16/539185	13-Aug-2019	11016779	25-May-2021
MEMORY-NETWORK PROCESSOR WITH PROGRAMMABLE OPTIMIZATIONS	17/203205	16-Mar-2021	11544072	03-Jan-2023
MEMORY-NETWORK PROCESSOR WITH PROGRAMMABLE OPTIMIZATIONS	2021-139076	27-Aug-2021	7264955	17-Apr-2023
MULTI-FREQUENCY CLOCK SKEW CONTROL FOR INTER-CHIP COMMUNICATION IN SYNCHRONOUS DIGITAL SYSTEMS	602013024523.1	13-Dec-2013	2932600	02-Aug-2017
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	15/331239	21-Oct-2016	11594301	28-Feb-2023
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	201680061446.2	20-Apr-2018	ZL201680061446.2	29-Apr-2022

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	16858323.5	17-May-2018	3365821	29-Jun-2022
DNA ALIGNMENT	2018-520481	20-Apr-2018	6884143	13-May-2021
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	602016073226.2	17-May-2018	3365821	29-Jun-2022
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	16858323.5	17-May-2018	3365821	29-Jun-2022
DNA ALIGNMENT USING A HIERARCHICAL INVERTED INDEX TABLE	16858323.5	17-May-2018	3365821	29-Jun-2022
MEMORY MANAGEMENT AND PATH SORT TECHNIQUES IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	15/359845	23-Nov-2016	9973301	15-May-2018
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	201680068088.8	22-May-2018	ZL201680068088.8	12-Apr-2022
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	19219397.7	23-Dec-2019	3657684	31-Aug-2022
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	602016027502.3	15-Jun-2018	3381128	01-Jan-2020
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	602016074768.5	23-Dec-2019	3657684	31-Aug-2022
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	19219397.7	23-Dec-2019	3657684	31-Aug-2022

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
MEMORY MANAGEMENT IN A POLAR CODE SUCCESSIVE CANCELLATION LIST DECODER	19219397.7	23-Dec-2019	3657684	31-Aug-2022
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	201680080836.4	02-Aug-2018	ZL201680080836.4	09-Jun-2023
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	2018-534109	29-Jun-2018	6933648	23-Aug-2021
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	20161395.7	06-Mar-2020	3686735	04-May-2022
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	16/907715	22-Jun-2020	11327753	10-May-2022
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	602016032696.5	27-Dec-2016	3398053	25-Mar-2020
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	602016071956.8	20-Jul-2018	3686735	04-May-2022
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	20161395.7	20-Jul-2018	3686735	04-May-2022
PROCESSOR INSTRUCTIONS TO ACCELERATE FEC ENCODING AND DECODING	20161395.7	20-Jul-2018	3686735	04-May-2022

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
SCRAMBLING SEQUENCE DESIGN FOR EMBEDDING UE ID INTO FROZEN BITS FOR DCI BLIND DETECTION	201780085964.2	08-Aug-2019	ZL201780085964.2	19-Jul-2022
SCRAMBLING SEQUENCE DESIGN FOR EMBEDDING RECEIVER ID INTO FROZEN BITS FOR BLIND DETECTION	16/786332	10-Feb-2020	10887879	05-Jan-2021
SCRAMBLING SEQUENCE DESIGN FOR EMBEDDING RECEIVER ID INTO FROZEN BITS FOR BLIND DETECTION	17/140688	04-Jan-2021	11350404	31-May-2022
METHOD AND APPARATUS FOR TRANSMITTING POLAR ENCODED DATA	201880030883.7	08-Nov-2019	ZL201880030883.7	06-Sep-2022
IMPLEMENTATION CONSIDERATIONS FOR POLAR CODE CONSTRUCTION	2019-561943	08-Nov-2019	7210079	13-Jan-2023
ENHANCED POLARIZATION WEIGHTING TO ENABLE SCALABILITY IN POLAR CODE BIT DISTRIBUTION	17/345380	11-Jun-2021	11356200	07-Jun-2022
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	201780086069.2	09-Aug-2019	ZL201780086069.2	17-May-2022
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	2019-536263	03-Jul-2019	7132222	29-Aug-2022
MEMORY NETWORK PROCESSOR	16/178738	02-Nov-2018	10747709	18-Aug-2020
MEMORY NETWORK PROCESSOR	201880084620.4	29-Jun-2020	ZL201880084620.4	12-Sep-2023
MEMORY NETWORK PROCESSOR	2020-524772	07-May-2020	7295104	12-Jun-2023
MEMORY NETWORK PROCESSOR	16/931864	17-Jul-2020	11550750	10-Jan-2023

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
MEMORY NETWORK PROCESSOR	109142450	02-Dec-2020	I798605	11-Apr-2023
PROGRAMMING FLOW FOR MULTI-PROCESSOR SYSTEM	16/177680	01-Nov-2018	11755382	12-Sep-2023
PROGRAMMING FLOW FOR MULTI-PROCESSOR SYSTEM	107139064	02-Nov-2018	I703451	01-Sep-2020
PROCESSOR OPERATION METHOD, RELATED COMPUTER SYSTEM, AND NON-TRANSITORY COMPUTER-ACCESSIBLE STORAGE MEDIUM	109125816	30-Jul-2020	I762982	01-May-2022
PROCESSOR OPERATION METHOD, RELATED COMPUTER SYSTEM, AND NON-TRANSITORY COMPUTER-ACCESSIBLE STORAGE MEDIUM	111114174	14-Apr-2022	I806550	21-Jun-2023
LOW LATENCY VIDEO CODEC AND TRANSMISSION WITH PARALLEL PROCESSING	16/216967	11-Dec-2018	10873754	22-Dec-2020
PROPOSE A ROLLING SLICE BASED IP HEVC ENCODER / DECODER	201880085606.6	06-Jul-2020	ZL201880085606.6	04-Jul-2023
LOW LATENCY VIDEO CODEC AND TRANSMISSION WITH PARALLEL PROCESSING	17/129424	21-Dec-2020	11323729	03-May-2022
PROPOSE A ROLLING SLICE BASED IP HEVC ENCODER / DECODER	110100315	05-Jan-2021	I797533	01-Apr-2023
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	107127991	10-Aug-2018	I756460	01-Mar-2022
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	16/697407	27-Nov-2019	11405245	02-Aug-2022
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	201880062510.8	26-Mar-2020	ZL201880062510.8	12-Sep-2023

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	2020-530419	12-Feb-2020	7345471	07-Sep-2023
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	602018028842.2	30-Jan-2020	3688908	29-Dec-2021
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	18756134.5	30-Jan-2020	3688908	29-Dec-2021
SCRAMBLING SEQUENCE DESIGN FOR MULTI-MODE BLOCK DISCRIMINATION ON DCI BLIND DETECTION	18756134.5	30-Jan-2020	3688908	29-Dec-2021
SURROUND VIEW GENERATION	16/582325	25-Sep-2019	11544895	03-Jan-2023
SURROUND VIEW GENERATION	108134959	26-Sep-2019	I805848	21-Jun-2023
ANY WORLD VIEW GENERATION	2021-506937	09-Feb-2021	7208356	10-Jan-2023
HOME POWER DISTRIBUTION WITH MULTIPHASE BRIDGING	16/697775	27-Nov-2019	11212876	28-Dec-2021
HOME POWER DISTRIBUTION WITH MULTIPHASE BRIDGING	108143800	29-Nov-2019	I807137	01-Jul-2023
HOME POWER DISTRIBUTION WITH MULTIPHASE BRIDGING	201980078470.0	28-May-2021	ZL201980078470.0	26-May-2023
HOME POWER DISTRIBUTION WITH MULTIPHASE BRIDGING	17/518805	04-Nov-2021	11683860	20-Jun-2023
COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	16/781099	04-Feb-2020	11228339	18-Jan-2022
METHOD FOR PERFORMING VIRTUAL SEGMENTATION AND WIRED COMMUNICATION DEVICE	202080012461.4	04-Aug-2021	ZL202080012461.4	29-Nov-2022

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
A COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	20709411.1	19-Aug-2021	3921983	27-Sep-2023
COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	17/558141	21-Dec-2021	11677437	13-Jun-2023
A COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	20709411.1	19-Aug-2021	3921983	27-Sep-2023
A COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	20709411.1	19-Aug-2021	3921983	27-Sep-2023
FLEXIBLE DIPLEXER WITH DYNAMICALLY CONFIGURABLE BAND-SPLIT IN HYBRID FIBER COAX DEPLOYMENTS	110116240	05-May-2021	I785594	01-Dec-2022
FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	10/621293	17-Jul-2003	7346013	18-Mar-2008
EP: FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	03748952.3	15-Feb-2005	1525726	15-Dec-2010
FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	12/015274	16-Jan-2008	7801242	21-Sep-2010
DETECTION OF LOW-AMPLITUDE ECHOES IN A RECEIVED COMMUNICATION SIGNAL	12/885179	17-Sep-2010	8451933	28-May-2013
EP: FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	60335375.4-08	15-Feb-2005	1525726	15-Dec-2010

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
EP: FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	03748952	15-Feb-2005	1525726	15-Dec-2010
EP: FREQUENCY DOMAIN EQUALIZATION OF COMMUNICATION SIGNALS	03748952	15-Feb-2005	1525726	15-Dec-2010
ESTIMATION OF LOW-AMPLITUDE ECHOES IN A RECEIVED COMMUNICATION SIGNAL	13/860090	10-Apr-2013	8654827	18-Feb-2014
LOW-AMPLITUDE ECHO ESTIMATION FOR A RECEIVED COMMUNICATION SIGNAL	14/150956	09-Jan-2014	9008216	14-Apr-2015
MECHANISMS FOR LOW-AMPLITUDE ECHO ESTIMATION	14/641701	09-Mar-2015	9362981	07-Jun-2016
MOBILE TELEVISION BROADCAST SYSTEM	12/167708	03-Jul-2008	8151305	03-Apr-2012
MOBILE TELEVISION BROADCAST SYSTEM	200880105340.3	02-Mar-2010	ZL200880105340.3	09-Sep-2015
MOBILE TELEVISION BROADCAST SYSTEM	08772417.5	03-Feb-2010	2183898	14-Sep-2016
MOBILE TELEVISION BROADCAST SYSTEM	2010515275	05-Jan-2010	5312456	12-Jul-2013
MOBILE TELEVISION BROADCAST SYSTEM	602008046299.4	17-Oct-2016	2183898	14-Sep-2016
MOBILE TELEVISION BROADCAST SYSTEM	08772417	04-Nov-2016	2183898	14-Sep-2016
MOBILE TELEVISION BROADCAST SYSTEM	08772417.5	17-Oct-2016	2183898	14-Sep-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	12/472892	27-May-2009	8332896	11-Dec-2012
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	200980126768.0	11-Jan-2011	ZL200980126768.0	05-Mar-2014

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	09755735.9	23-Dec-2010	2321920	21-Oct-2015
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	2011-511821	30-Nov-2010	5226123	22-Mar-2013
WIRELESS TRANSMISSION OF MULTIMEDIA STREAMS WHICH USES CONTROL INFORMATION TO ASSOCIATE ERROR CORRECTION CODING WITH AN AUDIOVISUAL STREAM	13/629844	28-Sep-2012	9515776	06-Dec-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	2013-050176	13-Mar-2013	5695111	13-Feb-2015
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	15183380.3	01-Sep-2015	2991255	01-Jan-2020
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	09755735.9	23-Dec-2010	2321920	21-Oct-2015
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	09755735.9	23-Dec-2010	2321920	21-Oct-2015
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION	09755735.9	23-Dec-2010	2321920	21-Oct-2015
MULTIMEDIA STREAMS WHICH USE CONTROL INFORMATION TO ASSOCIATE AUDIOVISUAL STREAMS	15/346213	08-Nov-2016	9900364	20-Feb-2018

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
MULTIMEDIA STREAMS WHICH USE CONTROL INFORMATION TO ASSOCIATE AUDIOVISUAL STREAMS	15/847636	19-Dec-2017	10425462	24-Sep-2019
AUDIO STAGGER CASTING	16/560715	04-Sep-2019	10893085	12-Jan-2021
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION			2991255	05-Dec-2019
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION			2991255	05-Dec-2019
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH CROSS STREAM ASSOCIATION			2991255	05-Dec-2019
MULTIMEDIA STREAMS WHICH USE CONTROL INFORMATION TO ASSOCIATE AUDIOVISUAL STREAMS	17/124219	16-Dec-2020	11757962	12-Sep-2023
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	12/479423	05-Jun-2009	8489762	16-Jul-2013
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	200980127058	12-Jan-2011	ZL200980127058.X	22-Oct-2014
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	09759541.7	22-Dec-2010	2301222	18-Jan-2012
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	2011-512706	07-Dec-2010	4945011	09-Mar-2012

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	12150157.1	04-Jan-2012	2439904	15-Jan-2014
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	602009004791.4	05-Jun-2009	2301222	18-Jan-2012
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	09759541	05-Jun-2009	2301222	18-Jan-2012
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	09759541	05-Jun-2009	2301222	18-Jan-2012
BIT-EFFICIENT CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13/906135	30-May-2013	8984159	17-Mar-2015
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175709.8	04-Jun-2013	2654265	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175710.6	09-Jul-2013	2654266	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	602009021513.2	16-Jan-2014	2439904	15-Jan-2014
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	12150157.1	28-Jan-2014	2439904	15-Jan-2014

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	12150157.1	22-Jan-2014	2439904	15-Jan-2014
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	201410462318.1	12-Sep-2014	ZL201410462318.1	24-Oct-2017
GENERATING CONTROL INFORMATION FOR USE IN TRANSMISSION WITH A MULTIMEDIA STREAM TO AN AUDIOVISUAL DEVICE	14/618250	10-Feb-2015	9560403	31-Jan-2017
GENERATING CONTROL INFORMATION FOR USE IN TRANSMISSION WITH A MULTIMEDIA STREAM TO AN AUDIOVISUAL DEVICE	15/375603	12-Dec-2016	10425673	24-Sep-2019
GENERATING CONTROL INFORMATION FOR USE IN TRANSMISSION WITH A MULTIMEDIA STREAM TO AN AUDIOVISUAL DEVICE	16/255101	23-Jan-2019	10666998	26-May-2020
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175709.8	05-Jun-2009	2654265	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175709.8	05-Jun-2009	2654265	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175709.8	05-Jun-2009	2654265	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	602009056220.7	05-Jun-2009	2654266	12-Dec-2018

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175710.6	05-Jun-2009	2654266	12-Dec-2018
TRANSMITTING AND RECEIVING CONTROL INFORMATION FOR USE WITH MULTIMEDIA STREAMS	13175710.6	05-Jun-2009	2654266	12-Dec-2018
CONTROL INFORMATION FOR A WIRELESSLY-TRANSMITTED DATA STREAM	16/454651	27-Jun-2019	10848811	24-Nov-2020
CONTROL INFORMATION FOR A WIRELESSLY-TRANSMITTED DATA STREAM	16/951371	18-Nov-2020	11206437	21-Dec-2021
CONTROL INFORMATION FOR A WIRELESSLY-TRANSMITTED DATA STREAM	17/550096	14-Dec-2021	11671642	06-Jun-2023
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	12/474595	29-May-2009	8358705	22-Jan-2013
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	200980125856.9	05-Jan-2011	ZL200980125856.9	07-May-2014
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	09755780.5	16-Dec-2010	2297881	24-Feb-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	2011-511850	30-Nov-2010	5443480	27-Dec-2013
WIRELESS TRANSPORT FRAMEWORK WITH UNCODED TRANSPORT TUNNELING	13/707172	06-Dec-2012	9960787	01-May-2018

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	201410109468.4	24-Mar-2014	ZL201410109468.4	14-Sep-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	602009036481.2	29-May-2009	2297881	24-Feb-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	09755780.5	29-May-2009	2297881	24-Feb-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH UNCODED TRANSPORT TUNNELING	09755780.5	14-Feb-2016	2297881	24-Feb-2016
WIRELESS TRANSPORT FRAMEWORK WITH UNCODED TRANSPORT TUNNELING	15/953666	16-Apr-2018	10601445	24-Mar-2020
WIRELESS TRANSPORT FRAMEWORK WITH UNCODED TRANSPORT TUNNELING	16/814230	10-Mar-2020	11233527	25-Jan-2022
WIRELESS TRANSPORT FRAMEWORK WITH UNCODED TRANSPORT TUNNELING	17/552940	16-Dec-2021	11689215	27-Jun-2023
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	12/475511	30-May-2009	8347339	01-Jan-2013
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	200980126762.3	10-Jan-2011	ZL200980126762.3	10-Dec-2014
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	2011-511890	30-Nov-2010	5260731	02-May-2013

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
WIRELESS TRANSPORT FRAMEWORK WITH VARIABLE EQUALIZER TRAINING	13/690287	30-Nov-2012	8650598	11-Feb-2014
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	2013-92056	25-Apr-2013	5643378	07-Nov-2014
WIRELESS TRANSPORT FRAMEWORK WITH VARIABLE FREQUENCY DOMAIN TRAINING	14/077382	12-Nov-2013	9009761	14-Apr-2015
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	2014-221853	30-Oct-2014	6035307	04-Nov-2016
TRANSMISSION OF MULTIMEDIA STREAMS TO MOBILE DEVICES WITH VARIABLE TRAINING INFORMATION	201410709421.1	28-Nov-2014	ZL201410709421.1	06-Apr-2018
WIRELESS SYSTEM WITH VARIABLE TRAINING INFORMATION BASED ON DEVICE TYPE	14/640303	06-Mar-2015	9363543	07-Jun-2016
BROADCAST/BROADBAND CONVERGENCE NETWORK	14/456817	11-Aug-2014	10567971	18-Feb-2020
BROADCAST/BROADBAND CONVERGENCE NETWORK	2016-534778	10-Feb-2016	6640085	07-Jan-2020
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	14/463125	19-Aug-2014	9749879	29-Aug-2017
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	201480052516.9	24-Mar-2016	ZL201480052516.9	14-Mar-2019
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	14759401.4	14-Mar-2016	3036955	06-Oct-2021

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	2016-536381	24-Mar-2016	6603219	18-Oct-2019
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	10-2016-7007253	18-Mar-2016	10-1830823	13-Feb-2018
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	15/659899	26-Jul-2017	9913153	06-Mar-2018
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	15/873700	17-Jan-2018	10075857	11-Sep-2018
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	15/887360	02-Feb-2018	10206126	12-Feb-2019
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	10-2018-7004282	12-Feb-2018	10-2107915	28-Apr-2020
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	16/268749	06-Feb-2019	10567981	18-Feb-2020
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	201910456225.0	29-May-2019	ZL201910456225.0	06-Jun-2023
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	16/790936	14-Feb-2020	11172383	09-Nov-2021

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	10-2020-7012238	27-Apr-2020	10-2246117	23-Apr-2021
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	10-2021-7012053	22-Apr-2021	10-2324176	03-Nov-2021
PARAMETERIZED RADIO WAVEFORM TECHNIQUES FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	17/517155	02-Nov-2021	11706641	18-Jul-2023
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	10-2021-7036040	03-Nov-2021	10-2512354	16-Mar-2023
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	602014080520.5	14-Mar-2016	3036955	06-Oct-2021
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	14759401.4	14-Mar-2016	3036955	06-Oct-2021
PARAMETERIZED RADIO WAVEFORM FOR OPERATING IN MULTIPLE WIRELESS ENVIRONMENTS	14759401.4	14-Mar-2016	3036955	06-Oct-2021
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	14/822603	10-Aug-2015	10129601	13-Nov-2018
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	201580045562.0	24-Feb-2017	ZL201580045562.0	21-Aug-2020

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	15753570.9	21-Mar-2017	3187012	25-Nov-2020
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	2017-509717	17-Feb-2017	6705809	18-May-2020
ADAPTIVE RECEIVER WITH PRECURSOR CANCELATION	16/186768	12-Nov-2018	11234288	25-Jan-2022
METHOD AND APPARATUS FOR WIRELESS COMMUNICATION	108139389	31-Oct-2019	I757650	11-Mar-2022
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	2020-085102	14-May-2020	7089339	14-Jun-2022
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	15753570.9	21-Mar-2017	3187012	25-Nov-2020
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	602015062535.8	21-Mar-2017	3187012	25-Nov-2020
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	15753570.9	21-Mar-2017	3187012	25-Nov-2020
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	19802006.7	10-May-2021	3881618	10-May-2023
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	19802006.7	10-May-2021	3881618	10-May-2023

<u>Title</u>	<u>Serial No.</u>	<u>Date Filed</u>	<u>Patent No.</u>	<u>Date Issued</u>
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	602019028847.6	10-May-2021	3881618	10-May-2023
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	19802006.7	10-May-2021	3881618	10-May-2023
MULTIPROCESSOR PROGRAMMING TOOLKIT FOR DESIGN REUSE	17/513336	28-Oct-2021	No number; allowed 10/23/2023	N/A
MEMORY NETWORK PROCESSOR	17/969871	20-Oct-2022	11829320	28-Nov-2023
LOW LATENCY VIDEO CODEC AND TRANSMISSION WITH PARALLEL PROCESSING	17/733678	29-Apr-2022	No number; allowed 11/29/2023	N/A
BROADCAST/BROADBAND CONVERGENCE NETWORK	17/318933	12-May-2021	N/A	N/A
SHARED SPECTRUM ACCESS FOR BROADCAST AND BI-DIRECTIONAL, PACKET-SWITCHED COMMUNICATIONS	17/555769	20-Dec-2021	N/A	N/A
COMPREHENSIVE SYSTEM DESIGN TO ADDRESS THE NEEDS FOR VIRTUAL SEGMENTATION OF THE COAXIAL CABLE PLANT	18/312411	4-May-2023	N/A	N/A
HOME POWER DISTRIBUTION WITH MULTIPHASE BRIDGING	18/144665	8-May-2023	N/A	N/A
BROADCAST/BROADBAND CONVERGENCE NETWORK	201480052002.3	22-Mar-2016	ZL201480052002.3	15-Sep-2020
BROADCAST/BROADBAND CONVERGENCE NETWORK	14759370.1	11-Mar-2016	3031162	05-Oct-2022
BROADCAST/BROADBAND CONVERGENCE NETWORK	14759370.1	11-Mar-2016	3031162	05-Oct-2022
BROADCAST/BROADBAND CONVERGENCE NETWORK	14759370.1	11-Mar-2016	3031162	05-Oct-2022

Schedule A