

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5861893

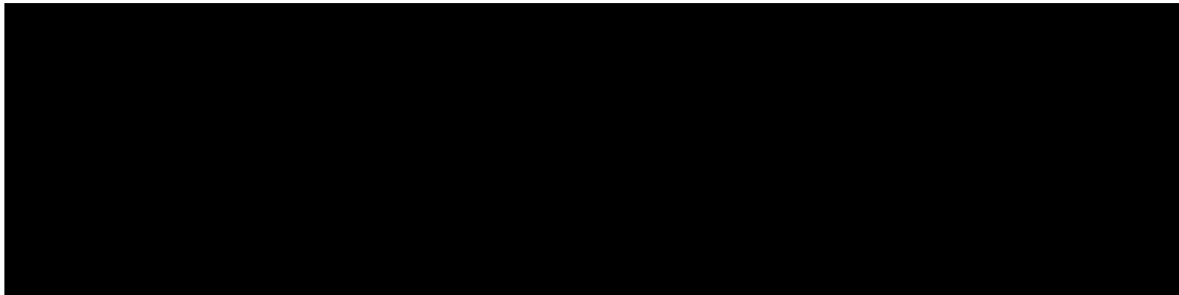
SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SONY EUROPE LIMITED	03/19/2019
RECEIVING PARTY DATA	
Name:	SONY CORPORATION
Street Address:	1-7-1 KONAN
Internal Address:	MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-0075
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16620871
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	LYSSA TARASENKO
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DATE SIGNED:	12/11/2019
Total Attachments: 14	
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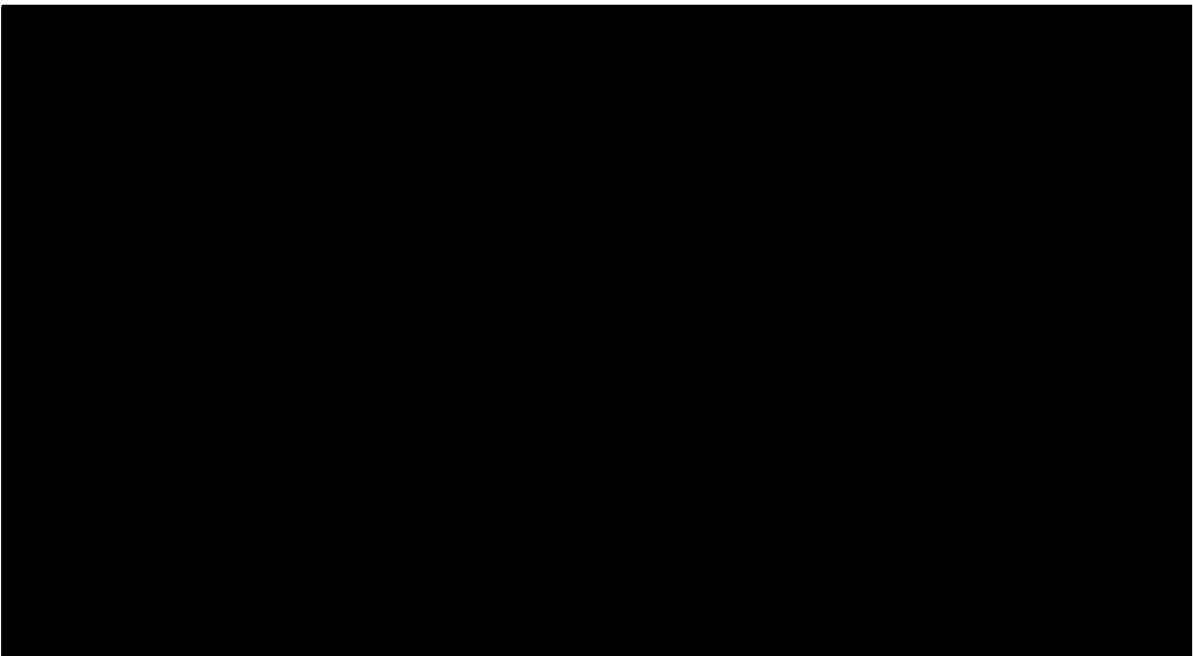
[REDACTED] FULL ASSIGNMENT
FROM SONY EUROPE LIMITED TO SONY CORPORATION

WHEREAS, [REDACTED] the attached APPENDIX (hereinafter referred to as "APPENDIX"), have invented certain new and useful improvements in the invention(s) listed on the same, for which an application for Letters Patent was executed on the priority date included thereon;



AND WHEREAS, SONY CORPORATION, a corporation organized and existing under the laws of Japan, with offices at 1-7-1 Konan, Minato-ku, Tokyo 108-0075, Japan (hereinafter referenced as "ASSIGNEE SONY") is desirous of acquiring the entire right, title and interest in, to and under said invention(s), said application(s) disclosing the invention(s) and in, to and under any Letters Patent or similar legal protection which may be granted therefor in any and all countries worldwide (including in the territory of the United States of America [REDACTED]

[REDACTED] held by ASSIGNEE SEU as the sole owner to the rights by this assignment;



Assignment [REDACTED] SEU to Sony Corp.

[REDACTED]

[REDACTED]

CONCURRENTLY HEREWITH, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, ASSIGNEE SEU has already assigned by other means to said ASSIGNEE SONY, or by these presents do hereby presently assign, sell and transfer unto said ASSIGNEE SONY, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention(s), said application(s), including any divisions, continuations, substitutions and renewals thereof, and in and to any and all Letters Patent which may be granted for said invention(s), in any country (including the territory of the United States of America [REDACTED]

[REDACTED]), and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements, and to any other benefits accruing or to accrue to ASSIGNEE SEU with respect to the filing of applications for patents or securing of patents or other industrial property protection throughout the world (including in the territory of the United States of America [REDACTED]

[REDACTED]) in respect of the inventions which are subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE SONY, or its successors, assigns, and/or legal representatives, to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of any of the Patents or any patents granted on any of the applications for patents or filed as aforesaid, whether occurring before, on or after the date of this agreement.

The undersigned [REDACTED] ASSIGNEE SEU hereby authorize and request the Commissioner of Patents of the United States and its territorial possessions, and other appropriate officials whose duty it is to issue patents in any country in the world, to issue any and all patents resulting from the aforesaid patent applications or any divisions, continuations, substitutions and renewals thereof, when granted, to ASSIGNEE SONY, as the assignee of the full right, title and interest in and to the same [REDACTED]

The undersigned [REDACTED] ASSIGNEE SEU further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE SONY, or its designee or successors, without further remuneration, in order to perfect title in said

Assignment [REDACTED] SEU to Sony Corp.

invention(s), modifications, and improvements in said invention(s), applications and Letters Patent in any country in the world (including in the territory of the United States of America);

The undersigned [REDACTED] ASSIGNEE SEU further agree to properly execute and deliver and without further remuneration or consideration, such necessary or desirable and lawful papers for application(s) for foreign patents, for filing subdivisions of said application(s) for patent, and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for the aforesaid invention(s), as ASSIGNEE SONY shall hereafter require and prepare at their own expense;

The undersigned [REDACTED] ASSIGNEE SEU further agree that ASSIGNEE SONY will, upon request, be provided promptly with all pertinent facts and documents relating to said application(s), said invention(s) and said Letters Patent and legal equivalents in foreign countries as may be known and accessible and will testify as to the same in any interference or litigation related thereto;

The undersigned [REDACTED] ASSIGNEE SEU hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned [REDACTED] ASSIGNEE SEU hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which may be necessary or desirable in order to comply with the rules of the patent office of that country for recordation of this document.

This Assignment Agreement shall be governed by and construed under the laws of the State of New York, United States of America, without regard to conflict of laws principles, all rights and remedies being governed by said laws.

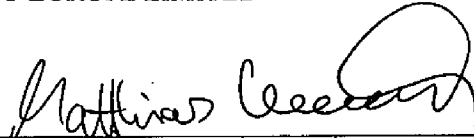
Assignment [REDACTED] SEU to Sony Corp.

This assignment executed on the dates indicated below.




SONY EUROPE LIMITED

Date: 19/March/2019
[DD/MONTH/YYYY]

By: 
Name: Matthias Kabelitz
Title: Intellectual Property Senior Manager
As duly authorized officer

SONY CORPORATION

Date: 20/March/2019
[DD/MONTH/YYYY]

By: 
Name:
Title: Masayoshi Doshida
As duly authorized officer
General Manager
Planning & Control Department
Intellectual Property Division
Sony Corporation

APPENDIX

Title	Inventors	Sony IPE ref.	Application Number	Filing Date	Priority Date
Flexible frame structure for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-067-EP-EPT	17721102.6	27 Apr 2017	13 Mai 2016
Flexible frame structure for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-067-EP-FFWF	16169734.7	13 Mai 2016	13 Mai 2016
Flexible frame structure for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-067-WO-PCT	PCT/EP2017/060113	27 Apr 2017	13 Mai 2016
Flexible frame structure for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-067-US-PCT	16/098134	27 Apr 2017	13 Mai 2016
NUC Indicator for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-129-EP-FFWF	16185036.7	19 Aug 2016	19 Aug 2016
NUC Indicator for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-129-EP-EPT	17752150.7	18 Aug 2017	19 Aug 2016
NUC Indicator for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-129-US-PCT	16/323526	18 Aug 2017	19 Aug 2016
NUC Indicator for NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-129-WO-PCT	PCT/EP2017/070978	18 Aug 2017	19 Aug 2016
Multi Control Channel in eMBB transmission	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-147-EP-EPT	17755548.9	29 Aug 2017	15 Sep 2016
Multi Control Channel in eMBB transmission	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-147-US-PCT	16/331139	29 Aug 2017	15 Sep 2016

Multi Control Channel in eMBB transmission	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-147-WO-PCT	PCT/EP2017/071636	29 Aug 2017	15 Sep 2016
Multi Control Channel in eMBB transmission	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-147-EP-FFWF	16189083.5	15 Sep 2016	15 Sep 2016
Multi Control Channel in eMBB transmission	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-147-TW-NP	106125758	31 Jul 2017	15 Sep 2016
HARQ repair of punctured eMBB transmissions	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel	I-16-163-EP-FFWF	16191978.2	30 Sep 2016	30 Sep 2016
HARQ repair of punctured eMBB transmissions	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel	I-16-163-WO-PCT	PCT/EP2017/072025	01 Sep 2017	30 Sep 2016
HARQ repair of punctured eMBB transmissions	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel	I-16-163-EP-EPT	PCT/EP2017/072025	01 Sep 2017	30 Sep 2016
HARQ repair of punctured eMBB transmissions	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel	I-16-163-US-PCT	PCT/EP2017/072025	01 Sep 2017	30 Sep 2016
SSD transmission of eMBB	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-164-EP-FFWF	16191997.2	30 Sep 2016	30 Sep 2016
SSD transmission of eMBB	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-164-WO-PCT	PCT/EP2017/073508	18 Sep 2017	30 Sep 2016
SSD transmission of eMBB	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-164-EP-EPT	PCT/EP2017/073508	18 Sep 2017	30 Sep 2016
SSD transmission of eMBB	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-164-US-PCT	PCT/EP2017/073508	18 Sep 2017	30 Sep 2016

Cell quality evaluation using multiple beam measurements	Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atungsiri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-182-WO-PCT	PCT/EP2017/076260	13 Okt 2017	04 Nov 2016
Cell quality evaluation using multiple beam measurements	Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atungsiri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-182-EP-FFWF	16197339.1	04 Nov 2016	04 Nov 2016
Transmission that enables the detection of URLLC afflicted eMBB transmissions	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick	I-16-187-WO-PCT	PCT/EP2017/075546	06 Okt 2017	11 Nov 2016
Transmission that enables the detection of URLLC afflicted eMBB transmissions	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick	I-16-187-EP-FFWF	16198538.7	11 Nov 2016	11 Nov 2016
High speed tolerant PBCH for NR	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-202-EP-FFWF	16206517.1	22 Dez 2016	22 Dez 2016
High speed tolerant PBCH for NR	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-16-202-WO-PCT	PCT/EP2017/083955	20 Dez 2017	22 Dez 2016
Signal Space Diversity Interleaving	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-16-149-WO-PCT	PCT/EP2017/081523	05 Dez 2017	23 Dez 2016

Signal Space Diversity Interleaving	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-16-149-EP-FFWF	16206874.6	23 Dez 2016	23 Dez 2016
Alternative Downlink Control Channel Resources in NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-197-WO-PCT	PCT/EP2017/081542	05 Dez 2017	06 Jan 2017
Alternative Downlink Control Channel Resources in NR	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-16-197-EP-FFWF	17150570.4	06 Jan 2017	06 Jan 2017
URLLC HARQ feedback operation	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-16-205-WO-PCT	PCT/EP2017/083875	20 Dez 2017	09 Jan 2017
URLLC HARQ feedback operation	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-16-205-EP-FFWF	17150730.4	09 Jan 2017	09 Jan 2017
New UE ID and blind detection method	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-17-009-EP-FFWF	17154636.9	03 Feb 2017	03 Feb 2017
New UE ID and blind detection method	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-17-009-WO-PCT	PCT/EP2018/052489	01 Feb 2018	03 Feb 2017

URLLC back indication of PDSCH	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-17-012-EP-FFWF	17154893.6	06 Feb 2017	06 Feb 2017
URLLC back indication of PDSCH	Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Wong, Shin Horng	I-17-012-WO-PCT	PCT/EP2018/052110	29 Jan 2018	06 Feb 2017
Dynamic rescheduling of HARQ feedback resources	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-015-EP-FFWF	17155750.7	10 Feb 2017	10 Feb 2017
Dynamic rescheduling of HARQ feedback resources	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-015-WO-PCT	PCT/EP2018/053231	08 Feb 2018	10 Feb 2017
URLLC Self Pre-emption	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Martin, Brian Alexander;Sharma, Vivek	I-17-026-EP-FFWF	17162407.5	22 Mrz 2017	22 Mrz 2017
URLLC Self Pre-emption	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Martin, Brian Alexander;Sharma, Vivek	I-17-026-WO-PCT	PCT/EP2018/057078	20 Mrz 2018	22 Mrz 2017
Sub-PRB Transmission schemes for eMTC	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng;Privanto, Basuki	I-17-032-EP-FFWF	17162920.7	24 Mrz 2017	24 Mrz 2017
Sub-PRB Transmission schemes for eMTC	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng;Privanto, Basuki	I-17-032-WO-PCT	PCT/EP2018/057147	21 Mrz 2018	24 Mrz 2017
Pre-emption Indicator Resource Granularity for URLLC/eMBS Multiplexing	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-055-EP-FFWF	17169347.6	03 Mai 2017	03 Mai 2017
Pre-emption Indicator Resource Granularity for URLLC/eMBS Multiplexing	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-055-WO-PCT	PCT/EP2018/061197	02 Mai 2018	03 Mai 2017

Demodulation reference symbols for NR-PBCH	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-17-057-WO-PCT	PCT/EP2018/061578	04 Mai 2018	05 Mai 2017
Demodulation reference symbols for NR-PBCH	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Wong, Shin Horng	I-17-057-EP-FFWF	17169834.3	05 Mai 2017	05 Mai 2017
Conveying the Synchronisation Block Index via NR-PBCH Demodulation reference symbols	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick	I-17-073-EP-FFWF	17176479.8	16 Jun 2017	16 Jun 2017
Conveying the Synchronisation Block Index via NR-PBCH Demodulation reference symbols	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick	I-17-073-WO-PCT	PCT/EP2018/063683	24 Mai 2018	16 Jun 2017
Pre-emption resource set for common pre-emption indicator	Wong, Shin Horng;Atungsiri, Samuel Asangbeng	I-17-074-EP-FFWF	17176495.4	16 Jun 2017	16 Jun 2017
Pre-emption resource set for common pre-emption indicator	Wong, Shin Horng;Atungsiri, Samuel Asangbeng	I-17-074-WO-PCT	PCT/EP2018/064763	05 Jun 2018	16 Jun 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-WO-PCT	PCT/EP2018/070888	01 Aug 2018	10 Aug 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-TW-NP	107127278	06 Aug 2018	10 Aug 2017
Supplementary Uplink transmission for NR	Wong, Shin Horng;Sharma, Vivek;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-108-EP-FFWF	17185819.4	10 Aug 2017	10 Aug 2017
Wake Up Signal Sequence for IoT	Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek	I-17-116-EP-FFWF	17186065.3	11 Aug 2017	11 Aug 2017

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16/620,871
filed on 12/09/19

Wake Up Signal Sequence for IoT	Atungsirri, Samuel Asangbeng;Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek	I-17-116-WO-PCT	PCT/EP2018/071659	09 Aug 2018	11 Aug 2017
Use of slot format indication (SFI) for NR WUS	Beale, Martin Warwick;Wong, Shin Horng;Sharma, Vivek;Atungsirri, Samuel Asangbeng	I-17-117-EP-FFWF	17186062.0	11 Aug 2017	11 Aug 2017
Use of slot format indication (SFI) for NR WUS	Beale, Martin Warwick;Wong, Shin Horng;Sharma, Vivek;Atungsirri, Samuel Asangbeng	I-17-117-WO-PCT	PCT/EP2018/070903	01 Aug 2018	11 Aug 2017
Power Saving Signal transmissions in eDRX	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-130-WO-PCT	PCT/EP2018/075788	24 Sep 2018	28 Sep 2017
Power Saving Signal transmissions in eDRX	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-130-EP-FFWF	17193861.6	28 Sep 2017	28 Sep 2017
Configurable Indicator in Synchronisation Signal	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-160-EP-FFWF	17201748.5	14 Nov 2017	14 Nov 2017
Configurable Indicator in Synchronisation Signal	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-160-WO-PCT	PCT/EP2018/081246	14 Nov 2018	14 Nov 2017
WUS Formats Selection	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-166-EP-FFWF	17201751.9	14 Nov 2017	14 Nov 2017
WUS Formats Selection	Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-166-WO-PCT	PCT/EP2018/081254	14 Nov 2018	14 Nov 2017
UE specific WUS validity timer	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsirri, Samuel Asangbeng	I-17-164-WO-PCT	PCT/EP2018/080667	08 Nov 2018	15 Nov 2017

UE specific WUS validity timer	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-164-EP-FFWF	17201966.3		15 Nov 2017	15 Nov 2017
Managing of multiple WUS Configurations per UE	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-167-EP-FFWF	17201973.9		15 Nov 2017	15 Nov 2017
Managing of multiple WUS Configurations per UE	Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng	I-17-167-WO-PCT	PCT/EP2018/081383		15 Nov 2018	15 Nov 2017
Modulation symbol repetition & Precoding for eMTC	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Shimezawa, Kazuyuki	I-17-172-EP-FFWF	17202456.4		17 Nov 2017	17 Nov 2017
Modulation symbol repetition & Precoding for eMTC	Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Shimezawa, Kazuyuki	I-17-172-WO-PCT	PCT/EP2018/081402		15 Nov 2018	17 Nov 2017
Frequency Hopping for Wake Up Signal	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng	I-17-173-EP-FFWF	17202451.5		17 Nov 2017	17 Nov 2017
Frequency Hopping for Wake Up Signal	Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng	I-17-173-WO-PCT	PCT/EP2018/080807		09 Nov 2018	17 Nov 2017
Uplink scheduling in IAB	Wei, Yuxin;Sharma, Vivek;Shimezawa, Kazuyuki;Atungsiri, Samuel Asangbeng	I-18-031-EP-FFWF	18164439.4		27 Mar 2018	27 Mar 2018
Uplink scheduling in IAB	Wei, Yuxin;Sharma, Vivek;Shimezawa, Kazuyuki;Atungsiri, Samuel Asangbeng	I-18-031-WO-PCT				27 Mar 2018

Spectral Efficiency for the Integrated Access Backhaul Links in NR	Atungsiri, Samuel Asangbeng;Shimezawa, Kazuyuki	I-18-061-EP-FFWF	18167380.7	13 Apr 2018	13 Apr 2018
Handover optimization for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng	I-18-059-EP-FFWF	18167616.4	16 Apr 2018	16 Apr 2018
Discussions on handover in NTN	Atungsiri, Samuel Asangbeng;Wei, Yuxin	I-18-077-EP-FFWF	18171954.3	11 Mai 2018	11 Mai 2018
Critical message handling in the same DRB	Sharma, Vivek;Atungsiri, Samuel Asangbeng;Wong, Shin Horn;Shimezawa, Kazuyuki;Wakabayashi, Hideji	I-18-071-EP-FFWF	18172380.0	15 Mai 2018	15 Mai 2018
Efficient multiplexing of access and backhaul traffics for the Integrated Access Backhaul Links in NR	Shimezawa, Kazuyuki;Atungsiri, Samuel Asangbeng;Wei, Yuxin	I-18-076-EP-FFWF	18173340.3	18 Mai 2018	18 Mai 2018
2-step RACH enhancement for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-081-EP-FFWF	18178844.9	20 Jun 2018	20 Jun 2018
Ensuring synchronicity in 5G	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji	I-18-082-EP-FFWF	18178838.1	20 Jun 2018	20 Jun 2018
UL mobility and conditional handover optimization for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-108-EP-FFWF	18188060.0	08 Aug 2018	08 Aug 2018
NTN to terrestrial network measurement trigger	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-109-EP-FFWF	18188073.3	08 Aug 2018	08 Aug 2018
SI enhancement for NTN	Wei, Yuxin;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji;Sharma, Vivek	I-18-110-EP-FFWF	18188079.0	08 Aug 2018	08 Aug 2018

NTN handover signaling reduction and mobility without handover signalling	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-18-118-EP-FFWF	18189822.2	20 Aug 2018	20 Aug 2018
Efficient UE location reporting for NTN	Atungsiri, Samuel Asangbeng;Wei, Yuxin;Sharma, Vivek	I-18-132-EP-FFWF	18196379.4	24 Sep 2018	24 Sep 2018
NTN predictive uplink scheduling grant and initial parameter provision with RRC signaling or alternative method.	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng	I-18-131-EP-FFWF	18197363.7	27 Sep 2018	27 Sep 2018
BFR enhancement in NTN	Wei, Yuxin;Sharma, Vivek;Atungsiri, Samuel Asangbeng;Awad, Yassin Aden	I-18-181-EP-FFWF	18214932.8	20 Dez 2018	20 Dez 2018
Enhancements on Inactive state in NTN	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Atungsiri, Samuel Asangbeng;Awad, Yassin Aden	I-18-196-EP-FFWF	19152668.0	18 Jan 2019	18 Jan 2019
Beam management for NTN	Wei, Yuxin;Awad, Yassin Aden;Sharma, Vivek;Atungsiri, Samuel Asangbeng;Wakabayashi, Hideji	I-19-014-EP-FFWF	19156988.8	13 Feb 2019	13 Feb 2019
2-step RACH follow through to 4-step RACH	Atungsiri, Samuel Asangbeng;Beale, Martin Warwick;Awad, Yassin Aden;Wei, Yuxin;Shimezawa, Kazuyuki	I-19-038-EP-FFWF	19157594.3	15 Feb 2019	15 Feb 2019