

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

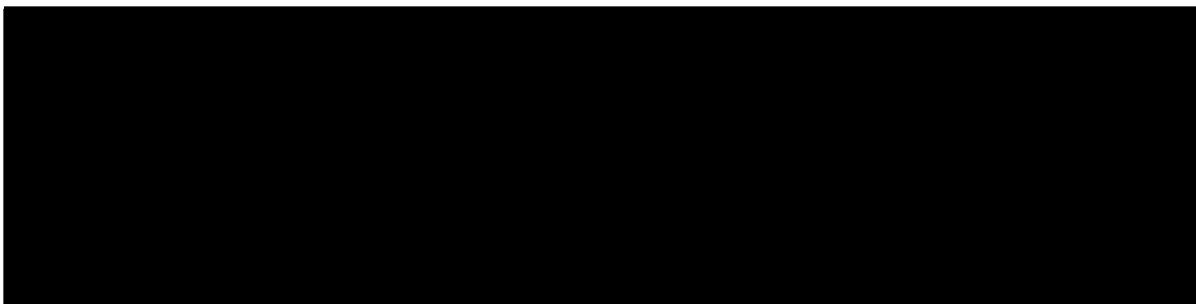
EPAS ID: PAT5861623

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:	16475697
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	XSENSUSPAT@XSENSUS.COM
Correspondent Name:	XSENSUS, LLP
Address Line 1:	200 DAINGERFIELD ROAD
Address Line 2:	SUITE 201
Address Line 4:	ALEXANDRA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	12979US01
NAME OF SUBMITTER:	TIERNEY FARREL
SIGNATURE:	/TIERNEY FARREL/
DATE SIGNED:	12/11/2019
Total Attachments: 32	
source=SONY EP TO SONY CORP#page1.tif	
source=SONY EP TO SONY CORP#page2.tif	
source=SONY EP TO SONY CORP#page3.tif	
source=SONY EP TO SONY CORP#page4.tif	
source=SONY EP TO SONY CORP#page5.tif	

source=SONY EP TO SONY CORP#page6.tif
source=SONY EP TO SONY CORP#page7.tif
source=SONY EP TO SONY CORP#page8.tif
source=SONY EP TO SONY CORP#page9.tif
source=SONY EP TO SONY CORP#page10.tif
source=SONY EP TO SONY CORP#page11.tif
source=SONY EP TO SONY CORP#page12.tif
source=SONY EP TO SONY CORP#page13.tif
source=SONY EP TO SONY CORP#page14.tif
source=SONY EP TO SONY CORP#page15.tif
source=SONY EP TO SONY CORP#page16.tif
source=SONY EP TO SONY CORP#page17.tif
source=SONY EP TO SONY CORP#page18.tif
source=SONY EP TO SONY CORP#page19.tif
source=SONY EP TO SONY CORP#page20.tif
source=SONY EP TO SONY CORP#page21.tif
source=SONY EP TO SONY CORP#page22.tif
source=SONY EP TO SONY CORP#page23.tif
source=SONY EP TO SONY CORP#page24.tif
source=SONY EP TO SONY CORP#page25.tif
source=SONY EP TO SONY CORP#page26.tif
source=SONY EP TO SONY CORP#page27.tif
source=SONY EP TO SONY CORP#page28.tif
source=SONY EP TO SONY CORP#page29.tif
source=SONY EP TO SONY CORP#page30.tif
source=SONY EP TO SONY CORP#page31.tif
source=SONY EP TO SONY CORP#page32.tif

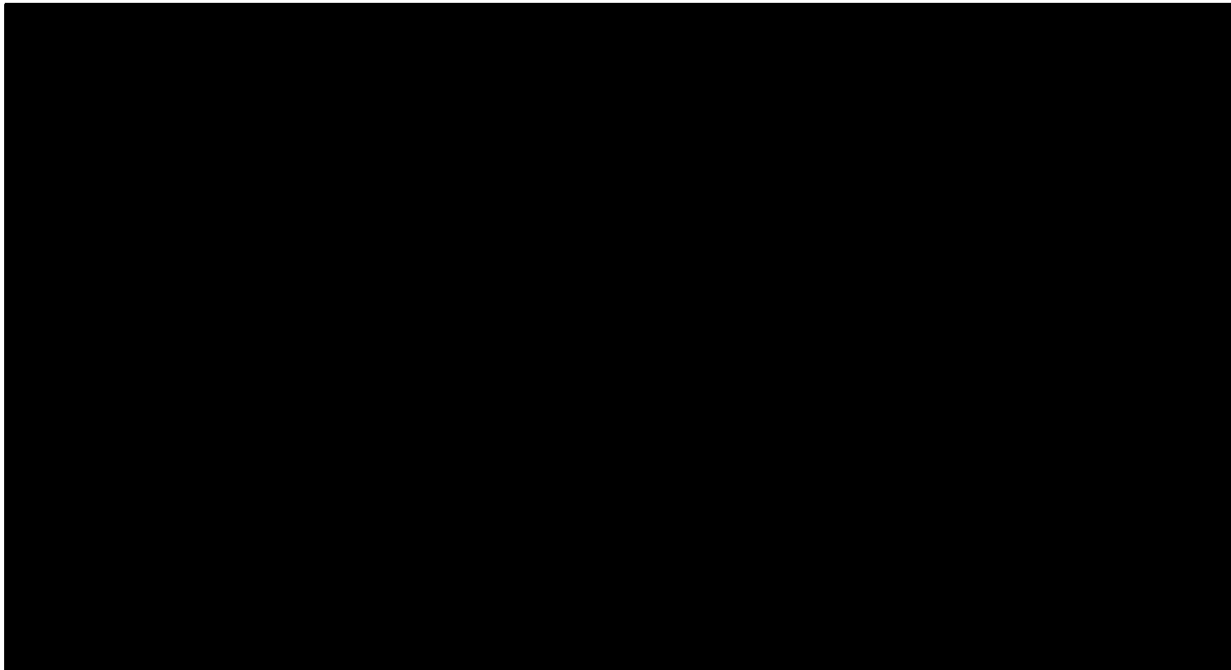
**[REDACTED] FULL ASSIGNMENT
FROM SONY EUROPE LIMITED TO SONY CORPORATION**

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;



[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.

[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]

[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);

[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;

[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;

[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;

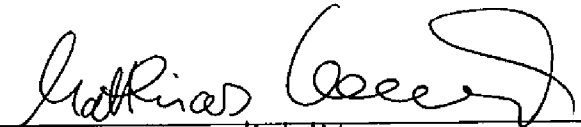
[REDACTED] ASSIGNEE SEU hereby authorize and request the attorney(s) of record in this application to insert on the APPENDIX any further identification, including the filing date and application number of the country in which an application for Letters Patent has been or will be subsequently filed, which 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.



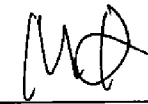
SONY EUROPE LIMITED

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

By: 
Name: *Matthias Kubitze*
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
Determination of physical transmission format as a function of UE speed	Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin	I-15-117-WO-PCT	PCT/EP2016/069826	22 Aug 2016	25 Sep 2015
Determination of physical transmission format as a function of UE speed	Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin	I-15-117-EP-EPT	16756682.7	22 Aug 2016	25 Sep 2015
Determination of physical transmission format as a function of UE speed	Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin	I-15-117-US-PCT	15/751510	22 Aug 2016	25 Sep 2015
Determination of physical transmission format as a function of UE speed	Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin	I-15-117-EP-FFWF	15186993.0	25 Sep 2015	25 Sep 2015
Relay UE Selection for D2D Link	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-103-WO-PCT	PCT/EP2016/072452	21 Sep 2016	01 Okt 2015
Relay UE Selection for D2D Link	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-103-EP-EPT	16775128.8	21 Sep 2016	01 Okt 2015
Relay UE Selection for D2D Link	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-103-EP-FFWF	15188002.8	01 Okt 2015	01 Okt 2015
Relay UE Selection for D2D Link	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-103-US-PCT	15/753075	21 Sep 2016	01 Okt 2015
UE-to-UE relay establishment signalling	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-105-WO-PCT	PCT/EP2016/073313	29 Sep 2016	02 Okt 2015
UE-to-UE relay establishment signalling	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-105-EP-FFWF	15188113.3	02 Okt 2015	02 Okt 2015
UE-to-UE relay establishment signalling	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-105-US-PCT	15/752914	29 Sep 2016	02 Okt 2015
UE-to-UE relay establishment signalling	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-105-EP-EPT	16775680.8	29 Sep 2016	02 Okt 2015
Speed dependent resource selection	Martin, Brian Alexander;Wei, Yuxin	I-15-129-US-PCT	15/769935	03 Nov 2016	05 Nov 2015
Speed dependent resource selection	Martin, Brian Alexander;Wei, Yuxin	I-15-129-WO-PCT	PCT/EP2016/076523	03 Nov 2016	05 Nov 2015
Speed dependent resource selection	Martin, Brian Alexander;Wei, Yuxin	I-15-129-EP-FFWF	15193158.1	05 Nov 2015	05 Nov 2015

Speed dependent resource selection	Martin, Brian Alexander;Wei, Yuxin	I-15-129-EP- EPT	16794247.3	03 Nov 2016	05 Nov 2015
Virtual cell RRC connection control	Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-15-121-EP- EPT	16775545.3	21 Sep 2016	09 Nov 2015
Virtual cell RRC connection control	Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-15-121-US- PCT	15/772409	21 Sep 2016	09 Nov 2015
Virtual cell RRC connection control	Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-15-121-WO- PCT	PCT/EP2016/072436	21 Sep 2016	09 Nov 2015
Virtual cell RRC connection control	Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-15-121-EP- FFWF	15193709.1	09 Nov 2015	09 Nov 2015
Semi-autonomous resource selection / dynamic configuration of resource patterns+pools for v2x	Martin, Brian Alexander;Wei, Yuxin;Kahtava, Jussi Tapani;Wakabayashi, Hideji	I-15-133-EP- FFWF	15194635.7	13 Nov 2015	13 Nov 2015
Semi-autonomous resource selection / dynamic configuration of resource patterns+pools for v2x	Martin, Brian Alexander;Wei, Yuxin;Kahtava, Jussi Tapani;Wakabayashi, Hideji	I-15-133-WO- PCT	PCT/EP2016/075245	20 Okt 2016	13 Nov 2015
Semi-autonomous resource selection / dynamic configuration of resource patterns+pools for v2x	Martin, Brian Alexander;Wei, Yuxin;Kahtava, Jussi Tapani;Wakabayashi, Hideji	I-15-133-US- PCT	15/773214	20 Okt 2016	13 Nov 2015
Semi-autonomous resource selection / dynamic configuration of resource patterns+pools for v2x	Martin, Brian Alexander;Wei, Yuxin;Kahtava, Jussi Tapani;Wakabayashi, Hideji	I-15-133-EP- EPT	16784502.3	20 Okt 2016	13 Nov 2015
Virtual Cell Paging	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-137-WO- PCT	PCT/EP2016/080695	12 Dez 2016	17 Dez 2015
Virtual Cell Paging	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-137-EP- FFWF	15200878.5	17 Dez 2015	17 Dez 2015
Virtual Cell Paging	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-137-US- PCT	16/060193	12 Dez 2016	17 Dez 2015

Assignment Inventor to SEU to Sony Corp.

Virtual Cell Paging	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-15-137-EP-EPT	16819477.7	12 Dez 2016	17 Dez 2015
Virtual Cell operation and RRC state Management	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-15-132-WO-PCT	PCT/EP2016/080696	12 Dez 2016	21 Dez 2015
Virtual Cell operation and RRC state Management	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-15-132-EP-FFWF	15201658.0	21 Dez 2015	21 Dez 2015
Virtual Cell operation and RRC state Management	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-15-132-EP-EPT	16809072.8	12 Dez 2016	21 Dez 2015
Virtual Cell operation and RRC state Management	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-15-132-US-PCT	15/781492	12 Dez 2016	21 Dez 2015
Inter-RAT device group capabilities	Martin, Brian Alexander;Wei, Yuxin;Beale, Martin Warwick;Tsuda, Shinichiro;Wakabayashi, Hideji	I-15-123-EP-FFWF	16154318.6	04 Feb 2016	04 Feb 2016
Inter-RAT device group capabilities	Martin, Brian Alexander;Wei, Yuxin;Beale, Martin Warwick;Tsuda, Shinichiro;Wakabayashi, Hideji	I-15-123-EP-EPT	17700412.4	13 Jan 2017	04 Feb 2016
Inter-RAT device group capabilities	Martin, Brian Alexander;Wei, Yuxin;Beale, Martin Warwick;Tsuda, Shinichiro;Wakabayashi, Hideji	I-15-123-US-PCT	16/075264	13 Jan 2017	04 Feb 2016
Inter-RAT device group capabilities	Martin, Brian Alexander;Wei, Yuxin;Beale, Martin Warwick;Tsuda, Shinichiro;Wakabayashi, Hideji	I-15-123-WO-PCT	PCT/EP2017/050649	13 Jan 2017	04 Feb 2016

Virtual cell group handover	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-15-149-US-PCT	16/082286	02 Mrz 2017	16 Mrz 2016
Virtual cell group handover	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-15-149-EP-EPT	17707351.7	02 Mrz 2017	16 Mrz 2016
Virtual cell group handover	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-15-149-WO-PCT	PCT/EP2017/054915	02 Mrz 2017	16 Mrz 2016
Virtual cell group handover	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-15-149-EP-FFWF	16160759.3	16 Mrz 2016	16 Mrz 2016
Paging via relay with cellular fallback indication	Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-037-EP-EPT	17709999.1	13 Mrz 2017	01 Apr 2016
Paging via relay with cellular fallback indication	Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-037-US-PCT	16/090217	13 Mrz 2017	01 Apr 2016
Paging via relay with cellular fallback indication	Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-037-EP-FFWF	16163490.2	01 Apr 2016	01 Apr 2016

Paging via relay with cellular fallback indication	Martin, Brian Alexander, Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-037-WO-PCT	PCT/EP2017/055871	13 Mar 2017	01 Apr 2016
Layered System Information AND Connection Oriented and Connection-less Communication for Virtual Cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-015-WO-PCT	PCT/EP2017/057625	30 Mar 2017	06 Apr 2016
Layered System Information AND Connection Oriented and Connection-less Communication for Virtual Cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-015-EP-FWF	16164131.1	06 Apr 2016	06 Apr 2016
Layered System Information AND Connection Oriented and Connection-less Communication for Virtual Cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-015-US-PCT	16/091538	30 Mar 2017	06 Apr 2016
Layered System Information AND Connection Oriented and Connection-less Communication for Virtual Cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-015-EP-EPT	17713691.8	30 Mar 2017	06 Apr 2016
Virtual Cell operation and RRC state management for reduction of measurement overhead	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-16-018-US-PCT	16/091318	06 Apr 2017	06 Apr 2016
Virtual Cell operation and RRC state management for reduction of measurement overhead	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-16-018-EP-FWF	16164099.0	06 Apr 2016	06 Apr 2016
Virtual Cell operation and RRC state management for reduction of measurement overhead	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-16-018-EP-ETD	18186724.3	31 Jul 2018	06 Apr 2016

Virtual Cell operation and RRC state management for reduction of measurement overhead	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-16-018-EP-EPT	17714831.9	06 Apr 2017	06 Apr 2016
Virtual Cell operation and RRC state management for reduction of measurement overhead	Tsuda, Shinichiro;Wei, Yuxin;Wakabayashi, Hideji	I-16-018-WO-PCT	PCT/EP2017/058250	06 Apr 2017	06 Apr 2016
Contention based uplink transmission for V2X services	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-026-WO-PCT	PCT/EP2017/056597	20 Mrz 2017	07 Apr 2016
Contention based uplink transmission for V2X services	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-026-US-PCT	16/091236	20 Mrz 2017	07 Apr 2016
Contention based uplink transmission for V2X services	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-026-EP-EPT	17711668.8	20 Mrz 2017	07 Apr 2016
Contention based uplink transmission for V2X services	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-026-EP-FFWF	16164323.4	07 Apr 2016	07 Apr 2016
UE centric operation with virtual cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-044-US-PCT	16/097840	30 Mrz 2017	10 Mai 2016
UE centric operation with virtual cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-044-WO-PCT	PCT/EP2017/057626	30 Mrz 2017	10 Mai 2016
UE centric operation with virtual cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-044-EP-FFWF	16168961.7	10 Mai 2016	10 Mai 2016
UE centric operation with virtual cell	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-044-EP-EPT	17714239.5	30 Mrz 2017	10 Mai 2016
Uplink based inter-control unit (CU) handover	Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-069-WO-PCT	PCT/EP2017/058784	12 Apr 2017	20 Mai 2016

Uplink based inter-control unit (CU) handover	Martin, Brian Alexander, Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-069-EP- FFWF	16170731.0	20 Mai 2016	20 Mai 2016
Uplink based inter-control unit (CU) handover	Martin, Brian Alexander, Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-069-US- PCT	16/303146	12 Apr 2017	20 Mai 2016
Uplink based inter-control unit (CU) handover	Martin, Brian Alexander, Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-069-EP- EPT	17716262.5	12 Apr 2017	20 Mai 2016
Random access with relay	Wei, Yuxin; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-058-EP- FFWF	16175809.9	22 Jun 2016	22 Jun 2016
Random access with relay	Wei, Yuxin; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-058-WO- PCT	PCT/EP2017/061029	09 Mai 2017	22 Jun 2016
Random access with relay	Wei, Yuxin; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-058-EP- EPT	17721188.5	09 Mai 2017	22 Jun 2016
Random access with relay	Wei, Yuxin; Martin, Brian Alexander; Wakabayashi, Hideji; Tsuda, Shinichiro; Kosta, Chrysovalantis	I-16-058-US- PCT	16/312580	09 Mai 2017	22 Jun 2016

Buffer Status Reporting (BSR) with relay - not reverse	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-051-WO-PCT	PCT/EP2017/061048	09 Mai 2017	24 Jun 2016
Buffer Status Reporting (BSR) with relay - not reverse	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-051-EP-FFWF	16176296.8	24 Jun 2016	24 Jun 2016
Buffer Status Reporting (BSR) with relay - not reverse	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-051-EP-EPT	17721733.8	09 Mai 2017	24 Jun 2016
Buffer Status Reporting (BSR) with relay - not reverse	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis	I-16-051-US-PCT	16/313055	09 Mai 2017	24 Jun 2016
Mobility management depending on UE mobility	Tsuda, Shinichiro;Wakabayashi, Hideji;Martin, Brian Alexander;Wei, Yuxin	I-16-065-EP-EPT	17732938.0	28 Jun 2017	30 Jun 2016
Mobility management depending on UE mobility	Tsuda, Shinichiro;Wakabayashi, Hideji;Martin, Brian Alexander;Wei, Yuxin	I-16-065-WO-PCT	PCT/EP2017/066016	28 Jun 2017	30 Jun 2016
Mobility management depending on UE mobility	Tsuda, Shinichiro;Wakabayashi, Hideji;Martin, Brian Alexander;Wei, Yuxin	I-16-065-EP-FFWF	16177211.6	30 Jun 2016	30 Jun 2016
Mobility management depending on UE mobility	Tsuda, Shinichiro;Wakabayashi, Hideji;Martin, Brian Alexander;Wei, Yuxin	I-16-065-US-PCT	16/314449	28 Jun 2017	30 Jun 2016

System information provision with beamforming	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-066-EP-FFWF	16177187.8	30 Jun 2016	30 Jun 2016
System information provision with beamforming	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-066-EP-EPT	17725623.7	29 Mai 2017	30 Jun 2016
System information provision with beamforming	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-066-WO-PCT	PCT/EP2017/062854	29 Mai 2017	30 Jun 2016
System information provision with beamforming	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-066-US-PCT	16/313217	29 Mai 2017	30 Jun 2016
On demand system information	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-089-EP-EPT	17749628.8	21 Jul 2017	22 Jul 2016
On demand system information	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-089-WO-PCT	PCT/EP2017/068490	21 Jul 2017	22 Jul 2016
On demand system information	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-089-US-PCT	16/317835	21 Jul 2017	22 Jul 2016
On demand system information	Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-089-EP-FFWF	16180858.9	22 Jul 2016	22 Jul 2016
UE Speed Dependent Uplink Reference Signal Transmission for Mobility in NR	Wong, Shin Horng;Martin, Brian Alexander;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis	I-16-088-EP-EPT	17734373.8	05 Jul 2017	10 Aug 2016

UE Speed Dependent Uplink Reference Signal Transmission for Mobility in NR	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Wakabayashi, Hideji; Kosta, Chrysovalantis	I-16-088-US-PCT	16/322970	05 Jul 2017	10 Aug 2016
UE Speed Dependent Uplink Reference Signal Transmission for Mobility in NR	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Wakabayashi, Hideji; Kosta, Chrysovalantis	I-16-088-WO-PCT	PCT/EP2017/066834	05 Jul 2017	10 Aug 2016
UE Speed Dependent uplink Reference Signal Transmission for Mobility in NR	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Wakabayashi, Hideji; Kosta, Chrysovalantis	I-16-088-EP-FFWF	16183540.0	10 Aug 2016	10 Aug 2016
Inactive RRC State Uplink Feedback for New Radio	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Berggren, Anders; Nord, Lars	I-16-082-EP-FFWF	16183726.5	11 Aug 2016	11 Aug 2016
Inactive RRC State Uplink Feedback for New Radio	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Berggren, Anders; Nord, Lars	I-16-082-WO-PCT	PCT/EP2017/069003	27 Jul 2017	11 Aug 2016
Inactive RRC State Uplink Feedback for New Radio	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Berggren, Anders; Nord, Lars	I-16-082-US-PCT	16/324574	27 Jul 2017	11 Aug 2016
Inactive RRC State Uplink Feedback for New Radio	Wong, Shin Horng; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Berggren, Anders; Nord, Lars	I-16-082-EP-EPT	17749670.0	27 Jul 2017	11 Aug 2016

RRC diversity	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-084-EP- FFWF	16183716.6	11 Aug 2016	11 Aug 2016
RRC diversity	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-084-EP- EPT	17749503.3	11 Aug 2017	11 Aug 2016
RRC diversity	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-084-WO- PCT	PCT/EP2017/070521	11 Aug 2017	11 Aug 2016
RRC diversity	Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro;Martin, Brian Alexander	I-16-084-US- PCT	16/324577	11 Aug 2017	11 Aug 2016
RRC in tight interworking of LTE and NR architecture	Tsuda, Shinichiro;Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji	I-16-090-US- PCT	16/324173	11 Aug 2017	11 Aug 2016
RRC in tight interworking of LTE and NR architecture	Tsuda, Shinichiro;Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji	I-16-090-EP- EPT	17749502.5	11 Aug 2017	11 Aug 2016
RRC in tight interworking of LTE and NR architecture	Tsuda, Shinichiro;Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji	I-16-090-WO- PCT	PCT/EP2017/070518	11 Aug 2017	11 Aug 2016
RRC in tight interworking of LTE and NR architecture	Tsuda, Shinichiro;Wei, Yuxin;Martin, Brian Alexander;Wakabayashi, Hideji	I-16-090-EP- FFWF	16183756.2	11 Aug 2016	11 Aug 2016

Uplink based handover location based trigger	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis	I-16-093-EP- FFWF	16183702.6	11 Aug 2016	11 Aug 2016
Uplink based handover location based trigger	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis	I-16-093-US- PCT	16/323534	14 Jul 2017	11 Aug 2016
Uplink based handover location based trigger	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis	I-16-093-EP- EPT	17742712.7	14 Jul 2017	11 Aug 2016
Uplink based handover location based trigger	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis	I-16-093-WO- PCT	PCT/EP2017/067875	14 Jul 2017	11 Aug 2016
Inter-RAT handover for LTE-NR tight interworking	Wei, Yuxin;Martin, Brian Alexander;Berggren, Anders;Nord, Lars	I-16-104-EP- FFWF	16183964.2	12 Aug 2016	12 Aug 2016
Inter-RAT handover for LTE-NR tight interworking	Wei, Yuxin;Martin, Brian Alexander;Berggren, Anders;Nord, Lars	I-16-104-US- PCT	16/323784	19 Jul 2017	12 Aug 2016
Inter-RAT handover for LTE-NR tight interworking	Wei, Yuxin;Martin, Brian Alexander;Berggren, Anders;Nord, Lars	I-16-104-EP- EPT	17743005.5	19 Jul 2017	12 Aug 2016

Inter-RAT handover for LTE-NR tight interworking	Wei, Yuxin; Martin, Brian Alexander; Berggren, Anders; Nord, Lars	I-16-104-WO-PCT	PCT/EP2017/068249	19 Jul 2017	12 Aug 2016
Dual RRC - RLF recovery	Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-106-US-PCT	16/323262	20 Jul 2017	12 Aug 2016
Dual RRC - RLF recovery	Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-106-EP-EPT	17742251.6	20 Jul 2017	12 Aug 2016
Dual RRC - RLF recovery	Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-106-WO-PCT	PCT/EP2017/068401	20 Jul 2017	12 Aug 2016
Dual RRC- RLF recovery	Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-106-EP-FFWF	16184065.7	12 Aug 2016	12 Aug 2016
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-WO-PCT	PCT/EP2017/071772	30 Aug 2017	28 Sep 2016
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-EP-EPT	PCT/EP2017/071772	30 Aug 2017	28 Sep 2016
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-EP-FFWF	16191055.9	28 Sep 2016	28 Sep 2016
Handling of MCG resources for a SCG split bearer due to security procedure	Sharma, Vivek; Martin, Brian Alexander; Wei, Yuxin; Wakabayashi, Hideji; Tsuda, Shinichiro	I-16-150-US-PCT	PCT/EP2017/071772	30 Aug 2017	28 Sep 2016

UE additional information reporting during connection establishment	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-161-EP-FFWF	16191543.4	29 Sep 2016	29 Sep 2016
UE additional information reporting during connection establishment	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-161-US-PCT	PCT/EP2017/073196	14 Sep 2017	29 Sep 2016
UE additional information reporting during connection establishment	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-161-WO-PCT	PCT/EP2017/073196	14 Sep 2017	29 Sep 2016
UE additional information reporting during connection establishment	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-161-EP-EPT	PCT/EP2017/073196	14 Sep 2017	29 Sep 2016
System information area enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-155-EP-EPT	PCT/EP2017/075371	05 Okt 2017	06 Okt 2016
System information area enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-155-US-PCT	PCT/EP2017/075371	05 Okt 2017	06 Okt 2016
System information area enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-155-EP-FFWF	161922705.8	06 Okt 2016	06 Okt 2016
System information area enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-155-WO-PCT	PCT/EP2017/075371	05 Okt 2017	06 Okt 2016
NR MDT enhancements to collect measurements related to interference at higher frequency	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-169-WO-PCT	PCT/EP2017/075431	05 Okt 2017	07 Okt 2016

Assignment Inventor to SEU to Sony Corp.

NR MDT enhancements to collect measurements related to interference at higher frequency	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-169-EP-FFWF	161922788.4	07 Okt 2016	07 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-EP-FFWF	16196249.3	28 Okt 2016	28 Okt 2016
System information enhancement for NR	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-178-WO-PCT	PCT/EP2017/077531	26 Okt 2017	28 Okt 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-EP-FFWF	16197185.8	03 Nov 2016	03 Nov 2016
On-demand SI and network overload	Sharma, Vivek;Martin, Brian Alexander;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-181-WO-PCT	PCT/EP2017/075068	03 Okt 2017	03 Nov 2016
Cell quality evaluation using multiple beam measurements	Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shih 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
Index based NR SI Table Update Procedure	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-200-WO- PCT	PCT/EP2017/084279	21 Dez 2017	22 Dez 2016
Index based NR SI Table Update Procedure	Wei, Yuxin;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-16-200-EP- FFWF	16206526.2	22 Dez 2016	22 Dez 2016
RLF Report enhancement	Sharma, Vivek;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Wei, Yuxin	I-16-206-EP- FFWF	16206101.4	22 Dez 2016	22 Dez 2016
RLF Report enhancement	Sharma, Vivek;Martin, Brian Alexander;Wakabayashi, Hideji;Tsuda, Shinichiro;Wei, Yuxin	I-16-206-WO- PCT	PCT/EP2017/084280	21 Dez 2017	22 Dez 2016
RRC Inactive State Paging for downlink transmission	Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Berggren, Anders	I-16-207-WO- PCT	PCT/EP2017/080828	29 Nov 2017	23 Dez 2016

RRC Inactive State Paging for downlink transmission	Martin, Brian Alexander, Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Bergren, Anders	I-16-207-EP- FFWF	16206769.8	23 Dez 2016	23 Dez 2016
Triggering of mobility reference signals measurements using cell specific reference signals	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji	I-16-208-EP- FFWF	17150481.4	05 Jan 2017	05 Jan 2017
Triggering of mobility reference signals measurements using cell specific reference signals	Martin, Brian Alexander;Wong, Shin Hornng;Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji	I-16-208-WO- PCT	PCT/EP2017/083279	18 Dez 2017	05 Jan 2017
NR RACH enhancement	Wei, Yuxin;Martin, Brian Alexander;Bergren, Anders;Sharma, Vivek;Wakabayashi, Hideji	I-16-211-EP- FFWF	17150480.6	05 Jan 2017	05 Jan 2017
NR RACH enhancement	Wei, Yuxin;Martin, Brian Alexander;Bergren, Anders;Sharma, Vivek;Wakabayashi, Hideji	I-16-211-WO- PCT	PCT/EP2018/050096	03 Jan 2018	05 Jan 2017

U.S. Serial No.
16/475,697, filed
on 7/3/2019

2-step RACH fallback to 4-step RACH preamble	Martin, Brian Alexander, Wei, Yuxin; Berggren, Anders; Sharma, Vivek; Wakabayashi, Hideji	I-16-212-WO-PCT	PCT/EP2018/050239	05 Jan 2018	06 Jan 2017
2-step RACH fallback to 4-step RACH preamble	Martin, Brian Alexander; Wei, Yuxin; Berggren, Anders; Sharma, Vivek; Wakabayashi, Hideji	I-16-212-EP- FFWF	17150585.2	06 Jan 2017	06 Jan 2017
RRC Inactive State Paging for uplink tracking signal reconfiguration	Martin, Brian Alexander; Wong, Shin Hornig; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji; Berggren, Anders	I-16-217-EP- FFWF	17151167.8	12 Jan 2017	12 Jan 2017
RRC Inactive State Paging for uplink tracking signal reconfiguration	Martin, Brian Alexander; Wong, Shin Hornig; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji; Berggren, Anders	I-16-217-WO-PCT	PCT/EP2017/082858	14 Dez 2017	12 Jan 2017
New UE ID and blind detection method	Martin, Brian Alexander; Wong, Shin Hornig; 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 Hornig,Beale, Martin Warwick;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro;Wakabayashi, Hideji;Atungsirf, Samuel Asangbeng	I-17-009-WO-PCT	PCT/EP2018/052489	01 Feb 2018	03 Feb 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-EP-FFWF	17164265.5	31 Mar 2017	31 Mar 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-TW-NP	107106322	26 Feb 2018	31 Mar 2017
Access barring for remote device via Relay	Martin, Brian Alexander;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-034-WO-PCT	PCT/EP2018/054885	28 Feb 2018	31 Mar 2017
LTE-NR co-existence with simultaneous UL transmissions based on UE triggered solution	Wei, Yuxin;Sharma, Vivek;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-132-EP-FFWF	17193901.0	28 Sep 2017	28 Sep 2017
LTE-NR co-existence with simultaneous UL transmissions based on UE triggered solution	Wei, Yuxin;Sharma, Vivek;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-132-WO-PCT	PCT/EP2018/076085	26 Sep 2018	28 Sep 2017
NR Cell TDD pattern exchange and MDT enhancements	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-133-WO-PCT	PCT/EP2018/076264	27 Sep 2018	28 Sep 2017
NR Cell TDD pattern exchange and MDT enhancements	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-133-EP-FFWF	17193856.6	28 Sep 2017	28 Sep 2017

Further optimizations for Msg1 based on demand SI request	Wei, Yuxin;Sharma, Vivek	I-17-131-WO-PCT	PCT/EP2018/076972	04 Okt 2018	05 Okt 2017
Further optimizations for Msg1 based on demand SI request	Wei, Yuxin;Sharma, Vivek	I-17-131-EP-FFWF	17195076.9	05 Okt 2017	05 Okt 2017
Temporary UE capability band combination update request	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-134-WO-PCT	PCT/EP2018/077026	04 Okt 2018	05 Okt 2017
Temporary UE capability band combination update	Sharma, Vivek;Wei, Yuxin;Berggren, Anders;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-134-EP-FFWF	17195072.8	05 Okt 2017	05 Okt 2017
On-demand system information for positioning assistance information	Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro	I-17-137-EP-FFWF	17199204.3	30 Okt 2017	30 Okt 2017
On-demand system information for positioning assistance information	Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin;Sharma, Vivek;Tsuda, Shinichiro	I-17-137-WO-PCT	PCT/EP2018/079162	24 Okt 2018	30 Okt 2017
A provision of assistance information for accurate positioning under cellular system	Tsuda, Shinichiro;Wakabayashi, Hideji;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-154-EP-FFWF	17201949.9	15 Nov 2017	15 Nov 2017
A provision of assistance information for accurate positioning under cellular system	Tsuda, Shinichiro;Wakabayashi, Hideji;Sharma, Vivek;Wei, Yuxin;Berggren, Anders	I-17-154-WO-PCT	PCT/EP2018/080676	08 Nov 2018	15 Nov 2017
Validity area and duration based positioning assistance information	Wei, Yuxin;Wakabayashi, Hideji;Berggren, Anders;Sharma, Vivek;Tsuda, Shinichiro	I-17-155-EP-FFWF	17201963.0	15 Nov 2017	15 Nov 2017

Validity area and duration based positioning assistance information	Wei, Yuxin;Wakabayashi, Hideji;Berggren, Anders;Sharma, Vivek;Tsuda, Shinichiro	I-17-155-WO-PCT	PCT/EP2018/080794	09 Nov 2018	15 Nov 2017
Service based SI broadcast	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-17-156-EP-FFWF	17201917.6	15 Nov 2017	15 Nov 2017
Service based SI broadcast	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-17-156-WO-PCT	PCT/EP2018/081460	15 Nov 2018	15 Nov 2017
Encryption of Positioning SI	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-158-EP-FFWF	17202193.3	16 Nov 2017	16 Nov 2017
Encryption of Positioning SI	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-158-WO-PCT	PCT/EP2018/081365	15 Nov 2018	16 Nov 2017
Failure handling of encrypted Positioning assistance information	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-159-EP-FFWF	17202195.8	16 Nov 2017	16 Nov 2017
Failure handling of encrypted Positioning assistance information	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin;Tsuda, Shinichiro	I-17-159-WO-PCT	PCT/EP2018/081463	15 Nov 2018	16 Nov 2017
Support of idle mode operation for cellular communication for Aerial Vehicles	Tsuda, Shinichiro;Wakabayashi, Hideji;Wei, Yuxin;Sharma, Vivek	I-17-161-EP-FFWF	17203662.6	24 Nov 2017	24 Nov 2017
Support of idle mode operation for cellular communication for Aerial Vehicles	Tsuda, Shinichiro;Wakabayashi, Hideji;Wei, Yuxin;Sharma, Vivek	I-17-161-WO-PCT	PCT/EP2018/082163	22 Nov 2018	24 Nov 2017

Notification of system information change for unexpected change of positing assistance information	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-165-WO-PCT	PCT/EP2018/082894	28 Nov 2018	30 Nov 2017
Notification of system information change for unexpected change of positing assistance information	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-165-EP-FFWF	17204751.6	30 Nov 2017	30 Nov 2017
Network push SI - Assistance information provision for handover UAVs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-169-EP-FFWF	17205827.3	07 Dez 2017	07 Dez 2017
Network push SI - Assistance information provision for handover UAVs	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro	I-17-169-WO-PCT	PCT/EP2018/083740	06 Dez 2018	07 Dez 2017
Hybrid positioning and multi-level sensor activation	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-185-EP-FFWF	17208148.1	18 Dez 2017	18 Dez 2017
Hybrid positioning and multi-level sensor activation	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-185-WO-PCT	PCT/EP2018/085047	14 Dez 2018	18 Dez 2017
Hybrid positioning and the trigger of preemptive communication for data cache	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-186-WO-PCT	PCT/EP2018/085048	14 Dez 2018	18 Dez 2017
Hybrid positioning and the trigger of preemptive communication for data cache	Wakabayashi, Hideji; Berggren, Anders; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro	I-17-186-EP-FFWF	17208146.5	18 Dez 2017	18 Dez 2017

UAV landing and change of mobility parameters	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-205-WO-PCT	PCT/EP2019/050466	09 Jan 2019	09 Jan 2018
UAV landing and change of mobility parameters	Sharma, Vivek;Wei, Yuxin;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-205-EP-FFWF	18150799.7	09 Jan 2018	09 Jan 2018
RRC connection release for UAVs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-203-EP-FFWF	18151273.2	11 Jan 2018	11 Jan 2018
RRC connection release for UAVs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-203-WO-PCT	PCT/EP2019/050426	09 Jan 2019	11 Jan 2018
Enhancements for UAVs in inactive state with flight path plan.	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-208-EP-FFWF	18151297.1	11 Jan 2018	11 Jan 2018
Enhancements for UAVs in inactive state with flight path plan.	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-17-208-WO-PCT	PCT/EP2019/050120	03 Jan 2019	11 Jan 2018
Relay node system information handling for remote node in IAB	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-001-EP-FFWF	18151305.2	11 Jan 2018	11 Jan 2018
Relay node system information handling for remote node in IAB	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-001-WO-PCT	PCT/EP2019/050111	03 Jan 2019	11 Jan 2018
Different mobility handling for bearers related to single AR/VR/MR service	Sharma, Vivek;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-002-EP-FFWF	18152654.2	19 Jan 2018	19 Jan 2018
Different mobility handling for bearers related to single AR/VR/MR service	Sharma, Vivek;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-002-WO-PCT	PCT/EP2019/050969	15 Jan 2019	19 Jan 2018
Network push SI for RRC_INACTIVE UEs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-18-011-EP-FFWF	18156916.1	15 Feb 2018	15 Feb 2018
Network push SI for RRC_INACTIVE UEs	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro	I-18-011-WO-PCT	PCT/EP2019/052408	31 Jan 2019	15 Feb 2018

GUTI related information in MSG5 while moving from 5GC to EPC	Sharma, Vivek;Alnäs, Svante;Nord, Lars;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-024-EP- FFWF	18157035.9	15 Feb 2018	15 Feb 2018
GUTI related information in MSG5 while moving from 5GC to EPC	Sharma, Vivek;Alnäs, Svante;Nord, Lars;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-024-WO- PCT	PCT/EP2019/053333	11 Feb 2019	15 Feb 2018
Uplink scheduling in IAB	Wei, Yuxin;Sharma, Vivek;Shimezawa, Kazuyuki;Atungsiri, Samuel Asangbeng	I-18-031-WO- PCT			27 Mrz 2018
Uplink scheduling in IAB	Wei, Yuxin;Sharma, Vivek;Shimezawa, Kazuyuki;Atungsiri, Samuel Asangbeng	I-18-031-EP- FFWF	18164439.4	27 Mrz 2018	27 Mrz 2018
Candidate route management in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-041-EP- FFWF	18164770.2	28 Mrz 2018	28 Mrz 2018
Candidate route management in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-041-WO- PCT			28 Mrz 2018
Active route selection in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-042-WO- PCT			28 Mrz 2018
Active route selection in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-042-EP- FFWF	18164792.6	28 Mrz 2018	28 Mrz 2018
ACB for IAB node	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-043-EP- FFWF	18164804.9	28 Mrz 2018	28 Mrz 2018
ACB for IAB node	Sharma, Vivek;Wakabayashi, Hideji;Wei, Yuxin	I-18-043-WO- PCT			28 Mrz 2018

Increased 5G-S-TMSI size handling in msg3 size constrained network	Sharma, Vivek;Alnäs, Svante;Nord, Lars;Wakabayashi, Hideji;Berggren, Anders;Wei, Yuxin	I-18-050-EP- FFWF	18165795.8	04 Apr 2018	04 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
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
Route change procedure in IAB	Wei, Yuxin;Sharma, Vivek;Wakabayashi, Hideji	I-18-080-EP- FFWF	18178593.2	19 Jun 2018	19 Jun 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
BSR enhancement in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Awad, Yassin Aden	I-18-129-EP- FFWF	18197358.7	27 Sep 2018	27 Sep 2018
Fast route change signaling in IAB	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Awad, Yassin Aden	I-18-130-EP- FFWF	18197370.2	27 Sep 2018	27 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
Initial access procedures for NR-U	Awad, Yassin Aden; Sharma, Vivek; Berggren, Anders; Wei, Yuxin; Wakabayashi, Hideji	I-18-144-EP- FFWF	18197359.5	27 Sep 2018	27 Sep 2018
Route change in IAB & with connection to a new parent node	Wei, Yuxin; Sharma, Vivek; Wakabayashi, Hideji; Awad, Yassin Aden	I-18-158-EP- FFWF	18204001.4	01 Nov 2018	01 Nov 2018
Intra-UE prioritization and Multiplexing solutions for handling a mixture of different traffic for IIoT in 5G system	Awad, Yassin Aden; Sharma, Vivek; Wong, Shin Horng; Wei, Yuxin; Shimezawa, Kazuyuki	I-18-180-EP- FFWF	18214944.3	20 Dez 2018	20 Dez 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

Assignment Inventor to SETU to Sony Corp.

Supporting the configuration of more than one configured grant in a cell	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-18-182-EP- FFWF	18214782.7	20 Dez 2018	20 Dez 2018
URLLC Path redundancy in dual connectivity and need for counter check procedure via SN redundant path	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-18-184-EP- FFWF	18214784.3	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
URLLC Path redundancy in dual connectivity and need for reestablishment and resume procedure via SN redundant path	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-18-197-EP- FFWF	19152906.4	21 Jan 2019	21 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
Optimization of UL data transmission message A in 2-step RACH for 5G system	Awad, Yassin Aden;Sharma, Vivek;Bergren, Anders;Wei, Yuxin;Wakabayashi, Hideji	I-19-017-EP- FFWF	19157268.4	14 Feb 2019	14 Feb 2019
State transition and URLLC traffic	Sharma, Vivek;Wei, Yuxin;Bergren, Anders;Awad, Yassin Aden;Wakabayashi, Hideji	I-19-018-EP- FFWF	19157276.7	14 Feb 2019	14 Feb 2019
Location based 2-step RACH	Wei, Yuxin;Bergren, Anders;Sharma, Vivek;Awad, Yassin Aden;Wakabayashi, Hideji	I-19-019-EP- FFWF	19157264.3	14 Feb 2019	14 Feb 2019

Introduce new compression profiles and configuration of different profiles with single PDCP entity	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-19-025-EP-FPWF	19157311.2	14 Feb 2019	14 Feb 2019
Indication of switching MCS table for uplink Intra-UE prioritization and Multiplexing for different URLLC traffic in 5G system	Awad, Yassin Aden;Sharma, Vivek;Wei, Yuxin;Wong, Shin Horng;Wakabayashi, Hideji	I-19-035-EP-FPWF	19157326.0	14 Feb 2019	14 Feb 2019
Relaxed measurements in CONNECTED/IDLE/INACTIVE mode in multi beam scenario	Sharma, Vivek;Beale, Martin Warwick;Wei, Yuxin;Wong, Shin Horng;Awad, Yassin Aden	I-19-036-EP-FPWF	19157287.4	14 Feb 2019	14 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-FPWF	19157594.3	15 Feb 2019	15 Feb 2019
Fast transition to Connected mode for a group of UEs	Sharma, Vivek;Awad, Yassin Aden;Wei, Yuxin;Wakabayashi, Hideji	I-19-026-EP-FPWF	19158952.2	22 Feb 2019	22 Feb 2019