

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5805317

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| SEQUENCE: | 1 |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SHIN HORNG WONG | 03/13/2019 |
| RECEIVING PARTY DATA | |
| Name: | WONG INNOVATIONS LTD. |
| Street Address: | 2 FOX CROFT WALK |
| City: | CHIPPENHAM |
| State/Country: | UNITED KINGDOM |
| Postal Code: | SN15 3YB |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16498436 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | LYSSA TARASENKO |
| SIGNATURE: | /Lyssa Tarasenko/ |
| DATE SIGNED: | 11/05/2019 |
| Total Attachments: 42 | |
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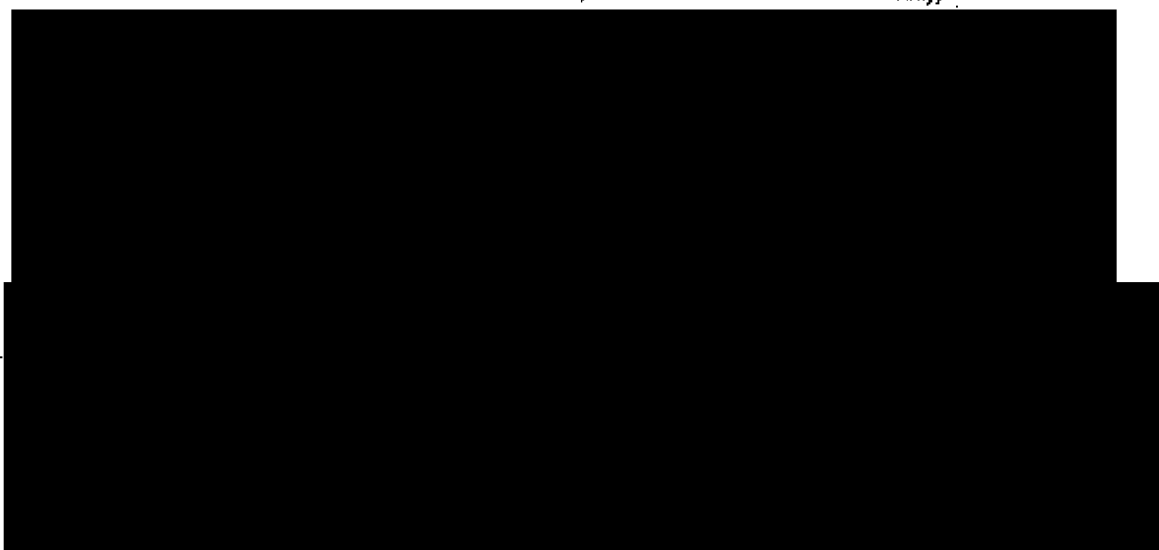
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FULL INVENTOR ASSIGNMENT

WHEREAS, I, as a named inventor listed on 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, Wong Innovations Ltd., a United Kingdom company with offices at 2 Fox Croft Walk, Chippenham, SN15 3YB, UK (hereinafter referenced as "ASSIGNEE"), in accordance with my employment agreement and/or preexisting agreement or mutual understanding between myself and ASSIGNEE, is desirous of acquiring my 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);

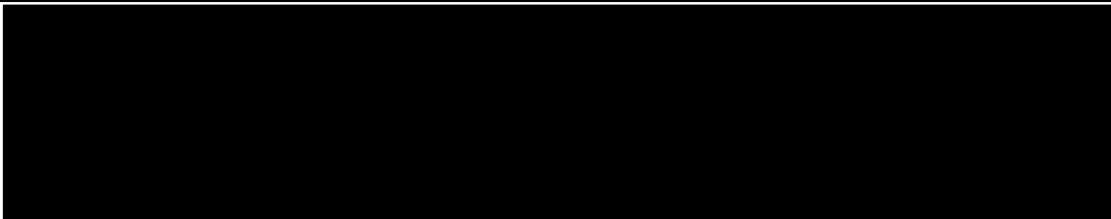
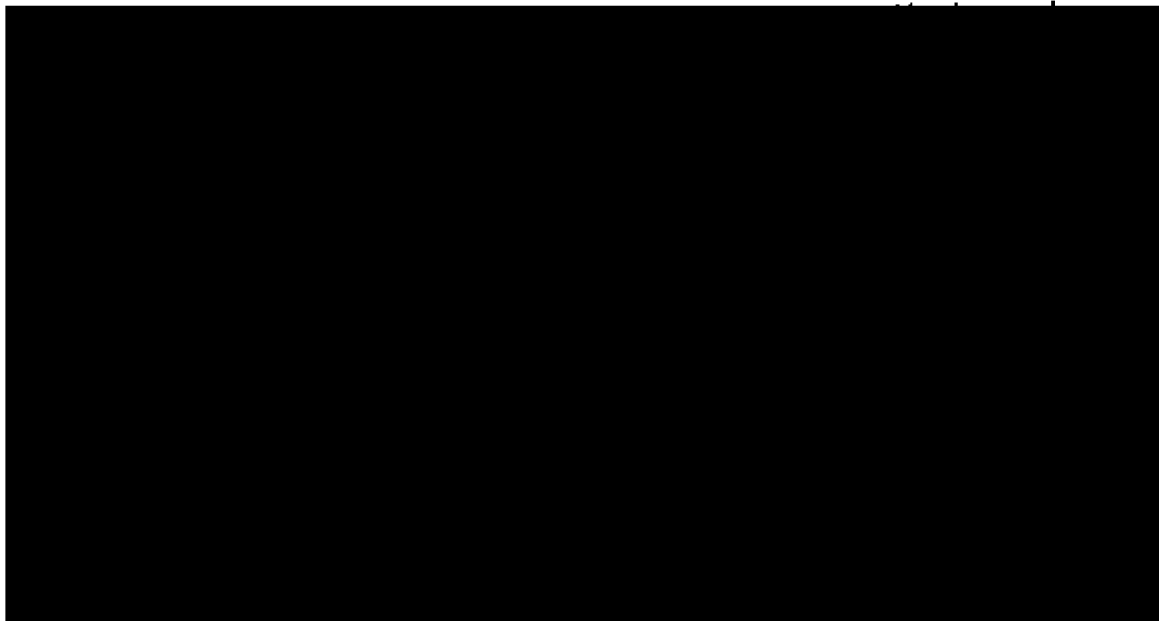


NOW THEREFORE, after good and valuable consideration or in consideration of the recognized value of any past and/or potential collaborative projects in the future, the receipt and sufficiency of which are hereby acknowledged, I, as an inventor as indicated above, by these presents do hereby assign, sell and transfer unto said ASSIGNEE, the entire right, title and interest in and to 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), in and to any and all priority rights and/or convention rights under the International Convention for

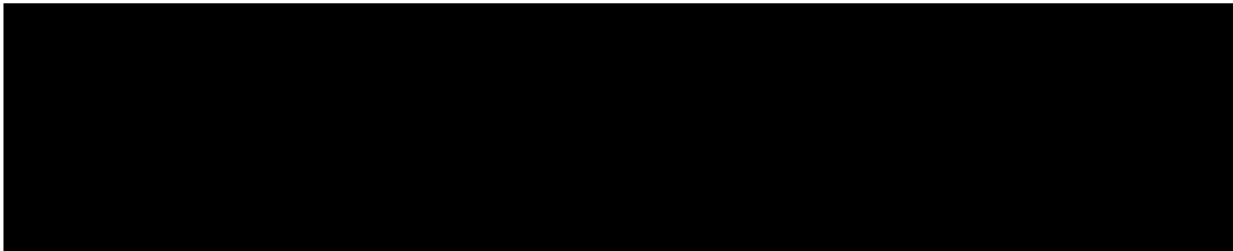
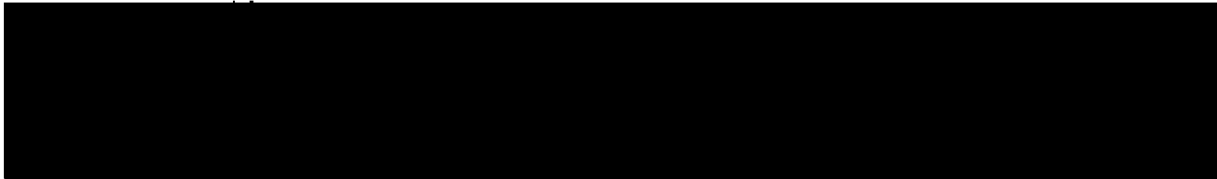
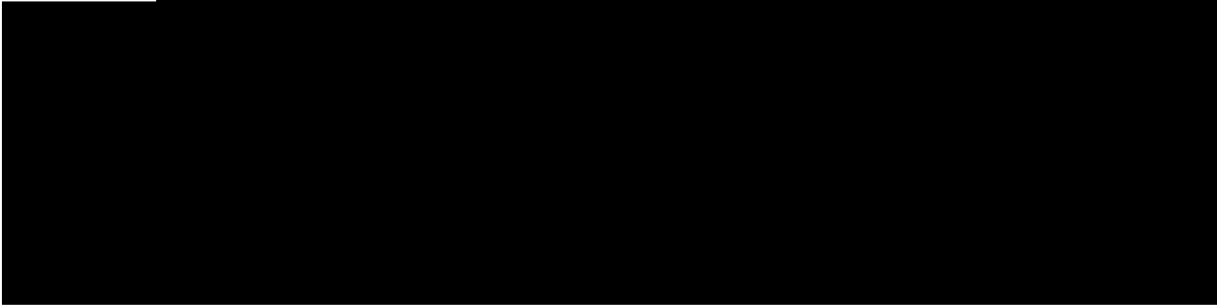
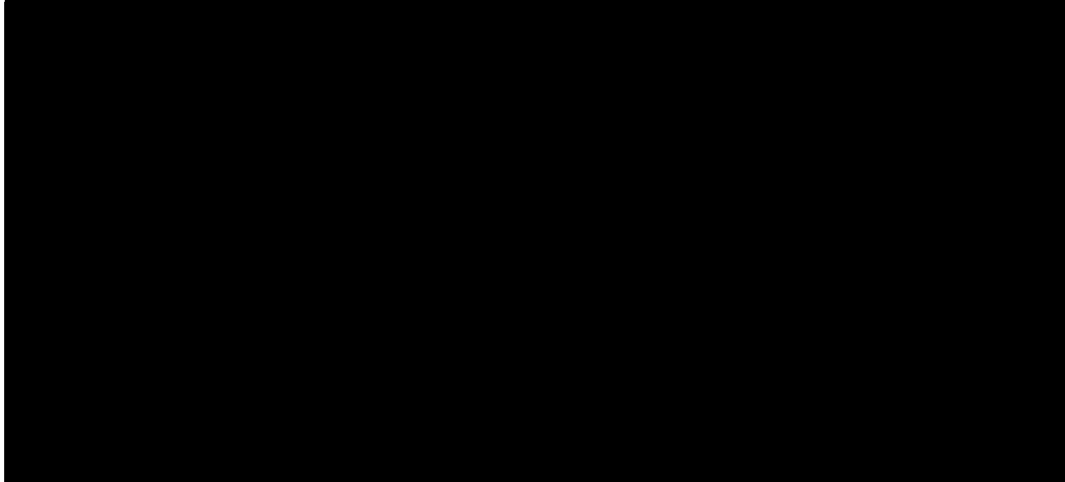
Assignment Inventor to Assignee 

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 me 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) in respect of the inventions which are the subjects of the applications for Letters Patent described herein, and this conveyance of interest includes the right for the ASSIGNEE, 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.

I, as an inventor, further declare that I either have the obligation to assign or have already assigned the full and exclusive rights in and to any inventions made during my employment to ASSIGNEE, and/or that said ASSIGNEE has obtained full and exclusive rights in and to any such inventions based on applicable national law or in accordance with a preexisting agreement or mutual understanding between myself and ASSIGNEE, and that by this Assignment such transfer of right, title and interest in such inventions to said ASSIGNEE is herewith confirmed or restated.



Assignment Inventor to Assignee




Assignment Inventor to Assignee [REDACTED]

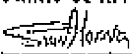
The undersigned inventor, ASSIGNEE [REDACTED] hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And the undersigned inventor, ASSIGNEE [REDACTED] 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 Inventor to Assignee 

This assignment executed on the dates indicated below.

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|--|---|
| <u>Shin Hong Wong</u> | <u>13/03/2019</u> |
| Name of inventor | Execution date of this assignment [DD/MONTH/YYYY] |
| <u></u> | |
| Signature of inventor | |

Wong Innovations Ltd.

Date: 13/03/2019
[DD/MONTH/YYYY]

By: 
Name: *Shin Hong Wong*
Title: *Director*
As duly authorized officer

Assignment Inventor to Assignee to SEU to Sony Corp.

APPENDIX

| Title | Inventors | Sony IPE ref. | Application Number | Filing Date | Priority Date |
|---|---|------------------|--------------------|-------------|---------------|
| Reduced Measurement for LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-097-WO-PCT | PCT/EP2016/067391 | 21 Jul 2016 | 14 Aug 2015 |
| Reduced Measurement for LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-097-EP-EPT | 16744349.8 | 21 Jul 2016 | 14 Aug 2015 |
| Reduced Measurement for LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-097-EP-FFWF | 15181121.3 | 14 Aug 2015 | 14 Aug 2015 |
| Reduced Measurement for LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-097-US-PCT | 15/746044 | 21 Jul 2016 | 14 Aug 2015 |
| MPDCCH Scrambling in Coverage Enhanced LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-098-EP-EPT | 16751504.8 | 21 Jul 2016 | 14 Aug 2015 |
| MPDCCH Scrambling in Coverage Enhanced LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-098-WO-PCT | PCT/EP2016/067390 | 21 Jul 2016 | 14 Aug 2015 |
| MPDCCH Scrambling in Coverage Enhanced LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-098-EP-FFWF | 15181174.2 | 14 Aug 2015 | 14 Aug 2015 |
| MPDCCH Scrambling in Coverage Enhanced LC-MTC | Wong, Shin Hornng;Beale, Martin Warwick | I-15-098-US-PCT | 15/743113 | 21 Jul 2016 | 14 Aug 2015 |
| Repetition Level Arrangement in MPDCCH Search Space | Wong, Shin Hornng | I-15-099-EP-FFWF | 15181168.4 | 14 Aug 2015 | 14 Aug 2015 |
| Repetition Level Arrangement in MPDCCH Search Space | Wong, Shin Hornng | I-15-099-US-PCT | 15/746114 | 30 Jun 2016 | 14 Aug 2015 |
| Repetition Level Arrangement in MPDCCH Search Space | Wong, Shin Hornng | I-15-099-EP-EPT | 16734342.5 | 30 Jun 2016 | 14 Aug 2015 |
| Repetition Level Arrangement in MPDCCH Search Space | Wong, Shin Hornng | I-15-099-WO-PCT | PCT/EP2016/065308 | 30 Jun 2016 | 14 Aug 2015 |
| LC-MTC HARQ Resource for Message 3 E | Wong, Shin Hornng | I-15-106-WO-PCT | PCT/EP2016/072506 | 22 Sep 2016 | 25 Sep 2015 |
| LC-MTC HARQ Resource for Message 3 E | Wong, Shin Hornng | I-15-106-US-PCT | 15/751313 | 22 Sep 2016 | 25 Sep 2015 |
| LC-MTC HARQ Resource for Message 3 E | Wong, Shin Hornng | I-15-106-EP-FFWF | 15186962.5 | 25 Sep 2015 | 25 Sep 2015 |
| LC-MTC HARQ Resource for Message 3 E | Wong, Shin Hornng | I-15-106-EP-EPT | 16770013.7 | 22 Sep 2016 | 25 Sep 2015 |

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| PDSCH & UL HARQ ACK/NACK Collision in Coverage Enhanced Operation for LC-MTC | Wong, Shin Horng; Beale, Martin Warwick | I-15-111-EP-FFWF | 15186972.4 | 25 Sep 2015 | 25 Sep 2015 |
| PDSCH & UL HARQ ACK/NACK Collision in Coverage Enhanced Operation for LC-MTC | Wong, Shin Horng; Beale, Martin Warwick | I-15-111-WO-PCT | PCT/EP2016/072743 | 23 Sep 2016 | 25 Sep 2015 |
| PDSCH & UL HARQ ACK/NACK Collision in Coverage Enhanced Operation for LC-MTC | Wong, Shin Horng; Beale, Martin Warwick | I-15-111-EP-EPT | 16770754.6 | 23 Sep 2016 | 25 Sep 2015 |
| PDSCH & UL HARQ ACK/NACK Collision in Coverage Enhanced Operation for LC-MTC | Wong, Shin Horng; Beale, Martin Warwick | I-15-111-US-PCT | 157751645 | 23 Sep 2016 | 25 Sep 2015 |
| LC-MTC Paging for Multiple Coverage Enhancement Levels | Wong, Shin Horng | I-15-113-WO-PCT | PCT/EP2016/072441 | 21 Sep 2016 | 25 Sep 2015 |
| LC-MTC Paging for Multiple Coverage Enhancement Levels | Wong, Shin Horng | I-15-113-US-PCT | 157748764 | 21 Sep 2016 | 25 Sep 2015 |
| LC-MTC Paging for Multiple Coverage Enhancement Levels | Wong, Shin Horng | I-15-113-EP-EPT | 16775546.1 | 21 Sep 2016 | 25 Sep 2015 |
| LC-MTC Paging for Multiple Coverage Enhancement Levels | Wong, Shin Horng | I-15-113-EP-FFWF | 15186982.9 | 25 Sep 2015 | 25 Sep 2015 |
| MPDCCH with reduced CRC | Beale, Martin Warwick; Wong, Shin Horng | I-15-114-WO-PCT | PCT/EP2016/071208 | 08 Sep 2016 | 25 Sep 2015 |
| MPDCCH with reduced CRC | Beale, Martin Warwick; Wong, Shin Horng | I-15-114-US-PCT | 157751635 | 08 Sep 2016 | 25 Sep 2015 |
| MPDCCH with reduced CRC | Beale, Martin Warwick; Wong, Shin Horng | I-15-114-EP-EPT | 16763777.6 | 08 Sep 2016 | 25 Sep 2015 |
| MPDCCH with reduced CRC | Beale, Martin Warwick; Wong, Shin Horng | I-15-114-EP-FFWF[1] | 15187000.3 | 25 Sep 2015 | 25 Sep 2015 |

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|---|--|----------------------|-------------------|-------------|-------------|
| MPDCCH with reduced CRC | Beale, Martin Warwick;Wong, Shin Hong | I-15-114-EP- FFWF | 15186986.4 | 25 Sep 2015 | 25 Sep 2015 |
| Reduced Network Initiated RACH Access for Coverage Enhanced LC-MTC | Wong, Shin Hong | I-15-115-EP- FFWE | 15186988.0 | 25 Sep 2015 | 25 Sep 2015 |
| Reduced Network Initiated RACH Access for Coverage Enhanced LC-MTC | Wong, Shin Hong | I-15-115-WO- PCT | PCT/EP2016/069824 | 22 Aug 2016 | 25 Sep 2015 |
| Reduced Network Initiated RACH Access for Coverage Enhanced LC-MTC | Wong, Shin Hong | I-15-115-US- PCT | 15/751357 | 22 Aug 2016 | 25 Sep 2015 |
| Reduced Network Initiated RACH Access for Coverage Enhanced LC-MTC | Wong, Shin Hong | I-15-115-EP- EPT | 16754500.3 | 22 Aug 2016 | 25 Sep 2015 |
| HARQ search space for MTC | Beale, Martin Warwick;Wong, Shin Hong | I-15-116-US- PCT | 15/751502 | 22 Aug 2016 | 25 Sep 2015 |
| HARQ search space for MTC | Beale, Martin Warwick;Wong, Shin Hong | I-15-116-WO- PCT | PCT/EP2016/069825 | 22 Aug 2016 | 25 Sep 2015 |
| HARQ search space for MTC | Beale, Martin Warwick;Wong, Shin Hong | I-15-116-EP- EPT | 16754501.1 | 22 Aug 2016 | 25 Sep 2015 |
| HARQ search space for MTC | Beale, Martin Warwick;Wong, Shin Hong | I-15-116-EP- FFWF | 15186989.8 | 25 Sep 2015 | 25 Sep 2015 |
| Determination of physical transmission format as a function of UE speed | Beale, Martin Warwick;Wong, Shin Hong;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 Hong;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 Hong;Wei, Yuxin | I-15-117-EP- FFWF | 15186993.0 | 25 Sep 2015 | 25 Sep 2015 |

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| Determination of physical transmission format as a function of UE speed | Beale, Martin Warwick;Wong, Shin Hornig;Wei, Yuxin | I-15-117-US- PCT | 15/751510 | 22 Aug 2016 | 25 Sep 2015 |
| Adapting the Total Number of HARQ Processes for LC-MTC | Wong, Shin Hornig;Beale, Martin Warwick | I-15-141-WO- PCT | PCT/EP2016/074605 | 13 Okt 2016 | 04 Nov 2015 |
| Adapting the Total Number of HARQ Processes for LC-MTC | Wong, Shin Hornig;Beale, Martin Warwick | I-15-141-EP- FFWF | 15193082.3 | 04 Nov 2015 | 04 Nov 2015 |
| Adapting the Total Number of HARQ Processes for LC-MTC | Wong, Shin Hornig;Beale, Martin Warwick | I-15-141-US- CNT | 16/194395 | 19 Nov 2018 | 04 Nov 2015 |
| Adapting the Total Number of HARQ Processes for LC-MTC | Wong, Shin Hornig;Beale, Martin Warwick | I-15-141-US- CIP | 15/342881 | 03 Nov 2016 | 04 Nov 2015 |
| Adapting the Total Number of HARQ Processes for LC-MTC | Wong, Shin Hornig;Beale, Martin Warwick | I-15-141-EP- EPT | 16781444.1 | 13 Okt 2016 | 04 Nov 2015 |
| Implicit DRX command using RLC | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-130-EP- EPT | 16784454.7 | 14 Okt 2016 | 05 Nov 2015 |
| Implicit DRX command using RLC | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-130-US- PCT | 15/771526 | 14 Okt 2016 | 05 Nov 2015 |
| Implicit DRX command using RLC | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-130-EP- FFWF | 15193159.9 | 05 Nov 2015 | 05 Nov 2015 |
| Implicit DRX command using RLC | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-130-WO- PCT | PCT/EP2016/074766 | 14 Okt 2016 | 05 Nov 2015 |
| P-RNTI partitioning for paging of MTC devices | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-140-EP- EPT | 16784475.2 | 17 Okt 2016 | 06 Nov 2015 |
| P-RNTI partitioning for paging of MTC devices | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Hornig;Tsuda, Shinichiro | I-15-140-US- PCT | 15/771509 | 17 Okt 2016 | 06 Nov 2015 |

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|---|--|-----------------------|-------------------|-------------|-------------|
| P-RNTI partitioning for paging of MTC devices | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Homg;Tsuda, Shinichiro | I-15-140-WO- PCT | PCT/EP2016/074897 | 17 Okt 2016 | 06 Nov 2015 |
| P-RNTI partitioning for paging of MTC devices | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Homg;Tsuda, Shinichiro | I-15-140-EP- FFWF | 15193556.6 | 06 Nov 2015 | 06 Nov 2015 |
| High Priority Narrowband for NB-IoT operations | Wong, Shin Homg;Beale, Martin Warwick;Martin, Brian Alexander;Tsuda, Shinichiro | I-15-142-US- PCT | 151770843 | 13 Okt 2016 | 06 Nov 2015 |
| High Priority Narrowband for NB-IoT operations | Wong, Shin Homg;Beale, Martin Warwick;Martin, Brian Alexander;Tsuda, Shinichiro | I-15-142-EP- FFWF | 151935566.5 | 06 Nov 2015 | 06 Nov 2015 |
| High Priority Narrowband for NB-IoT operations | Wong, Shin Homg;Beale, Martin Warwick;Martin, Brian Alexander;Tsuda, Shinichiro | I-15-142-WO- PCT | PCT/EP2016/074592 | 13 Okt 2016 | 06 Nov 2015 |
| High Priority Narrowband for NB-IoT operations | Wong, Shin Homg;Beale, Martin Warwick;Martin, Brian Alexander;Tsuda, Shinichiro | I-15-142-EP- EPT | 15784433.1 | 13 Okt 2016 | 06 Nov 2015 |
| RV cycling for Frequency Hopped System | Beale, Martin Warwick;Wong, Shin Homg | I-15-147-EP- EPT | 15791040.5 | 07 Nov 2016 | 19 Nov 2015 |
| RV cycling for Frequency Hopped System | Beale, Martin Warwick;Wong, Shin Homg | I-15-147-WO- PCT | PCT/EP2016/076794 | 07 Nov 2016 | 19 Nov 2015 |
| RV cycling for Frequency Hopped System | Beale, Martin Warwick;Wong, Shin Homg | I-15-147-US- PSP | 62/257591 | 19 Nov 2015 | 19 Nov 2015 |
| RV cycling for Frequency Hopped System | Beale, Martin Warwick;Wong, Shin Homg | I-15-147-US- PCT | 15/775051 | 07 Nov 2016 | 19 Nov 2015 |
| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Homg;Beale, Martin Warwick | I-15-161-US- CNT11 | 15/835499 | 08 Dez 2017 | 11 Jan 2016 |

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| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-15-161-US-CNTZ1 | 16/207215 | 03 Dez 2018 | 11 Jan 2016 |
| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-15-161-EP-EPT | 16822207.3 | 28 Dez 2016 | 11 Jan 2016 |
| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-15-161-WO-PCT | PCT/EP2016/082762 | 28 Dez 2015 | 11 Jan 2016 |
| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-15-161-EP-FWFF | 16150823.9 | 11 Jan 2016 | 11 Jan 2016 |
| NB-IoT Uplink Subcarrier Spacing Type Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-15-161-US-CNT | 15/615511 | 06 Jun 2017 | 11 Jan 2016 |
| Multiple NB-IoT Band Congestion Control and Cycling of barring bitmap for NB-IoT | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-15-160-EP-FWFF | 16150966.6 | 12 Jan 2016 | 12 Jan 2016 |
| Multiple NB-IoT Band Congestion Control and Cycling of barring bitmap for NB-IoT | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-15-160-US-PCT | 16/067462 | 28 Dez 2016 | 12 Jan 2016 |
| Multiple NB-IoT Band Congestion Control and Cycling of barring bitmap for NB-IoT | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-15-160-EP-EPT | 16822206.5 | 28 Dez 2016 | 12 Jan 2016 |
| Multiple NB-IoT Band Congestion Control and Cycling of barring bitmap for NB-IoT | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-15-160-WO-PCT | PCT/EP2016/082758 | 28 Dez 2016 | 12 Jan 2016 |
| NB-IoT Standalone/Inband Cell (Re)selection and Indication of idle mode measured results for NB-IoT | Beale, Martin Warwick; Wong, Shin Horng; Martin, Brian Alexander | I-15-163-EP-EPT | 16826071.9 | 28 Dez 2016 | 12 Jan 2016 |
| NB-IoT Standalone/Inband Cell (Re)selection and Indication of idle mode measured results for NB-IoT | Beale, Martin Warwick; Wong, Shin Horng; Martin, Brian Alexander | I-15-163-WO-PCT | PCT/EP2016/082757 | 28 Dez 2016 | 12 Jan 2016 |

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| NB-IoT Standalone/Inband Cell (Re)selection and Indication of idle mode measured results for NB-IoT | Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-15-163-EP- FFWF | 16150979.9 | 12 Jan 2016 | 12 Jan 2016 |
| NB-IoT Standalone/Inband Cell (Re)selection and Indication of idle mode measured results for NB-IoT | Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-15-163-US- PCT | 16/056123 | 28 Dec 2016 | 12 Jan 2016 |
| Determination in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-012-US- PCT | 16/075538 | 03 Feb 2017 | 05 Feb 2016 |
| NB-PBCH Antenna Port Determination in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-012-EP- FFWF | 16154577.7 | 05 Feb 2016 | 05 Feb 2016 |
| dynNB-PBCH Antenna Port Determination in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-012-WO- PCT | PCT/EP2017/052462 | 03 Feb 2017 | 05 Feb 2016 |
| dynNB-PBCH Antenna Port Determination in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-012-EP- EPT | 17702414.8 | 03 Feb 2017 | 05 Feb 2016 |
| Determination for Long TTI in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-013-EP- FFWF | 16154582.7 | 05 Feb 2016 | 05 Feb 2016 |
| Repetition for Long TTI in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-013-EP- EPT | 17702411.4 | 03 Feb 2017 | 05 Feb 2016 |
| Repetition for Long TTI in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-013-US- CNTJ11 | 15/834552 | 07 Dec 2017 | 05 Feb 2016 |
| Repetition for Long TTI in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-013-US- CNT | 15/615087 | 06 Jun 2017 | 05 Feb 2016 |
| Repetition for Long TTI in NB-IoT | Wong, Shin Hornig;Beale, Martin Warwick | I-16-013-WO- PCT | PCT/EP2017/052454 | 03 Feb 2017 | 05 Feb 2016 |
| Reduced complexity decoding of NB-PDCCH | Beale, Martin Warwick;Wong, Shin Hornig | I-16-023-WO- PCT | PCT/EP2017/052551 | 06 Feb 2017 | 25 Feb 2016 |
| Reduced complexity decoding of NB-PDCCH | Beale, Martin Warwick;Wong, Shin Hornig | I-16-023-EP- EPT | 17702655.6 | 05 Feb 2017 | 25 Feb 2016 |
| Reduced complexity decoding of NB-PDCCH | Beale, Martin Warwick;Wong, Shin Hornig | I-16-023-EP- FFWF | 16157489.2 | 25 Feb 2016 | 25 Feb 2016 |

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|--|--|-------------------------|-------------------|-------------|-------------|
| Reduced complexity decoding of NB-PDCCH | Beale, Martin Warwick;Wong, Shin Homg | I-16-023-US- PCT | 16/078016 | 06 Feb 2017 | 25 Feb 2016 |
| Collision Handling in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick;Priyanto, Basuki | I-16-030-EP- EPT | 17708298.9 | 07 Mrz 2017 | 11 Mrz 2016 |
| Collision Handling in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick;Priyanto, Basuki | I-16-030-WO- PCT | PCT/EP2017/055341 | 07 Mrz 2017 | 11 Mrz 2016 |
| Collision Handling in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick;Priyanto, Basuki | I-16-030-EP- FFWF | 16150019.2 | 11 Mrz 2016 | 11 Mrz 2016 |
| Collision Handling in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick;Priyanto, Basuki | I-16-030-EP- FFWF[1] | 16164756.5 | 11 Apr 2016 | 11 Mrz 2016 |
| Collision Handling in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick;Priyanto, Basuki | I-16-030-US- PCT | 16/079238 | 07 Mrz 2017 | 11 Mrz 2016 |
| NB-PDCCH Repetitions in CSS for Paging in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-033-EP- EPT | 17703188.7 | 09 Feb 2017 | 11 Mrz 2016 |
| NB-PDCCH Repetitions in CSS for Paging in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-033-US- PCT | 16/078645 | 09 Feb 2017 | 11 Mrz 2016 |
| NB-PDCCH Repetitions in CSS for Paging in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-033-WO- PCT | PCT/EP2017/052874 | 09 Feb 2017 | 11 Mrz 2016 |
| NB-PDCCH Repetitions in CSS for Paging in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-033-EP- FFWF | 16150026.7 | 11 Mrz 2016 | 11 Mrz 2016 |
| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Priyanto, Basuki | I-16-031-WO- PCT | PCT/EP2017/055581 | 09 Mrz 2017 | 15 Mrz 2016 |
| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Priyanto, Basuki | I-16-031-EP- FFWF[2] | 16171552.9 | 26 Mai 2016 | 15 Mrz 2016 |
| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Priyanto, Basuki | I-16-031-EP- FFWF[3] | 16163943.0 | 05 Apr 2016 | 15 Mrz 2016 |

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| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Privanto, Basuki | I-16-031-EP- FFWF | 16160533.2 | 15 Mrz 2016 | 15 Mrz 2016 |
| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Privanto, Basuki | I-16-031-EP- EPT | 17709447.1 | 09 Mrz 2017 | 15 Mrz 2016 |
| Frequency offset indication | Beale, Martin Warwick;Wong, Shin Homg;Privanto, Basuki | I-16-031-US- CNT | 15/65461.1 | 19 Jul 2017 | 15 Mrz 2016 |
| Distinguishing Paging Occurrences in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-041-TW- NP | 105107628 | 08 Mrz 2017 | 05 Apr 2016 |
| Distinguishing Paging Occurrences in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-041-WO- PCT | PCT/EP2017/057758 | 31 Mrz 2017 | 05 Apr 2016 |
| Distinguishing Paging Occurrences in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-041-EP- FFWF | 16163933.1 | 05 Apr 2016 | 05 Apr 2016 |
| Distinguishing Paging Occurrences in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-041-US- PCT | 16/091273 | 31 Mrz 2017 | 05 Apr 2016 |
| Distinguishing Paging Occurrences in NB-IoT | Wong, Shin Homg;Beale, Martin Warwick | I-16-041-EP- EPT | 17713703.1 | 31 Mrz 2017 | 05 Apr 2016 |
| Variable Msg3 size transmission | Beale, Martin Warwick;Wong, Shin Homg | I-16-043-EP- FFWF | 16163806.5 | 05 Apr 2016 | 05 Apr 2016 |
| Variable Msg3 size transmission | Beale, Martin Warwick;Wong, Shin Homg | I-16-043-WO- PCT | PCT/EP2017/057990 | 04 Apr 2017 | 05 Apr 2016 |
| Variable Msg3 size transmission | Beale, Martin Warwick;Wong, Shin Homg | I-16-043-EP- EPT | 17715162.8 | 04 Apr 2017 | 05 Apr 2016 |
| Variable Msg3 size transmission | Beale, Martin Warwick;Wong, Shin Homg | I-16-043-US- PCT | 16/091182 | 04 Apr 2017 | 05 Apr 2016 |
| Flexible frame structure for NR | Wong, Shin Homg;Beale, Martin Warwick;Abungsin, Samuel Asangbeng | I-16-067-EP- EPT | 17721102.6 | 27 Apr 2017 | 13 Mai 2016 |

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| 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-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-US-PCT | 16/098134 | 27 Apr 2017 | 13 Mai 2016 |
| Energy Efficient Transmit & Receive Points for High Speed Train | Wong, Shin Horng; Beale, Martin Warwick | I-16-079-EP-FFWF | 16182891.8 | 04 Aug 2016 | 04 Aug 2016 |
| Energy Efficient Transmit & Receive Points for High Speed Train | Wong, Shin Horng; Beale, Martin Warwick | I-16-079-US-PCT | 16/321036 | 03 Aug 2017 | 04 Aug 2016 |
| Energy Efficient Transmit & Receive Points for High Speed Train | Wong, Shin Horng; Beale, Martin Warwick | I-16-079-EP-EPT | 17748759.2 | 03 Aug 2017 | 04 Aug 2016 |
| Energy Efficient Transmit & Receive Points for High Speed Train | Wong, Shin Horng; Beale, Martin Warwick | I-16-079-WO-PCT | PCT/EP2017/069755 | 03 Aug 2017 | 04 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 |

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| UE Speed Dependent Uplink Reference Signal Transmission for Mobility in NR | Wong, Shin Hornig;Martin, Brian Alexander;Beale, Martin Warwick;Wei, Yuxin;Wakabayashi, Hideji;Kosta, Chrysovalantis | I-16-088-EP- FFWF | 16183540.0 | 10 Aug 2015 | 10 Aug 2016 |
| UE Speed Dependent Uplink Reference Signal Transmission for Mobility in NR | Wong, Shin Hornig;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 |
| Power Saving OTDOA in MTC | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander | I-16-107-US- PCT | 167324126 | 13 Jul 2017 | 10 Aug 2016 |
| Power Saving OTDOA in MTC | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander | I-16-107-EP- EPT | 17736976.6 | 13 Jul 2017 | 10 Aug 2016 |
| Power Saving OTDOA in MTC | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander | I-16-107-EP- FFWF | 16183546.7 | 10 Aug 2016 | 10 Aug 2016 |
| Power Saving OTDOA in MTC | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander | I-16-107-WO- PCT | PCT/EP2017/057746 | 13 Jul 2017 | 10 Aug 2016 |
| Inactive RRC State Uplink Feedback for New Radio | Wong, Shin Hornig;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 Hornig;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 |

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|--|---|---------------------|-------------------|-------------|-------------|
| Inactive RRC State Uplink Feedback for New Radio | Wong, Shin Hornig; Martin, Brian Alexander; Beale, Martin Warwick; Wei, Yuxin; Berggren, Anders; Nord, Lars | I-16-082-EP- EPT | 17749570.0 | 27 Jul 2017 | 11 Aug 2016 |
| Inactive RRC State Uplink Feedback for New Radio | Wong, Shin Hornig; 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 |
| Uplink based handover location based trigger | Martin, Brian Alexander; Wong, Shin Hornig; 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 Hornig; 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 Hornig; Beale, Martin Warwick; Wei, Yuxin; Wakabayashi, Hideji; Kosta, Chrysovalantis | I-16-093-WO- PCT | PCT/EP2017/067875 | 14 Jul 2017 | 11 Aug 2016 |

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| Uplink based handover location based trigger | Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Wei, Yuxin; Wakabayashi, Hideji; Kosta, Chrysovalantis | I-16-093-EP- FFWF | 16183702.6 | 11 Aug 2016 | 11 Aug 2016 |
| UE specific Supplementary PRS for MTC | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-16-103-EP- EPT | 17743298.6 | 17 Jul 2017 | 12 Aug 2016 |
| UE specific Supplementary PRS for MTC | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-16-103-US- PCT | 16/324917 | 17 Jul 2017 | 12 Aug 2016 |
| UE specific Supplementary PRS for MTC | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-16-103-EP- FFWF | 16184042.6 | 12 Aug 2016 | 12 Aug 2016 |
| UE specific Supplementary PRS for MTC | Wong, Shin Horng; Beale, Martin Warwick; Martin, Brian Alexander | I-16-103-WO- PCT | PCT/EP2017/067987 | 17 Jul 2017 | 12 Aug 2016 |
| Positioning using beam sweeping | Beale, Martin Warwick; Wong, Shin Horng | I-16-113-WO- PCT | PCT/EP2017/068260 | 19 Jul 2017 | 12 Aug 2016 |
| Positioning using beam sweeping | Beale, Martin Warwick; Wong, Shin Horng | I-16-113-EP- FFWF | 16184120.0 | 12 Aug 2016 | 12 Aug 2016 |
| Positioning using beam sweeping | Beale, Martin Warwick; Wong, Shin Horng | I-16-113-US- PCT | 16/324646 | 19 Jul 2017 | 12 Aug 2016 |
| Positioning using beam sweeping | Beale, Martin Warwick; Wong, Shin Horng | I-16-113-EP- EPT | 17748677.6 | 19 Jul 2017 | 12 Aug 2016 |
| Beam Sweeping Rhythm in NR | Wong, Shin Horng; Beale, Martin Warwick | I-16-118-US- PCT | 16/323779 | 19 Jul 2017 | 12 Aug 2016 |
| Beam Sweeping Rhythm in NR | Wong, Shin Horng; Beale, Martin Warwick | I-16-118-EP- FFWF | 16184118.4 | 12 Aug 2016 | 12 Aug 2016 |
| Beam Sweeping Rhythm in NR | Wong, Shin Horng; Beale, Martin Warwick | I-16-118-WO- PCT | PCT/EP2017/068256 | 19 Jul 2017 | 12 Aug 2016 |

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|---|---|------------------|-------------------|-------------|-------------|
| Beam Sweeping Rhythm in NR | Wong, Shin Horng;Beale, Martin; Warwick | I-16-118-EP-EPT | 17742421.5 | 19 Jul 2017 | 12 Aug 2016 |
| Positioning using dithered base station transmissions | Beale, Martin; Warwick; Wong, Shin Horng | I-16-125-WO-PCT | PCT/EP2017/070231 | 09 Aug 2017 | 12 Aug 2016 |
| Positioning using dithered base station transmissions | Beale, Martin; Warwick; Wong, Shin Horng | I-16-125-EP-FFWF | 16183980.8 | 12 Aug 2016 | 12 Aug 2016 |
| Positioning using dithered base station transmissions | Beale, Martin; Warwick; Wong, Shin Horng | I-16-125-US-PCT | 16/323265 | 09 Aug 2017 | 12 Aug 2016 |
| Positioning using dithered base station transmissions | Beale, Martin; Warwick; Wong, Shin Horng | I-16-125-EP-EPT | 17754311.3 | 09 Aug 2017 | 12 Aug 2016 |
| NUC Indicator for NR | Wong, Shin Horng;Beale, Martin; Warwick; Atungsir, 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; Atungsir, Samuel Asangbeng | I-16-129-WO-PCT | PCT/EP2017/070978 | 18 Aug 2017 | 19 Aug 2016 |
| NUC Indicator for NR | Wong, Shin Horng;Beale, Martin; Warwick; Atungsir, 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; Atungsir, Samuel Asangbeng | I-16-129-EP-FFWF | 16185036.7 | 19 Aug 2016 | 19 Aug 2016 |
| Multi Control Channel in eMBSB transmission | Wong, Shin Horng;Beale, Martin; Warwick; Atungsir, Samuel Asangbeng | I-16-147-TW-NP | 106125758 | 31 Jul 2017 | 15 Sep 2016 |
| Multi Control Channel in eMBSB transmission | Wong, Shin Horng;Beale, Martin; Warwick; Atungsir, Samuel Asangbeng | I-16-147-WO-PCT | PCT/EP2017/071636 | 29 Aug 2017 | 15 Sep 2016 |

Assignment Inventory to Assignees to SEU to Sony Corp.

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|---|---|----------------------|-------------------|-------------|-------------|
| Multi Control Channel in eMBB transmission | Wong, Shin Horng; Beale, Martin Warwick; Atungsiri, Samuel Asangbeng | I-16-147-EP- FFWF | 16199083.5 | 15 Sep 2016 | 15 Sep 2016 |
| Multi Control Channel in eMBB transmission | Wong, Shin Horng; Beale, Martin Warwick; Atungsiri, Samuel Asangbeng | I-16-147-US- PCT | 16199083.5 | 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- ZPT | 17755548.9 | 29 Aug 2017 | 15 Sep 2016 |
| Resource Indication for Wide Bandwidth feMTC | Wong, Shin Horng; Beale, Martin Warwick | I-16-159-EP- FFWF | 16191540.0 | 29 Sep 2016 | 29 Sep 2016 |
| Resource Indication for Wide Bandwidth feMTC | Wong, Shin Horng; Beale, Martin Warwick | I-16-159-WO- PCT | PCT/EP2017/073172 | 14 Sep 2017 | 29 Sep 2016 |
| Resource Indication for Wide Bandwidth feMTC | Wong, Shin Horng; Beale, Martin Warwick | I-16-159-EP- EPT | PCT/EP2017/073172 | 14 Sep 2017 | 29 Sep 2016 |
| Resource Indication for Wide Bandwidth feMTC | Wong, Shin Horng; Beale, Martin Warwick | I-16-159-US- PCT | PCT/EP2017/073172 | 14 Sep 2017 | 29 Sep 2016 |
| Bundle Status Indicator for HD-FDD HARQ Feedback Bundling | Wong, Shin Horng; Beale, Martin Warwick | I-16-148-WO- PCT | PCT/EP2017/073461 | 18 Sep 2017 | 30 Sep 2016 |
| Bundle Status Indicator for HD-FDD HARQ Feedback Bundling | Wong, Shin Horng; Beale, Martin Warwick | I-16-148-US- PCT | PCT/EP2017/073461 | 18 Sep 2017 | 30 Sep 2016 |
| Bundle Status Indicator for HD-FDD HARQ Feedback Bundling | Wong, Shin Horng; Beale, Martin Warwick | I-16-148-EP- EPT | PCT/EP2017/073461 | 16 Sep 2017 | 30 Sep 2016 |
| Bundle Status Indicator for HD-FDD HARQ Feedback Bundling | Wong, Shin Horng; Beale, Martin Warwick | I-16-148-EP- FFWF | 16191974.1 | 30 Sep 2016 | 30 Sep 2016 |
| HARQ repair of punctured eMBB transmissions | Beale, Martin Warwick; Wong, Shin Horng; Atungsiri, Samuel Asangbeng | I-16-163-WO- PCT | PCT/EP2017/072025 | 01 Sep 2017 | 30 Sep 2016 |

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|--|---|----------------------|-------------------|-------------|-------------|
| HARQ repair of punctured eMBB transmissions | Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng | I-16-163-US- PCT | PCT/EP2017/072025 | 01 Sep 2017 | 30 Sep 2016 |
| HARQ repair of punctured eMBB transmissions | Beale, Martin Warwick;Wong, Shin Horng;Atungsiri, Samuel Asangbeng | 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 Asangbeng | I-16-163-EP- FFWF | 16191978.2 | 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- 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-US- 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 |
| SC-MCCH Change Notification in FeMTC & eNB-IoT | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-166-EP- EPT | PCT/EP2017/073483 | 18 Sep 2017 | 30 Sep 2016 |
| SC-MCCH Change Notification in FeMTC & eNB-IoT | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-166-TW- NP | 106126771 | 08 Aug 2017 | 30 Sep 2016 |

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| SC-MCCH Change Notification in femTC & eNB-IoT | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-166-EP-FFWF | 16191990.7 | 30 Sep 2016 | 30 Sep 2016 |
| SC-MCCH Change Notification in femTC & eNB-IoT | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-166-US-PCT | PCT/EP2017/073483 | 18 Sep 2017 | 30 Sep 2016 |
| SC-MCCH Change Notification in femTC & eNB-IoT | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-166-WO-PCT | PCT/EP2017/073483 | 18 Sep 2017 | 30 Sep 2016 |
| HARQ Process Exchange in HARQ-ACK Bundling Retransmissions | Wong, Shin Horng;Beale, Martin Warwick | I-16-180-EP-FFWF | 16197188.2 | 03 Nov 2016 | 03 Nov 2016 |
| HARQ Process Exchange in HARQ-ACK Bundling Retransmissions | Wong, Shin Horng;Beale, Martin Warwick | I-16-180-WO-PCT | PCT/EP2017/075076 | 03 Okt 2017 | 03 Nov 2016 |
| Cell quality evaluation using multiple beam measurements | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atungisiri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis | I-16-182-EP-FFWF | 16197339.1 | 04 Nov 2016 | 04 Nov 2016 |
| Cell quality evaluation using multiple beam measurements | Martin, Brian Alexander;Beale, Martin Warwick;Wong, Shin Horng;Wei, Yuxin;Atungisiri, Samuel Asangbeng;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro;Kosta, Chrysovalantis | I-16-182-WO-PCT | PCT/EP2017/076260 | 13 Okt 2017 | 04 Nov 2016 |

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|---|--|------------------|-------------------|-------------|-------------|
| Failback Beam Operation in NR | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-184-WO-PCT | PCT/EP2017/077977 | 01 Nov 2017 | 11 Nov 2016 |
| Failback Beam Operation in NR | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek | I-16-184-EP-FFWF | 16198547.8 | 11 Nov 2016 | 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-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-EP-FFWF | 16206874.6 | 23 Dez 2016 | 23 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 |

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| 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 Horng; Beale, Martin Warwick; Wei, Yuxin; Sharma, Vivek; Tsuda, Shinichiro; Wakabayashi, Hideji; Berggren, Anders | I-16-207-EP- FFWF | 16206769.8 | 23 Dez 2016 | 23 Dez 2016 |
| Mobility handling in Inter-RAT NR-LTE coexistence | Sharma, Vivek; Beale, Martin Warwick; Martin, Brian Alexander; Wong, Shin Horng; Wakabayashi, Hideji; Tsuda, Shinichiro | I-16-214-WO- PCT | PCT/EP2018/050031 | 02 Jan 2018 | 04 Jan 2017 |
| Mobility handling in Inter-RAT NR-LTE coexistence | Sharma, Vivek; Beale, Martin Warwick; Martin, Brian Alexander; Wong, Shin Horng; Wakabayashi, Hideji; Tsuda, Shinichiro | I-16-214-EP- FFWF | 17150280.0 | 04 Jan 2017 | 04 Jan 2017 |
| PRACH Beam Ramping in NR | Wong, Shin Horng; Beale, Martin Warwick | I-16-196-WO- PCT | PCT/EP2017/081502 | 05 Dez 2017 | 05 Jan 2017 |
| PRACH Beam Ramping in NR | Wong, Shin Horng; Beale, Martin Warwick | I-16-196-EP- FFWF | 17150485.5 | 05 Jan 2017 | 05 Jan 2017 |

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| Triggering of mobility reference signals measurements using cell specific reference signals | Martin, Brian Alexander,Wong, Shin Hornig;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 Hornig;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 |
| Inter-RAT Scheduling for NR-LTE Interworking | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro | I-16-210-WO- PCT | PCT/EP2017/081501 | 05 Dez 2017 | 05 Jan 2017 |
| Inter-RAT Scheduling for NR-LTE Interworking | Wong, Shin Hornig;Beale, Martin Warwick;Martin, Brian Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro | I-16-210-EP- FFWF | 17150482.2 | 05 Jan 2017 | 05 Jan 2017 |
| Alternative Downlink Control Channel Resources in NR | Wong, Shin Hornig;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 Hornig;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-16-197-EP- FFWF | 17150570.4 | 06 Jan 2017 | 06 Jan 2017 |

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| Flexible FDD operation using TDD band | Wong, Shin Hong;Beale, Martin;Warwick;Martin, Brian;Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro | I-16-201-WO-PCT | PCT/EP2017/083899 | 20 Dez 2017 | 06 Jan 2017 |
| Flexible FDD operation using TDD band | Wong, Shin Hong;Beale, Martin;Warwick;Martin, Brian;Alexander;Sharma, Vivek;Wakabayashi, Hideji;Tsuda, Shinichiro | I-16-201-EP-FFWF | 17150567.0 | 06 Jan 2017 | 06 Jan 2017 |
| URLLC HARQ feedback operation | Beale, Martin;Warwick;Atungsiri, Samuel;Asangbeng;Wong, Shin Hong | I-16-205-EP-FFWF | 17150730.4 | 09 Jan 2017 | 09 Jan 2017 |
| URLLC HARQ feedback operation | Beale, Martin;Warwick;Atungsiri, Samuel;Asangbeng;Wong, Shin Hong | I-16-205-WO-PCT | PCT/EP2017/083875 | 20 Dez 2017 | 09 Jan 2017 |
| RRC Inactive State Paging for uplink tracking signal reconfiguration | Martin, Brian;Alexander;Wong, Shin Hong;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 |
| RRC Inactive State Paging for uplink tracking signal reconfiguration | Martin, Brian;Alexander;Wong, Shin Hong;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 |

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| New UE ID and blind detection method | Martin, Brian Alexander;Wong, Shin Hong;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 Hong;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 Hong | 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 Hong | I-17-012-WO- PCT | PCT/EP2018/052110 | 29 Jan 2018 | 06 Feb 2017 |
| Dynamic rescheduling of HARQ feedback resources | Wong, Shin Hong;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 Hong;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-015-WO- PCT | PCT/EP2018/053231 | 08 Feb 2018 | 10 Feb 2017 |

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| 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 |
| URLLC Self Pre-emption | Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng;Martin, Brian Alexander;Sharma, Vivek | I-17-026-EP-FWF | 17162407.5 | 22 Mrz 2017 | 22 Mrz 2017 |
| Shared Uplink Grant Free Resource | Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander | I-17-027-EP-FWF | 17162411.7 | 22 Mrz 2017 | 22 Mrz 2017 |
| Shared Uplink Grant Free Resource | Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander | I-17-027-TW-NP | 107103238 | 30 Jan 2018 | 22 Mrz 2017 |
| Shared Uplink Grant Free Resource | Wong, Shin Horng;Beale, Martin Warwick;Sharma, Vivek;Martin, Brian Alexander | I-17-027-WO-PCT | PCT/EP2018/057080 | 20 Mrz 2018 | 22 Mrz 2017 |
| Transmission of early termination of repetition indicator | Wong, Shin Horng;Beale, Martin Warwick | I-17-028-EP-FWF | 17162668.2 | 23 Mrz 2017 | 23 Mrz 2017 |
| Transmission of early termination of repetition indicator | Wong, Shin Horng;Beale, Martin Warwick | I-17-028-WO-PCT | PCT/EP2018/057368 | 22 Mrz 2018 | 23 Mrz 2017 |
| SLSS anchor narrowband for relay | Martin, Brian Alexander;Wong, Shin Horng;Beale, Martin Warwick;Uchiyama, Hiromasa;Wakabayashi, Hideji;Tsuda, Shinichiro | I-17-029-EP-FWF | 17162886.0 | 24 Mrz 2017 | 24 Mrz 2017 |

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| SLSS anchor narrowband for relay | Martin, Brian Alexander;Wong, Shin Hornig;Beale, Martin Warwick;Uchiyama, Hiromasa;Wakabayashi, Hideji;Tsuda, Shinichiro | I-17-029-WO- PCT | PCT/EP2018/057366 | 22 Mar 2018 | 24 Mar 2017 |
| Sub-PRB Transmission schemes for eMTC | Beale, Martin Warwick;Wong, Shin Hornig;Atungsiri, Samuel Asangbeng;Priyanto, Basuki | I-17-032-WO- PCT | PCT/EP2018/057147 | 21 Mar 2018 | 24 Mar 2017 |
| Sub-PRB Transmission schemes for eMTC | Beale, Martin Warwick;Wong, Shin Hornig;Atungsiri, Samuel Asangbeng;Priyanto, Basuki | I-17-032-EP- FFWF | 17162920.7 | 24 Mar 2017 | 24 Mar 2017 |
| Shared Uplink Grant Free Resource higher layer impacts - cipher keys during handover | Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-17-033-EP- FFWF | 17163832.3 | 30 Mar 2017 | 30 Mar 2017 |
| Shared Uplink Grant Free Resource higher layer impacts - cipher keys during handover | Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-17-033-WO- PCT | PCT/EP2018/057768 | 27 Mar 2018 | 30 Mar 2017 |
| Shared Uplink Grant Fee Resource higher layer impacts - Secondary eNB to Master eNB | Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-17-040-WO- PCT | PCT/EP2018/057784 | 27 Mar 2018 | 30 Mar 2017 |
| Shared Uplink Grant Fee Resource higher layer impacts - Secondary eNB to Master eNB | Sharma, Vivek;Beale, Martin Warwick;Wong, Shin Hornig;Martin, Brian Alexander | I-17-040-EP- FFWF | 17163988.3 | 30 Mar 2017 | 30 Mar 2017 |
| Per CE level Access barring | Sharma, Vivek;Martin, Brian Alexander;Wong, Shin Hornig;Beale, Martin Warwick | I-17-035-EP- FFWF | 17164062.6 | 31 Mar 2017 | 31 Mar 2017 |

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filed on 09/27/19

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| Per CE level Access barring | Sharma, Vivek; Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick | I-17-035-WO-PCT | PCT/EP2018/058105 | 29 Mar 2018 | 31 Mar 2017 |
| Open Loop Power control for remote device | Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Uchiyama, Hiromasa; Wakabayashi, Hideji; Tsuda, Shinichiro | I-17-036-EP-FFWF | 17164263.0 | 31 Mar 2017 | 31 Mar 2017 |
| Open Loop Power control for remote device | Martin, Brian Alexander; Wong, Shin Horng; Beale, Martin Warwick; Uchiyama, Hiromasa; Wakabayashi, Hideji; Tsuda, Shinichiro | I-17-036-WO-PCT | PCT/EP2018/055089 | 01 Mar 2018 | 31 Mar 2017 |
| NB-IOT dual threshold for idle mode measurements | Martin, Brian Alexander; Wong, Shin Horng; Sharma, Vivek; Beale, Martin Warwick | I-17-053-EP-FFWF | 17168564.7 | 27 Apr 2017 | 27 Apr 2017 |
| NB-IOT dual threshold for idle mode measurements | Martin, Brian Alexander; Wong, Shin Horng; Sharma, Vivek; Beale, Martin Warwick | I-17-053-WO-PCT | PCT/EP2018/055921 | 09 Mar 2018 | 27 Apr 2017 |
| Pre-emption Indicator Resource Granularity for URLLC/eMBB 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/eMBB Multiplexing | Wong, Shin Horng; Beale, Martin Warwick; Atungsiri, Samuel Asangbeng | I-17-055-WO-PCT | PCT/EP2018/061197 | 02 Mai 2018 | 03 Mai 2017 |

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| DRX based Wake Up Signal for MTC | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-052-EP-FFWF | 17169577.8 | 04 Mai 2017 | 04 Mai 2017 |
| DRX based Wake Up Signal for MTC | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-052-WO-PCT | PCT/EP2018/061301 | 03 Mai 2018 | 04 Mai 2017 |
| Enhanced Synchronisation Channels for MTC | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-054-EP-FFWF | 17169821.0 | 05 Mai 2017 | 05 Mai 2017 |
| Enhanced Synchronisation Channels for MTC | Wong, Shin Horng;Beale, Martin Warwick;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-054-WO-PCT | PCT/EP2018/061213 | 02 Mai 2018 | 05 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 |
| DRX cycles for WUS and WUS reliability monitoring | Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-059-EP-FFWF | 17169835.0 | 05 Mai 2017 | 05 Mai 2017 |
| DRX cycles for WUS and WUS reliability monitoring | Beale, Martin Warwick;Wong, Shin Horng;Martin, Brian Alexander;Priyanto, Basuki;Mazloum, Nafiseh | I-17-059-WO-PCT | PCT/EP2018/061179 | 02 Mai 2018 | 05 Mai 2017 |

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| Conveying the Synchronisation Block Index via NR-PBCH Demodulation reference symbols | Atungsiri, Samuel Asangbeng; Wong, Shin Hornig; 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 Hornig; 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 Hornig; Atungsiri, Samuel Asangbeng | I-17-074-WO- PCT | PCT/EP2018/064763 | 05 Jun 2018 | 16 Jun 2017 |
| Pre-emption resource set for common pre-emption indicator | Wong, Shin Hornig; Atungsiri, Samuel Asangbeng | I-17-074-EP- FFWF | 17176495.4 | 16 Jun 2017 | 16 Jun 2017 |
| Non text based PWS | Sharma, Vivek; Martin, Brian Alexander; Tsuda, Shinichiro; Wakabayashi, Hideji; Wong, Shin Hornig | I-17-076-EP- FFWF | 17177683.4 | 23 Jun 2017 | 23 Jun 2017 |
| Non text based PWS | Sharma, Vivek; Martin, Brian Alexander; Tsuda, Shinichiro; Wakabayashi, Hideji; Wong, Shin Hornig | I-17-076-WO- PCT | PCT/EP2018/065798 | 14 Jun 2018 | 23 Jun 2017 |
| Configuration of NR-PDCP for MCG SRB1 | Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro; Wong, Shin Hornig; Beale, Martin Warwick | I-17-106-WO- PCT | PCT/EP2018/070897 | 01 Aug 2018 | 01 Aug 2017 |
| Configuration of NR-PDCP for MCG SRB1 | Sharma, Vivek; Wakabayashi, Hideji; Tsuda, Shinichiro; Wong, Shin Hornig; Beale, Martin Warwick | I-17-106-EP- FFWF | 17184361.8 | 01 Aug 2017 | 01 Aug 2017 |

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| 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 |
| 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-WO- PCT | PCT/EP2018/070888 | 01 Aug 2018 | 10 Aug 2017 |
| Dynamic Frequency Hopping Pattern for MTC | Wong, Shin; Horng; Beale, Martin; Warwick; Bitran, Yigal; Semel, Lavi; Elzas, Hovav | I-17-112-WO- PCT | PCT/EP2018/071382 | 07 Aug 2018 | 10 Aug 2017 |
| Dynamic Frequency Hopping Pattern for MTC | Wong, Shin; Horng; Beale, Martin; Warwick; Bitran, Yigal; Semel, Lavi; Elzas, Hovav | I-17-112-EP- FFWF | 17185809.5 | 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 |
| Wake Up Signal Sequence for IoT | Atungsiri, 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; Atungsiri, Samuel Asangbeng | I-17-117-EP- FFWF | 17186062.0 | 11 Aug 2017 | 11 Aug 2017 |

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| Use of slot format indication (SFI) for NR WUS | Beale, Martin Warwick;Wong, Shin Horng;Sharma, Vivek;Atungsiri, 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;Atungsiri, 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;Atungsiri, Samuel Asangbeng | I-17-130-EP- FFWF | 17193861.6 | 28 Sep 2017 | 28 Sep 2017 |
| NR Slot Format Configuration Conflicts | Wong, Shin Horng;Shimezawa, Kazuyuki | I-17-135-WO- PCT | PCT/EP2018/072137 | 15 Aug 2018 | 29 Sep 2017 |
| NR Slot Format Configuration Conflicts | Wong, Shin Horng;Shimezawa, Kazuyuki | I-17-135-EP- FFWF | 17194261.8 | 29 Sep 2017 | 29 Sep 2017 |
| Configurable Indicator in Synchronisation Signal | Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-160-WO- PCT | PCT/EP2018/081246 | 14 Nov 2018 | 14 Nov 2017 |
| Configurable Indicator in Synchronisation Signal | Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-160-EP- FFWF | 17201748.5 | 14 Nov 2017 | 14 Nov 2017 |
| WUS Formats Selection | Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-166-EP- FFWF | 17201751.9 | 14 Nov 2017 | 14 Nov 2017 |
| WUS Formats Selection | Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-166-WO- PCT | PCT/EP2018/081254 | 14 Nov 2018 | 14 Nov 2017 |

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| 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 |
| UE specific WUS validity timer | Sharma, Vivek;Wong, Shin Horng;Beale, Martin Warwick;Atungsiri, Samuel Asangbeng | I-17-164-WO-PCT | PCT/EP2018/080667 | 08 Nov 2018 | 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 |
| 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 |
| CQI table incorporating 64QAM and repetition | Beale, Martin Warwick;Wong, Shin Horng | I-17-168-EP-FFWF | 17202196.6 | 16 Nov 2017 | 16 Nov 2017 |
| CQI table incorporating 64QAM and repetition | Beale, Martin Warwick;Wong, Shin Horng | I-17-168-WO-PCT | PCT/EP2018/081464 | 15 Nov 2018 | 16 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 |
| 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 |
| 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 |

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| 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 |
| Explicit UL HARQ-ACK Indicator for URLLC | Wong, Shin Horng; Beale, Martin Warwick; Shimezawa, Kazuyuki; Sharma, Vivek | I-18-010-WO- PCT | PCT/EP2019/050962 | 15 Jan 2019 | 19 Jan 2018 |
| Explicit UL HARQ-ACK Indicator for URLLC | Wong, Shin Horng; Beale, Martin Warwick; Shimezawa, Kazuyuki; Sharma, Vivek | I-18-010-EP- FFWF | 18152655.9 | 19 Jan 2018 | 19 Jan 2018 |
| Early Uplink Data Transmission CSS for MTC | Wong, Shin Horng; Beale, Martin Warwick | I-18-004-WO- PCT | PCT/EP2019/052514 | 01 Feb 2019 | 02 Feb 2018 |
| Early Uplink Data Transmission CSS for MTC | Wong, Shin Horng; Beale, Martin Warwick | I-18-004-EP- FFWF | 18154993.2 | 02 Feb 2018 | 02 Feb 2018 |
| Uplink Grant for Early Data Transmission | Wong, Shin Horng; Beale, Martin Warwick | I-18-005-EP- FFWF | 18154998.1 | 02 Feb 2018 | 02 Feb 2018 |
| Uplink Grant for Early Data Transmission | Wong, Shin Horng; Beale, Martin Warwick | I-18-005-WO- PCT | PCT/EP2019/052517 | 01 Feb 2019 | 02 Feb 2018 |
| WUS Candidate Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-17-200-WO- PCT | PCT/EP2019/053180 | 08 Feb 2019 | 15 Feb 2018 |
| WUS Candidate Indicator | Wong, Shin Horng; Beale, Martin Warwick | I-17-200-EP- FFWF | 18157017.7 | 15 Feb 2018 | 15 Feb 2018 |
| Use of NB-IoT WUS for eMTC | Beale, Martin Warwick; Wong, Shin Horng | I-17-201-EP- FFWF | 18157018.5 | 15 Feb 2018 | 15 Feb 2018 |
| Use of NB-IoT WUS for eMTC | Beale, Martin Warwick; Wong, Shin Horng | I-17-201-WO- PCT | PCT/EP2019/053590 | 13 Feb 2019 | 15 Feb 2018 |
| WUS Candidate Indicator Transmission | Wong, Shin Horng; Beale, Martin Warwick | I-18-022-EP- FFWF | 18157021.9 | 15 Feb 2018 | 15 Feb 2018 |
| WUS Candidate Indicator Transmission | Wong, Shin Horng; Beale, Martin Warwick | I-18-022-WO- PCT | PCT/EP2019/053583 | 13 Feb 2019 | 15 Feb 2018 |
| Early PUSCH Repetition Termination Search Space | Wong, Shin Horng; Beale, Martin Warwick | I-18-003-WO- PCT | PCT/EP2019/053188 | 08 Feb 2019 | 16 Feb 2018 |

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| Early PUSCH Repetition Termination Search Space | Wong, Shin Horng;Beale, Martin Warwick | I-18-003-EP-FFWF | 18157260.3 | 16 Feb 2018 | 16 Feb 2018 |
| Narrowband Offset Indicator | Wong, Shin Horng;Beale, Martin Warwick;Priyanto, Basuki | I-18-025-EP-FFWF | 18157251.2 | 16 Feb 2018 | 16 Feb 2018 |
| Narrowband Offset Indicator | Wong, Shin Horng;Beale, Martin Warwick;Priyanto, Basuki | I-18-025-WO-PCT | PCT/EP2019/053688 | 14 Feb 2019 | 16 Feb 2018 |
| Reception of eMTC transmission in soft buffer parts | Beale, Martin Warwick;Wong, Shin Horng;Priyanto, Basuki | I-18-027-EP-FFWF | 18157261.1 | 16 Feb 2018 | 16 Feb 2018 |
| Reception of eMTC transmission in soft buffer parts | Beale, Martin Warwick;Wong, Shin Horng;Priyanto, Basuki | I-18-027-WO-PCT | PCT/EP2019/053334 | 11 Feb 2019 | 16 Feb 2018 |
| Subcarrier allocation for Msg3 transmission in eMTC | Wong, Shin Horng;Beale, Martin Warwick | I-18-053-EP-FFWF | 18166205.7 | 06 Apr 2018 | 06 Apr 2018 |
| Resource Allocation for variable TBS in Message 3 | Wong, Shin Horng;Beale, Martin Warwick | I-18-054-EP-FFWF | 18166211.5 | 06 Apr 2018 | 06 Apr 2018 |
| Early Data Transmission | Wong, Shin Horng;Beale, Martin Warwick | I-18-060-EP-FFWF | 18167615.6 | 16 Apr 2018 | 16 Apr 2018 |
| Method of Indicating Information in enhanced Synchronisation Signal for eMTC | Wong, Shin Horng;Beale, Martin Warwick | I-18-070-EP-FFWF | 18171936.0 | 11 Mai 2018 | 11 Mai 2018 |
| Transmission of scaled PUSCH repetition in Msg3 EDT | Wong, Shin Horng;Beale, Martin Warwick | I-18-071-EP-FFWF | 18172380.0 | 15 Mai 2018 | 15 Mai 2018 |
| Critical message handling in the same DRB | Sharma, Vivek;Atungsiri, Samuel Asangbeng;Wong, Shin Horng;Shimezawa, Kazuyuki;Wakabayashi, Hideji | | | | |
| Multi-levels Downlink Pre-emption Indicator | Wong, Shin Horng | I-18-085-EP-FFWF | 18180486.5 | 28 Jun 2018 | 28 Jun 2018 |

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| Time Overlapped PDCCH candidates in the same Repetition Level for URLLC | Wong, Shin Horng; Beale, Martin Warwick; Shimezawa, Kazuyuki; Awad, Yassin Aden | I-18-091-EP-FFWF | 18185543.8 | 25 Jul 2018 | 25 Jul 2018 |
| Multiple uplink transmission parameters for URLLC & eMBB capable UE | Wong, Shin Horng; Beale, Martin Warwick; Shimezawa, Kazuyuki; Awad, Yassin Aden | I-18-093-EP-FFWF | 18185553.7 | 25 Jul 2018 | 25 Jul 2018 |
| Intra-UE processing pre-emption of eMBB by URLLC transmission | Wong, Shin Horng; Beale, Martin Warwick | I-18-099-EP-FFWF | 18185592.5 | 25 Jul 2018 | 25 Jul 2018 |
| Power saving techniques for multiple active bandwidth part (BWP) in NR | Awad, Yassin Aden; Wong, Shin Horng; Shimezawa, Kazuyuki; Sharma, Vivek; Beale, Martin Warwick | I-18-092-EP-FFWF | 18185912.5 | 26 Jul 2018 | 26 Jul 2018 |
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| Permission to use grant free resources for A-MTC | Beale, Martin Warwick; Wong, Shin Horng; Priyanto, Basuki | I-18-122-EP-FFWF | 18188600.3 | 10 Aug 2018 | 10 Aug 2018 |

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| Beam failure reporting and Radio Link Monitoring for multiple active bandwidth parts (BWP) in NR | Awad, Yassin Aden;Wong, Shin Horng;Shimezawa, Kazuyuki;Sharma, Vivek;Beale, Martin Warwick | I-18-123-EP- FFWF | 18195309.2 | 18 Sep 2018 | 18 Sep 2018 |
| Enhancement of channel coding for PDCCH repetition | Shimezawa, Kazuyuki;Beale, Martin Warwick;Wong, Shin Horng;Awad, Yassin Aden | I-18-124-EP- FFWF | 18197353.8 | 27 Sep 2018 | 27 Sep 2018 |
| Rules for URLLC traffic scheduling on uplink | Sharma, Vivek;Wong, Shin Horng;Awad, Yassin Aden | I-18-133-EP- FFWF | 18197373.6 | 27 Sep 2018 | 27 Sep 2018 |
| Multiple configuration of UL grant free for URLLC | Shimezawa, Kazuyuki;Wong, Shin Horng;Beale, Martin Warwick | I-18-140-EP- FFWF | 18197372.8 | 27 Sep 2018 | 27 Sep 2018 |
| Uplink Pre-emption Indicator Monitoring | Wong, Shin Horng;Beale, Martin Warwick;Shimezawa, Kazuyuki | I-18-139-EP- FFWF | 18197779.4 | 28 Sep 2018 | 28 Sep 2018 |
| Dynamic Sub-Paging Occasions for A-MTC | Wong, Shin Horng;Beale, Martin Warwick | I-18-141-EP- FFWF | 18197768.7 | 28 Sep 2018 | 28 Sep 2018 |
| HARQ operation in Pre-configured Uplink Resource in A-MTC | Wong, Shin Horng;Beale, Martin Warwick | I-18-142-EP- FFWF | 18197765.3 | 28 Sep 2018 | 28 Sep 2018 |
| HARQ operation when multiple transport blocks are scheduled by MPDCCH | Beale, Martin Warwick;Wong, Shin Horng | I-18-159-EP- FFWF | 18204003.0 | 01 Nov 2018 | 01 Nov 2018 |
| Enhanced Scheduling Request for URLLC | Wong, Shin Horng;Beale, Martin Warwick | I-18-160-EP- FFWF | 18204002.2 | 01 Nov 2018 | 01 Nov 2018 |
| Intra-UE prioritization and Multiplexing solutions for handling a mixture of different traffic for IoT 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 |

Assignment Inventor to Assignee to SEU to Sony Corp.

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| Dynamic DRX ON Duration | Wong, Shin Horng; Beale, Martin Warwick | I-18-189-EP-FFWF | 19151357.1 | 11 Jan 2019 | 11 Jan 2019 |
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| Dynamic Grant Intra-UE Packet Collisions | Wong, Shin Horng; Awad, Yassin Aden | I-19-001-EP-FFWF | 19152670.6 | 18 Jan 2019 | 18 Jan 2019 |
| Variable RSRP-based PUR timing advance validity determination | Beale, Martin Warwick; Wong, Shin Horng | I-18-217-EP-FFWF | 19156775.9 | 12 Feb 2019 | 12 Feb 2019 |
| Pre-configured Uplink Resource Configuration Change | Wong, Shin Horng; Beale, Martin Warwick; Priyanto, Basuki | I-19-033-EP-FFWF | 19157131.4 | 14 Feb 2019 | 14 Feb 2019 |
| Transmission of Msg3 quality report in a restricted number of bits | Beale, Martin Warwick; Wong, Shin Horng; Priyanto, Basuki | I-19-034-EP-FFWF | 19157325.2 | 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-FFWF | 19157326.0 | 14 Feb 2019 | 14 Feb 2019 |

Assignment inventor to Assignee to SEU to Sony Corp.

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| Relaxed measurements in CONNECTED/IDLE/INACTIVE mode in multi beam scenario | Sharma, Vivek; Beale, Martin Warwick; Wei, Yuxin; Wong, Shin Horng; Awad, Yassin Aden | 1-19-036-EP-FFWF | 19157287.4 | 14 Feb 2019 | 14 Feb 2019 |
| Conditional RRM Measurement for Power Saving | Wong, Shin Horng; Beale, Martin Warwick; Sharma, Vivek | 1-19-037-EP-FFWF | 19157314.6 | 14 Feb 2019 | 14 Feb 2019 |

