A.2.3 Estimate of fees

An estimate is our indication of our likely charges for a Particular Matter and is based on the information known at the time the estimate is given. Unless we agree otherwise in writing, any estimate does not amount to a promise or agreement that we will perform our services within a fixed time or for a fixed or capped fee. An estimate is subject to revision and is not binding on us.

A.2.4 Fixed fees

A fixed fee is an agreement by us in writing to render services in a Particular Matter for a stated fee. Unless otherwise agreed in writing, if we agree to a fixed fee and undertake work outside the agreed scope of the Particular Matter, we will charge for the additional work on the basis referred to in paragraph A.2.2.

A.2.5 Expenses

Unless we agree otherwise, we will instruct third parties that we engage on your behalf to seek payment from you directly and we will have no liability for amounts owing to the third party from you. If we incur or pay certain expenses on your behalf in connection with an Engagement Contract, including but not limited to third party fees, court fees, stamp duty, registration or search fees, they will be payable by you as a charge in addition to our fees and other non-fee charges in each Particular Matter and, unless we agree otherwise, you will provide us with funds in advance to pay those expenses. Non-fee charges may include photocopying, telephone charges and other charges notified by the Mayer Brown Practice. Additional sales or service taxes may be payable by you on some of these expenses.

A.3 Billing arrangements and settlement of our accounts

A.3.1 Our bills

We may send you bills at monthly or other intervals while your Particular Matter is in progress and in any event upon completion of the Particular Matter.

A.3.2 Payment of full amount

Our bills must be paid without any deduction or withholding on account of taxes or charges of any nature. If a deduction or withholding is required by law you must pay such additional amount as is necessary so that we receive the full amount of our bill. We also may issue a bill in which our fees are grossed up to account for such deduction or withholding.

A.3.3 Interest

Each of our bills must be paid within 30 days after the date the bill is sent. We may charge interest on any outstanding amount from the due date for payment until the bill is paid in full at a rate per annum equal to the lesser of (a) four percent plus the most currently available US Government 10 year yield as quoted in the Financial Times (such yield to start on the due date for payment and adjusted every 30 days thereafter based on the then most current quote of yield) and (b) if limited by the law of the jurisdiction of the Mayer Brown Practice that issued the bill, the highest rate in effect (calculated in the manner prescribed by such law) for late payments in commercial transactions.

A.3.4 Charges of other Mayer Brown Practices

The Principal Mayer Brown Practice may engage another Mayer Brown Practice on your behalf. If so, each Mayer Brown Practice may issue separate bills or the fees and expenses of other Mayer Brown Practices may be included in a bill issued by the Principal Mayer Brown Practice. Such fees and expenses may be expressed as a separate disbursement to meet local requirements.

A.3.5 Liability for our fees

If we agree to accept payment of our fees and expenses from a third party you will remain liable to us for them in the event of non-payment.

A.4 File and information management

A.4.1 Format and retention of files

We keep our files partly in paper form and partly in electronic form.

Unless otherwise agreed in writing, once the Particular Matter is closed we will retain the related files in accordance with applicable professional conduct rules and our then effective records retention policy. At the end of the retention period we may dispose of the files without notice to you. We will not destroy original signed documents we have agreed in writing to deposit in safe custody or documents we are required to retain as a matter of law or by our regulators.

A.4.2 Costs of retrieval of files and documents from storage

If, after a Particular Matter is closed, you ask us to retrieve any material belonging to you from the file we will do so without passing on the direct cost of retrieval. However, we may charge you for time spent in complying with your request and answering any inquiries from you. We may also charge for delivery to you of any materials.

A.4.3 Copyright

Unless otherwise agreed in writing, the copyright in the original materials we produce for you belongs to us. The fees you pay for our work, however, permit you to make use of such materials for the purpose for which they are created.

A.5 Termination

A.5.1 Your right to terminate

You may terminate our acting for you in any Particular Matter at any time by giving us notice in writing.

A.5.2 Our right to terminate

Subject to any limitations in applicable professional conduct rules, we may terminate acting for you in any Particular Matter at any time by giving you notice in writing.

A.5.3 Payment of fees and expenses on termination

You must pay our outstanding fees and expenses (and those accrued but not yet billed) if you or we terminate our Engagement Contract in connection with a Particular Matter.

A.5.4 Timing of termination of an engagement

Unless otherwise agreed in writing, an Engagement Contract in connection with a Particular Matter will come to an end or be deemed to have come to an end at the completion of our legal work in the Particular Matter or, if earlier, 12 months after the relevant Mayer Brown Practice last rendered any billable services to you on the Particular Matter. The lawyer-client relationship between you and the relevant Mayer Brown Practice will terminate at that point unless the relevant Mayer Brown Practice is providing other services under an Engagement Contract in another Particular Matter that has not then terminated or been deemed to have been terminated. Even if we inform you of developments in the law by newsletters or similar alerts, or we or persons associated with us are named as (or become) a recipient of a notice on your behalf, this will not create or revive any lawyer-client relationship.

In some Mayer Brown Practices, we may maintain a system to calendar due dates for the payment of maintenance and/or annuity fees relating to, or the renewal dates for the preservation of certain legal rights attaching to, intellectual property. In connection with this system, we may notify the person or entity listed in our records as the holder of such rights of the necessity of paying maintenance and/or annuity fees or obtaining a renewal in order to preserve such rights. Neither the maintenance of such system nor any such notification or renewal will constitute the provision of services for the purposes of determining whether there is a continuing lawyer-client relationship.

A.6 Communication

A.6.1 Use of email

We may communicate with you by email unless you ask us not to.

We prefer to encrypt email that we send to you (whether it contains confidential information or not), provided we are able to implement mutually acceptable encryption standards and protocols.

You are responsible for protecting your system from viruses and any other harmful codes or devices. We try to eliminate them from email and attachments but we do not accept liability for any that remain.

We may monitor or access any or all email sent to us. In addition, we scan incoming email for spam, viruses and other undesirable material, which may mean that email communications do not reach the intended recipient. Therefore, you should always follow up each important email by contacting the person to whom it has been sent.

A.6.2 Marketing materials

We may from time to time provide you with details relating to the Mayer Brown Practices and the services we provide, including updates on legal developments. If at any time you do not wish to receive that information, please notify us in writing. Our provision of such materials does not in itself create a client relationship between you and us.

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A.7 Money laundering and other notifications to authorities

A.7.1 Notifications to regulators and consent

In many jurisdictions in which we operate, we are required by law or regulators to put in place procedures to prevent money laundering. If we know or suspect (or have reasonable grounds for suspecting) that a matter or transaction involves money laundering we may, in accordance with our statutory obligations and those procedures, be required to make a notification of our knowledge or suspicion to the relevant regulatory authorities.

In certain jurisdictions, rules or regulations require taxpayers engaging in certain types of transactions to disclose their participation in such transactions to the tax authorities, and in some cases where we are acting as your tax adviser we are also required to report transactions to the tax authorities. In some circumstances, we may be obliged to maintain a list of and notify the tax authorities (notwithstanding any otherwise applicable duty of confidentiality) of the names of investors and other details. Depending on the circumstances, we may be unable to seek your consent or inform you that we have made such a notification.

In addition, in certain jurisdictions, rules, regulations or best practices require lawyers to disclose certain types of activities undertaken for clients (such as lobbying activities disclosed in the European Union Transparency Registers). Unless otherwise agreed in writing, we may make such disclosures.

A.7.2 Liability

We do not accept any liability for any loss or damage you or anyone else suffers by any actions we take, or any delay or failure or refusal to act, if done or made in good faith to comply with any anti-money laundering or sanctions law or regulation of any jurisdiction. We may delay or refuse to make any payment or transfer of monies or refuse instructions relating to the same, or to your matter, if we determine appropriate so as to comply with any anti-money laundering or sanctions law or regulation or related investigation. We do not accept any liability for any loss or damage you or anyone else suffers by actions taken by any financial institution with which we deal.

A.7.3 Client due diligence requirements

Applicable anti-money laundering and other similar legislation and requirements and our internal procedures may require us to identify and verify the identity of our clients and in some cases also their beneficial owners, and to conduct other background checks. We may be required to retain and update our records of the information obtained. We may also be required to make detailed inquiries as to a number of matters, including as to the source of funds being used in Particular Matters on which we advise and the beneficial owner(s) of them. We refer to these requirements as the **"CDD Requirements"**.

Where possible, we try to meet the CDD Requirements using information from public sources and/or by electronic verification. However, we may need to ask you for (and retain) documents and other information for this purpose. We may provide copies of this information to any other adviser engaged on your behalf for their use in meeting similar requirements imposed on them, or to our bank in connection with its CDD requirements for the operation of our client trust accounts.

We may delay commencing work, decline to act or (if appropriate) cease to act if the CDD Requirements are not met to our satisfaction and within a reasonable period of time.

We may charge you in the normal way for work that we have to do and for expenses incurred for the purpose of meeting the CDD Requirements.

A.7.4 Cash

We do not accept cash without prior agreement. If cash is deposited directly with our bank we may charge for any additional checks we deem necessary regarding the source of funds and the beneficial owner(s) of them to meet the CDD Requirements.

A.8 No third party reliance

Our services are provided for your benefit alone and solely for the purposes of the Particular Matter to which they relate. Unless otherwise agreed in writing, our work may not be used or relied on by any third party, even if such third party may have agreed to pay our bill.

A.9 Confidentiality, disclosure and conflicts

A.9.1 Confidentiality and disclosure

We owe you a duty of confidentiality in respect of information relating to you that we obtain while dealing with your matters. We will not disclose such information except in the circumstances set out in this paragraph A.9 or otherwise as required or permitted by the applicable professional conduct rules. We owe the same duty of confidentiality to all our clients. Accordingly, if at any time we possess information in respect of which we owe a duty of confidentiality to a former or another current client, we will not be required to disclose such information to you nor use it on your behalf even though the information may be material to your Particular Matter.

A.9.2 Disclosure to certain third parties

Our duty to keep confidential information relating to you or your Particular Matter on which we are acting, or have acted, for you is subject to any disclosures we consider in good faith we are required to make to any police, governmental, regulatory or supervisory authority under any statutory or regulatory obligations (including those described in paragraph A.7 (*Money laundering and other notifications to authorities*)) or in accordance with any internal procedures that we have put in place to meet those obligations.

We may, when required by our insurers, auditors or other professional advisers (including independent counsel or debt collection agencies) provide to them information relating to you or details of a Particular Matter or Matters on which we are acting or have acted for you.

From time to time, we may use third parties to provide typing, photocopying, printing, data handling and other business support services, subject to contractual duties of confidentiality.

A.9.3 Disclosure to other Mayer Brown Practices

We may disclose confidential information relating to you, or Particular Matters, to other Mayer Brown Practices, all of which are bound by the same duty of confidentiality that we have to you regarding to any such information.

A.9.4 Publicity

We may disclose that you are a client and describe in general terms the work we do for you unless you ask us not to do so in writing. However, we will not, without your consent, disclose that we are acting, or have acted, for you on a Particular Matter if the matter remains otherwise confidential.

A.9.5 Conflicts of interest - advance waiver

We may now or in the future without your consent act for your competitors, adverse parties or our other clients whose interests are or may be opposed to or in conflict with yours or your Affiliates in matters not substantially related to Particular Matters we are handling for you (including in transactions, bankruptcy, insolvency, arbitration, litigation or other forms of dispute resolution). Where we are acting for you on a Particular Matter, however, we will not act for another client on the same matter unless and to the extent that we are permitted to do so by the applicable professional conduct rules.

A.9.6 Conflicts of interest and confidentiality

Subject to applicable professional conduct rules, where we have information in respect of which we owe you a duty of confidentiality and which is or may be material to a matter on which we are acting for another client, we may act for that other client, provided we put in place arrangements, such as "ethical" or "information" screens, which are reasonably appropriate in the circumstances to ensure that the confidentiality of your information is maintained.

A.10 Joint representations

Where we act for you jointly with others in a Particular Matter, we may disclose to all the parties we represent any confidential information we obtain from you and the content of our communications with you. To that extent, the advice we give will cease to be privileged as between you and the other clients. Unless otherwise agreed in writing, you will remain jointly and severally liable for our fees even if you have made different arrangements with the other parties. If a conflict arises during the course of a Particular Matter, we may need to cease to act for you unless the conflict can be otherwise resolved. In those circumstances, we may continue to act for some or all of the other clients. Representation of an association, partnership, joint venture or similar joint entity is not a joint representation. Where you and another client or clients jointly instruct us, we will assume that any of you has authority to give instructions on behalf of you unless any of you tell us otherwise in writing.

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A.11 Data

A.11.1 Use of data

We process data, including personal data, in accordance with our legitimate business interests in the provision of legal and professional services, compliance with legal and regulatory requirements imposed upon us and in the management of our business. Data may be shared with other Mayer Brown Practices and the Mayer Brown Consultancies pursuant to arrangements incorporating the EU Model Clauses.

A.11.2 Use of personal data

We are subject to various data protection and data privacy laws in the jurisdictions in which we operate. Individuals in the European Union, or individuals whose data we process in Hong Kong or Japan, have certain rights under applicable laws to request access to the personal data we hold about them and to rectify or (if an individual in the European Union) erase that personal data. Further information, including our data privacy enquiries policy, may be found in the Privacy Notice on our website. You must make sure that personal data you provide and your instructions to us as regards its use do not breach your obligations under applicable data privacy laws and regulations. If you are providing personal data about individuals, you are responsible for providing any relevant data privacy information to the individuals to whom the data relates.

A.11.3 Questions about our use of personal data

You may contact the Mayer Brown privacy team with any enquiries by emailing privacy@mayerbrown.com. Individuals in the European Union, or individuals whose data we process in Hong Kong or Japan, may, if they are dissatisfied with the way in which we are handling their personal data, contact the relevant data privacy regulator or officer, as set out in the Legal Notices section of our website.

A.12 No waiver of our privilege

We represent many clients and handle a great number of complex matters. As a result, from time to time, issues may arise that raise questions under our applicable professional conduct rules, including possible disputes with a client and conflicts of interest issues. When such issues arise, we generally seek the advice of our internal counsel (or, if we choose, outside counsel). You agree that we, in our own discretion, may do so. We consider such consultations to be protected from disclosure under the lawyer-client privilege. While some courts have limited this privilege under certain circumstances, we believe that it is in both your and our interest that we receive expert analysis of our obligations. Our ongoing representation of you will not result in a waiver of any lawyer-client privilege that we may have to protect the confidentiality of our communications with such counsel.

A.13 Force majeure

We will not be liable to you if we are unable to perform our services in a Particular Matter as a result of any cause beyond our reasonable control. If this happens, we will tell you as soon as reasonably practicable.

A.14 Assignment

A.14.1 Permitted assignment

We may assign, or may assign the benefit of, any Engagement Contract to any successor partnership or corporate entity that carries on the business or any part of the business of the relevant Principal Mayer Brown Practice. You will accept the performance by such assignee of the Engagement Contract in substitution for the Principal Mayer Brown Practice. References in these International Terms and in any relevant Engagement Letter to the Mayer Brown Practice include any such assignee.

A.14.2 Other assignment

Subject to paragraph A.14.1, neither you nor we have the right to assign or transfer the benefit or burden of an Engagement Contract without the written agreement of the other.

A.14.3 Assignment by other Mayer Brown Practices

References in these International Terms or in any Engagement Letter to another Mayer Brown Practice includes any limited liability partnership or other partnership or corporate entity to or by which all or part of the business of the other Mayer Brown Practice is from time to time transferred or carried on.

A.15 Associated Persons

Unless the Engagement Letter expressly states otherwise, you accept the provisions of the Engagement Contract on your own behalf and as agent for each Associated Person. You confirm that you have, or will have, the authority to retain us on behalf of each Associated Person. You will procure that each Associated Person will act on the basis that they are a party to and are bound by the relevant Engagement Contract. All references in these International Terms (other than in this paragraph A.15) and in the Engagement Letter to **"you"** (and derivatives of it) mean you and each Associated Person.

A.16 Financial transactions

A.16.1 Representing financial institutions

Unless otherwise agreed in writing, when we represent a financial institution in a Particular Matter, we will not be responsible for advising the financial institution on compliance with applicable laws and regulations arising out of its legal or regulatory status or the general nature of its business or on its internal governance issues.

A.16.2 Refiling; re-recording

Whether or not you are a financial institution, unless we otherwise agree in writing in the Engagement Contract, we do not undertake responsibility for advising you upon or ensuring compliance with periodic refiling or re-recording requirements.

A.17 Use of client accounts

In certain jurisdictions outside the United States a Mayer Brown Practice is permitted at its discretion to provide client account facilities to receive, hold and transfer funds in connection with a matter on which it is acting. If we have agreed to the use of our client account such use is at your own risk. You must tell us in advance when you are transferring funds to us as unexpected or unidentified receipts may either be retained pending further investigation or returned to the sender. We may charge for any checks we deem necessary regarding the source of funds and the beneficial owner(s) to meet the CDD Requirements.

A.18 Definitions

In these International Terms and (where applicable) in an Engagement Letter any reference to a statute or a statutory provision includes any consolidation, re-enactment, modification or replacement of the same from time to time and:

"Affiliate" means in relation to an entity any person who or entity that controls or is under common control with or is controlled by that entity.

"Associated Person" in a Particular Matter, means (subject to paragraph A.8 (*No third party reliance*)) any Affiliate that is with our agreement in writing a recipient of and entitled to rely on our services in relation to that matter.

A.19 Inconsistencies

In the event of any inconsistency between an Engagement Letter and these International Terms, the Engagement Letter will prevail.

A.20 Governing law

Each Engagement Contract will, unless otherwise provided in the Engagement Letter or these International Terms, be subject to and governed by the laws of the jurisdiction in which the Principal Mayer Brown Practice for that Engagement Contract has its principal place of business.

A.21 Application of these International Terms and amendments

These International Terms supersede any earlier terms of business to which we may have agreed and, unless otherwise agreed in writing, apply to the services referred to in any Engagement Letter accompanying these terms and all subsequent services we provide to you.

B. Additional Terms

B.1 Additional terms applicable to the US offices of Mayer Brown LLP (the "US LLP") only

B.1.1 Provision for work performed by lawyers resident in our New York office

In the event you have a fee dispute with us in an amount that is between US$1,000 and US$50,000, you may have the right to seek resolution of that dispute in an arbitration under Part 137 of the Rules of the Chief Administrator, New York State Office of Court Administration. For further information about the fee dispute arbitration procedures, please refer to the text of Part 137, available at http://www.nycourts.gov/rules/chiefadmin/137.shtml.

B.1.2 Provision for work performed by lawyers resident in our Houston office

NOTICE TO CLIENTS: The State Bar of Texas requires us to inform you that it prosecutes professional misconduct committed by Texas attorneys. Although not every complaint against or dispute with a lawyer involves professional misconduct, the State Bar's Office of Chief Disciplinary Counsel will provide you with information about how to file a complaint. Please call 1 800 932 1900 toll-free for more information.

B.1.3 Securities and Exchange Commission – Standards of Professional Conduct

Pursuant to Part 205 in Title 17 of the Code of Federal Regulations (**"Standards of Professional Conduct"**), if any lawyer of the US LLP represents you in appearing and practicing before the Securities and Exchange Commission (the **"SEC"**), we may have obligations imposed on us, as further described in the Standards of Professional Conduct. These obligations currently are limited to up-the-ladder reporting within your organization, although some form of reporting to the SEC may be adopted. If any of our lawyers currently represents, or in the future represents, you in appearing and practicing before the SEC, you acknowledge that we are (or will become) subject to the obligations imposed on us by the Standards of Professional Conduct.

B.1.4 Contract lawyers or paraprofessionals

If contract lawyers or paraprofessionals that are engaged in a US office by the US LLP through an independent agency are assigned to work on any Particular Matter, the US LLP will charge you hourly rates based upon the independent agency cost charged to the US LLP plus indirect costs, including those attributable to professional liability insurance, information technology infrastructure and facilities. Indirect costs will vary depending upon whether the contractor is based in an office of the US LLP or at a client or third party site, and will not be expected to exceed US $ 35 per hour unless you are notified otherwise.

B.1.5 Jurisdiction

Any dispute in the United States arising from or under an Engagement Contract where the US LLP is the Principal Mayer Brown Practice will be submitted to the exclusive jurisdiction of, and will be exclusively decided by, the competent courts located in Chicago, Illinois.

B.2 Additional terms applicable to the European offices only

B.2.1 Exclusions and limitations on our liability

B.2.1.1 Proportional liability

If you suffer loss or damage because of our breach of contract or of our negligence, our liability will be limited to a just and equitable proportion of the total loss or damage you suffer having regard to the extent of the responsibility of any other party who may also be liable to you in respect of such loss and damage. Our liability in these circumstances will not be increased because of any actual or potential shortfall in recovery from another party whether due to any exclusion or limitation of liability that you have agreed to with another party, difficulty in enforcement, settlement of claims or any other reason.

B.2.1.2 Liability in respect of other parties

Where we instruct another party on your behalf (for example, a barrister, local counsel, expert or co-counsel) we will not be liable for the services provided by that other party.

B.2.1.3 Liability cap

We may, from time to time, if permitted by local laws and applicable professional conduct rules, agree with you that our aggregate liability to you for a Particular Matter or Matters is limited to an amount specified in the relevant Engagement Letter (a **"Liability Cap"**).

A Liability Cap will apply to all liability that we may have to you in respect of the relevant Particular Matter or Matters, including for breach of contract and for negligence (but not for banking failure or compliance with legislation in respect of which a separate limit of liability applies as set out in paragraph B.2.1.6).

The Liability Cap (if any) will apply on an aggregate basis to all liabilities that we may have to you and any Associated Person (including third parties when a consent to such third parties is given under paragraph A.8 (*No third party reliance*)) in the relevant Particular Matter or Matters.

B.2.1.4 No claim against individual employees/partners

No individual employee, consultant or partner has a contract with you or owes you a duty of care. Any services performed by an employee, consultant or partner are performed on behalf of the relevant Mayer Brown Practice and that person does not assume any personal responsibility to you or any other party for those services. Accordingly, it is a fundamental provision of these International Terms that you will not bring any claim against any individual employee, consultant or partner, directly or indirectly, in connection with our services.

None of the provisions of this paragraph B.2.1.4 limit or exclude the liability of the relevant Mayer Brown Practice for the acts or omissions of any employee, consultant or partner.

B.2.1.5 Inside information

If you are a company you will tell us if a matter on which we are advising you is or becomes "inside information" in relation to you or a subsidiary or parent company. After such notification, we will implement our internal procedures relating to the handling of such information.

B.2.1.6 No liability for banking failure or our compliance with legislation

We do not accept liability for any loss or damage you suffer if any bank that we use collapses or for reasons outside of our control is otherwise unable to transact business or transfer funds in a timely manner or at all, or any loss or damage which arises from any compliance with law or regulation.

B.2.2 Additional terms applicable to the London office only

B.2.2.1 Regulatory information

Mayer Brown International LLP (the **"UK LLP"**) is a limited liability partnership incorporated in England and Wales under no. OC303359. It is authorized and regulated by the Solicitors Regulation Authority. Its registered office is 201 Bishopsgate, London EC2M 3AF.

B.2.2.2 Members and partners

An English limited liability partnership is a body corporate which has members and not partners. In these terms references to a "partner" in relation to the UK LLP means a member of Mayer Brown International LLP. However, in our dealings with you, the UK LLP may also use the term partner to refer to an employee or consultant of the UK LLP who is a lawyer with equivalent standing or qualification, or to a lawyer with equivalent standing in another Mayer Brown Practice.

B.2.2.3 Interest on client account

Unless we agree otherwise in writing we deposit client money in an instant access deposit account and will pay the interest earned in such account to the client for the period during which the money is held, unless such interest is de minimis. The identity of our bank and our policy for the handling of client funds can be found in the Legal Notices section of our website.

B.2.2.4 Complaints

We will do what we reasonably can to resolve any complaint about our services or bills in accordance with the UK LLP's complaints handling policy, a copy of which is available in the Legal Notices section of our website and which will be provided on request. If you are not satisfied with our handling of your complaint you may be eligible to complain to the Legal Ombudsman (**"LeO"**) at PO Box 6806 Wolverhampton WV1 9WJ. You must contact LeO within six months of our final response; otherwise LeO may decide not to investigate your complaint. More information is available at www.legalombudsman.org.uk. You may have a right to object to a bill from the UK LLP by making a complaint as above and/or by applying to the Court for an assessment of the bill under Part III Solicitors Act 1974.

B.2.2.5 The Financial Services and Markets Act 2000 ("FSMA")

B.2.2.5.1 Insurance contracts

If and to the extent that our legal services involve insurance distribution activity (which is, broadly, the advising on, selling and administration of insurance contracts) from the UK, you should note that we are not "authorised" by the Financial Conduct Authority under FSMA. However, we are included on the register maintained by it so that we can carry on insurance distribution activity. The register can be accessed via the Financial Conduct Authority website at www.fca.org.uk/register. This part of our business is regulated by the Solicitors Regulation Authority, the independent regulatory body of the Law Society of England & Wales (a designated professional body for the purposes of FSMA) of which we are members. Arrangements for complaints or redress if anything goes

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wrong are subject to the jurisdiction of the Legal Ombudsman. We will not provide insurance distribution services unless you expressly ask us to do so.

B.2.2.5.2 Investments

Depending on the nature of the services we provide to you, it is possible that we may, on occasions when you instruct us to do so, provide you with legal services which relate to investments. We are not "authorised" by the Financial Conduct Authority under FSMA. Where our services are provided from the UK, we are permitted to undertake certain activities in relation to investments that are limited in scope and incidental to our legal services or which may be regarded as a necessary part of our legal services because we are regulated by the Solicitors Regulation Authority (which together with LeO also provides complaints and redress mechanisms). No communication either to you, or on your behalf to any other person, during the course of our engagement is an invitation or inducement to engage in investment activity and nothing we say or write should be construed as such.

B.2.2.6 Third party rights

Other than paragraphs B.2.1.1 through B.2.1.4, no provision of an Engagement Contract is intended to be enforceable pursuant to the Contracts (Rights of Third Parties) Act 1999. Accordingly, other than our employees, consultants or partners wishing to rely on those paragraphs, no third party will have any right to enforce, or rely on, any provision of an Engagement Contract.

B.2.2.7 Professional indemnity insurance

The UK LLP is required to hold a minimum level of insurance cover under the Solicitors' Indemnity Insurance Rules. The territorial coverage is worldwide for the UK LLP and details of our insurers can be found in the Legal Notices section of our website.

B.2.2.8 Our rights over your property (our lien)

If any, or any part of any, bill is not paid within 30 days after the bill is sent, we will, to the extent we are permitted to do so as a matter of law and applicable professional conduct rules, retain money, papers and other property belonging to you even if these have been provided to us in relation to a different matter until such time as all amounts due to us are paid in full. Subject to applicable professional conduct rules, we may seek a charging order over property that we recover or preserve for you in litigation. We do not waive these rights if we accept any alternative security for our costs, for example a payment on account.

B.2.2.9 Jurisdiction

Any dispute arising from or in connection with an Engagement Contract where the UK LLP is the Principal Mayer Brown Practice will be subject to the exclusive jurisdiction of the English courts.

B.2.3 Additional terms applicable to the Brussels office only

B.2.3.1 Interest on client account

Unless we agree otherwise in writing, we deposit client money in an instant access deposit account and will pay the interest earned in such account to the party required by bar rules for the period during which the money is held, unless such interest is *de minimis*. The identity of our bank and our policy for handling of client funds can be found in the Legal Notices section of our website.

B.2.3.2 Jurisdiction

Any dispute arising from or under an Engagement Contract where the Brussels office is the Principal Mayer Brown Practice will be submitted to the exclusive jurisdiction of, and will be exclusively decided by, the competent courts in Brussels, without prejudice to the competence of the professional bodies having authority over the Brussels office.

B.2.4 Additional terms applicable to the Paris office (the "French SELAS") only

B.2.4.1 Governing law and jurisdiction

The lawyers of the French SELAS providing legal services pursuant to an Engagement Contract where the French SELAS is the Principal Mayer Brown Practice are Avocats admitted to practice at the Bar of the Paris Court of Appeals. In this respect, each such Engagement Contract will be governed by, and construed in accordance with, the laws of France and, more particularly, the Internal Regulations of the Paris Bar (*Règlement Intérieur du Barreau de Paris*). Any dispute arising from or under such Engagement Contract must be first submitted to the exclusive jurisdiction of the Bâtonnier of the Bar of the Paris Court of Appeals.

B.2.5 Additional terms applicable to the German branch of the US LLP only

B.2.5.1 Mandatory German legislation on the calculation of lawyers' fees in German court proceedings

If the Particular Matter relates to our representation of you in German court proceedings, we are legally required to charge fees and disbursements which are not lower than those provided for in the German Federal Lawyers Act (*BRAO*) pertaining to the Remuneration of Lawyers (*RVG*). Please note that the mandatory fees in such cases are calculated by reference to the value of the Particular Matter as assessed by the German court.

B.2.5.2 Governing law and jurisdiction

Notwithstanding paragraph A.20 (*Governing law*), each Engagement Contract with an office in Germany will be governed by German law, and any dispute arising from or under such Engagement Contract will be subject to the exclusive jurisdiction of the Courts of Frankfurt am Main.

B.3 Additional terms applicable to the Asia offices (other than Japan) (the "HK Partnership") only

B.3.1 Third party rights

Other than paragraphs B.3.2 and B.3.3, no provision of an Engagement Contract is intended to be enforceable pursuant to the Contracts (Rights of Third Parties) Ordinance (Cap 623).

B.3.2 Exclusions and limitations on our liability

B.3.2.1 Proportional liability

If you suffer loss or damage because of our breach of contract or of our negligence, our liability will be limited to a just and equitable proportion of the total loss or damage you suffer having regard to the extent of the responsibility of any other party who may also be liable to you in respect of such loss and damage. Our liability in these circumstances will not be increased because of any actual or potential shortfall in recovery from another party whether due to any exclusion or limitation of liability that you have agreed to with another party, difficulty in enforcement, settlement of claims or any other reason.

B.3.2.2 Liability in respect of other parties

Where we instruct another party on your behalf (for example, a barrister, local counsel, expert or co-counsel) we will not be liable for the services provided by that other party.

B.3.2.3 Liability cap

We may, from time to time, if permitted by local laws and applicable professional conduct rules, agree with you that our aggregate liability to you for a Particular Matter or Matters is limited to an amount specified in the relevant Engagement Letter (a **"Liability Cap"**).

A Liability Cap will apply to all liability that we may have to you in respect of the relevant Particular Matter or Matters, including for breach of contract and for negligence (but not for banking failure or compliance with legislation in respect of which a separate limit of liability applies as set out in paragraph B.3.4).

The Liability Cap (if any) will apply on an aggregate basis to all liabilities that we may have to you and any Associated Person (including third parties when a consent to such third parties is given under paragraph A.8 (*No third party reliance*)) in the relevant Particular Matter or Matters.

B.3.3 No claim against individual employees/partners

No individual employee, consultant or partner of the HK Partnership has a contract with you or owes you a duty of care. Any services performed by an employee, consultant or partner are performed on behalf of the HK Partnership and that person does not assume any personal responsibility to you or any other party for those services. Accordingly, it is a fundamental provision of these International Terms that you will not bring any claim against any individual employee, consultant or partner, directly or indirectly, in connection with our services.

None of the provisions of this paragraph B.3.3 limit or exclude the liability of the HK Partnership for the acts or omissions of any employee, consultant or partner.

B.3.4 No liability for banking failure or our compliance with legislation

We do not accept liability for any loss or damage you suffer if any bank that we use collapses or for reasons outside of our control is otherwise unable to transact business or transfer funds in a timely manner or at all, or any loss or damage which arises from our compliance with law or regulation.

IPR2023-01267, -01268, -01269, -01270, -01272, -01273
Pantech Wireless, LLC Ex. 2003 - Part 4
Page 5 of 54

B.3.5 Our rights over your property (our lien)

If any, or any part of any, bill is not paid within 30 days after the bill is sent, we will, to the extent we are permitted to do so as a matter of law and applicable professional conduct rules, retain money, papers and other property belonging to you even if these have been provided to us in relation to a different matter until such time as all amounts due to us are paid in full. Subject to applicable professional conduct rules, we may seek a charging order over property that we recover or preserve for you in litigation. We do not waive these rights if we accept any alternative security for our costs, for example a payment on account.

B.3.6 Governing law and jurisdiction

Notwithstanding paragraph A.20 (*Governing law*), each Engagement Contract where the HK Partnership (including any of its associated legal practices in Asia) is the Principal Mayer Brown Practice will be governed by Hong Kong law, and any dispute arising from or under such Engagement Contract will be subject to the exclusive jurisdiction of the competent courts located in Hong Kong.

B.4 Additional terms applicable to Mayer Brown Gaikokuho Jimu Bengoshi Jimusho ("Mayer Brown GJBJ") only

B.4.1 Exclusions and limitations on our liability

B.4.1.1 Proportional liability

If you suffer loss or damage because of our breach of contract or of our negligence, our liability will be limited to a just and equitable proportion of the total loss or damage you suffer having regard to the extent of the responsibility of any other party who may also be liable to you in respect of such loss and damage. Our liability in these circumstances will not be increased because of any actual or potential shortfall in recovery from another party whether due to any exclusion or limitation of liability that you have agreed to with another party, difficulty in enforcement, settlement of claims or any other reason.

B.4.1.2 Liability in respect of other parties

Where we instruct another party on your behalf (for example, a barrister, local counsel, expert or co-counsel) we will not be liable for the services provided by that other party.

B.4.1.3 Liability cap

We may, from time to time, if permitted by local laws and applicable professional conduct rules, agree with you that our aggregate liability to you for a Particular Matter or Matters is limited to an amount specified in the relevant Engagement Letter (a **"Liability Cap"**).

A Liability Cap will apply to all liability that we may have to you in respect of the relevant Particular Matter or Matters, including for breach of contract and for negligence (but not for banking failure or compliance with legislation in respect of which a separate limit of liability applies as set out in paragraph B.4.3).

The Liability Cap (if any) will apply on an aggregate basis to all liabilities that we may have to you and any Associated Person (including third parties when a consent to such third parties is given under paragraph A.8 (*No third party reliance*)) in the relevant Particular Matter or Matters.

B.4.2 No claim against individual employees/partners

No individual employee, consultant or partner of Mayer Brown GJBJ has a contract with you or owes you a duty of care. Any services performed by an employee, consultant or partner are performed on behalf of Mayer Brown GJBJ and that person does not assume any personal responsibility to you or any other party for those services. Accordingly, it is a fundamental provision of these International Terms that you will not bring any claim against any individual employee, consultant or partner, directly or indirectly, in connection with our services.

None of the provisions of this paragraph B.4.2 limit or exclude the liability of Mayer Brown GJBJ for the acts or omissions of any employee, consultant or partner.

B.4.3 No liability for banking failure or our compliance with legislation

We do not accept liability for any loss or damage you suffer if any bank that we use collapses or for reasons outside of our control is otherwise unable to transact business or transfer funds in a timely manner or at all, or any loss or damage which arises from our compliance with law or regulation.

B.4.4 Our rights over your property (our lien)

If any, or any part of any, bill is not paid within 30 days after the bill is sent, we will, to the extent we are permitted to do so as a matter of law and applicable professional conduct rules, retain money, papers and other property belonging to you even if these have been provided to us in relation to a different matter until such time as all amounts due to us are paid in full. Subject to applicable professional conduct rules, we may seek a charging order over property that we recover or preserve for you in litigation. We do not waive these rights if we accept any alternative security for our costs, for example a payment on account.

B.4.5 Governing law and jurisdiction

Notwithstanding paragraph A.20 (*Governing law*), and unless otherwise agreed in writing, each Engagement Contract with Mayer Brown GJBJ will be governed by the laws of England and Wales. Any dispute arising from or in connection with an Engagement Contract where Mayer Brown GJBJ is the Principal Mayer Brown Practice will be subject to the exclusive jurisdiction of the English courts.

B.5 Additional terms applicable to Tauil & Chequer only

B.5.1 Governing law and jurisdiction

The lawyers of Tauil & Chequer providing legal services pursuant to an Engagement Contract where Tauil & Chequer is the Principal Mayer Brown Practice are lawyers admitted to practice at one or more Brazilian Bar Associations (**"OAB"**). In this respect, each such Engagement Contract will be governed by, and construed in accordance with, the laws of Brazil and, more particularly, Law 8.906/04 and any regulations provided by OAB. Any dispute arising from or under such Engagement Contract must be submitted to the exclusive jurisdiction of a Brazilian State Court in a State where Tauil & Chequer has an office.

B.6 Additional terms applicable to the Dubai branch of the US LLP only

B.6.1 Exclusions and limitations on our liability

B.6.1.1 Proportional liability

If you suffer loss or damage because of our breach of contract or of our negligence, our liability will be limited to a just and equitable proportion of the total loss or damage you suffer having regard to the extent of the responsibility of any other party who may also be liable to you in respect of such loss and damage. Our liability in these circumstances will not be increased because of any actual or potential shortfall in recovery from another party whether due to any exclusion or limitation of liability that you have agreed to with another party, difficulty in enforcement, settlement of claims or any other reason.

B.6.1.2 Liability in respect of other parties

Where we instruct another party on your behalf (for example, local Emirati litigators before any UAE court or public relations officer) we will not be liable for the services provided by that other party.

B.6.2 Governing law and jurisdiction

Notwithstanding paragraph A.20 (*Governing law*), and unless otherwise agreed in writing, each Engagement Contract with the Dubai branch will be governed by the laws of the Dubai International Financial Centre, and any dispute arising from or under such Engagement Contract will be subject to the exclusive jurisdiction of the DIFC Courts.

EXHIBIT 27

ROPES & GRAY LLP
1900 UNIVERSITY AVENUE, 6th FLOOR
EAST PALO ALTO, CA 94303-2284
WWW.ROPESGRAY.COM

December 2, 2022

James R. Batchelder
T +1 650 617 4018
james.batchelder@ropesgray.com

BY EMAIL

Jamie B. Beaber
Mayer Brown LLP
1999 K Street, NW
Washington, DC 20006-1101
jbeaber@mayerbrown.com

Re: *Pantech Corporation v. LG Electronics Inc.*, 5:22-cv-00113 (E.D. Tex.): Remediating Apparent Conflicts of Interest

Mr. Beaber:

We represent LG Electronics Inc. ("LGE") in the above-captioned case. We write concerning Mayer Brown's representation of Pantech Corporation and Pantech Wireless, LLC (collectively "Pantech").

It has come to our attention that Mayer Brown has substantial conflicts of interest under both Texas Disciplinary Rule of Professional Conduct 1.09 and ABA Rules 1.9 and 1.10 that preclude it from representing Pantech in this matter. Those conflicts stem from your and your colleagues' prior representations of LGE on numerous substantially related matters, and are grounds for immediate disqualification.

You represented LGE for nearly a decade (at least from 2012 to 2020), spanning your time at both Mayer Brown and Steptoe & Johnson. Similarly, James "Tripp" Fussel has represented LGE for over a decade (at least from 2007 to 2017), spanning his work at both Mayer Brown and Fish & Richardson, including his representation of LGE in [redacted] Other members of the Mayer Brown team presently representing Pantech, including Saqib Siddiqui, Tiffany Miller, Baldine Paul, and Graham M. Buccigross, also represented LGE on substantially related matters over the past decade, including in the recent past.

During that time, LGE repeatedly entrusted you and your colleagues with highly sensitive privileged and confidential information regarding its technologies, products, financials, business practices, litigation strategies, and licensing policies (collectively "LGE Confidential Information"). That includes LGE Confidential Information pertaining to the accused LG V40, V35, V20, G7, G Pad, G Pad X, Stylo, G5, and G6 product lines as well as other accused LTE enabled products allegedly

incorporating the accused functionality. It also includes LGE Confidential Information pertaining to LGE's SEP licensing and litigation practices likely to be at issue or utilized in this case. Given the nature of your longstanding relationship with LGE, flipping sides to represent Pantech adverse to LGE in the present action constitutes a stunning ethical violation. Pantech has access to many well-qualified law firms who could represent it. It is not permitted to use a firm that possesses LGE Confidential Information that can be used to either Pantech's advantage, or LGE's disadvantage, in the present litigation. *See e.g.*, *Texaco, Inc. v. Garcia*, 891 S.W.2d 255, 256 (Tex. 1995) (a firm must be disqualified when its partners represented the opposing party for seven years in cases involving "similar liability issues, similar scientific issues, and similar defenses and strategies").

Mayer Brown's continued representation of Pantech in the present action presents a clear conflict of interest. Moreover, there is no evidence of an agreement by LGE explicitly waiving these conflicts.

We therefore demand the following of you, the rest of your team representing Pantech, and Mayer Brown:

1) Immediately stop all work in this matter, and any other matter adverse to LGE that is substantially related to your past representation of LGE;

2) Immediately identify and turn over all work product related to this matter that contains or incorporates LGE Confidential Information, irrespective of whether such work product was done jointly or is in the possession of another law firm or party. Work product turned over may be redacted, provided that LGE is able to determine what LGE Confidential Information has been used and the context for how it was used;

3) After turning over the work product containing or incorporating LGE Confidential Information, immediately destroy and ensure the destruction of all work product related to this matter where Mayer Brown had any input, irrespective of whether such work product was done jointly or is in the possession of another law firm or party, as well as ensure that there is no transfer of such work product to any other law firm or any other parties;

4) Immediately withdraw as Pantech's counsel of record in the pending patent litigation against LGE in the Eastern District of Texas;

5) Immediately destroy any documents that include or reflect LGE Confidential Information, including any records or notes of such information in Mayer Brown's possession;

6) Immediately identify each person, including but not limited to any attorneys at Mayer Brown or in-house counsel at Pantech, to whom Mayer Brown has disclosed any LGE Confidential Information, and identify what was disclosed to such individuals; and

7) To the extent Mayer Brown refuses to comply with the above, immediately provide any and all legal and factual bases for Mayer Brown's refusal.

If you refuse to take these steps, we intend to raise the matter with the Court and have Mayer Brown appropriately disqualified from the case.

Given the seriousness of this matter, Mayer Brown needs to confirm that they have taken the foregoing steps and provide the requested information in items 2, 6, and 7 above by no later than December 9, 2022. Otherwise, we will be forced to seek relief from the Court. We reserve the right to further seek all remedies available to LGE relating to these issues, including fees and costs.

Regards,



James R. Batchelder

EXHIBIT 28

MAYER | BROWN

Mayer Brown LLP
1999 K Street, N.W.
Washington, D.C. 20006-1101

Main Tel +1 202 263 3000
Main Fax +1 202 263 3300
www.mayerbrown.com

Jamie B. Beaber
Direct Tel +1 202 263 3153
Direct Fax +1 202 263 5209
jbeaber@mayerbrown.com

December 8, 2022

VIA E-MAIL

James R. Batchelder
Ropes & Gray LLP
1900 University Ave., 6th Floor
East Palo Alto, CA 94303

Re: *Pantech Corp. v. LG Electronics, Inc.*, Case No. 5:22-cv-00113-RWS (E.D. Tex.)

Dear Mr. Batchelder:

We are in receipt of your December 2, 2022 correspondence regarding Mayer Brown's prior representation of LG Electronics Inc. ("LGE"). As explained in more detail below, Mayer Brown rejects your contention that it has a disqualifying conflict of interest for the above-captioned matter.

As an initial matter, the substance and timing of your allegation that Mayer Brown has a conflict of interest raises concerns that the issue may be tactical. LGE first raised this issue with Mayer Brown in April 2021. And while we understood the matter to have been resolved at that time, LGE did not raise the issue again when it contacted Mayer Brown in September 2022 requesting a more than 90-day extension of time to respond to Pantech's complaint. Now, with LGE's response to the complaint due in less than a month, you demand that Mayer Brown immediately withdraw from the litigation. Considering this in conjunction with the specific waiver that Mayer Brown received from LGE permitting Mayer Brown [redacted], your letter appears to be an attempt to disturb Pantech's right to counsel of its choice.

Notwithstanding, we trust that the following information will address the issues raised in your letter.

Although Mayer Brown has represented LGE on patent matters in the past, it has not represented LGE related to any substantive patent matters for more than five years, and only briefly represented LGE in *Jenam Tech, LLC v. LG Electronics, Inc., et al*. As evident from the docket for the *Jenam* matter, Mayer Brown's representation of LGE in that case lasted only from August 2019 until January 2020. During Mayer Brown's brief representation, it had no access to confidential LGE documents. Indeed, as LGE is well aware, the accused functionalities in the *Jenam* matter were that of a third-party, [redacted]. *See, e.g.*, *Jenam* Complaint at ¶ 7 (defining "Accused Devices" as smartphones and tablets running Google Chrome). This is underscored by the fact that [redacted]

[redacted]. When the case was transferred to Keker Van Nest & Peters LLP in January 2020, Mayer Brown's files for the matter were transferred as well (which notably did not contain any LGE confidential documents).

Importantly, Mayer Brown's work for LGE in the *Jenam* matter was undertaken pursuant to a specific waiver received from LGE permitting Mayer Brown [redacted] As you are aware, LGE is a sophisticated client and entered into this consent waiver with the appreciation that [redacted] when it agreed on these terms. Texas Disciplinary Rule of Professional Conduct 1.09 (entitled "Conflict of Interest: Former Client") states:

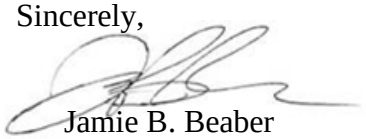
> *[w]ithout prior consent*, a lawyer who personally has formerly represented a client in a matter shall not thereafter represent another person in a matter adverse to the former client: (1) in which such other person questions the validity of the lawyer's services or work product for the former client; (2) if the representation in reasonable probability will involve a violation of Rule 1.05; or (3) if it is the same or a substantially related matter.

The statement in your letter that "there is no evidence of an agreement by LGE explicitly waiving these conflicts" is simply wrong. Under the circumstances, you and LGE should withdraw your demands immediately.

Waivers aside, you have not satisfied the threshold issue required to establish a conflict. A party seeking to disqualify counsel on the ground of a former representation must establish either that the present and former matters are substantially related or that the former attorney actually possesses relevant confidential information. Mayer Brown does not possess LGE confidential information relevant to this case and you have not shown that this matter is substantially related. In your letter, you simply provide superficial resemblance between the present and prior representations, which is not enough. *See, e.g.*, *Network Apps, LLC v. AT&T Mobility LLC*, 2022 WL 1119331, *8–*12 (S.D. N.Y. 2022) (finding disqualification unwarranted where prior representation did not factually overlap with the subject matter of the infringement suit, the court instructing that a generic overlap was not sufficient). And though [redacted], involved SEPs, that alone does not establish a substantial relationship, as such standards involve wide-ranging technology and issues. Further, "LGE's SEP licensing and litigation practices" were not at issue [redacted]. That is, no relevant LGE confidential information was at issue in [redacted], only the standards.

Without a substantial relationship between the cases and given the waiver provided by LGE, there can be no conflict of interest in Mayer Brown's representation of Pantech in the present litigation.

Sincerely,



Jamie B. Beaber

cc: Counsel of Record

EXHIBIT 29

ROPES & GRAY LLP
1900 UNIVERSITY AVENUE, 6th FLOOR
EAST PALO ALTO, CA 94303-2284
WWW.ROPESGRAY.COM

December 16, 2022

James R. Batchelder
T +1 650 617 4018
james.batchelder@ropesgray.com

BY EMAIL

Jamie B. Beaber
Mayer Brown LLP
1999 K Street, NW
Washington, DC 20006-1101
jbeaber@mayerbrown.com

Re: *Pantech Corporation v. LG Electronics Inc.*, 5:22-cv-00113 (E.D. Tex.): Remediating Apparent Conflicts of Interest

Mr. Beaber:

We write in response to your December 8, 2022 letter ("Beaber Letter"). We disagree with your assertions that your past representations of LGE are not substantially related to the present matter, and that LGE consented or waived any conflict with respect to Mayer Brown's representation of Pantech in the present matter.

Regarding the "initial matter" raised in your letter, we reject your meritless suggestion that LGE is seeking a tactical advantage by raising your conflict of interest now. The conflict created by your representing Pantech in the present litigation is ripe to be addressed.

Your statements attempting to minimize your past representations of LGE are unavailing. For example, your characterization of [redacted] grossly understates the work you did, and ignores the confidential information you became privy to, including LGE's technical information as well as its licensing and litigation practices. That matter and others—including *Jenam*; *Core Wireless Licensing v. LG Electronics*; *Mobile Tele. Tech. v. LG Electronics*; and *Cellular Comm's. Equip. v. LG Electronics*—provided you with access to confidential information regarding LGE technologies, products, financials, business practices, litigation strategies, and licensing policies that may be used to Pantech's advantage (and LGE's disadvantage), and are substantially related to the present action. *See, e.g.*, ABA Rule 1.9 Comment 3 ("Matters are 'substantially related' … if they involve the same transaction or legal dispute or if there otherwise is a substantial risk that confidential factual information as would normally have been obtained in the prior representation would materially advance the client's position in the subsequent matter").

We also reject your contention that LGE has signed a waiver explicitly permitting Mayer Brown to represent Pantech in the present action. You have not presented us with a specific waiver that would permit you to represent Pantech, nor have you provided us a cogent explanation why the terms of the *Jenam* waiver would encompass your present representation of Pantech.

We maintain our position and demand that you comply with the steps detailed in our Dec. 2, 2022 letter. Please confirm that you will comply and provide the previously requested information by Dec. 23, 2022. Otherwise, if we are at an impasse, we will proceed to seek relief from the Court. LGE reserves the right to further seek all available remedies relating to these issues, including fees and costs.

Regards,

James R. Batchelder

EXHIBIT 30

REÇU le
21 OCT. 2019
Rép: ----------

ETSI Rules of Procedure, 3 April 2019

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORGANISATION ("Declarant")

Legal Name: Nokia Technologies Oy

CONTACT DETAILS FOR LICENSING INFORMATION:

Name and Title:	**Mr. Kalle Moilanen , Manager, Patenting**		
Department:	IPR		
Address:	Karaportti 3, FI-02610 Espoo, Finland		
Telephone:	+358503662022	Fax:	
Email:	kalle.moilanen@nokia.com	URL:	

IPR INFORMATION STATEMENT

In accordance with Clause 4.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs ETSI that it is the Declarant's and/or its AFFILIATES' present belief that the IPR(s) disclosed in the attached *IPR Information Statement Annex* may be or may become ESSENTIAL in relation to at least the ETSI Work Item(s), STANDARD(S) and/or TECHNICAL SPECIFICATION(S) identified in the attached *IPR Information Statement Annex.*

The Declarant and/or its AFFILIATES ***(check one box only):***

☑ are the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex.*

☐ are not the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex.*

IPR LICENSING DECLARATION

In accordance with Clause 6.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby irrevocably declares the following ***(check one box only, and subordinate box, where applicable):***

☑ To the extent that the IPR(s) disclosed in the attached *IPR Information Statement Annex* are or become, and remain ESSENTIAL in respect of the ETSI Work Item, STANDARD and/or TECHNICAL SPECIFICATION identified in the attached *IPR Information Statement Annex*, the Declarant and/or its AFFILIATES are (1) prepared to grant irrevocable licences under this/these IPR(s) on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy; and (2) will comply with Clause 6.1 bis of the ETSI IPR Policy.

☑ This irrevocable undertaking is made subject to the condition that those who seek licences agree to reciprocate ***(check box if applicable):***

☐ The Declarant and/or its AFFILIATES are not prepared to make the above IPR Licensing Declaration (reasons may be explained in writing in the attached *IPR Licensing Declaration Annex*).

The construction, validity and performance of this IPR information statement and licensing declaration shall be governed by the laws of France. Terms in ALL CAPS on this form have the meaning provided in Clause 15 of the ETSI IPR Policy.

SIGNATURE

By signing this IPR Information Statement and Licensing Declaration form, you represent that you have the authority to bind the Declarant and/or its AFFILIATES to the representations and commitments provided in this form.

Name of authorized person:	Mr. Kalle Moilanen	
Title of authorized person:	Manager, Patenting	Ari Aarnio, Senior Manager
Place, Date:	Espoo, Finland, 10/10/2019	

Please return this form duly signed to: ETSI Director-General
ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex – France / Fax. +33 (0) 4 93 65 47 16

ETSI Rules of Procedure, 3 April 2019

IPR Information Statement Annex

STANDARD, TECHNICAL SPECIFICATION or ETSI Work Item					Proprietor	Application No.	Publication No.	Patent/Application Title	Country of registration	FURTHER INFORMATION Other members of this PATENT FAMILY, if any *		
Disclosure Number	Project or Standard name	Work item or Standard No.	Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)						Application No.	Publication No.	Country of registration
1	5G	TS 138 321 TS 38.321	5.4.5	15.5.0 15.5.0	NOKIA SIEMENS NETWORKS OY [FI]	US20080289825	US8055820 B2	Buffer status reporting apparatus, system, and method	UNITED STATES	AU20080324204	AU2008324204 B2	AUSTRALIA
										AU20140203627	AU2014203627 B2	AUSTRALIA
										BR2008PI20059	BRPI0820059 A2	BRAZIL
										CA20082704537	CA2704537 C	CANADA
										CN200880124035	CN101971544 B	CHINA
										CN201410201996	CN104093211 B	CHINA
										EP20080846246	EP2210361 B2	European Patent Office
										EP20140170263	EP2811680 A1	European Patent Office
										ES20080846246T	ES2493015 T3	SPAIN
										HK20150104463	HK1204169 A1	HONG KONG
										JP20100532577	JP5552431 B2	JAPAN
										JP20130130540	JP2013179712 A	JAPAN
										JP20150163515	JP2015208046 A	JAPAN
										KR20107012482	KR101148319 B1	KOREA (REPUBLIC OF)
										MX20100004970	MX2010004970 A	MEXICO
										RU20100122730	RU2469481 C2	RUSSIAN FEDERATION
										WO2008EP64990	WO2009059995 A1	Patent Cooperation Treaty
2	5G	TS 138 300 TS 138 331 TS 38.300 TS 38.331	9.2.4 4.4, 5.3.5.3, 5.5, 6.3.2	15.5.0 15.5.1 15.5.0 15.5.1	NOKIA MOBILE PHONES LTD [FI]	US20010782360	US6810019 B2	Reducing interference in inter-frequency measurement	UNITED STATES	EP20010660028	EP1137203 A3	European Patent Office
										FI20000000380	FI112772 B1	FINLAND

3	5G	TS 138 321 TS 38.321	5.4.6	15.5.0 15.5.0	WU CHUNLI [CN] SEBIRE BENOIST PIERRE [JP] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201113164286	US8848556 B2	CARRIER AGGREGATION WITH POWER HEADROOM REPORT	UNITED STATES	AU20110269153	AU2011269153 B2	AUSTRALIA
										BR20121133039	BR112012033039 A2	BRAZIL
										CA20112803216	CA2803216 A1	CANADA
										CN20118037979	CN103053206 A	CHINA
										EP20110726413	EP2583505 B1	European Patent Office
										JP20130515821	JP2013534769 A	JAPAN
										JP20140243469	JP2015043633 A	JAPAN
										KR20137001270	KR101497370 B1	KOREA (REPUBLIC OF)
										MX20120015138	MX2012015138 A	MEXICO
										RU20130102146	RU2547806 C2	RUSSIAN FEDERATION
										SG20120094611	SG186797 A1	SINGAPORE
										TW20110121589	TWI524690 B	TAIWAN, PROVINCE OF CHINA
										US201414500398	US9025590 B2	UNITED STATES
										US201514678870	US9351262 B2	UNITED STATES
										US201615149862	US9854543 B2	UNITED STATES
										WO2011EP60118	WO2011161014 A1	Patent Cooperation Treaty
4	5G	TS 138 214 TS 138 331 TS 38.331	5.2 6.3.2	15.4.0 15.4.0 15.4.0	CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201514691515	US9572160 B2	SIGNALLING OF CHANNEL INFORMATION	UNITED STATES	CN20108066992	CN102907029 B	CHINA
										EP20100712044	EP2550762 B1	European Patent Office
										JP20130500342	JP2013524661 A	JAPAN
										KR20127027999	KR101454737 B1	KOREA (REPUBLIC OF)
										TW20110109808	TW201203920 A	TAIWAN, PROVINCE OF CHINA
										US201013637222	US8867472 B2	UNITED STATES
										US201414517772	US9019932 B2	UNITED STATES
										US201414518544	US9078262 B2	UNITED STATES
										WO2010EP53919	WO2011116823 A1	Patent Cooperation Treaty
5	5G	TS 138 331 TS 38.331	5.5.3, 5.3.5.3, 5.5.4.4	15.5.1 15.5.1	NOKIA SIEMENS NETWORKS GMBH [DE]	EP20060793828	EP1943853 B1	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENTS IN A RADIO COMMUNICATION SYSTEM	European Patent Office	AT20060793828T	AT498286 T	AUSTRIA
										CN20068040035	CN101305633 B	CHINA
										EP20050023264	EP1781056 A1	European Patent Office
										RU20080120677	RU2417557 C2	RUSSIAN FEDERATION
										US20060084133	US9432869 B2	UNITED STATES
										WO2006EP66734	WO2007048673 A1	Patent Cooperation Treaty
										ZA20080002368	ZA200802368 B	SOUTH AFRICA

6	5G	TS 138 321 TS 138 133 TS 138 331 TS 38.321 TS 38.133 TS 38.331	5.4.6 10.1.17, 10.1.18 6.3.2	15.5.0 15.5.0 15.5.1 15.5.0 15.5.0 15.5.1	ROSA CLAUDIO [DK] NOKIA SIEMENS NETWORKS OY [FI] PEDERSEN KLAUS INGEMANN [DK] MICHEL JUERGEN [DE]	US20080665427	US8457676 B2	Power Headroom Reporting Method	UNITED STATES	AU20080265071	AU2008265071 B2	AUSTRALIA
										BR2008PI14714	BRPI0814714 A2	BRAZIL
										CA20082691230	CA2691230 C	CANADA
										CN200880103990	CN101785206 B	CHINA
										EP20080775609	EP2171871 B1	European Patent Office
										JP20100512729	JP5232224 B2	JAPAN
										KR20107001337	KR101078116 B1	KOREA (REPUBLIC OF)
										MX20090014083	MX2009014083 A	MEXICO
										RU20100101598	RU2490795 C2	RUSSIAN FEDERATION
										WO2008FI50384	WO2008155469 A1	Patent Cooperation Treaty
										ZA20090009102	ZA200909102 A	SOUTH AFRICA
7	5G	TS 123 237 TS 123 501 TS 23.237 TS 23.501	6.3.3, 4.3.3, 5.3.1 4.4.3	15.1.0 15.5.0 15.1.0 15.5.0	POIKSELKA MIIKKA JUHANA [FI] MUTIKAINEN JARI [FI] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US20080742102	US9026663 B2	Method, Apparatus and Program Product for Merging Communication Sessions in an IMS	UNITED STATES	AU20080323081	AU2008323081 B2	AUSTRALIA
										BR2008PI20525	BRPI0820525 A2	BRAZIL
										CN200880116575	CN101855890 B	CHINA
										EP20070022036	EP2061212 B1	European Patent Office
										US201514662811	US9906566 B2	UNITED STATES
										WO2008EP64698	WO2009062849 A1	Patent Cooperation Treaty
										ZA20100002340	ZA201002340 B	SOUTH AFRICA
8	5G	TS 138 212 TS 138 213 TS 138 331 TS 38.331	7.3 9.1 6.3.2	15.5.0 15.5.0 15.5.1 15.5.1	KOLDING TROELS E [DK] NOKIA SIEMENS NETWORKS OY [FI] FREDERIKSEN FRANK [DK] CHE XIANG GUANG [CN]	US20090459352	US8396030 B2	Selecting between normal and virtual dual layer ACK/NACK	UNITED STATES	AU20090265740	AU2009265740 B2	AUSTRALIA
										BR2009PI14115	BRPI0914115 A2	BRAZIL
										CA20092729510	CA2729510 A1	CANADA
										CN200980133571	CN102144367 B	CHINA
										EP20090772443	EP2297893 A2	European Patent Office
										EP20160150142	EP3026839 A1	European Patent Office
										JP20110515434	JP5391275 B2	JAPAN
										KR20117002550	KR101198472 B1	KOREA (REPUBLIC OF)
										KR20127012679	KR101274663 B1	KOREA (REPUBLIC OF)
										RU20110102801	RU2490803 C2	RUSSIAN FEDERATION
										US201313770384	US8861472 B2	UNITED STATES
										US201414465954	US9313008 B2	UNITED STATES
										US201615063242	US2016191223 A1	UNITED STATES
										WO2009EP58194	WO2010000743 A3	Patent Cooperation Treaty
										ZA201000612	ZA201000612 B	SOUTH AFRICA

9	5G	TS 138 321 TS 138 212 TS 138 331 TS 38.321 TS 38.331	7.3.1.2 5.3 5.2, 5.2.2.3	15.4.0 15.4.0 15.4.0 15.4.0 15.4.0	CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201313744079	US9320024 B2	METHOD AND APPARATUS FOR PROVIDING SIGNALING OF REDUNDANCY	UNITED STATES	AU20090294519	AU2009294519 B2	AUSTRALIA
										BR2009PI18762	BRPI0918762 A2	BRAZIL
										CA20092737664	CA2737664 C	CANADA
										CN200980146400	CN102224701 B	CHINA
										CN201410397749	CN104135364 A	CHINA
										DK20090783280T	DK2342858 T3	DENMARK
										EP20090783280	EP2342858 B1	European Patent Office
										ES20090783280T	ES2402621 T3	SPAIN
										HK20150102690	HK1202194 A1	HONG KONG
										JP20110527352	JP5308530 B2	JAPAN
										KR20117009298	KR101260348 B1	KOREA (REPUBLIC OF)
										MY2011PI01244	MY153534 A	MALAYSIA
										RU20110115532	RU2469476 C1	RUSSIAN FEDERATION
										US20090564536	US8457022 B2	UNITED STATES
										US201615074832	US2016204917 A1	UNITED STATES
										WO2009EP62255	WO2010031873 A1	Patent Cooperation Treaty
										ZA20110001889	ZA201101889 B	SOUTH AFRICA
10	5G	TS 138 212 TS 138 213 TS 138 331 TS 38.331	7.3.1 10.1 5.3.5, 6.3.2	15.5.0 15.5.0 15.5.1 15.5.1	NOKIA SIEMENS NETWORKS OY [FI] MALKAMÄKI ESA [FI] KOSKELA JARKKO [FI] HWANG WOONHEE [FI]	US201113247323	US8902770 B2	Carrier Indicator Field Usage and Configuration In Carrier Aggregation	UNITED STATES	US201414558083	US10425212 B2	UNITED STATES
										WO2011EP66844	WO2012041897 A3	Patent Cooperation Treaty
11	5G	TS 138 214 TS 138 331 TS 38.331	5.2 6.3.2	15.5.0 15.5.1 15.5.1	LUNTTILA TIMO ERKKI [FI] PEDERSEN KLAUS INGEMANN [DK] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201113253323	US9100868 B2	Channel State Information Measurement and Reporting	UNITED STATES	BR20131108193	BR112013008193 A2	BRAZIL
										CA20112813275	CA2813275 A1	CANADA
										CN20118048119	CN103155672 A	CHINA
										CN201510657495	CN105228193 B	CHINA
										EP20110764562	EP2625911 B1	European Patent Office
										JP20130532181	JP2013545341 A	JAPAN
										JP20150197018	JP2016012938 A	JAPAN
										KR20137011638	KR101488734 B1	KOREA (REPUBLIC OF)
										MX20130003867	MX2013003867 A	MEXICO
										RU20130119339	RU2547138 C2	RUSSIAN FEDERATION
										SG20130021647	SG189065 A1	SINGAPORE
										US201514706348	US2015281994 A1	UNITED STATES
										WO2011EP67373	WO2012045770 A1	Patent Cooperation Treaty

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EXHIBIT 31

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19 FEV. 2020
Rép: ----------

ETSI Rules of Procedure, 3 April 2019

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORGANISATION ("Declarant")

Legal Name: Nokia Technologies Oy

CONTACT DETAILS FOR LICENSING INFORMATION:

Name and Title:	Mr. Kalle MOILANEN , IPR Manager		
Department:	IPR		
Address:	P.O Box 86, Joensuunkatu 7, 24100 SALO, FINLAND,		
Telephone:	+358 50 366 2022	Fax:	+358 7180 44275
Email:	kalle.moilanen@nokia.com	URL:	

IPR INFORMATION STATEMENT

In accordance with Clause 4.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs ETSI that it is the Declarant's and/or its AFFILIATES' present belief that the IPR(s) disclosed in the attached *IPR Information Statement Annex* may be or may become ESSENTIAL in relation to at least the ETSI Work Item(s), STANDARD(S) and/or TECHNICAL SPECIFICATION(S) identified in the attached *IPR Information Statement Annex*.

The Declarant and/or its AFFILIATES ***(check one box only):***

☑ are the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.

☐ are not the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.

IPR LICENSING DECLARATION

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☐ The Declarant and/or its AFFILIATES are not prepared to make the above IPR Licensing Declaration (reasons may be explained in writing in the attached *IPR Licensing Declaration Annex*).

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Terms in ALL CAPS on this form have the meaning provided in Clause 15 of the ETSI IPR Policy.

SIGNATURE

By signing this IPR Information Statement and Licensing Declaration form, you represent that you have the authority to bind the Declarant and/or its AFFILIATES to the representations and commitments provided in this form.

Name of authorized person:	Mr. Kalle MOILANEN		
Title of authorized person:	Manager, Patenting	Ari Aarnio	Senior Manager
Place, Date:	Espoo, Finland, 13/02/2020		

Please return this form duly signed to: ETSI Director-General
ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex – France / Fax. +33 (0) 4 93 65 47 16

ETSI Rules of Procedure, 3 April 2019

IPR Information Statement Annex

STANDARD, TECHNICAL SPECIFICATION or ETSI Work Item					Proprietor	Application No.	Publication No.	Patent/ApplicationTitle	Country of registration	FURTHER INFORMATION Other members of this PATENT FAMILY, if any *		
Disclosure Number	Project or Standard name	Work item or Standard No.	Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)						Application No.	Publication No.	Country of registration
1	5G	TS 36.211			ALCATEL LUCENT [FR]	EP20120794761	EP2761906 A1	METHOD OF DETERMINING ORTHOGONAL RESOURCE BASED ON VIRTUAL CELL ID IN COMP COMMUNICATION SYSTEM	European Patent Office	BR20141107489	BR112014007489 A2	BRAZIL
										CN20111296400	CN103037515 B	CHINA
										JP20140532497	JP5848455 B2	JAPAN
										KR20147011384	KR101586967 B1	KOREA (REPUBLIC OF)
										RU20140117536	RU2584238 C2	RUSSIAN FEDERATION
										TW20120136077	TWI479856 B	TAIWAN, PROVINCE OF CHINA
										US201214345691	US2014370889 A1	UNITED STATES
										WO2012IB02170	WO2013046024 A1	Patent Cooperation Treaty
2	5G	TS 32.260			Alcatel Lucent	US20060563383	US8139735 B2	IMS GATEWAY SYSTEMS AND METHODS	UNITED STATES			
3	5G	TS 36.213			ALCATEL LUCENT [FR]	US201314386740	US9467266 B2	METHOD FOR FEEDING BACK UPLINK CONTROL INFORMATION	UNITED STATES	CN2012175285	CN103326767 B	CHINA
										EP20130725748	EP2829009 A1	European Patent Office
										JP20150501001	JP2015516727 A	JAPAN
										KR20147028869	KR20140136995 A	KOREA (REPUBLIC OF)
										KR20167035855	KR20170000396 A	KOREA (REPUBLIC OF)
										RU20140142058	RU2606403 C2	RUSSIAN FEDERATION
										TW20130107681	TWI510013 B	TAIWAN, PROVINCE OF CHINA
										WO2013IB00606	WO2013140246 A1	Patent Cooperation Treaty

36	5G	TS 24.008 TS 25.331			Nokia Networks Oy	WO2000IB00989	WO0103454 A1	SERVICE MANAGEMENT	Patent Cooperation Treaty	AU20000057019	AU5701900 A	AUSTRALIA
										AU20000057019D	AU5701900 A	AUSTRALIA
										EP20000942328	EP1197106 A1	European Patent Office
										JP20010508184	JP3881549 B2	JAPAN
										JP20010508184T	JP3881549 B2	JAPAN
										US20020019745	US7058423 B1	UNITED STATES
										US20060351043	US7313412 B2	UNITED STATES
37	5G	TS 36.212			NOKIA SIEMENS NETWORKS GMBH [DE]	EP20070005722	EP1973234 A1	Optimised code block segmentation for turbo encoding	European Patent Office	AT200807166647	AT484886 T	AUSTRIA
										EP20070019618	EP1973235 A1	European Patent Office
										EP20080716664	EP2140554 B1	European Patent Office
										EP20100185883	EP2309651 A1	European Patent Office
										US20080450301	US8468435 B2	UNITED STATES
										US201213729754	US8583997 B2	UNITED STATES
										WO2008EP02273	WO2008113598 A1	Patent Cooperation Treaty
38	5G	TS 36.331			NOKIA SIEMENS NETWORKS OY [FI]	EP20070006867	EP1978761 A1	Method, network and device for information provision by using paging and cell broadcast services	European Patent Office	CN20088015056		CHINA
										CN2008815056	CN101675673 B	CHINA
										EP20080735675	EP2143288 B1	European Patent Office
										JP20100501504	JP4898954 B2	JAPAN
										JP20100501504T	JP2010524315 T	JAPAN
										US20080460608	US8868060 B2	UNITED STATES
										US201414517769	US9014684 B2	UNITED STATES
										US201414519893	US9037129 B2	UNITED STATES
										US201514685509	US2015223037 A1	UNITED STATES
										WO2008EP53915	WO2008119814 A1	Patent Cooperation Treaty
39	5G	TS 36.331			NOKIA SIEMENS NETWORKS OY [FI]	EP20080761329	EP2298004 A1	METHODS, APPARATUSES, SYSTEM AND RELATED COMPUTER PROGRAM PRODUCT FOR CELL TYPE DETECTION	European Patent Office	CN20088130857	CN102132610 A	CHINA
										JP20110513887	JP5256343 B2	JAPAN
										KR20117001826	KR101215462 B1	KOREA (REPUBLIC OF)
										US200813000719	US8824533 B2	UNITED STATES
										WO2008EP58014	WO2009155967 A1	Patent Cooperation Treaty
40	5G	TS 36.331			NOKIA SOLUTIONS & NETWORKS OY [FI]	US201415306871	US2017048893 A1	IMPROVING MULTIMEDIA BROADCAST SERVICE EFFICIENCY	UNITED STATES	DE201411066457	DE112014006645 T5	GERMANY
										WO2014EP59451	WO2015169371 A1	Patent Cooperation Treaty

41	5G	TS 36.321 TS 36.331			NOKIA CORP [FI]	EP20070825290	EP2082600 B1	SELECTING AN ACCESS METHOD WHILE PERFORMING HANDOVERS IN A MOBILE COMMUNICATION SYSTEM	European Patent Office	AT200708252907	AT478530 T	AUSTRIA
										CN20078043132	CN101543130 B	CHINA
										US20070444378	US9839051 B2	UNITED STATES
										WO2007IB02970	WO2008041115 A9	Patent Cooperation Treaty
42	5G	TS 36.212 TS 36.213 TS 36.331			ALCATEL LUCENT	EP20130708328	EP2828980 A1	CONTROL SIGNALING FOR DOWNLINK COORDINATED MULTIPOINT WIRELESS COMMUNICATION	European Patent Office	CN20138016017	CN104396150 A	CHINA
										JP20150501682	JP6158292 B2	JAPAN
										KR20147029486	KR101601585 B1	KOREA (REPUBLIC OF)
										RU20140142573	RU2014142573 A	RUSSIAN FEDERATION
										TW20130109642	TW201401915 A	TAIWAN, PROVINCE OF CHINA
										US201213428503	US9178680 B2	UNITED STATES
										WO2013US27844	WO2013142013 A1	Patent Cooperation Treaty
43	5G	TS 36.300			ALCATEL LUCENT	EP20100853422	EP2584803 B1	METHOD AND DEVICE FOR TRANSMITTING RECEPTION STATUS OF MULTIMEDIA BROADCAST MULTICAST SERVICE	European Patent Office	CN20108066191	CN102948177 B	CHINA
										JP20130515657	JP5665978 B2	JAPAN
										KR20127033048	KR101458777 B1	KOREA (REPUBLIC OF)
										TW20110120151	TWI455619 B	TAIWAN, PROVINCE OF CHINA
										US201013703808	US2013083720 A1	UNITED STATES
										WO2010CN74159	WO2011160279 A1	Patent Cooperation Treaty
44	5G	TS 25.308			ALCATEL LUCENT	EP20120360060	EP2685775 A1	Common Resource Acquisition	European Patent Office	BR20151100563	BR112015000563 A2	BRAZIL
										CN20138036302	CN104412693 B	CHINA
										JP20150520837	JP6140821 B2	JAPAN
										KR20157000360	KR101684564 B1	KOREA (REPUBLIC OF)
										KR20167033924	KR101761533 B1	KOREA (REPUBLIC OF)
										RU20150104658	RU2608675 C2	RUSSIAN FEDERATION
										TW20130124194	TWI519179 B	TAIWAN, PROVINCE OF CHINA
										US201314414260	US10111249 B2	UNITED STATES
										WO2013EP01810	WO2014008978 A1	Patent Cooperation Treaty

45	5G	TS 22.268 TS 23.401			HUAWEI TECH CO LTD	EP20120841999	EP2770767 B1	METHOD, SYSTEM, AND RELATED DEVICE FOR GSM SECURITY	European Patent Office	BR20141109419	BR112014009419 A2	BRAZIL
										CN201110323667	CN103067168 B	CHINA
										IN2014CHENP3607	IN3607CHN2014 A	INDIA
										RU20140120404	RU2573745 C2	RUSSIAN FEDERATION
										WO2012CN83283	WO2013056681 A1	Patent Cooperation Treaty
46	5G	TS 23.501			Alcatel Lucent	EP20080305955	EP2200391 B1	A method for allocation of resources to user terminals, a base station, a user terminal and a communication network therefore	European Patent Office	AT20080305955T	AT508606 T	AUSTRIA
										BR2009PI22610	BRPI0922610 A2	BRAZIL
										CN200910259166	CN101754390 B	CHINA
										ES20080305955T	ES2366164 T3	SPAIN
										JP20110541310	JP5462276 B2	JAPAN
										JP20130218335	JP2014027688 A	JAPAN
										KR20117013569	KR101239072 B1	KOREA (REPUBLIC OF)
										PL20080305955T	PL2200391 T3	POLAND
										RU20110129635	RU2479950 C2	RUSSIAN FEDERATION
										US20090638147	US2010150092 A1	UNITED STATES
										WO2009EP66498	WO2010069798 A1	Patent Cooperation Treaty
47	5G	TS 22.368			HUAWEI DEVICE CO LTD HUAWEI DEVICE CO. LTD	EP20130810753	EP2816864 B1	INFORMATION TRANSMISSION METHOD, SYSTEM AND DEVICE	European Patent Office	CN201210223391	CN103517409 B	CHINA
										US201414485098	US2015003308 A1	UNITED STATES
										WO2013CN77511	WO2014000594 A1	Patent Cooperation Treaty

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EXHIBIT 32

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DISCLOSURE NUMBER 2

DISCLOSURE NUMBER 3

ETSI Projects

Project acronym	Project Name
LTE	Rel-8 LTE – 3G Long Term Evolution - Evolved Packet System RAN part

Work Item or Standard

Work Item / Standard no.	Title	Version/Edition	Illustrative specific part of the Standard (e.g Section)
TS 36.213	Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures	8.4.0	5.1.2.1, 5.1.1.1, 6.1
TS 136 213 (RTS/TSGR-0136213v840)	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures; (3GPP TS 36.213 version 8.4.0 Release 8)	8.4.0	

IPR2023-01267, -01268, -01269, -01270, -01272, -01273

TS 36.300	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2	8.6.0	10.1.5.1
TS 136 300 (RTS/TSGR-0236300v860)	Universal Mobile Telecommunications System (UMTS);Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2; (3GPP TS 36.300 version 8.6.0 Release 8)	8.6.0	

Patent Family

External ID :

Application Number	Publication Number	Title	Applicant/holder	Country of Registration
Basis Patent				
WO2009EP55430	**WO2009135848 A3 WO2009135848 A2**	**METHOD, APPARATUS AND COMPUTER PROGRAM FOR POWER CONTROL RELATED TO RANDOM ACCESS PROCEDURES**	**NOKIA SIEMENS NETWORKS OY [FI] LINDHOLM JARI OLAVI [FI] KORHONEN JUHA [FI]**	**WO Patent Cooperation Treaty**
Other Members				
AT20090742066T	AT539579 T	VERFAHREN, VORRICHTUNG UND COMPUTERPROGRAMM ZUR LEISTUNGSSTEUERUNG IN DIREKTZUGRIFFSVERFAHREN	NOKIA SIEMENS NETWORKS OY [FI]	AT AUSTRIA

Application Number	Publication Number	Title	Applicant/holder	Country of Registration
CN20098116280	CN102017723 B CN102017723 A	Method, apparatus and computer program for power control related to random access procedures	NOKIA CORP	CN CHINA
EP20090742066	EP2283680 B1 EP2283680 A2	METHOD, APPARATUS AND COMPUTER PROGRAM FOR POWER CONTROL RELATED TO RANDOM ACCESS PROCEDURES	NOKIA SIEMENS NETWORKS OY [FI]	EP European Patent Office
ES20090742066T	ES2379912 T3		NOKIA SIEMENS NETWORKS OY [FI]	ES SPAIN
7686/DELNP/2010				IN INDIA
KR20100027410		METHOD, APPARATUS AND COMPUTER PROGRAM FOR POWER CONTROL RELATED TO RANDOM ACCESS PROCEDURES	NOKIA SIEMENS NETWORKS OY [FI]	KR KOREA (REPUBLIC OF)
KR20107027410	KR101197902 B1 KR20110013453 A	METHOD, APPARATUS AND COMPUTER PROGRAM FOR POWER CONTROL RELATED TO RANDOM ACCESS PROCEDURES	UnknownCompany (KR20107027410)	KR KOREA (REPUBLIC OF)
RU20100149303	RU2469507 C2 RU2010149303 A		NOKIA SIEMENS NETWORKS OY [FI]	RU RUSSIAN FEDERATION
RU2010149303				RU RUSSIAN FEDERATION
US20090387661	US8385966 B2 US2009286566 A1	Method, apparatus and computer program for power control related to random access procedures	NOKIA SIEMENS NETWORKS OY [FI] KORHONEN JUHA S [FI] LINDHOLM JARI [FI]	US UNITED STATES

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DISCLOSURE NUMBER 5

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EXHIBIT 33

ETSI Rules of Procedure, 26 November 2008

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORGANISATION ("Declarant")

Legal Name: Nokia Siemens Networks

CONTACT DETAILS FOR LICENSING INFORMATION:

Name and Title:	Dhiren Patel, Head of IPR Licensing and Litigation		
Department:	Intellectual Property Rights		
Address:	Summit Avenue Southwood		
	GU14 0NG, Farnborough, Hampshire, United Kingdom		
Telephone:	+44 7748 766 767	Fax:	+441252865074
Email:	dhiren.patel@nsn.com	URL:	

IPR INFORMATION STATEMENT

In accordance with Clause 4.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs ETSI that it is the Declarant's and/or its AFFILIATES' present belief that the IPR(s) disclosed in the attached *IPR Information Statement Annex* may be or may become ESSENTIAL in relation to at least the ETSI Work Item(s), STANDARD(S) and/or TECHNICAL SPECIFICATION(S) identified in the attached *IPR Information Statement Annex*.

The Declarant and/or its AFFILIATES ***(check one box only)***:

☒ are the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.

☐ are not the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex*.

IPR LICENSING DECLARATION

In accordance with Clause 6.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby irrevocably declares the following ***(check one box only, and subordinate box, where applicable)***:

☒ To the extent that the IPR(s) disclosed in the attached *IPR Information Statement Annex* are or become, and remain ESSENTIAL in respect of the ETSI Work Item, STANDARD and/or TECHNICAL SPECIFICATION identified in the attached *IPR Information Statement Annex*, the Declarant and/or its AFFILIATES are prepared to grant irrevocable licences under this/these IPR(s) on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy.

  ☒ This irrevocable undertaking is made subject to the condition that those who seek licences agree to reciprocate **(check box if applicable).**

☐ The Declarant and/or its AFFILIATES are not prepared to make the above IPR Licensing Declaration (reasons may be explained in writing in the attached *IPR Licensing Declaration Annex*).

The construction, validity and performance of this IPR information statement and licensing declaration shall be governed by the laws of France.

Terms in ALL CAPS on this form have the meaning provided in Clause 15 of the ETSI IPR Policy.

SIGNATURE

By signing this IPR Information Statement and Licensing Declaration form, you represent that you have the authority to bind the Declarant and/or its AFFILIATES to the representations and commitments provided in this form.

Name of authorized person:	Markus Borgström	Maria Rantatupa
Title of authorized person:	Head of IPR Service Network Technologies	Senior IPR Specialist
Place, Date:	Espoo 21.6.2011	Espoo 21.6.2011
Signature:		

Please return this form duly signed to: ETSI Director-General
ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex – France / Fax. +33 (0) 4 93 65 47 16

ETSI Rules of Procedure, 26 November 2008

IPR Information Statement Annex

Standard, Technical Specification or ETSI Work Item				Proprietor	Application No.	Publication No.	Patent/Application Title	Country of registration	FURTHER INFORMATION Other members of this PATENT FAMILY, if any *		
Project or Standard name	Work Item or Standard No.	Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)						Application No.	Publication No.	Country of registration
LTE	ETSI TS 36.213	4.5, 5.3.3.1, 6.3.4, 7.2.4	v.9.0.0	Nokia Siemens Networks		EP 1529354	METHOD FOR CHANNEL ESTIMATION AND CORRESPONDING RADIO COMMUNICATION SYSTEM	EPC CONTRACTING STATES		JP 4069118	Japan
										KR 10-0976041	Republic of Korea
										MX 265467	Mexico
										RU 2322759	Russian Federation
LTE	ETSI TS 36.213	7.3, 10.1	v.9.3.0	Nokia Siemens Networks		US 2009-0323613	SELECTING BETWEEN NORMAL AND VIRTUAL DUAL LAYER ACK/NACK	USA		WO2010000743	PCT countries
LTE	ETSI TS 36.213, TS 36.300	5.1.2.1, 5.1.1.1, 6.1 10.1.5.1	v.8.4.0 v.8.6.0	Nokia Siemens Networks		WO2009135848	METHOD, APPARATUS AND COMPUTER PROGRAM			US 2009-0286566	USA
									EP 09742066.5		EPC CONTRACTING COUNTRIES

							FOR POWER CONTROL RELATED TO RANDOM ACCESS PROCEDURES		CN 200980116280.X		China P.R.
									7686/DELNP/2010		India
									KR 2010-7027410		Republic of Korea
									RU 2010149303		Russian Federation
GSM	44.018	3.2	4.4.0	Nokia Siemens Networks		EP 1090527	METHOD FOR TRANSMITTING ORGANIZATIONAL INFORMATION	DE, ES, FR, GB			
UMTS FDD	25.321	4.2.4	5.6.0	Nokia Siemens Networks		EP10305 30	Method for transmission of packet switched data in a radio communication system	IT, ES, DE, FR			
UMTS TDD	25.321	4.2.4	5.6.0	Nokia Siemens Networks		EP10305 30	Method for transmission of packet switched	IT, ES, DE, FR			

							data in a radio communication system				
UMTS FDD	25.413	8.5	5.5.0	Nokia Siemens Networks			Connections in a comunication system			ZL018112 55.2 3917427 7359347	China Japan United States
UMTS TDD	25.413	8.5	5.5.0	Nokia Siemens Networks			Connections in a comunication system			ZL018112 55.2 3917427 7359347	China Japan United States
UMTS FDD	25.413	9.2.1	5.12.0	Nokia Siemens Networks		EP1657862	Centralized dynamical resource reservation method based on the exchange of service specific capacity settings in a multi-RAT network	DE; IE; IT; FR; SK			
UMTS TDD	25.413	9.2.1	5.12.0	Nokia Siemens Networks		EP1657862	Centralized dynamical resource	DE; IE; IT; FR; SK			

							reservation method based on the exchange of service specific capacity settings in a multi-RAT network				
GSM	44.018	3.2.1	9.2.0	Nokia Siemens Networks		EP2143288	METHOD, NETWORK AND DEVICE FOR INFORMATION PROVISION BY USING PAGING AND CELL BROADCAST SERVICES	DE, FR, GB		2010-0151813	United States
									6260/DELNP/2009		India
										101675673	China
										2010524315	Japan
UMTS FDD	23.041	9.1	8.4.0	Nokia Siemens Networks		EP2143288	METHOD, NETWORK AND DEVICE FOR INFORMATION PROVISION BY USING PAGING AND CELL BROADCAST SERVICES	DE, FR, GB		2010-0151813	United States
									6260/DELNP/2009		India
										101675673	China

										20105243 15	Japan
UMTS FDD	25.346	7.1	9.0.0	Nokia Siemens Networks		EP10277 77	METHOD FOR TRANSMITTING INFORMATION VIA A RADIO INTERFACE AND CORRESPONDING TRANSMITTING DEVICE AND RECEIVING DEVICE	DE, ES, FR, GB			
UMTS TDD	23.041	9.1	8.4.0	Nokia Siemens Networks		EP21432 88	METHOD, NETWORK AND DEVICE FOR INFORMATION PROVISION BY USING PAGING AND CELL BROADCAST SERVICES	DE, FR, GB		2010-0151813	United States
									6260/DELNP/2009		India
										101675673	China
										20105243 15	Japan
UMTS TDD	25.346	7.1	9.0.0	Nokia Siemens Networks		EP10277 77	METHOD FOR TRANSMITTING	DE, ES, FR, GB			

							INFORMATION VIA A RADIO INTERFACE AND CORRESPONDING TRANSMITTING DEVICE AND RECEIVING DEVICE				
UMTS FDD	25.214	6A.1	7.6.0	Nokia Siemens Networks		EP1529354	METHOD FOR CHANNEL ESTIMATION AND CORRESPONDING RADIO COMMUNICATION SYSTEM	DE, ES, FR, GB, NL		2005536130 20050042787 PA05001741 2322759	Japan Korea Mexico Russia
GSM	43.068	4.2.8	8.1.0	Nokia Siemens Networks		EP1931161	Method for transmitting data in a cellular network with multi-address call functionality	AT, DE, ES, GB, IT, PL			
UMTS	25.214	6A.4	9.2.0	Nokia Siemens Networks		WO2010139516	Antenna virtualization for multimode diversity transmission				
IMS	3GPP TS 23.228	5.2.2.3	V8.7.0	Nokia Siemens Networks	US 10/812189	US 2005-0124341	Controlling registration in a	US			

							communication system				
IMS	3GPP TS 23.380 3GPP TS 29.228	3GPP 29.228 6.1.2.1 3GPP 23.380 4.6	V8.1.0 V8.4.0	Nokia Siemens Networks	EP 06022238.7	1916821	Method for re-assignment of S-CSCF services to registered IMS users of a Home Subscriber Server HSS	EP	CN 200780046283.1 2620/DELNP/2009 US 12/312,043	101601258 2010-0062767	CN IN US
IMS	3GPP 23.228	4.3.3.2b 5.2.1a	v. 8.12.0	Nokia Siemens Networks	PCT/EP2009/064885	WO2011057657	HANDLING OF PUBLIC IDENTITIES				
LTE	ETSI TS 36.321	5.4.4, 6.3.2	v. 9.3.0	Nokia Siemens Networks	PCT/EP2009/062773	WO 2011038768	A METHOD AND APPARATUS TO CONTROL SCHEDULING				
GERAN, UTRAN, LTE	TS 29.214 TS 23.203	5.5 6.2.1	V.7.0.0 V.7.0.0	Nokia Siemens Networks	07728488.3	EP 2018765 B1	method for allowing control of the quality of service and/or of the service fees for telecommunication services	DE, FR, GB	12/299,696 2317/MUMNP/2008 2008-7029788	US2009/0190506 A1 2317/MUMNP/2008 2009-0019820	U.S.A. India Korea
LTE	ETSI TS 36.331	5.5.3.1, 5.4.2.3, 5.5.4.4	9.3.0	Nokia Siemens Networks		EP1943853	INTRA-FREQUENCY AND	DE, GB, NL		CN 101305633	China P.R.

							INTER-FREQUENCY MEASUREMENTS IN A RADIO COMMUNICATION SYSTEM		IN 1508/KOLNP/2008		india
									RU 2008120677		Russian Federation
										US 2009-0253458	USA
									ZA 2008/02968		South Africa
LTE	ETSI TS 36.331	6.2.2	v.9.3.0	Nokia Siemens Networks		EP2298004	METHODS, APPARATUSES, SYSTEM AND RELATED COMPUTER PROGRAM PRODUCT FOR CELL TYPE DETECTION	EPC contracting states	CN200880130857.8		China P.R.
									9061/DELNP/2010		India
									JP2011-513887		Japan
										KR2011-0022708	Republic of Korea
									US13/000,719		USA
LTE	ETSI TS 36.211	5.3.3A.2	v.10.0.0	Nokia Siemens Networks		WO2010105670	METHOD AND APPARATUS FOR CODEBOOK-BASED PRECODING IN NIMO SYSTEMS				

LTE	ETSI TS 36.211	5.5.2.1.1, 5.2.1.1, 6.3.1	v.8.5.0	Nokia Siemens Networks		US 2008-0298433	COORDINATED CYCLIC SHIFT AND SEQUENCE HOPPING FOR ZADOFF-CHU, MODIFIED ZADOFF-CHU, AND BLOCK-WISE SPREADING SEQUENCES			EP2166685	EPC contracting states
									AU2008244400		Australia
									PI0810797-1		Brazil
									CA2684364		Canada
										CN 101926112	China P.R.
										ID0501058A	Indonesia
									6574/DELNP/2009		India
									JP2010-504649		Japan
									KR2009-7024964		Republic of Korea
									MX2009/011674		Mexico
									PH 1-2009-501964		Philippines
									RU2009144134		Russian Federation
									SG200906922-0		Singapore
									UA200912092		Ukraine

										ZA2009/07167	South Africa

* Information on other members of a PATENT FAMILY is provided voluntarily (Clause 4.3 of the ETSI IPR Policy).

Please return this form together with the "IPR Information Statement and Licensing Declaration form" to:
ETSI Director-General - ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex – France / Fax. +33 (0) 4 93 65 47 16

EXHIBIT 34

REÇU le
21 OCT. 2019
Rép: ----------

ETSI Rules of Procedure, 3 April 2019

IPR INFORMATION STATEMENT AND LICENSING DECLARATION

IPR HOLDER / ORGANISATION ("Declarant")

Legal Name: Nokia Technologies Oy

CONTACT DETAILS FOR LICENSING INFORMATION:

Name and Title:	**Mr. Kalle Moilanen , Manager, Patenting**		
Department:	IPR		
Address:	Karaportti 3, FI-02610 Espoo, Finland		
Telephone:	+358503662022	Fax:	
Email:	kalle.moilanen@nokia.com	URL:	

IPR INFORMATION STATEMENT

In accordance with Clause 4.1 of the ETSI IPR Policy the Declarant and/or its AFFILIATES hereby informs ETSI that it is the Declarant's and/or its AFFILIATES' present belief that the IPR(s) disclosed in the attached *IPR Information Statement Annex* may be or may become ESSENTIAL in relation to at least the ETSI Work Item(s), STANDARD(S) and/or TECHNICAL SPECIFICATION(S) identified in the attached *IPR Information Statement Annex.*

The Declarant and/or its AFFILIATES ***(check one box only):***

☑ are the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex.*

☐ are not the proprietor of the IPR(s) disclosed in the attached *IPR Information Statement Annex.*

IPR LICENSING DECLARATION

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☑ To the extent that the IPR(s) disclosed in the attached *IPR Information Statement Annex* are or become, and remain ESSENTIAL in respect of the ETSI Work Item, STANDARD and/or TECHNICAL SPECIFICATION identified in the attached *IPR Information Statement Annex*, the Declarant and/or its AFFILIATES are (1) prepared to grant irrevocable licences under this/these IPR(s) on terms and conditions which are in accordance with Clause 6.1 of the ETSI IPR Policy; and (2) will comply with Clause 6.1 bis of the ETSI IPR Policy.

☑ This irrevocable undertaking is made subject to the condition that those who seek licences agree to reciprocate ***(check box if applicable):***

☐ The Declarant and/or its AFFILIATES are not prepared to make the above IPR Licensing Declaration (reasons may be explained in writing in the attached *IPR Licensing Declaration Annex*).

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SIGNATURE

By signing this IPR Information Statement and Licensing Declaration form, you represent that you have the authority to bind the Declarant and/or its AFFILIATES to the representations and commitments provided in this form.

Name of authorized person:	Mr. Kalle Moilanen	
Title of authorized person:	Manager, Patenting	Ari Aarnio, Senior Manager
Place, Date:	Espoo, Finland, 10/10/2019	

Please return this form duly signed to: ETSI Director-General
ETSI - 650, route des Lucioles - F-06921 Sophia Antipolis Cedex – France / Fax. +33 (0) 4 93 65 47 16

ETSI Rules of Procedure, 3 April 2019

IPR Information Statement Annex

STANDARD, TECHNICAL SPECIFICATION or ETSI Work Item					Proprietor	Application No.	Publication No.	Patent/Application Title	Country of registration	FURTHER INFORMATION Other members of this PATENT FAMILY, if any *		
Disclosure Number	Project or Standard name	Work item or Standard No.	Illustrative Specific part of the standard (e.g. Section)	Version (V.X.X.X)						Application No.	Publication No.	Country of registration
1	5G	TS 138 321 TS 38.321	5.4.5	15.5.0 15.5.0	NOKIA SIEMENS NETWORKS OY [FI]	US20080289825	US8055820 B2	Buffer status reporting apparatus, system, and method	UNITED STATES	AU20080324204	AU2008324204 B2	AUSTRALIA
										AU20140203627	AU2014203627 B2	AUSTRALIA
										BR2008PI20059	BRPI0820059 A2	BRAZIL
										CA20082704537	CA2704537 C	CANADA
										CN200880124035	CN101971544 B	CHINA
										CN201410201996	CN104093211 B	CHINA
										EP20080846246	EP2210361 B2	European Patent Office
										EP20140170263	EP2811680 A1	European Patent Office
										ES20080846246T	ES2493015 T3	SPAIN
										HK20150104463	HK1204169 A1	HONG KONG
										JP20100532577	JP5552431 B2	JAPAN
										JP20130130540	JP2013179712 A	JAPAN
										JP20150163515	JP2015208046 A	JAPAN
										KR20107012482	KR101148319 B1	KOREA (REPUBLIC OF)
										MX20100004970	MX2010004970 A	MEXICO
										RU20100122730	RU2469481 C2	RUSSIAN FEDERATION
										WO2008EP64990	WO2009059995 A1	Patent Cooperation Treaty
2	5G	TS 138 300 TS 138 331 TS 38.300 TS 38.331	9.2.4 4.4, 5.3.5.3, 5.5, 6.3.2	15.5.0 15.5.1 15.5.0 15.5.1	NOKIA MOBILE PHONES LTD [FI]	US20010782360	US6810019 B2	Reducing interference in inter-frequency measurement	UNITED STATES	EP20010660028	EP1137203 A3	European Patent Office
										FI20000000380	FI112772 B1	FINLAND

3	5G	TS 138 321 TS 38.321	5.4.6	15.5.0 15.5.0	WU CHUNLI [CN] SEBIRE BENOIST PIERRE [JP] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201113164286	US8848556 B2	CARRIER AGGREGATION WITH POWER HEADROOM REPORT	UNITED STATES	AU20110269153	AU2011269153 B2	AUSTRALIA
										BR20121133039	BR112012033039 A2	BRAZIL
										CA20112803216	CA2803216 A1	CANADA
										CN20118037979	CN103053206 A	CHINA
										EP20110726413	EP2583505 B1	European Patent Office
										JP20130515821	JP2013534769 A	JAPAN
										JP20140243469	JP2015043633 A	JAPAN
										KR20137001270	KR101497370 B1	KOREA (REPUBLIC OF)
										MX20120015138	MX2012015138 A	MEXICO
										RU20130102146	RU2547806 C2	RUSSIAN FEDERATION
										SG20120094611	SG186797 A1	SINGAPORE
										TW20110121589	TWI524690 B	TAIWAN, PROVINCE OF CHINA
										US201414500398	US9025590 B2	UNITED STATES
										US201514678870	US9351262 B2	UNITED STATES
										US201615149862	US9854543 B2	UNITED STATES
										WO2011EP60118	WO2011161014 A1	Patent Cooperation Treaty
4	5G	TS 138 214 TS 138 331 TS 38.331	5.2 6.3.2	15.4.0 15.4.0 15.4.0	CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201514691515	US9572160 B2	SIGNALLING OF CHANNEL INFORMATION	UNITED STATES	CN20108066992	CN102907029 B	CHINA
										EP20100712044	EP2550762 B1	European Patent Office
										JP20130500342	JP2013524661 A	JAPAN
										KR20127027999	KR101454737 B1	KOREA (REPUBLIC OF)
										TW20110109808	TW201203920 A	TAIWAN, PROVINCE OF CHINA
										US201013637222	US8867472 B2	UNITED STATES
										US201414517772	US9019932 B2	UNITED STATES
										US201414518544	US9078262 B2	UNITED STATES
										WO2010EP53919	WO2011116823 A1	Patent Cooperation Treaty
5	5G	TS 138 331 TS 38.331	5.5.3, 5.3.5.3, 5.5.4.4	15.5.1 15.5.1	NOKIA SIEMENS NETWORKS GMBH [DE]	EP20060793828	EP1943853 B1	INTRA-FREQUENCY AND INTER-FREQUENCY MEASUREMENTS IN A RADIO COMMUNICATION SYSTEM	European Patent Office	AT20060793828T	AT498286 T	AUSTRIA
										CN20068040035	CN101305633 B	CHINA
										EP20050023264	EP1781056 A1	European Patent Office
										RU20080120677	RU2417557 C2	RUSSIAN FEDERATION
										US20060084133	US9432869 B2	UNITED STATES
										WO2006EP66734	WO2007048673 A1	Patent Cooperation Treaty
										ZA20080002368	ZA200802368 B	SOUTH AFRICA

6	5G	TS 138 321 TS 138 133 TS 138 331 TS 38.321 TS 38.133 TS 38.331	5.4.6 10.1.17, 10.1.18 6.3.2	15.5.0 15.5.0 15.5.1 15.5.0 15.5.0 15.5.1	ROSA CLAUDIO [DK] NOKIA SIEMENS NETWORKS OY [FI] PEDERSEN KLAUS INGEMANN [DK] MICHEL JUERGEN [DE]	US20080665427	US8457676 B2	Power Headroom Reporting Method	UNITED STATES	AU20080265071	AU2008265071 B2	AUSTRALIA
										BR2008PI14714	BRPI0814714 A2	BRAZIL
										CA20082691230	CA2691230 C	CANADA
										CN200880103990	CN101785206 B	CHINA
										EP20080775609	EP2171871 B1	European Patent Office
										JP20100512729	JP5232224 B2	JAPAN
										KR20107001337	KR101078116 B1	KOREA (REPUBLIC OF)
										MX20090014083	MX2009014083 A	MEXICO
										RU20100101598	RU2490795 C2	RUSSIAN FEDERATION
										WO2008FI50384	WO2008155469 A1	Patent Cooperation Treaty
										ZA20090009102	ZA200909102 A	SOUTH AFRICA
7	5G	TS 123 237 TS 123 501 TS 23.237 TS 23.501	6.3.3, 4.3.3, 5.3.1 4.4.3	15.1.0 15.5.0 15.1.0 15.5.0	POIKSELKA MIIKKA JUHANA [FI] MUTIKAINEN JARI [FI] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US20080742102	US9026663 B2	Method, Apparatus and Program Product for Merging Communication Sessions in an IMS	UNITED STATES	AU20080323081	AU2008323081 B2	AUSTRALIA
										BR2008PI20525	BRPI0820525 A2	BRAZIL
										CN200880116575	CN101855890 B	CHINA
										EP20070022036	EP2061212 B1	European Patent Office
										US201514662811	US9906566 B2	UNITED STATES
										WO2008EP64698	WO2009062849 A1	Patent Cooperation Treaty
										ZA20100002340	ZA201002340 B	SOUTH AFRICA
8	5G	TS 138 212 TS 138 213 TS 138 331 TS 38.331	7.3 9.1 6.3.2	15.5.0 15.5.0 15.5.1 15.5.1	KOLDING TROELS E [DK] NOKIA SIEMENS NETWORKS OY [FI] FREDERIKSEN FRANK [DK] CHE XIANG GUANG [CN]	US20090459352	US8396030 B2	Selecting between normal and virtual dual layer ACK/NACK	UNITED STATES	AU20090265740	AU2009265740 B2	AUSTRALIA
										BR2009PI14115	BRPI0914115 A2	BRAZIL
										CA20092729510	CA2729510 A1	CANADA
										CN200980133571	CN102144367 B	CHINA
										EP20090772443	EP2297893 A2	European Patent Office
										EP20160150142	EP3026839 A1	European Patent Office
										JP20110515434	JP5391275 B2	JAPAN
										KR20117002550	KR101198472 B1	KOREA (REPUBLIC OF)
										KR20127012679	KR101274663 B1	KOREA (REPUBLIC OF)
										RU20110102801	RU2490803 C2	RUSSIAN FEDERATION
										US201313770384	US8861472 B2	UNITED STATES
										US201414465954	US9313008 B2	UNITED STATES
										US201615063242	US2016191223 A1	UNITED STATES
										WO2009EP58194	WO2010000743 A3	Patent Cooperation Treaty
										ZA201000612	ZA201000612 B	SOUTH AFRICA

9	5G	TS 138 321 TS 138 212 TS 138 331 TS 38.321 TS 38.331	7.3.1.2 5.3 5.2, 5.2.2.3	15.4.0 15.4.0 15.4.0 15.4.0 15.4.0	CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201313744079	US9320024 B2	METHOD AND APPARATUS FOR PROVIDING SIGNALING OF REDUNDANCY	UNITED STATES	AU20090294519	AU2009294519 B2	AUSTRALIA
										BR2009PI18762	BRPI0918762 A2	BRAZIL
										CA20092737664	CA2737664 C	CANADA
										CN200980146400	CN102224701 B	CHINA
										CN201410397749	CN104135364 A	CHINA
										DK20090783280T	DK2342858 T3	DENMARK
										EP20090783280	EP2342858 B1	European Patent Office
										ES20090783280T	ES2402621 T3	SPAIN
										HK20150102690	HK1202194 A1	HONG KONG
										JP20110527352	JP5308530 B2	JAPAN
										KR20117009298	KR101260348 B1	KOREA (REPUBLIC OF)
										MY2011PI01244	MY153534 A	MALAYSIA
										RU20110115532	RU2469476 C1	RUSSIAN FEDERATION
										US20090564536	US8457022 B2	UNITED STATES
										US201615074832	US2016204917 A1	UNITED STATES
										WO2009EP62255	WO2010031873 A1	Patent Cooperation Treaty
										ZA20110001889	ZA201101889 B	SOUTH AFRICA
10	5G	TS 138 212 TS 138 213 TS 138 331 TS 38.331	7.3.1 10.1 5.3.5, 6.3.2	15.5.0 15.5.0 15.5.1 15.5.1	NOKIA SIEMENS NETWORKS OY [FI] MALKAMÄKI ESA [FI] KOSKELA JARKKO [FI] HWANG WOONHEE [FI]	US201113247323	US8902770 B2	Carrier Indicator Field Usage and Configuration In Carrier Aggregation	UNITED STATES	US201414558083	US10425212 B2	UNITED STATES
										WO2011EP66844	WO2012041897 A3	Patent Cooperation Treaty
11	5G	TS 138 214 TS 138 331 TS 38.331	5.2 6.3.2	15.5.0 15.5.1 15.5.1	LUNTTILA TIMO ERKKI [FI] PEDERSEN KLAUS INGEMANN [DK] CELLULAR COMMUNICATIONS EQUIPMENT LLC [US]	US201113253323	US9100868 B2	Channel State Information Measurement and Reporting	UNITED STATES	BR20131108193	BR112013008193 A2	BRAZIL
										CA20112813275	CA2813275 A1	CANADA
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* Information on other members of a PATENT FAMILY is provided voluntarily (Clause 4.3 of the ETSI IPR Policy).

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UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF TEXAS
TEXARKANA DIVISION

PANTECH CORPORATION and PANTECH WIRELESS, LLC, *Plaintiffs*, v. LG ELECTRONICS INC., and LG ELECTRONICS U.S.A., INC., *Defendants*.	Case No. 5:22-cv-00113 **JURY TRIAL DEMANDED**

ORDER GRANTING DEFENDANTS' MOTION TO DISQUALIFY MAYER BROWN

Pending before the Court is Defendants LG Electronics Inc.'s and LG Electronics U.S.A. Inc.'s Motion to Disqualify Mayer Brown LLP. Having fully considered the motion, the Court is of the opinion that the motion should be and is **GRANTED**. It is therefore

ORDERED that Mayer Brown LLP should be and is disqualified from participating in Plaintiffs' patent infringement claims against Defendants LG Electronics Inc. and LG Electronics U.S.A.; it is therefore

FURTHER ORDERED that Mayer Brown LLP is hereby barred from sending, receiving, or having any written or oral communications with Plaintiffs, Plaintiffs' counsel, and any witnesses, consultants, and advisors regarding the merits, strategy, and discovery related to liability, damages, defenses, and settlement issues for Plaintiffs' claims and any of Defendants' defenses or counterclaims in this litigation; it is therefore

FURTHER ORDERED that Plaintiffs shall have forty-five (45) days from the date of this Order to (1) obtain new counsel without conflict to Defendants LG Electronics Inc. and LG Electronics U.S.A. and (2) notify this Court upon the retention of new counsel.