

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Navid Ehsan</td> <td>04/26/2013</td> </tr> <tr> <td>Thomas Klingenbrunn</td> <td>03/02/2013</td> </tr> <tr> <td>Amir Aminzadeh Gohari</td> <td>03/11/2013</td> </tr> <tr> <td>Aziz Gholmieh</td> <td>03/25/2013</td> </tr> <tr> <td>Alexei Yurievitch Gorokhov</td> <td>03/13/2013</td> </tr> <tr> <td>Masato Kitazoe</td> <td>03/05/2013</td> </tr> <tr> <td>Amit Mahajan</td> <td>03/01/2013</td> </tr> <tr> <td>Peter Gaal</td> <td>03/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Navid Ehsan	04/26/2013	Thomas Klingenbrunn	03/02/2013	Amir Aminzadeh Gohari	03/11/2013	Aziz Gholmieh	03/25/2013	Alexei Yurievitch Gorokhov	03/13/2013	Masato Kitazoe	03/05/2013	Amit Mahajan	03/01/2013	Peter Gaal	03/12/2013
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<table border="1"> <tr> <td>Name:</td> <td>QUALCOMM Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</td> </tr> <tr> <td>City:</td> <td>San Diego</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714								
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PROPERTY NUMBERS Total: 1																			
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CORRESPONDENCE DATA																			
<p>Fax Number: 2148558200  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 214-855-8000        Email: tballance@fulbright.com        Correspondent Name: R. Ross Viguette/Fulbright &amp; Jaworski LLP        Address Line 1: 2200 Ross Avenue        Address Line 2: Suite 2800        Address Line 4: Dallas, TEXAS 75201</p>																			

OP \$40.00 13749518

ATTORNEY DOCKET NUMBER:	QLXX.P0091US.11214946
NAME OF SUBMITTER:	R. Ross Viguet
Signature:	/R. Ross Viguet/
Date:	05/24/2013
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ASSIGNMENT

WHEREAS, WE,

1. **Navid Ehsan**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
2. **Thomas Klingenbrunn**, a citizen of **DENMARK**, having a mailing address located at **8995 Hampe Ct. San Diego, CA 92129** and a resident of **San Diego, CA**,
3. **Amir Aminzadeh Gohari**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
4. **Aziz Gholmieh**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
5. **Alexei Yurievitch Gorokhov**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
6. **Masato Kitazoe**, a citizen of **JAPAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **Tokyo, Japan**,
7. **Amit Mahajan**, a citizen of **INDIA**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
8. **Peter Gaal**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **QUALCOMM Incorporated** (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**, desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed January 24, 2013, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed January 26, 2012, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

**PATENT**

QUALCOMM Ref. No. 121166

Page 3 of 4

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at San Diego, CA, on April 26/2013 Navid Ehsan  
LOCATION DATE

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Masato Kitazoe

**PATENT**

**REEL: 030484 FRAME: 0571**

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

ASSIGNMENT

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8. Peter Gaal, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed January 24, 2013, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed January 26, 2012, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

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AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

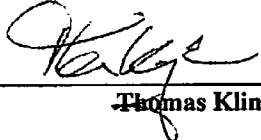
AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;



AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at San Diego, on 3/2/2013  
LOCATION DATE   
Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Masato Kitazoe

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LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

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8. Peter Gaal, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed **January 24, 2013**, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed **January 26, 2012**, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at San Diego, USA, on 3/11/2011  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

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LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

**PATENT**

**REEL: 030484 FRAME: 0580**

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WHEREAS, WE,

1. Navid Ehsan, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
2. Thomas Klingenbrunn, a citizen of DENMARK, having a mailing address located at 8995 Hampe Ct. San Diego, CA 92129 and a resident of San Diego, CA,
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WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed January 24, 2013, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed January 26, 2012, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;



AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at San Diego, on 3/25/13  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Masato Kitazoe

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

ASSIGNMENT

WHEREAS, WE,

1. **Navid Ehsan**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
2. **Thomas Klingenbrunn**, a citizen of **DENMARK**, having a mailing address located at **8995 Hampe Ct. San Diego, CA 92129** and a resident of **San Diego, CA**,
3. **Amir Aminzadeh Gohari**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
4. **Aziz Gholmieh**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
5. **Alexei Yurievitch Gorokhov**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
6. **Masato Kitazoe**, a citizen of **JAPAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **Tokyo, Japan**,
7. **Amit Mahajan**, a citizen of **INDIA**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
8. **Peter Gaal**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **QUALCOMM Incorporated** (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**, desires to acquire or otherwise obtain the entire right, title, and interest in and to said **INVENTIONS**, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto **ASSIGNEE**,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed **January 24, 2013**, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed **January 26, 2012**, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;


AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE **Navid Ehsan**

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE **Thomas Klingenbrunn**

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE **Amir Aminzadeh Gohari**

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE **Aziz Gholmieh**

Done at San Diego, on 03/13/2013  
LOCATION DATE  A. Gorokhov  
**Alexei Yurievitch Gorokhov**

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE **Masato Kitazoe**

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

ASSIGNMENT

WHEREAS, WE,

1. Navid Ehsan, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
2. Thomas Klingenbrunn, a citizen of DENMARK, having a mailing address located at 8995 Hampe Ct. San Diego, CA 92129 and a resident of San Diego, CA,
3. Amir Aminzadeh Gohari, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
4. Aziz Gholmieh, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
5. Alexei Yurievitch Gorokhov, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
6. Masato Kitazoe, a citizen of JAPAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Tokyo, Japan,
7. Amit Mahajan, a citizen of INDIA, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
8. Peter Gaal, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

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its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed January 24, 2013, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed January 26, 2012, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

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AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;



AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Masato Kitazoe

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at Tokyo, on March 5, 2013  
LOCATION DATE M. Kitazoe  
Masato Kitazoe

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Peter Gaal

ASSIGNMENT

WHEREAS, WE,

1. **Navid Ehsan**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
2. **Thomas Klingenbrunn**, a citizen of **DENMARK**, having a mailing address located at **8995 Hampe Ct. San Diego, CA 92129** and a resident of **San Diego, CA**,
3. **Amir Aminzadeh Gohari**, a citizen of **IRAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
4. **Aziz Gholmieh**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
5. **Alexei Yurievitch Gorokhov**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
6. **Masato Kitazoe**, a citizen of **JAPAN**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **Tokyo, Japan**,
7. **Amit Mahajan**, a citizen of **INDIA**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
8. **Peter Gaal**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "**INVENTIONS**") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **QUALCOMM Incorporated** (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at **5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.**, desires to acquire or otherwise obtain the entire right, title, and interest in and to said **INVENTIONS**, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto **ASSIGNEE**,

its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/749, 518 filed January 24, 2013, Qualcomm Reference No. 121166, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/591,237, filed January 26, 2012, Qualcomm Reference No. 121166P1, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Navid Ehsan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Thomas Klingenbrunn

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Amir Aminzadeh Gohari

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Aziz Gholmieh

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Alexei Yurievitch Gorokhov

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Masato Kitazoe

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at SAN DIEGO, CA, on 3/1/13  
LOCATION DATE

Amit Mahajan  
Amit Mahajan

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

\_\_\_\_\_  
Peter Gaal

ASSIGNMENT

WHEREAS, WE,

1. Navid Ehsan, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
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3. Amir Aminzadeh Gohari, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
4. Aziz Gholmieh, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
5. Alexei Yurievitch Gorokhov, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
6. Masato Kitazoe, a citizen of JAPAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Tokyo, Japan,
7. Amit Mahajan, a citizen of INDIA, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
8. Peter Gaal, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **UE-INITIATED DYNAMIC ACTIVATION AND DE-ACTIVATION OF SECONDARY CARRIERS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

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AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;