

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3388865

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT								
NATURE OF CONVEYANCE:	Corrective Assignment to correct the PRIORITY INFORMATION previously recorded on Reel 031969 Frame 0944. Assignor(s) hereby confirms the 3RD CLAIM IN THE CHAIN OF PRIORITY SHOULD HAVE THE FILING DATE OF JANUARY 2, 2013.								
CONVEYING PARTY DATA									
	<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>KASSEM FAWAZ</td> <td>05/30/2015</td> </tr> <tr> <td>VINAY SRIDHARA</td> <td>06/08/2015</td> </tr> <tr> <td>RAJARSHI GUPTA</td> <td>05/29/2015</td> </tr> </tbody> </table>	Name	Execution Date	KASSEM FAWAZ	05/30/2015	VINAY SRIDHARA	06/08/2015	RAJARSHI GUPTA	05/29/2015
Name	Execution Date								
KASSEM FAWAZ	05/30/2015								
VINAY SRIDHARA	06/08/2015								
RAJARSHI GUPTA	05/29/2015								
RECEIVING PARTY DATA									
Name:	QUALCOMM INCORPORATED								
Street Address:	5775 MOREHOUSE DRIVE								
City:	SAN DIEGO								
State/Country:	CALIFORNIA								
Postal Code:	92121-1714								
PROPERTY NUMBERS Total: 1									
	<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14090261</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	14090261				
Property Type	Number								
Application Number:	14090261								
CORRESPONDENCE DATA									
Fax Number:	(703)391-2901								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>									
Phone:	7033912900								
Email:	ptonoticesqc@marburylaw.com								
Correspondent Name:	THE MARBURY LAW GROUP, PLLC								
Address Line 1:	11800 SUNRISE VALLEY DRIVE								
Address Line 2:	15TH FLOOR								
Address Line 4:	RESTON, VIRGINIA 20191								
ATTORNEY DOCKET NUMBER:	134082 / 1376-1286								
NAME OF SUBMITTER:	ROBERT M. HANSEN								
SIGNATURE:	/Robert M. Hansen/								
DATE SIGNED:	06/09/2015								
Total Attachments: 14									

source=134082_Correted_Assignment_FILED#page1.tif
source=134082_Correted_Assignment_FILED#page2.tif
source=134082_Correted_Assignment_FILED#page3.tif
source=134082_Correted_Assignment_FILED#page4.tif
source=134082_Correted_Assignment_FILED#page5.tif
source=134082_Correted_Assignment_FILED#page6.tif
source=134082_Correted_Assignment_FILED#page7.tif
source=134082_Correted_Assignment_FILED#page8.tif
source=134082_Correted_Assignment_FILED#page9.tif
source=134082_Correted_Assignment_FILED#page10.tif
source=134082_Correted_Assignment_FILED#page11.tif
source=134082_Correted_Assignment_FILED#page12.tif
source=134082_Correted_Assignment_FILED#page13.tif
source=134082_Correted_Assignment_FILED#page14.tif

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2682082

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>KASSEM FAWAZ</td> <td>11/27/2013</td> </tr> <tr> <td>VINAY SRIDHARA</td> <td>01/10/2014</td> </tr> <tr> <td>RAJARSHI GUPTA</td> <td>11/27/2013</td> </tr> </tbody> </table>		Name	Execution Date	KASSEM FAWAZ	11/27/2013	VINAY SRIDHARA	01/10/2014	RAJARSHI GUPTA	11/27/2013		
Name	Execution Date										
KASSEM FAWAZ	11/27/2013										
VINAY SRIDHARA	01/10/2014										
RAJARSHI GUPTA	11/27/2013										
RECEIVING PARTY DATA											
<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
Name:	QUALCOMM INCORPORATED										
Street Address:	5775 MOREHOUSE DRIVE										
City:	SAN DIEGO										
State/Country:	CALIFORNIA										
Postal Code:	92121-1714										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14090261</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14090261						
Property Type	Number										
Application Number:	14090261										
CORRESPONDENCE DATA											
Fax Number:	(703)391-2901										
Phone:	7033912900										
Email:	ptonoticesqc@marburylaw.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	THE MARBURY LAW GROUP, PLLC										
Address Line 1:	11800 SUNRISE VALLEY DRIVE										
Address Line 2:	15TH FLOOR										
Address Line 4:	RESTON, VIRGINIA 20191										
<p style="text-align: right;"><u>This corrective assignment is being submitted to correct the priority information within the actual assignment document. None of the recorded information is being updated.</u></p>											
ATTORNEY DOCKET NUMBER:	134082 / 1376-1286										
NAME OF SUBMITTER:	ROBERT M. HANSEN										
Signature:	/Robert M. Hansen/										

ASSIGNMENT

WHEREAS, WE,

1. **Kassem Fawaz**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Ann Arbor, MI;
2. **Vinay Sridhara**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Santa Clara, CA; and
3. **Rajarshi Gupta**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Sunnyvale, 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 **METHODS AND SYSTEMS OF USING BOOSTED DECISION STUMPS AND JOINT FEATURE SELECTION AND CULLING ALGORITHMS FOR THE EFFICIENT CLASSIFICATION OF MOBILE DEVICE BEHAVIORS** (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). 14/090,261 filed November 26, 2013 Qualcomm Reference No. **134082**, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/874,129**, filed **September 5, 2013** Qualcomm Reference No. **134082P1**, U.S. Provisional Application No(s). **61/748,217**, filed **January 2, 2013** Qualcomm Reference No. **130641P1**, U.S. Provisional Application No(s). **61/748,220**, filed ~~January 3, 2013~~ Qualcomm Reference No. **130640P1**, (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

January 2, 2013

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;

ORIGINALLY FILED ASSIGNMENT

PATENT
QUALCOMM Ref. No. 134082
Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Ann Arbor, on Nov. 27th, 2013 ~~Kasse~~
LOCATION DATE **Kassem Fawaz**

Done at _____, on _____
LOCATION DATE **Vinay Sridhara**


Done at _____, on _____
LOCATION DATE **Rajarshi Gupta**

ORIGINALLY FILED ASSIGNMENT

PATENT
QUALCOMM Ref. No. 134082
Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE **Kassem Fawaz**

Done at Santa Clara, on 10th Jan 2014
LOCATION DATE 
Vinay Sridhara

Done at _____, on _____
LOCATION DATE **Rajarshi Gupta**

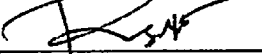
ORIGINALLY FILED ASSIGNMENT

PATENT
QUALCOMM Ref. No. 134082
Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE Kassem Fawaz

Done at _____, on _____
LOCATION DATE Vinay Sridhara

Done at Santa Clara, on Nov 27, 2013
LOCATION DATE 
Rajarshi Gupta

CORRECTED ASSIGNMENT

PATENT

QUALCOMM Ref. No. 134082

Page 1 of 3

ASSIGNMENT

WHEREAS, WE,

1. **Kassem Fawaz**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Ann Arbor, MI;
2. **Vinay Sridhara**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Santa Clara, CA; and
3. **Rajarshi Gupta**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Sunnyvale, 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 METHODS AND SYSTEMS OF USING BOOSTED DECISION STUMPS AND JOINT FEATURE SELECTION AND CULLING ALGORITHMS FOR THE EFFICIENT CLASSIFICATION OF MOBILE DEVICE BEHAVIORS (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) 14/090,261 filed November 26, 2013 Qualcomm Reference No. 134082, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/874,129, filed September 5, 2013 Qualcomm Reference No. 134082P1, U.S. Provisional Application No(s). 61/748,217, filed January 2, 2013 Qualcomm Reference No. 130641P1, U.S. Provisional Application No(s) 61/748,220, filed January 2, 2013 Qualcomm Reference No. 130640P1, (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;

PATENT

REEL: 035870 FRAME: 0437

CORRECTED ASSIGNMENT

PATENT

QUALCOMM Ref. No. 134082

Page 2 of 3

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;

PATENT

REEL: 035870 FRAME: 0438

CORRECTED ASSIGNMENT

PATENT

QUALCOMM Ref. No. 134082

Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Pal Alto, CA, on May 30th, 2015
LOCATION DATE

Kassem Fawaz
Kassem Fawaz

Done at _____, on _____
LOCATION DATE

Vinay Sridhara

Done at _____, on _____
LOCATION DATE

Rajarshi Gupta

PATENT

REEL: 035870 FRAME: 0439

ASSIGNMENT

WHEREAS, WE,

1. **Kassem Fawaz**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Ann Arbor, MI;
2. **Vinay Sridhara**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Santa Clara, CA; and
3. **Rajarshi Gupta**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Sunnyvale, 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 METHODS AND SYSTEMS OF USING BOOSTED DECISION STUMPS AND JOINT FEATURE SELECTION AND CULLING ALGORITHMS FOR THE EFFICIENT CLASSIFICATION OF MOBILE DEVICE BEHAVIORS (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). 14/090,261 filed November 26, 2013 Qualcomm Reference No. 134082, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/874,129, filed September 5, 2013 Qualcomm Reference No. 134082P1, U.S. Provisional Application No(s). 61/748,217, filed January 2, 2013 Qualcomm Reference No. 130641P1, U.S. Provisional Application No(s). 61/748,220, filed January 2, 2013 Qualcomm Reference No. 130640P1, (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;

CORRECTED ASSIGNMENT

PATENT

QUALCOMM Ref. No. 134082

Page 2 of 3

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;

PATENT

REEL: 035870 FRAME: 0441

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE **Kassem Fawaz**

Done at Santa Clara, on June 8th 2015
LOCATION DATE **Vinay Sridhara**

Done at Santa Clara, on May 29, 2015
LOCATION DATE **Rajarshi Gupta**