

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3093549

|                                                                                                                                                                                                 |                                  |
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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                   |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                  |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>            |
| MUNGAL SINGH DHANDA                                                                                                                                                                             | 08/01/2012                       |
| NIGEL PHILLIP ROBINSON                                                                                                                                                                          | 08/01/2012                       |
| AJIT GUPTA                                                                                                                                                                                      | 08/23/2012                       |
| SIMON WALKE                                                                                                                                                                                     | 08/01/2012                       |
| BHANU KIRAN JANGA                                                                                                                                                                               | 08/23/2012                       |
| VENKATA RAJI REDDY KANTHALA                                                                                                                                                                     | 08/23/2012                       |
| SUBBARAYUDU MUTYA                                                                                                                                                                               | 08/23/2012                       |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                  |
| <b>Name:</b>                                                                                                                                                                                    | QUALCOMM Incorporated            |
| <b>Street Address:</b>                                                                                                                                                                          | 5775 Morehouse Drive             |
| <b>City:</b>                                                                                                                                                                                    | San Diego                        |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 92121-1714                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                  |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                    |
| <b>Application Number:</b>                                                                                                                                                                      | 14338122                         |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                  |
| <b>Fax Number:</b>                                                                                                                                                                              | (858)658-2502                    |
| <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> |                                  |
| <b>Phone:</b>                                                                                                                                                                                   | (858) 651-5205                   |
| <b>Email:</b>                                                                                                                                                                                   | us-docketing@qualcomm.com        |
| <b>Correspondent Name:</b>                                                                                                                                                                      | QUALCOMM INCORPORATED            |
| <b>Address Line 1:</b>                                                                                                                                                                          | 5775 MOREHOUSE DRIVE             |
| <b>Address Line 4:</b>                                                                                                                                                                          | SAN DIEGO, CALIFORNIA 92121-1714 |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 112813C1                         |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | MICHELLE SANFILIPPO              |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Michelle Sanfilippo/            |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 11/04/2014                       |
| <b>Total Attachments: 8</b>                                                                                                                                                                     |                                  |

PATENT

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ASSIGNMENT

WHEREAS, WE,

1. **Mungal Singh Dhanda**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Slough, GB,
2. **Nigel Phillip Robinson**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Farnborough, GB,
3. **Ajit Gupta**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
4. **Simon Walke**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Basingstoke, GB,
5. **Bhanu Kiran Janga**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
6. **Venkata Raji Reddy Kanthala**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
7. **Subbarayudu Mutya**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,

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 **RECEIVING CELL BROADCAST (CB) MESSAGES** (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). **13/547,896**, filed **July 12, 2012**, Qualcomm Reference No. **112813**, and all provisional applications relating thereto, together

with U.S. Provisional Application No(s). **61/508,528**, filed **July 15, 2011**, Qualcomm Reference No. **112813P1**, together with U.S. Provisional Application No(s). **61/599,205**, filed **February 15, 2012**, Qualcomm Reference No. **113261P1**, (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;

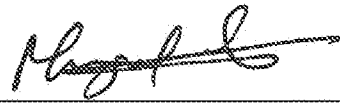
AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, 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;

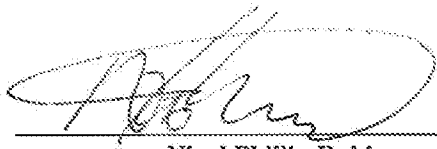
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, 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 UK, on 1 AUG 2012   
LOCATION DATE Mungal Singh Dhanda

Done at UK, on 1 AUG 2012   
LOCATION DATE Nigel Phillip Robinson

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

Done at UK, on 1 AUG 2012   
LOCATION DATE Simon Walke

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Bhanu Kiran Janga

**PATENT**

QUALCOMM Ref. No. 112813

Page 4 of 4

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 Venkata Raji Reddy Kanthala

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

**PATENT**

**REEL: 034098 FRAME: 0905**

## ASSIGNMENT

WHEREAS, WE,

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3. **Ajit Gupta**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
4. **Simon Walke**, a citizen of United Kingdom, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Basingstoke, GB,
5. **Bhanu Kiran Janga**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
6. **Venkata Raji Reddy Kanthala**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,
7. **Subbarayudu Mutya**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Hyderabad, IN,

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 **RECEIVING CELL BROADCAST (CB) MESSAGES** (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). **13/547,896**, filed **July 12, 2012**, Qualcomm Reference No. **112813**, and all provisional applications relating thereto, together

with U.S. Provisional Application No(s). **61/508,528**, filed **July 15, 2011**, Qualcomm Reference No. **112813P1**, together with U.S. Provisional Application No(s). **61/599,205**, filed **February 15, 2012**, Qualcomm Reference No. **113261P1**, (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 Mungal Singh Dhanda

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Nigel Phillip Robinson

Done at HYDERABAD, on 23 Aug 2012  
LOCATION DATE Ajit Gupta

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

Done at HYDERABAD, INDIA, on 8/23/2012  
LOCATION DATE Bhanu Kiran Janga

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.

Hyderabad  
INDIA  
Done at \_\_\_\_\_, on 8/23/2012 Jc. V. Reddy Kanthala  
LOCATION DATE Venkata Raji Reddy Kanthala

HYDERABAD  
INDIA  
Done at \_\_\_\_\_, on 8/23/2012 MSR  
LOCATION DATE Subbarayudu Mutya

[none]