

# PATENT ASSIGNMENT

Electronic Version v1.1

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|--------------------------------------------------------------------------------------|----------------------------------|
| SUBMISSION TYPE:                                                                     | NEW ASSIGNMENT                   |
| NATURE OF CONVEYANCE:                                                                | ASSIGNMENT                       |
| <b>CONVEYING PARTY DATA</b>                                                          |                                  |
| Name                                                                                 | Execution Date                   |
| Harry H. Dang                                                                        | 01/07/2011                       |
| Vannam Dang                                                                          | 01/07/2011                       |
| <b>RECEIVING PARTY DATA</b>                                                          |                                  |
| Name:                                                                                | QUALCOMM Incorporated            |
| Street Address:                                                                      | 5775 Morehouse Drive             |
| Internal Address:                                                                    | Patent Department                |
| City:                                                                                | San Diego                        |
| State/Country:                                                                       | CALIFORNIA                       |
| Postal Code:                                                                         | 92121-1714                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                     |                                  |
| Property Type                                                                        | Number                           |
| Application Number:                                                                  | 13006451                         |
| <b>CORRESPONDENCE DATA</b>                                                           |                                  |
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| ATTORNEY DOCKET NUMBER:                                                              | 093492                           |
| NAME OF SUBMITTER:                                                                   | Sam Talpalatsky                  |
| Total Attachments: 2                                                                 |                                  |
| source=093492_REC_01-14-11#page1.tif                                                 |                                  |

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**501405945**

**PATENT**  
**REEL: 025638 FRAME: 0116**



## ASSIGNMENT

### Method of Half-Bit Pre-Emphasis for Multi-Level Signal

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that We/I,

1. Harry H. Dang, a citizen of the United States, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California

2. Vannam Dang, a citizen of the United States, having a mailing address of 5775 Morehouse Drive, San Diego, CA 92121; and a resident of San Diego, California

have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **Method of Half-Bit Pre-Emphasis for Multi-Level Signal** by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on January 14, 2011, and assigned Serial No. 13/006,451, (and I hereby authorize and instruct **QUALCOMM Incorporated** to hereafter complete this Assignment by inserting the serial number and date in the space provided above when known), including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof, and all divisions, continuations and continuations-in-part thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever

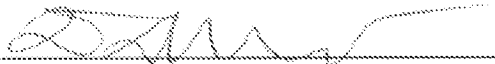
## ASSIGNMENT

### Method of Half-Bit Pre-Emphasis for Multi-Level Signal

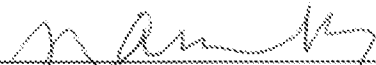
requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 07 day of January, 2011

  
Harry H. Dang

Done at San Diego, California this 07 day of January, 2011

  
Vannam Dang