

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| AMIN ABDEL KHALEK | 08/19/2016 |
| SAMUEL KERHUEL | 09/05/2016 |
| WIM JOSEPH ROUWET | 08/22/2016 |
| RECEIVING PARTY DATA | |
| Name: | FREESCALE SEMICONDUCTOR, INC. |
| Street Address: | 6501 WILLIAM CANNON DRIVE WEST |
| City: | AUSTIN |
| State/Country: | TEXAS |
| Postal Code: | 78735 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15299041 |
| CORRESPONDENCE DATA | |
| Fax Number: | (512)895-6630 |
| <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: | 512-895-6979 |
| Email: | rosemary.hoffert@nxp.com |
| Correspondent Name: | NXP B.V. |
| Address Line 1: | 6501 WILLIAM CANNON DRIVE WEST TX30/OE62 |
| Address Line 4: | AUSTIN, TEXAS 78735 |
| ATTORNEY DOCKET NUMBER: | DN31455TA-US02 |
| NAME OF SUBMITTER: | ROSEMARY HOFFERT |
| SIGNATURE: | /ROSEMARY HOFFERT/ |
| DATE SIGNED: | 10/20/2016 |
| Total Attachments: 3 | |
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| source=DN31455TA-US02-Assignment#page2.tif | |
| source=DN31455TA-US02-Assignment#page3.tif | |

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we, as below-named Assignor/s, hereby sell, assign, and transfer the entire and exclusive right, title, and interest in the following to **FREESCALE SEMICONDUCTOR, INC.**, having a place of business at 6501 William Cannon Drive, Austin, TX 78735, USA, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

(1) our invention relating to "**METHOD AND APPARATUS FOR PERFORMING DISTRIBUTED COMPUTATION OF PRECODING ESTIMATES**" for which the following patent application(s) has/have been filed (we hereby authorize and request my/our attorneys associated with U.S. Patent & Trademark Office Customer Number 23125 to insert below the filing date and application number of the U.S. application when known):

| <u>Country</u> | <u>Application No.</u> | <u>Filing Date (mm/dd/yyyy)</u> | <u>Claims Priority of</u> |
|----------------|------------------------|---------------------------------|---------------------------|
| EP | 16305667.4 | 06/08/2016 | |
| US | 15299041 | 10/20/2016 | EP16305667.4 |

(2) the foregoing application(s) and all other United States, foreign and international patent applications associated therewith, based thereon, or claiming priority there from including, but not limited to, any and all provisionals, non-provisionals, divisions, continuations, continuations-in-part, re-examinations, reissues, and extensions thereof, and

(3) the right to claim priority thereto, and the entire and exclusive right, title, and interest in and to any and all patents granted on these applications.

We authorize and request that the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to **FREESCALE SEMICONDUCTOR, INC.**, for its sole use, and that of its successors, assigns, and legal representatives.

We will provide our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee.

We certify that we have the full right to convey the above rights.

08/19/2016 _____, Assignor
Date Amin Abdel Khalek

_____, Assignor
Date Samuel Kerhuel

_____, Assignor
Date Wim Joseph Rouwet

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| _____ | _____ | Assignor |
| Date | Amin Abdel Khalek | |
| 09/05/2016 |  | Assignor |
| _____ | _____ | Assignor |
| Date | Samuel Kerhuel | |
| _____ | _____ | Assignor |
| Date | Wim Joseph Renwet | |

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|-------------|--------------------------------------------------------------------------------------|----------|
| _____ | _____ | Assignor |
| Date | Amin Abdel Khalek | |
| _____ | _____ | Assignor |
| Date | Samuel Kerhuel | |
| 22/Aug/2016 |  | Assignor |
| Date | Wim Joseph Rouwet | |