

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2987052

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | QUITCLAIM ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| STMICROELECTRONICS INTERNATIONAL N.V. | 08/18/2014 |
| RECEIVING PARTY DATA | |
| Name: | STMICROELECTRONICS S.R.L. |
| Street Address: | VIA C. OLIVETTI, 2 |
| City: | AGRATE BRIANZA (MB) |
| State/Country: | ITALY |
| Postal Code: | 20864 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14074341 |
| CORRESPONDENCE DATA | |
| Fax Number: | (972)466-7044 |
| <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: | 972-466-7280 |
| Email: | angie.rodriguez@st.com |
| Correspondent Name: | BARRY W. DOVE |
| Address Line 1: | 750 CANYON DRIVE, SUITE 300 |
| Address Line 4: | COPPELL, TEXAS 75019 |
| ATTORNEY DOCKET NUMBER: | 13-IND-0423US01 |
| NAME OF SUBMITTER: | BARRY W. DOVE |
| SIGNATURE: | /Barry W. Dove/ |
| DATE SIGNED: | 08/19/2014 |
| Total Attachments: 3 | |
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| source=13-IND-0423US01 Executed Quitclaim Assignment STI to ST Srl#page2.tif | |
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QUITCLAIM ASSIGNMENT

1. Application. This section describes and defines the “Application.”

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| Application Number: | 14/074,341 |
| Application Filing Date: | November 7, 2013 |
| Application Country/Region: | United States of America |
| Application Title: | SYSTEM AND METHOD FOR IMPROVING MEMORY PERFORMANCE AND IDENTIFYING WEAK BITS |

2. Assignor. This section describes and defines the “Assignor.”

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|---|--|
| Assignor Name: | STMicroelectronics International N.V. |
| Assignor being a company, corporation, or juristic entity of: | Netherlands |
| Assignor’s principal place of business: | WTC Schiphol Airport, Schiphol Boulevard 265 Schiphol Airport, Amsterdam Netherlands 1118 BH |

3. Assignee. This section describes and defines the “Assignee.”

| | |
|---|--|
| Assignee Name: | STMicroelectronics S.r.l. |
| Assignee being a company, corporation, or juristic entity of: | Italy |
| Assignee’s principal place of business: | Via C. Olivetti, 2 Agrate Brianza (MB), Italy 20864 |

4. Parties. Assignor and Assignee shall be collectively referred to as “the Parties.”

5. Effective Date. This Quitclaim Assignment shall be effective on the date on which this Quitclaim Assignment is signed (“Effective Date”).

6. Background: Initial Assignment Document(s). Assignor received assignment document(s) from inventors appearing to assign their entire right, title, and interest (if any) in and to the inventions of the Application, the Application, and any Letters Patent to be obtained therefor and thereon worldwide.

Such assignment document(s) were recorded with the United States Patent and Trademark Office at:

| | |
|--|-------------|
| Reel/Frame of Assignment Recordation(s) in US Patent and Trademark Office: | 031563/0627 |
|--|-------------|

7. Background: Quitclaim Subset of Inventors. As of the Effective Date, Assignor desires to quitclaim assign, and Assignee desires to acquire or confirm acquisition of, that portion of the entire right, title, and interest in and to the inventions of the Application, the Application, and any Letters Patent to be obtained therefor and thereon worldwide, which Assignor obtained (if any) from the following subset of the inventors (“Quitclaim Subset of Inventors”):

| Inventor Name | Residence (City, State, Country) |
|-----------------------|----------------------------------|
| Andrea Mario VEGGETTI | Agrate Brianza, Italy |

8. Background: Retained Subset of Inventors. Assignor desires to retain that portion of the entire right, title, and interest in and to the inventions of the Application, the Application, and any Letters Patent to be obtained therefor and thereon worldwide, which Assignor obtained from the following subset of the inventors (“Retained Subset of Inventors”):

| Inventor Name | Residence (City, State, Country) |
|---------------|----------------------------------|
| Abhishek JAIN | Delhi, India |
| Amit CHHABRA | Delhi, India |

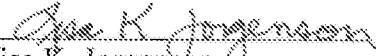
9. Corrective Assignment. In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, as of the Effective Date, Assignor does hereby quitclaim assign, transfer, and set over unto Assignee, its successors, legal representatives, and assigns, that portion of the entire right, title, and interest in and to the inventions of the Application, the Application, and any Letters Patent to be obtained therefor and thereon worldwide, including any and all direct and indirect divisions, continuations, and continuations-in-part of the Application, including any and all reissues, reexaminations, and extensions of said Letters Patent of the Application, and including all rights under the International Convention for the Protection of Industrial Property for the inventions of the Application (all together referred to as the “Family Members of the Application”), and including all rights worldwide in the Family Members of the Application, and including the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, that Assignor obtained (if any) from the Quitclaim Subset of Inventors, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended for the Family Members of the Application, as fully and entirely as the same would have been held and enjoyed by Assignor, had this quitclaim assignment not been made.

10. Joint Owners. Assignor (including Assignor’s successors, legal representatives, and assigns) hereby retains that portion of the entire right, title, and interest in and to the Family Members of the Application, that Assignor previously obtained from the Retained Subset of Inventors. Accordingly, Assignor and Assignee (including their successors, legal representatives, and assigns) shall be joint owners of the Family Members of the Application, as of the Effective Date. Assignor hereby authorizes and requests, that the Commissioner for Patents for the United States Patent and Trademark Office, and the equivalent government official of any country or countries foreign to the United States, whose duty is to issue patents on

applications as aforesaid, to issue all Letters Patent for the Family Members of the Application to both Assignor and Assignee, their successors, legal representatives, and assigns, as joint owners in accordance with the terms of this instrument.

Assignor

STMicroelectronics International N.V.

By: 
Name: Lisa K. Jorgenson
Title: Attorney-in-Fact
Date: August 18, 2014