#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4486290

| SUBMISSION TYPE:      | CORRECTIVE ASSIGNMENT   |
|-----------------------|---|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the SECOND INVENTORS NAME previously recorded on Reel 042861 Frame 0811. Assignor(s) hereby confirms the ASSIGNMENT. |
|                       |   |

#### **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| BIPUL C. PAUL | 01/09/2017     |
| KWAN-YONG LIM | 12/23/2016     |

#### **RECEIVING PARTY DATA**

| Name:             | GLOBALFOUNDRIES INC. |
|-------------------|----------------------|
| Street Address:   | PO BOX 309           |
| Internal Address: | UGLAND HOUSE         |
| City:             | GRAND CAYMAN         |
| State/Country:    | CAYMAN ISLANDS       |
| Postal Code:      | KY1-1104             |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15624762 |

#### CORRESPONDENCE DATA

Fax Number: (410)630-1656

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.

Phone: 4107056401

Email: GUNTHER@GIBBIPLAW.COM

Correspondent Name: GIBB & RILEY, LLC Address Line 1: 844 WEST STREET

Address Line 2: SUITE 200

Address Line 4: ANNAPOLIS, MARYLAND 21401

| ATTORNEY DOCKET NUMBER: | IALB109-US-DIV           |
|-------------------------|--------------------------|
| NAME OF SUBMITTER:      | FREDERICK W. GIBB, III   |
| SIGNATURE:              | /Frederick W. Gibb, III/ |
| DATE SIGNED:            | 06/30/2017               |

**Total Attachments: 5** 

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**PATENT** REEL: 043069 FRAME: 0125

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PATENT REEL: 043069 FRAME: 0126



### Electronic Patent Assignment System

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Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name           |            |
|----------------|------------|
| BIPUL C. PAUL  | 01/09/2017 |
| KW AM-YONG LIM | 12/23/2016 |

#### **RECEIVING PARTY DATA**

| `p                | GLOBALFOUNDRIES INC. |
|-------------------|----------------------|
| Street Address:   | PO BOX 309           |
| Internal Address: | UGLAND HOUSE         |
| 31 - 3            | GRAND CAYMAN         |
| State/Country:    | CAYMAN ISLANDS       |
| Postal Code:      | KY1-1104             |

#### PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15624762 |

PATENT REEL: 043069 FRAME: 0127

#### **CORRESPONDENCE DATA**

**Fax Number:** (410)630-1656 **Phone:** 410-705-6401

**Em ail:** gunther@gibbiplaw.com

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.

Correspondent Name: GIBB & RILEY, LLC
Address Line 1: 844 WEST STREET

Address Line 2: SUITE 200

Address Line 4: ANNAPOLIS, MARYLAND 21401

| ATTORNEY DOCKET NUMBER: | IALB109-US-DIV   |
|-------------------------|--|
| NAME OF SUBMITTER:      | FREDERICK W. GIBB, III                                     |
| Signature:              | /Frederick W. Gibb, III/                                   |
| Date:                   | 06/16/2017   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |

#### **Total Attachments: 2**

#### RECEIPT INFORMATION

**EPAS ID:** PAT4463404 **Receipt Date:** 06/16/2017

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PATENT REEL: 043069 FRAME: 0128

GF Ref. No.: IALB109-US-NP

|   | ED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN<br>TION USING AN APPLICATION DATA SHEET (37 CFR 1.76)   |  |
|---|---|--|
| Title of<br>Invention   | ACTIVE AREA SHAPES REDUCING DEVICE SIZE   |  |
|   | DECLARATION   |  |
| As the below  | named inventor. I hereby declare that:  |  |
| This declarati  |   |  |
|   | United States application or PCT international application number filed on  |  |
| The above-id  | entified application was made or authorized to be made by me.   |  |
| I believe that  | I am the original inventor or an original joint inventor of a claimed invention in the application.   |  |
|   | I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.                         |  |
| I have review<br>Trademark O  | red and understand the contents of the application and am aware of the duty to disclose to the US Patent and ffice all information known to me to be material to patentability as defined in 37 CFR § 1.56. |  |
|   | ASSIGNMENT  |  |
| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged. I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions. |   |  |
| If any portic<br>shall nevert   | on of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof reless remain in full force and effect.   |  |
| LEGAL NAI   | LEGAL NAME OF INVENTOR  |  |
| Inventor:   | Bipul C. Paul Date: 1/9/2017  |  |
| Signature   | - 12 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1  |  |
|   | lication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  nal form for each additional inventor.  |  |

PATENT REEL: 043069 FRAME: 0129

GF Ref. No.: IALB109-US-NP

| COMBINED DECLARATION 200 ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)  |
|--|
| Title of Invention ACTIVE AREA SHAPES REDUCING DEVICE SIZE   |
| DECLARATION  |
| As the below named inventor, I hereby declare that:  |
| This declaration   |
| United States application or PCT international application numberfiled on  |
| The above-identified application was made or authorized to be made by me.  |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.   |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.  |
| I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.   |
| ASSIGNMENT   |
| For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Inc. having a business address of PO Box 309, Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Paten and Applications, for the United States and all foreign countries, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.  If any portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. |
| LEGAL NAME OF INVENTOR   |
| Inventor: Kwan-Yong Lim Date: 12/23/20/6   |
| Signature:   |
| Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  Use an additional form for each additional inventor.   |

PATENT REEL: 043069 FRAME: 0130

**RECORDED: 06/30/2017**