502570387 11/15/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2616239

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| RANI ABOU GHAIDA | 10/14/2013 |
| AHMED MOHYELDIN | 10/08/2013 |
| PIYUSH PATHAK | 10/10/2013 |
| SWAMY MUDDU | 10/14/2013 |
| VITO DAI | 10/16/2013 |
| LUIGI CAPODIECI | 10/10/2013 |

RECEIVING PARTY DATA

| Name: | GLOBALFOUNDRIES INC. |
|-----------------|---|
| Street Address: | MAPLES CORPORATE SERVICES LIMITED P.O. BOX 309 UGLAND HOUSE |
| City: | GRAND CAYMAN |
| State/Country: | CAYMAN ISLANDS |
| Postal Code: | KY1-1104 |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 14080866 | |

CORRESPONDENCE DATA

Fax Number:

Phone: 703.519.9951

Email: docket@dcpatent.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: DITTHAVONG MORI & STEINER, P.C.

Address Line 1: 44 CANAL CENTER PLAZA

Address Line 2: SUITE 322

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| | DATENT |
|-------------------------|-----------|
| ATTORNEY DOCKET NUMBER: | P7325US00 |

■ PATENT 502570387 REEL: 031607 FRAME: 0834

\$40.00 14080866

| NAME OF SUBMITTER: | ANITA PELLMAN GROSS |
|--|-----------------------|
| Signature: | /Anita Pellman Gross/ |
| Date: | 11/15/2013 |
| Total Attachments: 6 source=EU210EU124_P7325US00_DeclarationAssignment_filed#page1.tif source=EU210EU124_P7325US00_DeclarationAssignment_filed#page2.tif source=EU210EU124_P7325US00_DeclarationAssignment_filed#page3.tif source=EU210EU124_P7325US00_DeclarationAssignment_filed#page4.tif source=EU210EU124_P7325US00_DeclarationAssignment_filed#page5.tif source=EU210EU124_P7325US00_DeclarationAssignment_filed#page6.tif | |

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS | |
|--|--|--|
| | DECLARATION | |
| As the below | named inventor, I hereby declare that: | |
| This declarated is directed to: | | |
| | 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 ackn fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment of not more than five (5) years, or both. | |
| I have review Trademark O | ed and understand the contents of the application and um 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 Maples Corporate Services Limited P.O. Box 309., Ugiand 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. | | |
| | n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof teless remain in full force and effect. | |
| LEGAL NA | AE OF INVENTOR | |
| inventor: | Rani ABOU GHAIDA Date: 10/14/2013 | |
| Signature: | The state of the s | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. 121 form for each additional inventor. | |

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS | |
|--|--|--|
| | DECLARATION | |
| As the below | named inventor, I hereby declare that: | |
| This declaration | | |
| | 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 Trademark O | ed 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 Maples Corporate Services Limited P.O. 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 portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. | | |
| | | |
| LEGAL NAM | ME OF INVENTOR | |
| Inventor: | Ahmed MOHYELDIN Date: 10/08/2013 | |
| Signature: | | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | |

84625460v3 **PATENT**

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS | | |
|--|--|--|--|
| W. W | DECLARATION | | |
| As the below | named inventor, I hereby declare that: | | |
| This declarati | 32 N | | |
| 22 (23 | 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 ackr fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment of not more than five (5) years, or both. | | |
| I have review Trademark O | 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 Maples Corporate Services Limited P.O. Box 309., Ugland House, Grand Cayman KYI-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 shall neverti | n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof seless remain in full force and effect. | | |
| LEGAL NA | ME OF INVENTOR | | |
| inventor: | Piyush PATHAK Date: 10/10/2013 | | |
| Signaturé | | | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | | |

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS |
|---|--|
| | DECLARATION |
| As the below | named inventor, I hereby declare that: |
| This declarati | |
| | United States application or PCT international application numberfiled 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. |
| | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by conment of not more than five (5) years, or both. |
| I have review Trademark O | ed 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 |
| hereby sell, a Limited P.O. entire right, ti may issue in continuation- inventions co and privilege recover and to | I and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I ssign, transfer, to GLOBALFOUNDRIES Inc. having a business address of Maples Corporate Services Box 309., Ugland House, Grand Cayman KY1-1104 its successors and assigns, absolutely and forever, my litle and interest in and to the invention listed above, together with the Application, any and all Patents that the United States and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the ntained in said Patents and Applications, for the United States and all foreign countries, and all the rights is relating thereto including but not limited to the priority rights arising from said Applications, the right to ake all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, atture infringement, and the right to apply for, take and maintain patents on said inventions. |
| | n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof seless remain in full force and effect. |
| | |
| LEGAL NAM | ME OF INVENTOR |
| Inventor: | Syamy MUDDU Date: 10 14 2013 |
| Signature: | Marine M. |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. 121 form for each additional inventor. |

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS | |
|--|--|--|
| | 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 ackn fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment 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 Maples Corporate Services Limited P.O. 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. | | |
| | n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof seless remain in full force and effect. | |
| 6 - \$25 P.Y. A. A 3. T. A. 3 | FC ON TARKEN TOID | |
| Inventor: | Vito DAI Date: (0/16/20/3 | |
| Signature: | | |
| | ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | |

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

| Title of Invention | DESIGN LAYOUT PATTERN CORRECTION FOR INTEGRATED CIRCUITS |
|---|--|
| | 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 ackn fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by onment of not more than five (5) years, or both. |
| I have review Trademark O | ed 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 Maples Corporate Services Limited P.O. Box 309., Ugland House, Grand Cayman KYI-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 portion of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof shall nevertheless remain in full force and effect. | |
| | ME OF INVENTOR Luigi CAPODIECI Date: (0 //0 / 2013 Luigi CAPODIECI Date: (0 //0 / 2013 |
| Notes An enn | iestion data sheet /PTO/SB/14 or conjugatest), including naming the entire inventive entity, must accompany this form. |

PATENT REEL: 031607 FRAME: 0841

RECORDED: 11/15/2013

Use an additional form for each additional inventor.