504073841 10/31/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4120508

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| GLOBALFOUNDRIES, INC. | 10/27/2016 |

RECEIVING PARTY DATA

| Name: | INTERNATIONAL BUSINESS MACHINES CORPORATION | | |
|-----------------|---|--|--|
| Street Address: | NEW ORCHARD ROAD | | |
| City: | ARMONK | | |
| State/Country: | NEW YORK | | |
| Postal Code: | 10504 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 15087074 | |

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: YOR920160174US1(163-1247) | |
|---|------------|
| NAME OF SUBMITTER: JAMES J. BITETTO | |
| SIGNATURE: | /jjb/ |
| DATE SIGNED: | 10/31/2016 |

Total Attachments: 3

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PATENT 504073841 REEL: 040516 FRAME: 0080

QUITCLAIM ASSIGNMENT

WHEREAS, International Business Machines Corporation, a New York corporation, located at Armonk, New York, United States of America (referred to as "IBM") and GlobalFoundries, Inc., a corporation organized and existing under the laws of the Country of Cayman Islands, having a place of business at PO Box 309, Ugland House, Grand Cayman KY1-1104 (referred to as "GF"), have joint ownership of the patent application(s) in Exhibit A. all patents which may issue therefrom, and all divisionals, reissues, counterparts, substitutions, continuations, re-examinations and extensions thereof which may be pending in or granted in the United States and in all foreign countries and jurisdictions (referred to as the "Applications");

WHEREAS, IBM desires to acquire the entire undivided right, title and interest as sole owner in said Applications;

WHEREAS, GF is desirous of assigning, via this Quitclaim Assignment, that portion of the entire right, title and interest that GF obtained, if any, to IBM, as sole owner; and

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, GF does hereby quitclaim, assign, transfer and set over unto IBM, its successors, legal representatives and assigns, that portion of the entire right, title, and interest that GF obtained and that GF may still have, in, to or under the Applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed to the extent claiming priority from the Applications in any country or countries foreign to the United States, and all Letters Patent which may be granted for said applications in any country or countries foreign to the United States and all extensions, renewals and reissues thereof (the "Family Members"), subject to all rights that may have been granted by GF under the Applications and Family Members to third parties; and GF hereby authorizes and requests, that the Commissioner of Patents of the United States, 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 Applications to IBM, their successors, legal representatives and assigns, as sole owner in accordance with the terms of this instrument.

AND, as consideration for the assignment of rights from GF hereunder, IBM hereby releases GF and its Subsidiaries from any potential past, present and future liability that may arise from any previous assignments of any portion or the entire right, title, and interest in, to or under said Applications to GF.

This transfer and assignment is effective as of the day upon which this Quitclaim Assignment is signed by the parties to so sign, as indicated on the signature block.

PATENT REEL: 040516 FRAME: 0081 IN WITNESS WHEREOF, the parties hereto have executed this Patent Assignment by its respective duly authorized officer in their respective corporate names.

| TO THE STATE OF TH | GlobalFoundries, Inc. | |
|--|--|--|
| International Business Machines | A BADELSCHE ARRESTER BCO & WORCO | |
| Corporation | \bigcirc $/$ \nearrow . | |
| By Lua M Regan | By Cund | |
| Name: Lisa Regan | Name: David Cain | |
| Name. Lisa Regain | | |
| Title: Director, Research and Intellectual Property | Title: Senior Counsel, Globalfoundries, Inc. | |
| Finance, IBM Corporation | | |
| Date: $10/24/16$ | Date: 10/27/16 | |
| I | | |

PATENT REEL: 040516 FRAME: 0082

EXHIBIT A

| USSN: | Application Filing Date | IBM Docket No. | GF Docket No. |
|------------|--------------------------------|-----------------|---------------|
| 15/087,074 | March 31, 2016 | YOR920160174US1 | IALB077 |

PATENT REEL: 040516 FRAME: 0083

RECORDED: 10/31/2016