503795815 04/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3842462

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRUCE B. DORIS	11/24/2015
HONG HE	01/16/2012
SIVANANDA K. KANAKASABAPATHY	11/25/2015
GAURI KARVE	11/23/2015
FEE LI LIE	11/23/2015

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:	15135850

CORRESPONDENCE DATA

Fax Number: (404)607-9981

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: 4046079991

Email: USPTOPATENTMAIL@CANTORCOLBURN.COM

Correspondent Name: CANTOR COLBURN LLP Address Line 1: 20 CHURCH STREET

Address Line 2: 22ND FLOOR

Address Line 4: HARTFORD, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	FIS920150210US3
NAME OF SUBMITTER: BLAKE I. DORR	
SIGNATURE:	/BID/
DATE SIGNED:	04/22/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 038355 FRAME: 0705

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Total Attachments: 8	
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PATENT REEL: 038355 FRAME: 0706

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: FINFET DEVICE WITH CHANNEL STRAIN

As a below named and undersigned inventor, I hereby declare that:
This declaration is directed to the attached application, or (if following box is checked):
United States application or PCT international application number
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 have reviewed and understand the contents of the application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.
Whereas I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referre

to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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.

(1)	Legal Name of Inventor: BRUCE B. DORIS		
	Signature: Legal Name of Inventor: HONG HE	Date:	11/24/2013
	Signature:	Date:	
(3)	Legal Name of Inventor: SIVANANDA K. KANAKASABAPATHY		
	Signature:	Date:	
(4)	Legal Name of Inventor: GAURI KARVE		
	Signature:	Date:	
(5)	Legal Name of Inventor: FEE LI LIE		
	Signature:	Date:	

Page 2 of 2

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United States application or PCT international application number
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Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

IBM Docket Number provided above in the header of this document:

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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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.

(1) Legal Name of Inventor: BRUCE E	B. DORIS
Signature:	Date:
(2) Legal Name of Inventor: HONG H	E
Signature:	Date;
(3) Legal Name of Inventor: SIVANAI Signature:	NDA K. KANAKASABAPATHY Date: 11 25 2015
(4) Legal Name of Inventor: GAURI F	KARVE
Signature:	Date:
(5) Legal Name of Inventor: FEE LI L	JE
Signature:	Date:

Page 2 of 2

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The above-identified application was made or authorized to be made by me.
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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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(1) Legal Name of Inventor: BRUCE B. DORIS	
Signature:	Date:
(2) Legal Name of Inventor: HONG HE	
Signature:	Date:
(3) Legal Name of Inventor: SIVANANDA K. KANAKASABAPATHY	
Signature:	Date:
(4) Legal Name of Inventor: GAURI KARVE	
Signature:	Date:
(5) Legal Name of Inventor: FEE LI LIE	
Signature:	Date: 11/23/2015

Page 2 of 2



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Agreement Regarding Confidential Information, Intellectual Property, and Other Matters

In consideration of my employment or my continued employment by International Business Machines Corporation or one of its subsidiaries or affiliates (collectively, "IBM"), which I acknowledge is employment at will, and the payment to me of a salary or other compensation during my employment, I agree as follows:

1. I will not, without IBM's prior written permission, disclose to anyone outside of IBM or use in other than IBM's business, either during or after my employment, any confidential information or material of IBM, or any information or material received by IBM in confidence from third parties, such as suppliers or customers. If I leave the employ of IBM or at the request of IBM, I will return to IBM all property in my possession belonging to IBM or received by IBM from any third party, whether or not containing confidential information and whether stored on an IBM owned asset or a personally owned asset, including, but not limited to, electronic data, electronic files, diskettes and other storage media, drawings, notebooks, reports, and any other hard copy or electronic documents or records.

Confidential information or material of IBM is any information or material: (a) generated or collected by or utilized in the operations of IBM, received from any third party, or suggested by or resulting from any task assigned to me or work performed by me for or on behalf of IBM, and (b) which has not been made available generally to the public, whether or not expressed in a document or other medium and whether or not marked "IBM Confidential" or with any similar legend of IBM or any third party. Confidential information or material may include, but is not limited to, information and material related to past, present and future development, manufacturing activities, or personnel matters; marketing and business plans; technical specifications, drawings, and designs; prototypes; computer programs; and databases.

- 2. During my employment with IBM and for two years following the termination of my employment for any reason, I will not directly or indirectly hire, solicit or make an offer to any employee of IBM to be employed or perform services outside of IBM. Also, I agree that during my employment with IBM and for one year following the termination of my employment for any reason, I will not directly or indirectly, solicit, for competitive business purposes, any customer of IBM with which I was involved as part of my job responsibilities during the last year of my employment with IBM. I acknowledge that IBM would suffer irreparable harm if I fail to comply with the foregoing, and that IBM would be entitled to any appropriate relief, including money damages, equitable relief and attorneys' fees.
- 3. I will not disclose to IBM, use in its business, or cause it to use, any information or material which is confidential to any third party unless authorized by IBM. In addition, I will not incorporate into any product used and/or sold by IBM, any copyrighted materials of any third party, unless authorized by IBM.
- 4. I will comply, and do all things necessary for IBM to comply, with (a) the laws and regulations of all governments under which IBM does business, (b) the provisions of contracts between any such government or its contractors and IBM that relate to intellectual property or to the safeguarding of information, and (c) IBM's corporate directives, including policies, issued from time to time as well as the IBM Business Conduct Guidelines as amended
- 5. I hereby assign to IBM my entire right, title, and interest in any idea, concept, technique, invention, design (whether the design is ornamental or otherwise), computer programs and related documentation, other works of authorship, mask works, and the like (all hereinafter called "Developments"), hereafter made, conceived, written, or otherwise created solely or jointly by me, whether or not such Developments are patentable, subject to copyright protection or susceptible to any other form of protection which: (a) relate to the actual or anticipated business or research or development of IBM or its subsidiaries or (b) are suggested by or result from any task assigned to me or work performed by me for or on behalf of IBM or its subsidiaries.

In the case of any "other works of authorship", such assignment shall be limited to those works of authorship which meet both conditions (a) and (b) above.

Excluded are any Developments that I cannot assign to IBM because of prior agreement with ____

California Notice: For Developments subject to California law, notwithstanding anything above to the contrary, I understand that this assignment does not apply to a Development which qualifies fully under the provisions of Section 2870 of the California Labor Code.

The above provisions concerning assignment of Developments apply to Developments created while I am employed by IBM in an executive, managerial, professional, product or technical planning, technical, research, programming, or engineering capacity (including development, product, manufacturing, systems, applied science, and field engineering).

which is effective until	None	(Give name and date or write "none").
		al property right in designs, computer programs and related documentation, and other works obelong to IBM by operation of law.
Department; and (b) I will, on IE	BM's request, promptly exe	by Paragraph 5: (a) I will promptly disclose them in writing to the IBM Intellectual Property Law soute a specific assignment of title to IBM or its designee, and do anything else reasonably atent, copyright or other form of protection therefor in the United States and in other countries.

In addition, I agree to promptly notify the IBM Intellectual Property Law Department in writing of any patent or patent application in which I am an Inventor but which is not assigned by Paragraph 5 and which discloses or claims any Development made, conceived, or written while I am employed by

7. IBM and its licensees, successors, or assigns (direct or indirect) are not required to designate me as an author of any Development which is subject to Paragraph 5, when it is distributed, publicly or otherwise, or to secure my permission to change or otherwise alter its integrity. I hereby waive and release, to the extent permitted by law, all rights in and to such designation and any rights I may have concerning modifications of such Developments.

I understand that any rights, waivers, releases, and assignments herein granted and made by me are freely assignable by IBM and are for the benefit of IBM and its subsidiaries, licensees, successors, and assigns.

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Updated March 2011

PATENT REEL: 038355 FRAME: 0713



Agreement Regarding Confidential Information, Intellectual Property, and Other Matters

8. I have identified all Developments not assigned by F conceived solely or jointly by me, or written wholly or in	Paragraph 5 in which I have any right, title, n part by me, but neither published nor file	or interest, and which were previou d in any patent office.	usly made or ルシル
If I do not have any to identify, I have written "none	e" on this line:	MP	
9. I consent to IBM (or authorized services providers of such as my name, photo, contact information, career of limitation, its online directories) anywhere in the world	development and skills, in internal and exte		
IBM provides numerous opportunities for social compa with all IBM policies and practices regarding use of so social computing tools (whether on IBM's internal platf information, may be made broadly available to others,	cial computing tools and I understand that forms or on third party sites) and that any it	I am personally responsible for the nformation I post, including any of r	content I post on any
10. The term "subsidiaries", as used in this Agreement International Business Machines Corporation.	t, includes any entity owned or controlled,	directly or indirectly, by	
11. The term "employment at will", as used in this Agre IBM or I can terminate the employment relationship at	eement, means the employment at the mul will, at any time, with or without cause or a	tual consent of both me and IBM. Andvance notice.	ccordingly, either
12. This Agreement supersedes all previous oral or wr the subject matter hereof. Any waiver of a term in this Senior Vice President of Human Resources for Interna-	Agreement and any amendment to this Ag	reement may only be made in a wr	
13. This Agreement shall be governed by the laws of t provision of this Agreement is unenforceable at law, the		ecuted and fully performed within su	uch state. If any
14. I recognize that any violation of my obligations des appropriate relief for IBM including money damages, e		on, including dismissal from IBM, a	nd any other
My agreement, and my acknowledgment of receipt of	a copy of this Agreement, are indicated by	my signature below.	
Hong Hg Employee's Rull Name (please print)	Imphe	900198	1/16/12
Employee's रियी Name (please print)	Employee's Signature	Employee Serial	Date
(If you have entered "none" in Paragraph 8, do not fill a	in this section.)		
The following are Developments not covered by Paragether wholly or in part by me, but neither published no		nterest, and which were previously	conceived or written
Description of Documents (if applicable):			
Title on Document	Date on Document	Name of Witness on Docu	ment
A CONTRACTOR OF THE CONTRACTOR	Circu		
	Sign	ed: Employee's Full Name	
	De	ate:	
(It is in your interest to establish that any of the above	were made, conceived, or written before v	our employment by IBM. You shou	ld not disclose them
in detail, but identify them only by the titles and dates of Intellectual Property and Licensing Department at Con	of documents describing them. If you wish	to interest IBM in any of them, you	may contact the
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Updated March 2011

PATENT REEL: 038355 FRAME: 0714

RECORDED: 04/22/2016