503973127 08/23/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
KARTHIK BALAKRISHNAN	01/25/2016	
POUYA HASHEMI	01/25/2016	
SANGHOON LEE	01/25/2016	
ALEXANDER REZNICEK	01/25/2016	

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:	15242659			

CORRESPONDENCE DATA

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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.

Email: uspatents@shimokaji.com

Correspondent Name: IBM - YOR (SHIMOKAJI & ASSOCIATES, P.C.)

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ATTORNEY DOCKET NUMBER:	YOR920151457US2(232-0471A
NAME OF SUBMITTER:	DANIEL M. NORTHFIELD
SIGNATURE:	/DANIEL M. NORTHFIELD/
DATE SIGNED:	08/23/2016

Total Attachments: 8

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Title of Invention: HYBRID ORIENTATION VERTICALLY STACKED III- V AND GE GATE-ALL-AROUND CMOS

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	d State	es ap	plic	ation	or P	CT interna	ational a	pplic	catio	ท ทน	mber			
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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 C.F.R. § 1.56.

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 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 filling 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: Karthik Balakrishnan
Signa	sture: KanW Mill
Date:	1/25/2016
(2)	Legal Name of Inventor: Pouya Hashemi
Signa	dure:
Date:	
(3)	Legal Name of Inventor: Sanghoon Lee
Signa	iture:
Date:	
(4)	Legal Name of Inventor: Alexander Reznicek
Signa	fure:
Date:	

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This de	claration is directed to the atta	ached application, or (if following box is	checked):
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(1) Legal Name of Inventor: Karthik Balakrishnan	
Signature:	
Date:	
(2) Legal Name of Inventor: Pouya Hashemi Signature: Rapadologom: A =	
Date: 1/25/2016	
(3) Legal Name of Inventor: Sanghoon Lee	
Signature:	
Date:	
(4) Legal Name of Inventor: Alexander Reznicek	
Signature:	
Date:	

Title of Invention: HYBRID ORIENTATION VERTICALLY STACKED III- V AND GE GATE-ALL-AROUND CMOS

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Signature:
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Signature:
Date:01/25/2016
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Signature:
Date:

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(1)

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Date	
(2)	Legal Name of Inventor: Pouya Hashemi
Signa	ature:
Date	
(3) Signi	Legal Name of Inventor: Sanghoon Lee ature:
Date	
(4)	
Signa	ature: Hustandio 4 Dan 25, 2016

PATENT REEL: 039511 FRAME: 0965

RECORDED: 08/23/2016