506058974 05/14/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6105688

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CURTIS CHUN-I HSIEH	05/08/2020
WEI-HUI HSU	05/08/2020
WANBING YI	05/08/2020
YI JIANG	05/08/2020
KAI KANG	05/08/2020
JUAN BOON TAN	05/12/2020

RECEIVING PARTY DATA

Name:	GLOBALFOUNDRIES SINGAPORE PTE. LTD.
Street Address:	60 WOODLANDS INDUSTRIAL PARK D STREET 2
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	738406

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15931607

CORRESPONDENCE DATA

Fax Number:

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: +65 66701456

Email: ippg@globalfoundries.com

Correspondent Name: GLOBALFOUNDRIES SINGAPORE PTE. LTD.

Address Line 1: 60 WOODLANDS INDUSTRIAL PARK D STREET 2

Address Line 4: SINGAPORE, SINGAPORE 738406

ATTORNEY DOCKET NUMBER:	GFSG2020004-US-NP
NAME OF SUBMITTER:	DAVID CAIN
SIGNATURE:	/David Cain/
DATE SIGNED:	05/14/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 052656 FRAME: 0528

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Total Attachments: 6 source=GFSG2020004-US-NP_ExecutedAssignment#page1.tif

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

TTY A C	RESISTIV	E RANDOM ACCESS	MEMORY DEVICES
Title of Invention			
		DECI	ARATION
As the below	named inventor	r, I hereby declare that:	
This declarati	This declaration		
	1	United States application or F	CT international application number filed on
The above-ide	entified applica	tion was made or authorized	o be made by me.
I believe that	I am the origina	nl inventor or an original join	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.			
			ation and am aware of the duty to disclose to the US Patent and rial to patentability as defined in 37 CFR § 1.56.
		ASSI	GNMENT
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 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.			
		oined Declaration or Assign tull force and effect.	ment is held unenforceable, then remaining portions hereof
Sama novel th	TOOS TOMANI II	- and to the tile to	
LEGAL NAN	ME OF INVENT	ГOR	
Inventor:	KANG, KA	AI	Date: 8th-May 2020
Signature:		Kang Kai	
Note: An appli	ication data sheet	(PTO/SB/14 or equivalent), incl	uding naming the entire inventive entity, must accompany this form.

PATENT REEL: 052656 FRAME: 0530

Use an additional 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)

	RESISTIVE RANDOM ACCESS MI	EMORY DEVICES
Title of Invention		
	DECLARA	ATION
As the below	named inventor, I hereby declare that:	
This declarati	V V **	
	United States application or PCT i	nternational application number filed on
The above-ide	entified application was made or authorized to be	made by me.
I believe that	I am the original inventor or an original joint inve	entor 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.		
	yed and understand the contents of the application of the application known to me to be material to	and am aware of the duty to disclose to the US Patent and o patentability as defined in 37 CFR § 1.56.
	ASSIGNN	1ENT
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 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:	YI, WANBING	Date: 8-May, 2020
Signature:	Namb : V G	
Note: An appli	lication data sheet (PTO/SB/14 or equivalent), including	naming the entire inventive entity, must accompany this form.

PATENT REEL: 052656 FRAME: 0531

Use an additional form for each additional inventor.

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	RESISTIVE RANDOM ACCESS MEMORY DEVICES
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As the below	named inventor, I hereby declare that:
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	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.
sell, assign, Industrial Par interest in an United States parts, division contained in privileges rel recover and to present and fu	valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands k D Street 2, Singapore 738406 its successors and assigns, absolutely and forever, my entire right, title and dt to the invention listed above, together with the Application, any and all Patents that may issue in the and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-innals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions said Patents and Applications, for the United States and all foreign countries, and all the rights and ating 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. In of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
Inventor:	ME OF INVENTOR MSU, WEI-HUI Date: 08/May/2020

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.

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I have reviewed and understand the contents of the application and am aware of the duty to Trademark Office all information known to me to be material to patentability as defined in	
ASSIGNMENT	
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, transfer, to GLOBALFOUNDRIES Singapore Pte. Ltd. having a business address of 60 Woodlands Industrial Park D Street 2, Singapore 738406 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.	
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LEGAL NAME OF INVENTOR	
Inventor: JIANG, YI Date: 8 May 2	020
Signature: Signature:	-

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	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
LEGAL NAM	ME OF INVENTOR
Inventor:	HSIEH, CURTIS CHUN-I Date : 8/May/2020
Signature:	
Note: An appl	ication 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.

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The above-ide	ntified application was made or authorized to be made by me.
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	of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
LEGAL NAM	IE OF INVENTOR
Inventor:	TAN, JUAN BOON Date: 12 MAY 2020
Signature:	29 <u>-</u>

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.