505627053 08/19/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5673857

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIA JIE XIA	08/14/2019
RANGANATHAN NAGARAJAN	08/14/2019
BEVITA KALLUPALATHINKAL CHANDRAN	08/14/2019
MILES JACOB GEHM	08/14/2019

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:	16542347

CORRESPONDENCE DATA

Fax Number: (617)849-5451

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: globalfoundries@vjp.de

Correspondent Name: VIERING, JENTSCHURA & PARTNER MBB
Address Line 1: C/O 444 BRICKELL AVENUE, SUITE 51270

Address Line 4: MIAMI, FLORIDA 33131

ATTORNEY DOCKET NUMBER:	P116389US
NAME OF SUBMITTER:	NATALIE A. LEE
SIGNATURE:	/Natalie A. Lee, Reg.# 67,023/
DATE SIGNED:	08/16/2019

Total Attachments: 4

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PATENT 505627053 REEL: 050084 FRAME: 0181

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

Title of	PIEZOELECTRIC MEMS DEVICES AND METHODS OF FORMING THEREOF
Invention	
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarati	on The attached application, or
	United States application or PCT international 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 inventor of a claimed invention in the application.
I hereby ackno	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
sell, assign, a Industrial Parl interest in an United States parts, division contained in privileges rela- recover and ta	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 d 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-intals 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, ture 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 eless remain in full force and effect.
LEGAL NAM	Æ OF INVENTOR
Inventor:	Jia Jie XIA Date: 14-Aug-2019
Signature:	Drafu to
Note: An appli	cation 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.

0400000 1

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	PIEZOELECTRIC MEMS DEVICES AND METHODS OF FORMING THEREOF
	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 comment 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 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-inparts, 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.	
	on of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof teless remain in full force and effect.
LEGAL NAI	ME OF INVENTOR
Inventor: Ranganathan NAGARAJAN Date: 14-A09-2019	
Signature:	Mary miles de la company de la
Note: An appl Use an additio	ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Bal form for each additional inventor.

PATENT REEL: 050084 FRAME: 0183

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	PIEZO	ELI	ECTRIC MEMS DEVICES AND METHODS OF FORMING THEREOF
			DECLARATION
As the below	named in	vent	or, I hereby declare that:
This declaration is directed to:	U^	X	The attached application, or
			United States application or PCT international application number filed on
The above-ide	entified ap	pplic	ation was made or authorized to be made by me.
I believe that	I am the	origii	nal inventor or an original joint inventor of a claimed invention in the application.
			my willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by more than five (5) years, or both.
			tand the contents of the application and am aware of the duty to disclose to the US Patent and nation known to me to be material to patentability as defined in 37 CFR § 1.56.
in the second se	¥ ¥ &		ASSIGNMENT
sell, assign, Industrial Par interest in an United States parts, division contained in privileges rea recover and t	transfer, k D Stree d to the and/or a nals or es said Pate ating the ake all su	to C et 2, inver ny fi ctens ents reto ich p	sideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby should be successored by the continuation of the property of the receipt and forever, my entire right, title and attion listed above, together with the Application, any and all Patents that may issue in the preign countries, and any reissues, re-examinations, renewals, continuations, continuation-informations thereof that may be issued or granted, and all right, title and interest to the inventions and Applications, for the United States and all foreign countries, and all the rights and including but not limited to the priority rights arising from said Applications, the right to proceedings as may be necessary for the recovery of damages or otherwise in respect of past, nent, and the right to apply for, take and maintain patents on said inventions.
			bined Declaration or Assignment is held unenforceable, then remaining portions hereof in full force and effect.

LEGAL NAS	AE OF IN	ivei	· 6
Inventor:	Bevita I	KAL	LUPALATHINKAL CHANDRAN Date: 14/8/2019
Signature:	(Bei)	g son gr	
Note: An appl	ication dat	a she	et (PTO/SB/14 ar 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	PIEZOELECTRIC MEMS DEVICES AND METHODS OF FORMING THEREOF
	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.
	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.	
	ASSICNMENT
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-inparts, 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:	Miles Jacob GEHM Date: 14-Aug-2019
Signature:	
	ication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

RECORDED: 08/19/2019

PATENT REEL: 050084 FRAME: 0185