PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7492460

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK LEVY	10/02/2020
JEONGHYUN HWANG	10/06/2020
SIVA P. ADUSUMILLI	10/16/2020

RECEIVING PARTY DATA

Name:	GLOBALFOUNDRIES U.S. INC.
Street Address:	2600 GREAT AMERICA WAY
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17890446

CORRESPONDENCE DATA

Fax Number: (937)443-6635

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: 19374436600

Email: ipdocket@thompsonhine.com

THOMPSON HINE LLP **Correspondent Name:**

Address Line 1: 10050 INNOVATION DRIVE, SUITE 400

Address Line 4: MIAMISBURG, OHIO 45342-4934

ATTORNEY DOCKET NUMBER:	GF2020149-US-CNT
NAME OF SUBMITTER:	WILLIAM R. ALLEN
SIGNATURE:	/William R. Allen/
DATE SIGNED:	08/18/2022

Total Attachments: 3

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> **PATENT** REEL: 060842 FRAME: 0867

507445571

GF Ref. No.: GF2020149-US-NP

COMBINE	ED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)		
Title of Invention			
	DECLARATION		
As the below	named inventor, I hereby declare that:		
This declarated is directed to:			
	United States application or PCT international application number filed on		
The above-id	dentified 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.		
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nent of not more than five (5) years, or both.		
	ved and understand the contents of the application and am aware of the duty to disclose to the US Patent and 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 US Inc., having a business address of 2600 Great America Way, Santa Clara, CA 95054 U.S.A., 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.			
	on of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof heless remain in full force and effect.		
LEGAL NA	ME OF INVENTOR		
Inventor:	Mark Levy Date: 10/02/2020		
Signature:	: 201		
	lication data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. mal form for each additional inventor.		

PATENT REEL: 060842 FRAME: 0868

GF Baf, No.: GF2020149-US-NP

COMBINI	D DECLARATION and ASSICTMENT (37 CPM L63) FOR UTILITY ON DESIGN APPLICATION USEA SHEET (37 CFR 1.76)
Title of Inventors	DEVICE INTEGRATION SCHEMES LEVERAGING A BULK SEMICONDUCTOR SUBSTRATE HAVING A < LLI> CRYSTAL ORIENTATION
	DECLARATION
As the below	award invarior, I hereby declare that:
This declaration of the control of t	
	United Sortie application of PCT international application mumber fried on
The share of	calified opplication was made or authorized to be made by ma
I believe that	I am the original inventor or an original joint inventor of a claimed invention in the application.
Thereby sole or imprisone	owiedge that any willful felse statement made in this declaration is punishable under 16 U.S.C. 1001 by four ont of our more than five (S) years, or both.
Hane review Trademark ()	ed and understand the contents of the application and on aware of the duty to disclose to the US Patrill and the or in the US Patrill and the or in the test of the order of the patrillary as defined in 37 CFR § 1.56.
	V081454948461.8
bersby (ed.) a Santa Clara, i to the inventa any foreign c extensions (b) and Applicate but not limite may be neces	and valuable consideration, the recipt, sufficiency and allegancy of which are hereby acknowledged.) origin, travelor to GLOBALFOUNDINES LETTLE, having a business address of 2600 Great Anchor Way A 95054 U.S.A., its successors and assigns, absolutely and forever, my origin right, life and interest in and on intend above, together with the Application, any and all Parame that may reuse in the United States inside the intended of the Application, and all Parame that may reuse in the United States in the sounds of continuations, renewals, continuations, continuations contained in said Parame according to the the second or granted, and all right, life and interest to the governous contained in said Parame one, for the United States and all foreign countries, and all the rights and privrieges relating thereto metading due to the priority rights arising from said Applications, the right to receiver and take all such precedings as say for the receivery of damages or otherwise in respect of past, precedent and future introgenests, and the
Many portio Shall occupy)	e of this Combined Declaration or Assignment is held novelescentle, then remaining portious hereof disas remain in full force and effect.
LEGAL NAN	AR OF INVENTOR
Inventor:	Janghyun Honnig 1865 - 10 / 1/2 (20 top
Signature	24 2 July)
Note: As appl The model in	estim data short (FTO/NV14 or agairment), including arming the entire inventive solds, must seconquer this larm.

PATENT REEL: 060842 FRAME: 0869

GF Ref. No.: GF2020149-US-NP

COMBINE	D DECLAR	ATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)	
Title of Invention	DEVICE INTEGRATION SCHEMES BEVEROUND IN BOOK SEMICONDOCTOR		
		DECLARATION	
As the below	named inven	tor, I hereby declare that:	
This declarati	1/ \	The attached application, or	
		United States application or PCT international application number filed on	
The above-id	entified applic	cation was made or authorized to be made by me.	
I believe that	I am the origi	inal inventor or an original joint inventor of a claimed invention in the application.	
I hereby ackn or imprisonm	nowledge that nent of not mo	any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine are than five (5) years, or both.	
		stand the contents of the application and am aware of the duty to disclose to the US Patent and mation 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 US Inc., having a business address of 2600 Great America Way, Santa Clara, CA 95054 U.S.A., its successors and assigns, absolutely and forever, my entire right, title and interest in and			nitials:
		nbined Declaration or Assignment is held unenforceable, then remaining portions hereof in full force and effect.	
LEGAL NAM	ME OF INVE	NTOR	
Inventor:	Siva P. Adu	000001100112020	
Signature:	SivaPAdus	umilli	
		eet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	

RECORDED: 08/18/2022

PATENT

REEL: 060842 FRAME: 0870