505246395 12/20/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5293174

SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ					
			Name			Execution Date
BIN LIU						11/16/2018
ENG HUAT TOH						11/19/2018
SAMARTH AGARWAL						11/16/2018
RUCHIL KUMAR JAIN						11/16/2018
KIOK BOONE ELGIN QU	JEK					11/16/2018
RECEIVING PARTY DA Name:						
		_	UNDRIES SINGAPORE PT			
Street Address:			NDS INDUSTRIAL PARK -	DSIRE	EI 2	
City:	SINGAPORE					
State/Country:	SINGAPORE					
Postal Code:	738406					
PROPERTY NUMBERS	Total: 1					
Property Type			Number			
Application Number: 1622		5005				
CORRESPONDENCE D						
Fax Number:		• /	849-5451			
			e-mail address first; if tha nat is unsuccessful, it will			
Email:		-	llfoundries@vjp.de			
Correspondent Name:		VIER	ING, JENTSCHURA & PAF	RTNER	MBB	
Address Line 1:		C/O 4	144 BRICKELL AVENUE			
Address Line 2:		SUIT	E 51270			
Address Line 4:		MIAN	1I, FLORIDA 33131			
ATTORNEY DOCKET NU	JMBER:		P114678US			

ATTORNEY DOCKET NUMBER:	P114678US	
NAME OF SUBMITTER:	NATALIE A. LEE	
SIGNATURE:	/Natalie A. Lee, Reg.# 67,023/	
DATE SIGNED:	12/20/2018	
Total Attachments: 5		

Total Attachments: 5

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	ED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN FION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of Invention	MAGNETIC MEMORY DEVICES WITH MAGNETIC FIELD SENSING AND SHIELDING
	DECLARATION
As the below	named inventor, I hereby declare that:
This declarati	
is directed to:	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.
	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.
	ed and understand the contents of the application and am aware of the duty to disclose to the US Patent and flice all information known to me to be material to patentability as defined in 37 CFR § 1.56.
	ASSIGNMENT
sell, assign, Industrial Par interest in an United States parts, division contained in privileges rel recover and t	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 Paients that may issue in the and/or any foreign countries, and any reissues, re-examinations, renewals, continuations, continuation-in- nals 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, stare infringement, and the right to apply for, take and maintain patents on said inventions.
	a of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof eless remain in full force and effect.
LEGAL NAM	AE OF INVENTOR
Inventor:	Bin Liu Date: $16 N_{ov} 2218$
Signature:	CUER
	leation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. aal form for each additional inventor.

PATENT REEL: 047826 FRAME: 0540

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Title of Invention	MAGNETIC MEMORY DEVICES WITH MAGNETIC FIELD SENSING AND SHIELDING				
		D	ECLARATION		
As the below	named inver	ntor, I hereby declare that:			
This declarati		The attached application,	. ar		
is directed to:		United States application	or PCT international applic	ation number filed on	
The above-id	entified appl	ication was made or authori	zed to be made by me.		
I believe that	I am the orig	ginal inventor or an original	joint inventor of a claimed i	invention in the application.	
		t any willful false statement of more than five (5) years,		punishable under 18 U.S.C. 1001 by	
			oplication and am aware of fl material to patentability as d	he duty to disclose to the US Patent and lefined in 37 CFR § 1.56.	
		Å	ASSIGNMENT		
sell, assign, Industrial Par interest in an United States parts, division contained in privileges rel recover and t	transfer, to k D Street 2, d to the inv- and/or any nals or exten said Patents ating thereto ake all such	GLOBALFOUNDRIES S ention listed above, togeth foreign countries, and any nsions thereof that may be s and Applications, for the o including but not limited proceedings as may be need	ingapore Pte. Ltd. having ressors and assigns, absolute er with the Application, any reissues, re-examinations, ro issued or granted, and all r e United States and all for I to the priority rights arisin	hich are hereby acknowledged, I hereby a business address of 60 Woodlands dy and forever, my entire right, title and y and all Patents that may issue in the enewals, continuations, continuation-in- ight, title and interest to the inventions reign countries, and all the rights and ng from said Applications, the right to lamages or otherwise in respect of past nts on said inventions.	
		mbined Declaration or As n in full force and effect.	signment is held unenforce	able, then remaining portions hereof	
LEGAL NAM	ME OF INVE	ENTOR			
	1991 - 1992 - 1949	Tòh	Date :	19 1434 2018	
Inventor:	Eng Huat T	<u>0, 357 E</u>			

PATENT REEL: 047826 FRAME: 0541

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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)

Title of Invention	MAGNETIC MEMORY DEVICES WITH MAGNETIC FIELD SENSING AND SHIELDING				
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This declarati is directed to:	This declaration The attached application, or is directed to:				
	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.				
	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fue or imprisonment 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, Industrial Par interest in an United States parts, division contained in privileges rel- recover and to	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 relssues, re-examinations, renewals, continuations, continuation-in- nals 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.				
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	IE OF INVENTOR				
Inventor:	Samarth Agarwal Date : 16th Nov 2018				
Signature:	Samasth Agarun >				
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, al form for each additional inventor.				

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GF SG Ref. No.: KSG050

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

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	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.		
Thave review Trademark O	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.		
	ASSIGNMENT		
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	n of this Combined Declaration or Assignment is held unenforceable, then remaining portions hereof seless remain in full force and effect.		
LEGAL NA	ME OF INVENTOR		
Inventor:	Ruchil Kumar Jain Date : 16 ⁷⁸ Nov. 2018		
Signature	Theches Marine		
	ication data sheet (FTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. nal form for each additional inventor.		

	CD DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN FION USING AN APPLICATION DATA SHEET (37 CFR 1.76)				
Title of Invention	MAGNETIC MEMORY DEVICES WITH MAGNETIC FIELD SENSING AND SHIELDING				
	DECLARATION				
As the below	named inventor, I hereby declare that:				
This declarati	on The attached application, or				
is directed to:	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 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.				
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-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions for the United States and all foreign countries, 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.					
	n 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:	Kick Boone Elgin Quek Date : 16/11/18				
Signature:	Station				
	cation data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. al form for each additional inventor.				

RECORDED: 12/20/2018

PATENT REEL: 047826 FRAME: 0544