PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5280880

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the RECEIVING PARTY NAME. previously recorded on Reel 047664 Frame 0869. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
KONSTANTINOS GERASOPOULOS	11/09/2018
RAMA VENKATASUBRAMANIAN	11/09/2018
MEKBIB ASTATKE	10/17/2018

RECEIVING PARTY DATA

Name:	JOHNS HOPKINS UNIVERSITY
Street Address:	34TH AND CHARLES STREET
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21218

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16162770

CORRESPONDENCE DATA

Fax Number: (240)228-5254

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.

240-228-5632 Phone:

Email: eileen.sorensen@jhuapl.edu

Correspondent Name: SUNG T. KIM

Address Line 1: 11100 JOHNS HOPKINS ROAD

Address Line 2: M/S 7-127

Address Line 4: LAUREL, MARYLAND 20723-6099

ATTORNEY DOCKET NUMBER:	4284-SPL
NAME OF SUBMITTER:	SUNG T. KIM
SIGNATURE:	/Sung T. Kim/
DATE SIGNED:	12/13/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
	·

Total Attachments: 5

PATENT REEL: 049014 FRAME: 0495

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PATENT REEL: 049014 FRAME: 0496 Assignment Page 1 of 2

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KONSTANTINOS GERASOPOULOS	11/09/2018
RAMA VENKATASUBRAMANIAN	11/09/2018
MEKBIB ASTATKE	10/17/2018

RECEIVING PARTY DATA

Name:	JOHNS HOPKINS UNIVERSITUY
Street Address:	34TH AND CHARLES STREET
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21218

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16162770

CORRESPONDENCE DATA

 Fax Number:
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 Phone:
 240-228-5632

Email: eileen.sorensen@jhuapl.edu

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provided; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: SUNG T. KIM

Address Line 1: 11100 JOHNS HOPKINS ROAD

Address Line 2: M/S 7-127

Address Line 4: LAUREL, MARYLAND 20723-6099

ATTORNEY DOCKET NUMBER:	4284-SPL

NAME OF SUBMITTER:	SUNG T. KIM
Signature:	/Sung T. Kim/
Date:	12/04/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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RECEIPT INFORMATION

EPAS ID: PAT5264413 **Receipt Date**: 12/04/2018

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

Title of Invention	Microfluidic Device with Localized Temperature Control	
As the below name	ed inventor, I hereby declare that:	
This declaration is directed to:	The attached application, or United States application or PCT international application number 16/162,770 filed on October 17, 2018.	
The above-identifi	ed 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.	
-	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nment of not more than five (5) years, or both.	
WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest in and to said invention and to any Letters Patent that may be generated therefore in the United States and its territories and in any and all foreign countries.		
to the ASSIGNEE and in all foreign of granted for said in	RE, in consideration of my employment by the ASSIGNEE, I do hereby sell, assign and transfer the entire right, title and interest in and to said invention in the United States and its territories countries and the entire right, title and interest in and to any and all Letters Patent which may be vention in the United States and its territories and in any and all foreign countries and in and to ns, reissues, continuations, substitutions and renewals thereof.	
I hereby authorize and request the Patent Office Officials in the United States and its territories and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted.		
I hereby further agree to make, execute and deliver to the ASSIGNEE, its successors, assigns and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any divisions, reissues, continuations, substitutions and renewals of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns and legal representatives in every way in protecting said invention as may be requested, provided, however that I shall not have to pay any expenses arising from extending such assistance.		
LEGAL NAME O	F INVENTOR	
Inventor: Konsta	antinos Gerasopoulos	
Signature:	Date: 11/09/18	
	JHU/APL Docket No.: 4284-SPL	

PATENT REEL: 049014 FRAME: 0499

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

Title of Invention	Microfluidic Device with Localized Temperature Control			
As the below named inventor, I hereby declare that:				
This declaration is directed to:	The attached application, or United States application or PCT international application number 16/162,770 filed on October 17, 2018.			
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 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.				
WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest in and to said invention and to any Letters Patent that may be generated therefore in the United States and its territories and in any and all foreign countries.				
NOW, THEREFORE, in consideration of my employment by the ASSIGNEE, I do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted for said invention in the United States and its territories and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.				
I hereby authorize and request the Patent Office Officials in the United States and its territories and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted.				
I hereby further agree to make, execute and deliver to the ASSIGNEE, its successors, assigns and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any divisions, reissues, continuations, substitutions and renewals of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns and legal representatives in every way in protecting said invention as may be requested, provided, however that I shall not have to pay any expenses arising from extending such assistance.				
LEGAL NAME O	F INVENTOR			
Inventor: Rama	Venkatasubramanian			
Signature:	Date: 11/9/2018			
V	IHII/API, Docket No.: 4284-SPL			

PATENT REEL: 049014 FRAME: 0500

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

Title of Invention	Microfluidic Device with Localized	Cemperature Control		
As the below nam	ed inventor, I hereby declare that:			
This declaration is directed to:	The attached application, or X United States application or PCT inter filed on _October 17, 2018	national application number $\underline{-16/162},$	770	
The above-identif	ed application was made or authorized to	be made by me.		
I believe that I am	the original inventor or an original joint i	nventor of a claimed invention in the sp	oplication.	
I hereby acknowle by fine or impriso	dge that any willful false statement made nment of not more than five (5) years, or b	in this declaration is punishable under oth.	18 U.S.C. 1001	
WHEREAS. The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest in and to said invention and to any Letters Patent that may be generated therefore in the United States and its territories and in any and all foreign countries.				
to the ASSIGNEE and in all foreign o granted for said in	RE, in consideration of my employment be the entire right, title and interest in and to ountries and the entire right, title and interestion in the United States and its territorus, reissues, continuations, substitutions and the continuations.	said invention in the United States and rest in and to any and all Lefters Patent ies and in any and all foreign countries	its territories which may be	
foreign countries to entire right, title ar	and request the Patent Office Officials in bissue any and all of said Letters Patent, s id interest in and to the same, for the sole is end of the term for which said Letters Pate	when granted, to said ASSIGNEE as the use and behoof of said ASSIGNEE, its	assignee of my	
representatives, up statements or other United States or fo said application, or assigns and legal re	ree to make, execute and deliver to the ASIOn request but at the expense of the ASSIO instruments that may be necessary in the reign applications, and of any divisions, reapplications for reissues of said Letters Pepresentatives in every way in protecting set to pay any expenses arising from extending	SNEE, any and all papers, documents, in prosecution of the aforesaid application rissues, continuations, substitutions and atents, and to aid the ASSIGNEE, its substitution as may be requested, provided invention as may be requested.	affidavits, i, and of any I renewals of iccessors,	
LEGAL NAME O	INVENTOR			
Inventor: Mekbii	Astatke			
Signature: //	-ual	Date: 10/17/2018		
		4284-SPL		

PATENT REEL: 049014 FRAME: 0501

RECORDED: 12/13/2018