504112371 11/28/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4159041 Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADITYA RAJAGOPAL	02/21/2013
SAMSON CHEN	02/22/2013
AXEL SCHERER	02/28/2013
CHRISTOPHER I. WALKER	05/01/2013

RECEIVING PARTY DATA

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State/Country:	CALIFORNIA
Postal Code:	91125

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15360691

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NAME OF SUBMITTER: BRIAN J. CASH

SIGNATURE: /Brian J. Cash, Reg. No. 60,546/

DATE SIGNED: 11/28/2016

Total Attachments: 5

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ASSIGNMENT

We, Aditya RAJAGOPAL, residing in the United States with a mailing address at 27 Lee, Irvine, CA 92620,

Samson CHEN, residing in the United States with a mailing address at 150-13 26th Ave, 1st floor, Flushing, NY 11354,

Axel SCHERER, residing in the United States with a mailing address at 1661 North Road, Barnard, VT 05031, and

Christopher I. WALKER, residing in the United States with a mailing address at 224 Seale Ave, Palo Alto, CA 94301,

hereby sell and assign for good and valuable consideration, the receipt of which we hereby acknowledge,

to CALIFORNIA INSTITUTE OF TECHNOLOGY, an entity having its principal place of business in the United States at 1200 E. California Blvd. M/C 210-85, Pasadena, CA 91125

hereinafter referred to as the assignee, its successors, assigns and nominees, our entire right, title and interest, including all priority rights under U.S. law and/or International conventions and treaties, in and to the "PC BOARD-BASED POLYMERASE CHAIN REACTION SYSTEMS, METHODS AND MATERIALS"

invented by us, as described and/or claimed in U.S. Provisional Application No. 61/597,554, filed on February 10, 2012, in the corresponding U.S. Patent Application No. 13/763,352, filed on February 8, 2013, and in any other related patent applications filed and/or to be filed not only for, to and in the United States of America its territories and possessions, but also for, to and in all other countries, including any and all divisions, reissues, continuations, continuations-in-part and extensions of said U.S. Patent Application and any and all International patent applications related to said U.S. Provisional Application No. 61/597,554 and/or U.S. Patent Application No. 13/763,352, and authorize and

request any officials whose duty it is to issue patents, to issue any patent on said "PC BOARD-BASED POLYMERASE CHAIN REACTION SYSTEMS, METHODS AND MATERIALS" and/or improvements thereof or resulting therefrom to said assignee or its successors, assigns or nominees, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at	PASADENA, CA	ust
On 02 21 2013 Date	City	Country
,	Inventor Name: <u>Aditya</u>	RAJAGOPAL
	Inventor Signature/	Marc
Witnessed by:	V	
Witness Name: <u>CHANG, Ch</u>	jek-feng Signature (Chot by Chen
Witness Name: <u>Andrew Ho</u>		

PATENT

REEL: 040434 FRAME: 0195

Subscribed and executed at_	Pasadena, CA	USA
on 02/22/2013	Citý	Country
Date	Inventor Name: <u>Sam</u>	son CHEN
	Inventor Signature_	medel
Witnessed by:		
Witness Name: William do	Santo Carblisignature	William Forzido
Witness Name: William do	JAWAYALL Signature	DAMUCK

	- Under the first the first that the	
Subscribed and executed at		
	City	Country
On Date		
	Inventor Name: Axel	SCHERER
,	Inventor Signature	
Witnessed by:		
Witness Name:	Signature_	***************************************
Witness Name:	Signature	

Subscribed and executed at		
On	City	Country
On Date		
	Inventor Name: Samson CHEN	
		A CONTRACT OF THE PROPERTY OF
	Inventor Signature	
Witnessed by:		
Witness Name:	Signature	
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Subscribed and executed at	MANADENA	USH
on 2 /28/13	City	Country
Date /		
	Inventor Name: Axel SC	HERER
	Inventor Signature	xel Schew
Vitnessed by:		
Mitaga Nama		1/ 1/
Vitness Name: <u>Xiomana (</u>	<u> </u>	/ Hot
Vitness Name: Erika Ga	V4/4 Signature	and on

Subscribed and executed at	Palo Alto, CA	u.s.
on5/1/2013	City	Country
Date	Inventor Name: Christop	oher I. WALKER
	Inventor Signature	22
Witnessed by:		0 1
Witness Name: <u>JAMES</u> T	WALKERSignature L	emes TWalker
,	. WalkerSignature_	IN. Wille

PATENT REEL: 040434 FRAME: 0198

RECORDED: 11/28/2016