502749537 04/02/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2796133

SUBMISSION TYPE:	NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE	ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DATA			
	Name	Execution Date	
JEFFREY A. JOHNSON		08/20/2012	
WALID M. HENEINE		08/20/2012	
RECEIVING PARTY DATA			
	THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE		

	SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
Street Address:	6011 EXECUTIVE BLVD.
Internal Address:	SUITE 325
City:	ROCKVILLE
State/Country:	MARYLAND
Postal Code:	20852-3804

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14059085

CORRESPONDENCE DAT	A	
Fax Number:	(734)913-6007	
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.		
Phone:	248-647-6000	
Email:	aandrusiak@patlaw.com	
Correspondent Name:	GIFFORD,KRASS,SPRINKLE,ANDERSON&CITKOWSI	
Address Line 1:	2701 TROY CENTER DRIVE	
Address Line 2:	P.O. BOX 7021, SUITE 330	
Address Line 4:	TROY, MICHIGAN 48007-7021	

ATTORNEY DOCKET NUMBER:	38CDC-10405	
NAME OF SUBMITTER:	WESTON R. GOULD	
SIGNATURE:	/Weston R. Gould/	
DATE SIGNED:	04/02/2014	
Total Attachments: 3		
source=SCAN_A2_026605#page1.tif		
source=SCAN_A2_026605#page2.tif		
source=SCAN_A2_026605#page3.tif		

502749537

ASSIGNMENT

We, Jeffrey A. Johnson, of 4372 Coleman Drive, Stone Mountain, Georgia 30083, a citizen of UNITED STATES OF AMERICA, and Walid M. Heneine; 2830 Woodland Park Drive, Atlanta, Georgia 30345, a citizen of UNITED STATES OF AMERICA have invented REAL-TIME PCR POINT MUTATION ASSAYS FOR DETECTING HIV-1 RESISTANCE TO ANTIVIRAL DRUGS. This is an Assignment of the following rights, title and interest: (check all that apply):

United States of America rights, title and interest in the invention.

Foreign rights, title and interest in the invention

An application to the Commissioner for Patents of the United States of America filed herewith.

An application to the Commissioner for Patents of the United States of America has been executed by the undersigned on: ______.

United States Provisional Patent Application Serial No. ______ filed on _____

United States Patent Application Serial No. 13/253,463. Execution: <u>12/06/2006</u>; Date of Filing: <u>1/24/2012</u>

United States Patent No(s).

International (PCT Patent Application Serial No. filed on

Other (specify):

We were employed by the Department of Health and Human Services at the time the invention was made. The conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the undersigned, have voluntarily sold, assigned, and transferred and do voluntarily sell, assign, and transfer to:

The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services, Centers for Disease Control and Prevention (hereinafter THE GOVERNMENT), and successors and assigns, our full and exclusive right, title, and interest in the patent application and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reexamination, reissue, prolongation or extension thereof; and the right to claim priority from the patent application as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT, as assignee of the entire right, title, and interest to be held as fully and entirely as the same would

Page 1 of 3

PATENT REEL: 032578 FRAME: 0720

have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

We have authorized THE GOVERNMENT to file and prosecute this patent application, as well as any corresponding international or national applications that claim priority from it. THE GOVERNMENT has the right to select attorneys or agents of its choice to prosecute at its discretion these applications on its behalf.

We grant THE GOVERNMENT, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: <u>August 20, 2012</u> STATE OF <u>Georgia</u>)) ss. In Kall COUNTY OF

Jeffrey A. JOHNSON

This <u>20</u> day of <u>AUGUS</u><u>2012</u>, before me personally came the above-named Jeffrey A. Johnson, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.



Notary Public for $c \cup$

My commission expires: 2 - 22 - 20/3

Page 2 of 3

Our Reference No.: CDC-10404/38

Dated: An 4012 STATE OF Walid M. HENEINE COUNTY OF De Vall-) ss. This 20 day of August _2012, before me personally came the above-named Walid M. Heneine, who executed the foregoing Assignment in my presence, and who acknowledged to me that it will for the purposes set forth therein. Notary Public for CDC FCU My commission expires: 2-22-20 13 [SE

Page 3 of 3

PATENT REEL: 032578 FRAME: 0722

RECORDED: 04/02/2014