PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KARL GARSHA	11/22/2013
MICHAEL OTTER	11/20/2013
GARY PESTANO	11/04/2013
FRANKLIN VENTURA	11/20/2013

RECEIVING PARTY DATA

Name:	VENTANA MEDICAL SYSTEMS, INC.	
Street Address:	1910 E. INNOVATION PARK DRIVE	
City:	TUCSON	
State/Country:	ARIZONA	
Postal Code:	85755	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14764918

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NAME OF SUBMITTER:	OLGA KAY
SIGNATURE:	/Olga Kay/
DATE SIGNED:	06/08/2018

Total Attachments: 6

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PATENT REEL: 046031 FRAME: 0077 504951970

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> PATENT REEL: 046031 FRAME: 0078

ASSIGNMENT

We, Karl Gaisha, of Sahuarita, Arizona, U.S.A, Michael Otter, of Tucson, Alizona, U.S.A, Gary Pestano of Lafayette, Coloiado, U.S.A, Franklin Ventura, of Tucson, Arizona, U.S.A, have invented one or more inventions (collectively, the "Invention") as described in U.S. Provisional Patent Application No. 61/759,262, entitled SYSTEMS AND METHODS FOR CALIBRATING, CONFIGURING, AND VALIDATING AN IMAGING DEVICE OR SYSTEM FOR MULTIPLEX TISSUE ASSAYS, filed on January 31, 2013, which application is referred to herein as the "Provisional Application"

The Invention was made as a result of our activities at or on behalf of Ventana Medical Systems, Inc. or as a result of our utilization of information, facilities or other resources of Ventana Medical Systems, Inc. The conditions under which the Invention was made are such as to entitle Ventana Medical Systems, Inc to each of our entire respective right, title, and interest in the Invention and any corresponding patent applications and/or patents in the United States and its territories and dependencies, and all other countries and jurisdictions of the world

In consideration of our obligations and other valuable consideration, we each have sold, assigned and transferred or hereby sell, assign, and transfer to Ventana Medical Systems, Inc., its successors and assigns (collectively, "Assignee"), each of our respective full and exclusive right, title, and interest in the Invention, the Provisional Application, and any corresponding patent rights throughout the United States and its territories and dependencies, and all other countries and jurisdictions of the world. The conveyance of patent rights includes, without limitation, full and exclusive right, title, and interest in all non-provisional patent applications claiming all or part of the Invention and/or claiming the benefit of a filing date of the Provisional Application, and any patents that may issue from such non-provisional patent applications in the United States and/or all other countries and jurisdictions throughout the world, and any divisional, continuation, continuation-in-part, substitution, conversion, re-examination, reissue, renewal, prolongation or extension thereof; and the right to claim priority from the Provisional Application as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law

We each authorize and request the issuance of any patents arising from non-provisional patent applications claiming all or part of the Invention and/or claiming the benefit of a filing date of the Provisional Application to the Assignee to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We each warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, dimmish, limit, or abridge the interest herein conveyed.

We each also agree upon reasonable request to communicate with the Assignee, its representatives or agents, any facts known to us respecting all or part of the Invention, and testify in any legal proceedings, sign all lawful papers, execute all non-provisional, divisional, continuation, continuation-in-part, re-examination, and reissue applications, make all rightful

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oaths, provide all requested documents, and do everything reasonably possible to aid the Assignee, its representatives or agents, to obtain and enforce proper patent protection for all or part of the Invention in the United States or any other country of the world These provisions are binding upon each of our heirs, legal representatives, administrators and assigns

This Assignment may be executed in one or more counterparts, each of which when executed and delivered, by facsimile or other electronic transmission, by mail delivery, or by other form of delivery, will be an original and all of which will constitute but one and the same Assignment

IN WITNESS WHEREOF, this Assignment is executed as of the date(s) indicated on the following counterpart signature page(s).

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	ASSIGNOR:
Dated: <u>22-Nov-2013</u>	Kail Garsha
State of Arizona)) ss County of Pima)	
person whose name is subscribed to t	, 2013, before me personally appeared yed to me on the basis of satisfactory evidence to be the his document, and who acknowledged that he/she executed ho acknowledged to me that this document was executed by set forth therein.
	Notary Public My Commission Expires: June 16,2015

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DIANA HORTON Notary Public - State of Arizona PIMA COUNTY My Commission Expires June 16, 2015

Dated:	ASSIGNOR: Michael Otter
State of Arizona)	SS
County of Pima)	
Michael Ofter, whose ident person whose name is subtilised document in my prese	y of November, 2013, before me personally appeared atity was proved to me on the basis of satisfactory evidence to be the seribed to this document, and who acknowledged that he/she executed ence, and who acknowledged to me that this document was executed by the purpose set forth therein.
	Notary Public My Commission Expires: June 16, 2015

DIANA HORTON
Notary Public - State of Arizona
PIMA COUNTY
My Commission Expires
June 16, 2015

ASSIGNOR:

Dated OY NOV 2013

Gary Pestano

State of Colorado

SS.

County of Bourder)

On this <u>Yr</u> day of <u>November</u>, 2013, before me personally appeared Gary Pestano, whose identity was proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this document, and who acknowledged that he/she executed this document in my presence, and who acknowledged to me that this document was executed by his/her own free will for the purpose set forth therein.

Hand Jacobson
Notary Public

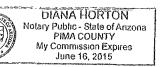
My Commission Expires. 6-24-14

JANET JACOBSON Notary Public State of Colorado

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Dated <u>20-40v-2013</u>	ASSIGNOR:	
	Franklin Ventura	
State of Arizona)		
County of Pima) ss		
On this <u>2046</u> day of <u>November</u> , 2013, before me personally appeared		
Franklin Ventura, whose identity was proved to me on the basis of satisfactory evidence to be the		
person whose name is subscribed to this document, and who acknowledged that he/she executed		
this document in my presence, and who acknowledged to me that this document was executed by		
his/her own free will for the purpose set forth therein.		

Notary Public
My Commission Expires June 16, 2015



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