

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2614876

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JULIA ASHWORTH-SHARPE</td> <td>05/10/2011</td> </tr> <tr> <td>CHOL STEVEN YUN</td> <td>05/10/2011</td> </tr> <tr> <td>ZHANNA ZHILINA</td> <td>05/10/2011</td> </tr> <tr> <td>ADRIAN E. MURILLO</td> <td>05/10/2011</td> </tr> <tr> <td>DONALD D. JOHNSON</td> <td>05/10/2011</td> </tr> <tr> <td>MICHAEL FARRELL</td> <td>05/10/2011</td> </tr> <tr> <td>JEROME W. KOSMEDER</td> <td>05/10/2011</td> </tr> <tr> <td>CHRISTOPHER BIENIARZ</td> <td>05/10/2011</td> </tr> </tbody> </table>		Name	Execution Date	JULIA ASHWORTH-SHARPE	05/10/2011	CHOL STEVEN YUN	05/10/2011	ZHANNA ZHILINA	05/10/2011	ADRIAN E. MURILLO	05/10/2011	DONALD D. JOHNSON	05/10/2011	MICHAEL FARRELL	05/10/2011	JEROME W. KOSMEDER	05/10/2011	CHRISTOPHER BIENIARZ	05/10/2011
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<table border="1"> <tr> <td>Name:</td> <td>VENTANA MEDICAL SYSTEMS, INC.</td> </tr> <tr> <td>Street Address:</td> <td>1910 E. INNOVATION PARK DRIVE</td> </tr> <tr> <td>City:</td> <td>TUCSON</td> </tr> <tr> <td>State/Country:</td> <td>ARIZONA</td> </tr> <tr> <td>Postal Code:</td> <td>85755</td> </tr> </table>		Name:	VENTANA MEDICAL SYSTEMS, INC.	Street Address:	1910 E. INNOVATION PARK DRIVE	City:	TUCSON	State/Country:	ARIZONA	Postal Code:	85755								
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<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13640944</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13640944														
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Application Number:	13640944																		
CORRESPONDENCE DATA																			
Fax Number:	(520)229-4216																		
Phone:	5202293935																		
Email:	carolyn.thornburg@ventana.roche.com																		
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>																			
Correspondent Name:	VENTANA MEDICAL SYSTEMS, INC.																		
Address Line 1:	1910 E. INNOVATION PARK DRIVE																		
Address Line 2:	ATTN: LEGAL DEPT.																		
Address Line 4:	TUCSON, ARIZONA 85755																		

ATTORNEY DOCKET NUMBER:	164/012
NAME OF SUBMITTER:	CAROLYN THORNBURG
Signature:	/Carolyn Thornburg/
Date:	11/14/2013
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ASSIGNMENT

We, Julia Ashworth-Sharpe, of Tucson, Arizona, a citizen of the United States of America; Chol Steven Yun, of Tucson, Arizona, a citizen of the United States of America; Zhanna Zhilina of Tucson, Arizona, a citizen of the Russian Federation; Adrian E. Murillo, of Tucson, Arizona, a citizen of the United States of America; Donald D. Johnson, of Oro Valley, Arizona, a citizen of the United States of America; Michael Farrell, of Tucson, Arizona, a citizen of the United States of America; Jerome W. Kosmeder, of Tucson, Arizona, a citizen of the United States of America; and Christopher Bieniarz, of Tucson, Arizona, a citizen of the United States of America, have invented one or more inventions (collectively, the "Invention") as described in

U.S. Provisional Patent Application No. 61/328,494 filed on April 27, 2010; and
PCT Application No. PCT/US2011/034190, filed on April 27, 2011;

which applications are collectively referred to herein as "the patent applications."

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 our entire 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 of the world.

In consideration of our obligations and other valuable consideration, we have sold, assigned and transferred or hereby sell, assign, and transfer to Ventana Medical Systems, Inc., its successors and assigns (collectively, "Assignee"), our full and exclusive right, title, and interest in the Invention, the patent applications, and any corresponding patent rights throughout the United States and its territories and dependencies, and all other countries of the world. The conveyance of patent rights includes, without limitation, full and exclusive right, title, and interest in all patents claiming all or part of the Invention that may be granted in the United States and/or any other country of the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from any one or more of the patent applications 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 any patents claiming all or part of the Invention and/or claiming the benefit of a filing date of any one or more of the patent applications 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 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.

We 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 divisional, continuing, reexamination and/or reissue applications, make all rightful 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 of our heirs, legal representatives, administrators and assigns.

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

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

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

**COUNTERPART SIGNATURE PAGE
ASSIGNMENT FROM ASHWORTH-SHARPE ET AL.**

Dated: 05/10/11

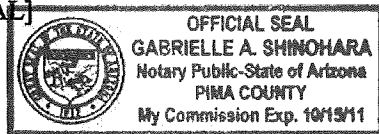
Julia Ashworth-Sharpe
Julia Ashworth-Sharpe

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me, *Gabrielle A. Shinohara*
Notary Public, personally appeared Julia Ashworth-Sharpe personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Gabrielle A. Shinohara
Signature of Notary Public

**COUNTERPART SIGNATURE PAGE
ASSIGNMENT FROM ASHWORTH-SHARPE ET AL.**

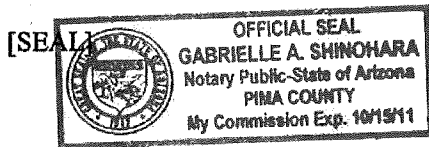
Dated: 10 May 2011

Chol Steven Yun
Chol Steven Yun

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 20 11, before me, Gabrielle A. Shinohara,
Notary Public, personally appeared Chol Steven Yun, personally known to me to be the person
whose name is subscribed to the within instrument and acknowledged to me that he executed the
same in his authorized capacity, and that by his signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Gabrielle A. Shinohara
Signature of Notary Public

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Dated: 05/10/2011



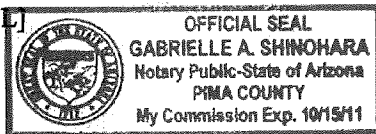
Zhanna Zhilina

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me, Gabrielle A. Shinohara,
Notary Public, personally appeared Zhanna Zhilina, personally known to me to be the person
whose name is subscribed to the within instrument and acknowledged to me that she executed
the same in her authorized capacity, and that by her signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Gabrielle A. Shinohara
Signature of Notary Public

**COUNTERPART SIGNATURE PAGE
ASSIGNMENT FROM ASHWORTH-SHARPE ET AL.**

Dated: 10 May - 2011

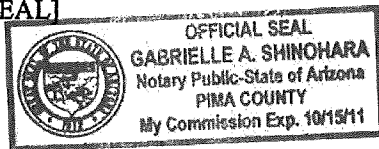
Adrian E. Murillo
Adrian E. Murillo

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me Gabrielle A. Shinohara,
Notary Public, personally appeared Adrian E. Murillo, personally known to me to be the person
whose name is subscribed to the within instrument and acknowledged to me that he executed the
same in his authorized capacity, and that by his signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Gabrielle A. Shinohara
Signature of Notary Public

**COUNTERPART SIGNATURE PAGE
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Dated: 10-May-2011

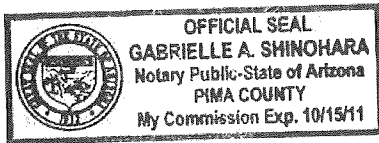
Don Johnson 10-May-2011
Donald D. Johnson

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me, Gabrielle A Shinohara,
Notary Public, personally appeared Donald D. Johnson, personally known to me to be the person
whose name is subscribed to the within instrument and acknowledged to me that he executed the
same in his authorized capacity, and that by his signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Gabrielle A Shinohara
Signature of Notary Public

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Dated: May 10 2011

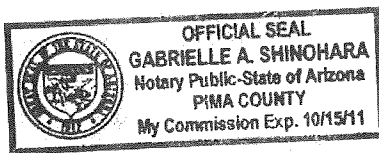
Michael Farrell
Michael Farrell

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me, Gabrielle A. Shinohara,
Notary Public, personally appeared Michael Farrell, personally known to me to be the person
whose name is subscribed to the within instrument and acknowledged to me that he executed the
same in his authorized capacity, and that by his signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


[SEAL]



Gabrielle A. Shinohara
Signature of Notary Public

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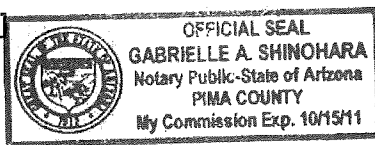

Jerome W. Kosmeder


STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 20 11, before me, Gabrielle A. Shinohara,
Notary Public, personally appeared Jerome W. Kosmeder, personally known to me to be the
person whose name is subscribed to the within instrument and acknowledged to me that he
executed the same in his authorized capacity, and that by his signature on the instrument the
person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]




Signature of Notary Public

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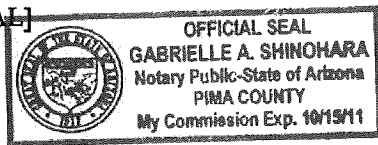
Christopher Bieniarz
Christopher Bieniarz

STATE OF ARIZONA)
COUNTY OF PIMA) ss.

On May 10, 2011, before me, Gabrielle A. Shinohara,
Notary Public, personally appeared Christopher Bieniarz, personally known to me to be the
person whose name is subscribed to the within instrument and acknowledged to me that he
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person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Gabrielle A. Shinohara
Signature of Notary Public