PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
George M. Whitesides	05/24/2009
Scott T. Phillips	05/21/2009
Andres W. Martinez	05/14/2009
Katherine A. Mirica	05/14/2009
Manish J. Butte	05/22/2009
Amy Wong	05/14/2009
Samuel Thomas	05/15/2009
Emanuel Carrilho	05/15/2009
Hayat Sindi	07/06/2009
Sarah Jane Vella	05/14/2009
Yanyan Liu	06/12/2009

RECEIVING PARTY DATA

Name:	President and Fellows of Harvard College
Street Address:	17 Quincy Street
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02138

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	12425121
PCT Number:	US0781848

CORRESPONDENCE DATA

Fax Number: (617)495-9568

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6174953058

PATENT REEL: 022926 FRAME: 0378 P \$80,00 12425121

500905017

Email: denlyn_atherton@harvard.edu

Correspondent Name: Anne I. Craig

Address Line 1: 1350 Massachusetts Ave. # 727

Address Line 2: Office of Technology Development

Address Line 4: Cambridge, MASSACHUSETTS 02138

ATTORNEY DOCKET NUMBER: 2819 US & PCT

NAME OF SUBMITTER: Anne I. Craig

Total Attachments: 62

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PATENT

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Appln. No(s): PCT/US07/081848 & US App 12/425,121

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

George M. Whitesides, Scott T. Phillips, Andres W. Martinez, Manish J. Butte, Amy Wong, Samuel Thomas, Hayat Sindi, Sarah Jane Vella, Emanuel Carrilho, Katherine A. Mirica, & Yanyan Liu

(hereafter "Assignors") hereby assign, sell, and transfer to:

President and Fellows of Harvard College 17 Quincy Street, Cambridge, Massachusetts 02138

(hereafter "Assignee") its successors and assigns, Assignors' entire right, title and interest throughout the world in and to any and all inventions and improvements for:

"Lateral Flow And Flow-Through Bioassay Based On Patterned Porous Media, Methods Of Making Same, And Methods Of Using Same"

described in U.S. Patent Application No. 12/425,121 filed April 16, 2009 and international patent application No.: PCT/US07/081848 filed October 18, 2007 which both claim priority to US Provisional Patent Application No. 60/914,252 filed April 26, 2007 and US Provisional Patent Application No. 60/852,751 filed October 18, 2006; and in and to the aforesaid application(s), in any form or embodiment thereof, and in and to any application filed in this and any foreign country based thereon, including the right to file said applications and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

Assignors hereby warrant that they have full right to convey their entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

1

Appln. No(s): PCT/US07/081848 & US App 12/425,121

representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Date: 5/24/09	Gestun ?
	George M. Whitesides
State of: <u>Massachusetts</u> County of: <u>MiddleScx</u>	·
personally appeared George, M.	, 2009, before me, the undersigned notary public, Whitesides , proved to me through satisfactory evidence to be the person whose name ched document in my presence.
[SEAL]	Notary Public
	Notary 1 done
	MELISSA LEGRAND
The state of the s	NOTARY PUBLIC COMMONWEALTH OF MASSACHUSETTS MY COMMISSION EXPIRES FEBRUARY 21, 2014
Date:	
	Scott T. Phillips
State of: <u>Pennsylvania</u> County of:	
personally appeared Scott T. Phil	, 2009, before me, the undersigned notary public, llips, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]	
	Notary Public

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
personally appeared Andres W. Mar	tinez, proved to me through satisfactory evidence, to be the person whose name document in my presence.
[SEAL]	Notary Public
	•
Date:	Manish J. Butte
	Manish J. Dutte
State of: Massachusetts County of:	
personally appeared Manish, J. Butte	009, before me, the undersigned notary public, e, proved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	Notary Public
	Indialy Fullic

Date:	
	Amy Wong
State of: <u>California</u> County of:	
personally appeared Amy Wong, pro	009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	
	Notary Public
Date:	
	Samuel Thomas
State of: <u>Massachusetts</u> County of:	
On this day of, 2	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of
identification, which were	, to be the person whose name is
signed on the preceding or attached of	document in my presence.
[SEAL]	Notary Public
	-10000 - 0000

Date:		
•		Hayat Sindi
	Massachusetts	
personally apidentification	ppeared Hayat Sin d n, which were	, 2009, before me, the undersigned notary public, li, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]		Notary Public
Date:		
		Sarah Jane Vella
	<u>Massachusetts</u>	
personally ap identificatior	opeared Sarah Jane n, which were	, 2009, before me, the undersigned notary public, e Vella, proved to me through satisfactory evidence of, to be the person whose name is need document in my presence.
[SEAL]		
LJ		Notary Public

Date:		
		Emanuel Carrilho
	Massachusetts	
personally a identificatio	ppeared Emanuel Ca n, which were	, 2009, before me, the undersigned notary public, arrilho, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]		Notary Public
Date:	***************************************	Katherine A. Mirica
	Massachusetts	
On this personally a identification is greated on the	_ day of ppeared Katherine A n, which were e preceding or attache	, 2009, before me, the undersigned notary public, . Mirica, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]		Notary Public

Date:	
	Yanyan Liu
State of: Massachusetts County of:	
	_, 2009, before me, the undersigned notary public, 1, proved to me through satisfactory evidence of
	to be the person whose name is
signed on the preceding or attach	
[SEAL]	
	Notary Public

Appln. No(s): PCT/US07/081848 & US App 12/425,121

ASSIGNMENT

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Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

Appln. No(s): PCT/US07/081848 & US App 12/425,121

representatives or agents or its successors and assigns, any facts relating to sa 1 invention or inventions including evidence for interference purposes or for other legal r oceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid sa I Assignee, its representatives or agents, or its successors or assigns to secure, obtain and inforce proper patent protection for said invention or inventions in this and any foreign country.

Date:	·
	George M. Whitesides
State of: <u>Massachusetts</u> County of:	
personally appeared George, M. White	9, before me, the undersigned notary r iblic, sides, proved to me through satisfactory evidence, to be the person w iose name ocument in my presence.
[SEAL]	
	Notary Public
Date: $\frac{5/2(\sqrt{\delta q})}{2}$	Scott T. Phillips
State of: Pennsylvania County of: Certice	
personally appeared Scott T. Phillips, p	before me, the undersigned notary public, wroved to me through satisfactory evidence of the person who is name is ument in my presence.
[SEAL] COMMORMAN THE OF PENNSYLVANIA Sand State My Common to the original and the origin	Sandra L Todgewk Notary Public
ember, Personal Control Control	

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Sandra L. Podgurski, Notary Public State College Boro, Centre County My Commission Expires July 24, 2011

Member, Pennsylvania Association of Notaries

Date:	
	Andres W. Martinez
State of: <u>Massachusetts</u> County of:	
personally appeared Andres W. Ma	2009, before me, the undersigned notary public, artinez, prove d to me through satisfactory evidence, to be the person whose name ed document in my presence.
[SEAL]	Notary Public
Date:	
Date.	Manish J. Butte
State of: <u>Massachusetts</u> County of:	
personally appeared Manish, J. But	2009, before me, the undersigned notary public, tte, proved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	Notary Public

Date:	
	Amy Wong
State of: <u>California</u> County of:	
personally appeared Amy Wong	, 2009, before me, the undersigned notary public, g, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]	Notary Public
Date:	Samuel Thomas
State of: <u>Massachusetts</u> County of:	
personally appeared Samuel Th	, 2009, before me, the undersigned notary public, aomas, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]	Notary Public

Date:	
	Hayat Sindi
State of: Massachusetts County of:	
personally appeared Hayat S identification, which were	, 2009, before me, the undersigned notary public, indi, proved to me through satisfactory evidence of, to be the person whose name is tached document in my presence.
[SEAL]	Notary Public
Date:	
	Sarah Jane Vella
State of: <u>Massachusetts</u> County of:	
personally appeared Sarah Ja identification, which were	, 2009, before me, the undersigned notary public, ane Vella, proved to me through satisfactory evidence of, to be the person whose name is ached document in my presence.
[SEAL]	Notary Public

Date:	
	Emanuel Carrilho
State of: <u>Massachusetts</u> County of:	
personally appeared Emanuel Ca	, 2009, before me, the undersigned notary public, arrilho, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]	
	Notary Public
Date:	
	Katherine A. Mirica
State of: <u>Massachusetts</u> County of:	
personally appeared Katherine A	_, 2009, before me, the undersigned notary public, Mirica, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]	
	Notary Public

Date:	
	Yanyan Liu
State of: Massachusetts County of:	
personally appeared Yanyan Liu, pro	2009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	Notary Public

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Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

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representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Date:	
	George M. Whitesides
State of: <u>Massachusetts</u> County of:	
personally appeared George, M. Wh	009, before me, the undersigned notary public, itesides, proved to me through satisfactory evidence, to be the person whose name d document in my presence.
[SEAL]	
	Notary Public
en de la companya de La companya de la co	
Date:	
	Scott T. Phillips
State of: <u>Pennsylvania</u> County of:	
personally appeared Scott T. Phillips	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	
	Notary Public

Date: 5/14/2009	Andres W. Martinez
State of: Massachusetts County of: Middle SCX	
	s, proved to me through satisfactory evidence s UCONSC, to be the person whose name
[SEAL]	Welsse Le Grane Public
	MELISSA LEGRAND NOTARY PUBLIC OMMONWEALTH OF MASSACHUSETTS MY COMMISSION EXPIRES FEBRUARY 21, 2014
Date:	March I David
State of: Massachusetts County of:	Manish J. Butte
On this day of, 2009, be personally appeared Manish , J. Butte , pro	pefore me, the undersigned notary public, oved to me through satisfactory evidence of

Appln. No(s): PCT/US07/081848 & US App 12/425,121

identification, which were

[SEAL]

signed on the preceding or attached document in my presence.

3

Notary Public

____, to be the person whose name is

Date:	
	Amy Wong
State of: <u>California</u> County of:	
personally appeared Amy Wong,	, 2009, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is d document in my presence.
[SEAL]	N. (D.11)
	Notary Public
Date:	
	Samuel Thomas
State of: <u>Massachusetts</u> County of:	
personally appeared Samuel Thor	, 2009, before me, the undersigned notary public, mas, proved to me through satisfactory evidence of, to be the person whose name is d document in my presence.
[SEAL]	Notary Public

Date:	
	Hayat Sindi
State of: Massachuset County of:	
identification, which were _	, 2009, before me, the undersigned notary public, Sindi, proved to me through satisfactory evidence of, to be the person whose name is attached document in my presence.
[SEAL]	Notary Public
Date:	Covah Jana Valla
	Sarah Jane Vella
State of: Massachusett County of:	
personally appeared Sarah identification, which were _	, 2009, before me, the undersigned notary public, Jane Vella, proved to me through satisfactory evidence of, to be the person whose name is ttached document in my presence.
[SEAL]	Notary Public

Date:	
	Emanuel Carrilho
State of: <u>Massachusetts</u> County of:	
personally appeared Emanuel Carrilho	9, before me, the undersigned notary public, 10, proved to me through satisfactory evidence of 11, to be the person whose name is sument in my presence.
[SEAL]	Notary Public
Date: <u>5/14/2009</u>	Koshusine Missica Katherine A. Mirica
State of: Massachusetts County of: Massachusetts	
On this H day of May, 2009 personally appeared Katherine A. Miri identification, which were MA diversigned on the preceding or attached doc	before me, the undersigned notary public, ica, proved to me through satisfactory evidence of a work of the person whose name is ument in my presence.
[SEAL]	Melisse Le brane De Notary Public

MELISSA LEGRAND
NOTARY PUBLIC
COMMONWEALTH OF MASSACHUSETTS
MY COMMISSION EXPIRES
FEBRUARY 21, 2014

Date:	
	Yanyan Liu
State of: Massachusett County of:	
	, 2009, before me, the undersigned notary public, Liu, proved to me through satisfactory evidence of
identification, which were	, to be the person whose name is
signed on the preceding or at	ttached document in my presence.
[SEAL]	
F	Notary Public

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"Lateral Flow And Flow-Through Bioassay Based On Patterned Porous Media, Methods Of Making Same, And Methods Of Using Same"

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Assignors hereby warrant that they have full right to convey their entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

1

Appln. No(s): PCT/US07/081848 & US App 12/425,121

representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Date:	
	George M. Whitesides
State of: Massachusetts County of:	
personally appeared George, M. Whi	itesides, proved to me through satisfactory evidence to be the person whose name document in my presence.
[SEAL]	Notary Public
Date:	Scott T. Phillips
State of: Pennsylvania County of:	
personally appeared Scott T. Phillips	009, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	Notary Public

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
personally appeared Andres W. Ma	2009, before me, the undersigned notary public, rtinez, proved to me through satisfactory evidence, to be the person whose name d document in my presence.
[SEAL]	Notary Public
Date: 5-22-09	Manish J. Butte
State of: Massachusetts County of: Middle Sex	
personally appeared Manish, J. Butt	one, before me, the undersigned notary public, te, proved to me through satisfactory evidence of the person whose name is document in my presence.
[SEAL]	Wellisse Le Wand Notary Public
	MELICEA LEODANIO

MELISSA LEGRAND
NOTARY PUBLIC
COMMONWEALTH OF MASSACHUSETTS
MY COMMISSION EXPIRES
FEBRUARY 21, 2014

Date:	
	Amy Wong
State of: <u>California</u> County of:	
	009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	
	Notary Public
Date:	Community
	Samuel Thomas
State of: Massachusetts County of:	
personally appeared Samuel Thoma	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	Notary Public
	riotally rubile

Date:		
		Hayat Sindi
	Massachusetts	· ·
personally a identification	ppeared Hayat Sind n, which were	, 2009, before me, the undersigned notary public, li, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]		Notary Public
Date:		
		Sarah Jane Vella
	Massachusetts	
personally apidentification	ppeared Sarah Jane n, which were	, 2009, before me, the undersigned notary public, eVella, proved to me through satisfactory evidence of, to be the person whose name is ned document in my presence.
[SEAL]		Notary Public

Date:	
	Emanuel Carrilho
State of: Massachuset County of:	
personally appeared Emanuidentification, which were	, 2009, before me, the undersigned notary public, uel Carrilho, proved to me through satisfactory evidence of to be the person whose name is attached document in my presence.
[SEAL]	Notary Public
Date:	/
	Katherine A. Mirica
State of: <u>Massachuset</u> County of:	
personally appeared Kathen identification, which were	, 2009, before me, the undersigned notary public, rine A. Mirica, proved to me through satisfactory evidence of, to be the person whose name is attached document in my presence.
[SEAL]	Notary Public

Date:	
	Yanyan Liu
State of: Massachusetts County of:	
	, 2009, before me, the undersigned notary public, Liu, proved to me through satisfactory evidence of , to be the person whose name is
The state of the s	ached document in my presence.
[SEAL]	
r	Notary Public

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

George M. Whitesides, Scott T. Phillips, Andres W. Martinez, Manish J. Butte, Amy Wong, Samuel Thomas, Hayat Sindi, Sarah Jane Vella, Emanuel Carrilho, Katherine A. Mirica, & Yanyan Liu

(hereafter "Assignors") hereby assign, sell, and transfer to:

President and Fellows of Harvard College 17 Quincy Street, Cambridge, Massachusetts 02138

(hereafter "Assignee") its successors and assigns, Assignors' entire right, title and interest throughout the world in and to any and all inventions and improvements for:

"Lateral Flow And Flow-Through Bioassay Based On Patterned Porous Media, Methods Of Making Same, And Methods Of Using Same"

described in U.S. Patent Application No. 12/425,121 filed April 16, 2009 and international patent application No.: PCT/US07/081848 filed October 18, 2007 which both claim priority to US Provisional Patent Application No. 60/914,252 filed April 26, 2007 and US Provisional Patent Application No. 60/852,751 filed October 18, 2006; and in and to the aforesaid application(s), in any form or embodiment thereof, and in and to any application filed in this and any foreign country based thereon, including the right to file said applications and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

Assignors hereby warrant that they have full right to convey their entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

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Date:	
	George M. Whitesides
State of: Massachusetts County of:	
personally appeared George, M. Wi	009, before me, the undersigned notary public, nitesides, proved to me through satisfactory evidence, to be the person whose name d document in my presence.
[SEAL]	
	Notary Public
Date:	
	Scott T. Phillips
State of: Pennsylvania County of:	
personally appeared Scott T. Phillip	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	
	Notary Public

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
	, proved to me through satisfactory evidence , to be the person whose name
[SEAL]	Notary Public
Date:	Manish J. Butte
State of: Massachusetts County of:	
	ved to me through satisfactory evidence of, to be the person whose name is
[SEAL]	Notary Public

Date: 5 14 09	Amy D. Wong
WITNESSED BY:	Amy Wong \
Date: 5/12/09	Signature of Witness /
	Abel Wows Name of Witness
	4450 Endup 15e St
	Fremont, CA 94938
Date:	Samuel Thomas
State of: <u>Massachusetts</u> County of:	
On this day of, 2009, be personally appeared Samuel Thomas , providentification, which were igned on the preceding or attached docume	efore me, the undersigned notary public, ed to me through satisfactory evidence of, to be the person whose name is not in my presence.
SEAL]	Notary Public

Date:	
	Hayat Sindi
State of: Massachusetts County of:	
On this day of, 2009 personally appeared Hayat Sindi , prove identification, which were signed on the preceding or attached docu	d to me through satisfactory evidence of, to be the person whose name is ment in my presence.
[SEAL]	Notary Public
Date:	
	Sarah Jane Vella
State of: Massachusetts County of:	
personally appeared Sarah Jane Vella, p	before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is ment in my presence.
[SEAL]	Notary Public

Date:	
	Emanuel Carrilho
State of: Massachusetts County of:	
personally appeared Emanuel Cal	, 2009, before me, the undersigned notary public, rrilho, proved to me through satisfactory evidence of, to be the person whose name is d document in my presence.
[SEAL]	
	Notary Public
Date:	
	Katherine A. Mirica
State of: Massachusetts County of:	
personally appeared Katherine A.	2009, before me, the undersigned notary public, Mirica, proved to me through satisfactory evidence of, to be the person whose name is d document in my presence.
[SEAL]	
	Notary Public

Date:	
	Yanyan Liu
State of: Massachusetts County of:	
	, 2009, before me, the undersigned notary public, notary proved to me through satisfactory evidence of
identification, which were	, to be the person whose name is
signed on the preceding or attach	ed document in my presence.
[SEAL]	
	Notary Public

ASSIGNMENT

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Assigner further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its

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Date:	
	George M. Whitesides
State of: Massachusetts County of:	
personally appeared George, M. Wh	009, before me, the undersigned notary public, itesides, proved to me through satisfactory evidence, to be the person whose name d document in my presence.
[SEAL]	
	Notary Public
Date:	Scott T. Phillips
State of: Pennsylvania County of:	4
personally appeared Scott T. Phillips	009, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	
	Notary Public

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
personally appeared Andres V	, 2009, before me, the undersigned notary public, V. Martinez, proved to me through satisfactory evidence, to be the person whose name trached document in my presence.
[SEAL]	Notary Public
Date:	
	Manish J. Butte
State of: Massachusetts County of:	
personally appeared Manish, Jidentification, which were	, 2009, before me, the undersigned notary public, . Butte, proved to me through satisfactory evidence of, to be the person whose name is ched document in my presence.
[SEAL]	Notary Public

Date:	
	Amy Wong
State of: <u>California</u> County of:	
personally appeared Amy Wong, proved	, to be the person whose name is
[SEAL]	Notary Public
Date: 05/15/09	Samuel Thomas
State of: Massachusetts County of: Middle Sex	
personally appeared Samuel Thomas, pro	before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is nent in my presence.
SEAL]	William Le Grand Notary Public
	MELISSA LEGRAND NOTARY PUBLIC COMMONWEALTH OF MASSACHUSETTS MY COMMISSION EXPIRES FEBRUARY 21, 2014

Date:	
	Hayat Sindi
State of: Massachusetts County of:	
personally appeared Hayat Sindi, pro	2009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	Notary Public
Date:	
Date.	Sarah Jane Vella
State of: Massachusetts County of:	
personally appeared Sarah Jane Vell	a, proved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	
	Notary Public

Date: MAY 15, 2009	Envenued Comillion
	Emanuel Carrilho
State of: Massachusetts County of: Massachusetts	
personally appeared Emanuel (, 2009, before me, the undersigned notary public, Carrilho, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]	Melisse Le (vane) Notary Public
	MELISSA LEGRAND NOTARY PUBLIC COMMONWEALTH OF MASSACHUSETTS MY COMMISSION EXPIRES FEBRUARY 21, 2014
Date:	
	Katherine A. Mirica
State of: Massachusetts County of:	
personally appeared Katherine	
[SEAL]	
[0 -	Notary Public
	•

Date:		
	•	Yanyan Liu
State of: County of:	Massachusetts	
personally a	ippeared Yanyan Li	, 2009, before me, the undersigned notary public, iu, proved to me through satisfactory evidence of, to be the person whose name is
signed on th	e preceding or attac	hed document in my presence.
[SEAL]		
		Notary Public

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Date:	
	George M. Whitesides
State of: Massachusetts County of:	
personally appeared George, M. Wh	009, before me, the undersigned notary public, nitesides, proved to me through satisfactory evidence, to be the person whose name d document in my presence.
[SEAL]	Notary Public
Date:	Scott T. Phillips
State of: <u>Pennsylvania</u> County of:	
personally appeared Scott T. Phillips	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	Notary Public

Date:			
			Andres W. Martinez
	<u>Massachusetts</u>		
On this	_ day of	, 2009, be	fore me, the undersigned notary public,
of identifica	tion, which were		proved to me through satisfactory evidence, to be the person whose name nent in my presence.
[SEAL]			Notary Public
Date:			
			Manish J. Butte
	Massachusetts		
personally a identification	ppeared Manish, J.	Butte, prov	fore me, the undersigned notary public, ed to me through satisfactory evidence of, to be the person whose name is nt in my presence.
[SEAL]			Notary Public

Date:	
	Amy Wong
State of: <u>California</u> County of:	-
identification, which were	, 2009, before me, the undersigned notary public, ong, proved to me through satisfactory evidence of, to be the person whose name is ached document in my presence.
[SEAL]	
	Notary Public
Date:	
	Samuel Thomas
State of: <u>Massachusetts</u> County of:	
personally appeared Samuel identification, which were	, 2009, before me, the undersigned notary public, Thomas, proved to me through satisfactory evidence of , to be the person whose name is ached document in my presence.
[SEAL]	Notary Public

Date: July 6th, 2009	and the
•	Hayat Sindi
State of: Massachusetts County of:	
On this <u>b</u> day of <u>J, J, ,</u> , 2009, be personally appeared Hayat Sindi , proved to identification, which were <u>Hayat JD</u> signed on the preceding or attached docume	, to be the person whose name is
DENLYN K. ATHERTON Notary Public Commonwealth of Massachusetts My Commission Expires October 1, 2015	Notary Public
Date:	
	Sarah Jane Vella
State of: <u>Massachusetts</u> County of:	
On this day of, 2009, be personally appeared Sarah Jane Vella , providentification, which were signed on the preceding or attached docume	
[SEAL]	Notary Public

Date:	
	Emanuel Carrilho
State of: <u>Massachusetts</u> County of:	
personally appeared Emanuel Ca	, 2009, before me, the undersigned notary public, arrilho, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]	Notary Public
Date:	
	Katherine A. Mirica
State of: <u>Massachusetts</u> County of:	
personally appeared Katherine A	, 2009, before me, the undersigned notary public, Mirica, proved to me through satisfactory evidence of, to be the person whose name is ed document in my presence.
[SEAL]	Notary Public

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Date:	
	George M. Whitesides
State of: Massachusetts County of:	
personally appeared George, M of identification, which were	
[SEAL]	Notary Public
Date:	C. ALT D. W.
	Scott T. Phillips
State of: Pennsylvania County of:	
personally appeared Scott T. Ph	, 2009, before me, the undersigned notary public, illips, proved to me through satisfactory evidence of, to be the person whose name is ned document in my presence.
[SEAL]	
	Notary Public

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
personally appeared Andres W. Mar	09, before me, the undersigned notary public, tinez, proved to me through satisfactory evidence, to be the person whose name document in my presence.
[SEAL]	
	Notary Public
Date:	
	Manish J. Butte
State of: <u>Massachusetts</u> County of:	
personally appeared Manish, J. Butte	09, before me, the undersigned notary public, proved to me through satisfactory evidence of
identification, which were signed on the preceding or attached do	to be the person whose name is cument in my presence.
[SEAL]	
	Notary Public

Date:	
	Amy Wong
State of: California County of:	
On this day of, 20 personally appeared Amy Wong , pro identification, which were signed on the preceding or attached do	oo9, before me, the undersigned notary public, wed to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	Notary Public
Date:	Samuel Thomas
	Samuel Thomas
State of: Massachusetts County of:	
personally appeared Samuel Thomas,	09, before me, the undersigned notary public, proved to me through satisfactory evidence of, to be the person whose name is ocument in my presence.
[SEAL]	Notary Public

Date:	
	Hayat Sindi
State of: Massachusetts County of:	
On this day of, 2009, bet personally appeared Hayat Sindi , proved to identification, which were signed on the preceding or attached document	fore me, the undersigned notary public, me through satisfactory evidence of, to be the person whose name is nt in my presence.
[SEAL]	Notary Public
Date: May 14, 2009. PROUNCE MASSachusetts County of: ESSEX	Sarah Jane Vella Sarah Jane Vella
On this 14 day of MAY 2009, bef personally appeared Sarah Jane Vella, providentification, which were R(VFR'S UCE) signed on the preceding or attached document	ed to me through satisfactory evidence of UCE, to be the person whose name is
[SEAL]	Notary Public JAMES J. YAWORSKY BARRISTER, SOLICTIOR, NOTARY PUBLIC WINDSOR, ONTARIO, CANADA

Emanuel Carrilho
, before me, the undersigned notary public, , proved to me through satisfactory evidence of, to be the person whose name is ument in my presence.
Notary Public
Katherine A. Mirica
before me, the undersigned notary public, ca, proved to me through satisfactory evidence of, to be the person whose name is ment in my presence.
Notary Public

Date:	
	Yanyan Liu
State of: Massachusetts County of:	
	2009, before me, the undersigned notary public, roved to me through satisfactory evidence of
identification, which were	, to be the person whose name is
signed on the preceding or attached	
[SEAL]	
	Notary Public

Appln. No(s): PCT/US07/081848 & US App 12/425,121

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Date:	
	George M. Whitesides
State of: <u>Massachusetts</u> County of:	
personally appeared George, M.	, 2009, before me, the undersigned notary public, Whitesides, proved to me through satisfactory evidence , to be the person whose name ached document in my presence.
[SEAL]	Notary Public
Date:	Scott T. Phillips
	Scott 1.1 mmps
State of: <u>Pennsylvania</u> County of:	
personally appeared Scott T. Ph	, 2009, before me, the undersigned notary public, illips, proved to me through satisfactory evidence of, to be the person whose name is ned document in my presence.
[SEAL]	Notary Public
	riotaly rubile

Date:	
	Andres W. Martinez
State of: Massachusetts County of:	
personally appeared Andres W of identification, which were	, 2009, before me, the undersigned notary public, . Martinez, prove d to me through satisfactory evidence, to be the person whose name tached document in my presence.
[SEAL]	Notary Public
Date:	
	Manish J. Butte
State of: <u>Massachusetts</u> County of:	
personally appeared Manish, J.	, 2009, before me, the undersigned notary public, Butte, proved to me through satisfactory evidence of, to be the person whose name is hed document in my presence.
[SEAL]	Notary Public

Date:	
	Amy Wong
State of: <u>California</u> County of:	
personally appeared Amy Wong, pro	009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	Notary Public
Date:	
	Samuel Thomas
State of: Massachusetts County of:	
personally appeared Samuel Thomas	009, before me, the undersigned notary public, s, proved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	
	Notary Public

Date:	
	Hayat Sindi
State of: <u>Massachusetts</u> County of:	
On this day of, 2 personally appeared Hayat Sindi , pridentification, which were signed on the preceding or attached of	009, before me, the undersigned notary public, oved to me through satisfactory evidence of, to be the person whose name is document in my presence.
[SEAL]	Notary Public
Dates	
Date:	Sarah Jane Vella
State of: <u>Massachusetts</u> County of:	
personally appeared Sarah Jane Vel	009, before me, the undersigned notary public, la, proved to me through satisfactory evidence of, to be the person whose name is locument in my presence.
[SEAL]	Notary Public

Date:	
	Emanuel Carrilho
State of: Massachusetts County of:	
identification, which were	, 2009, before me, the undersigned notary public, Carrilho, proved to me through satisfactory evidence of, to be the person whose name is ched document in my presence.
[SEAL]	
	Notary Public
Date:	
	Katherine A. Mirica
State of: Massachusetts County of:	
personally appeared Kathering identification, which were	, 2009, before me, the undersigned notary public, e.A. Mirica, proved to me through satisfactory evidence of, to be the person whose name is ched document in my presence.
[SEAL]	Notary Public

Appln. No(s): PCT/US07/081848 & US App 12/425,121

Date: Jun 12th. 2009

Yanyan Liu

State of:

Massachusetts

County of: Middlesex

On this 12 day of 12 day, 2009, before me, the undersigned notary public, personally appeared Yanyan Liu, proved to me through satisfactory evidence of identification, which were Harrand FD, to be the person whose name is

signed on the preceding or attached document in my presence.

[SEAL]

DENLYN K. ATHERTON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
October 1, 2015

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RECORDED: 07/08/2009