503707191 02/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3753832

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
	АТА		
		Name	Execution Date
ALEXEI VAZQUEZ			01/27/2016
RECEIVING PARTY DA	ТА		
Name:	INSTITUTE FOR ADVANCED STUDY		
Street Address:	1 EINSTEIN DRIVE		
City:	PRINCETON		
State/Country:	NEW JERSEY		
Postal Code:	08540		
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PROPERTY NUMBERS	Total: 1		
Property Type		Number	
Application Number: 1363		3630650	
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CORRESPONDENCE D		12)471 4004	
Fax Number:	(4	12)471-4094 he e-mail address first: if that is unsuc	ccessful, it will be sent
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Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 3	(4 e sent to ta forovided; 1 41 as JE OI 42 PI JMBER:	the e-mail address first; if that is unsuc if that is unsuccessful, it will be sent with 124718815 ssignments@webblaw.com ESSE A. HIRSHMAN, THE WEBB LAW F NE GATEWAY CENTER 20 FT. DUQUESNE BLVD., SUITE 1200 ITTSBURGH, PENNSYLVANIA 15222 6527-123084 JESSE A. HIRSHMAN /Jesse A. Hirshman/	via US Mail.

Form **PTO-1595** (Rev. 06-12) OMB No. 0651-0027 (exp. 04/30/2015) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FORM COVER SHEET				
PATENT	SONLY			
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
Alexei Vazquez	Name: Institute for Advanced Study			
Michel Vazquez	Internal Address: 1 Einstein Drive			
Additional name(s) of conveying party(ies) attached? Yes ✓ No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 01/27/2016	Street Address:			
Assignment Merger Security Agreement Change of Name	City: Princeton			
Joint Research Agreement	State: New Jersey			
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: United States Zip: 08540			
Other	Additional name(s) & address(es) attached? 🗌 Yes 📝 No			
 4. Application or patent number(s): This A. Patent Application No.(s) 13/630,650 	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)			
Additional numbers att				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: Jesse A. Hirshman				
Internal Address: The Webb Law Firm	7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>0</u>			
Ctreat Address Que Cotesars Courter				
Street Address: <u>One Gateway Center</u> 420 Ft. Duquesne Blvd., Ste 1200	None required (government interest not affecting title)			
City: <u>Pittsburgh</u>	8. Payment Information			
State: <u>PA</u> Zip: <u>15222</u>				
Phone Number: <u>412-471-8815</u>				
Docket Number: 6527 - 123084	Deposit Account Number			
Email Address: assignments@webblaw.com	Authorized User Name			
9. Signature:	February 24, 2016			
Signature	Date			
Jesse A. Hirshman Name of Person Signing Documents to be recorded (including cover sheet Mail Stop Assignment Recordation Services, Director o	Total number of pages including cover 3 sheet, attachments, and documents: 3 should be faxed to (571) 273-0140, or mailed to: f the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450			

PATENT REEL: 037815 FRAME: 0063 WHEREAS, the undersigned, to wit:

Alexei VAZQUEZ residing at 4139 NE 26th Street, Homestead, FL 33033

(hereinafter collectively ASSIGNOR), has made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"FLUX BALANCE ANALYSIS WITH MOLECULAR CROWDING"

(a) | which is being filed herewith in the United States Patent and Trademark Office;

(b) x which was filed as U.S. Patent Application No. 13/630,650 on September 28, 2012 ;

AND WHEREAS, Institute for Advanced Study (hereinafter ASSIGNEE), a corporation having its principal place of business at 1 Einstein Drive, Princeton, New Jersey 08540, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that he has the full right to convey the entire right, title, and interest herein assigned, and that he has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal

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representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

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ÓÚEZ

Witness:

Date

RECORDED: 02/24/2016

PATENT REEL: 037815 FRAME: 0065