

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3039641

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NICHOLAS KARONIS	08/07/2014
GEORGE COUTRAKON	08/12/2014
KIRK DUFFIN	08/13/2014
BELA ERDELYI	08/07/2014
KEVIN NAGLICH	08/07/2014
VICTOR RYKALIN	08/27/2014
VISHNU ZUTSHI	08/07/2014
SCOTT PENFOLD	07/21/2014
PAUL RUBINOV	09/04/2014
RECEIVING PARTY DATA	
Name:	BOARD OF TRUSTEES OF NORTHERN ILLINOIS UNIVERSITY
Street Address:	Division of University Legal Services
Internal Address:	Altgeld Hall 330
City:	DeKalb
State/Country:	ILLINOIS
Postal Code:	60115
Name:	UNIVERSITY OF WOLLONGONG
Street Address:	321 ADAMS
City:	NEW SOUTH WALES
State/Country:	AUSTRALIA
Postal Code:	2522
Name:	FERMI RESEARCH ALLIANCE, LLC
Street Address:	FERMILAB, P.O. BOX 500
City:	BATAVIA
State/Country:	ILLINOIS
Postal Code:	60510
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14319684

CORRESPONDENCE DATA**Fax Number:** (312)759-5646

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 312-357-1313**Email:** msweetin@btlaw.com**Correspondent Name:** ALICE O. MARTIN**Address Line 1:** BARNES & THORNBURG LLP**Address Line 2:** P.O. BOX 2786**Address Line 4:** CHICAGO, ILLINOIS 60690-2786

ATTORNEY DOCKET NUMBER:	55442-706088
NAME OF SUBMITTER:	ALICE O. MARTIN, REG. NO. 35601
SIGNATURE:	/Alice O. Martin/
DATE SIGNED:	09/26/2014

Total Attachments: 12

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U.S. NATIONAL / INTERNATIONAL PCT APPLICATION
ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 55442-706088
Client Reference: 10-008

ASSIGNMENT

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

Name(s) of Inventor(s); Conveying Party(ies)

Nicholas Karonis

George Coutrakon

Kirk Duffin

Bela Erdelyi

Kevin Naglich

Victor Rykalin

Vishnu Zutshi

maker(s) of an invention which is the subject of :

(Check applicable boxes and enter serial number and date if available)

a ☒ United States National Application identified by Application No. 14/319,684 and filing date June 30, 2014;
and entitled:

Title of Application

HIGH PERFORMANCE COMPUTING FOR THREE DIMENSIONAL PROTON COMPUTED TOMOGRAPHY
(HPC-PCT)

hereinafter (the "Application(s)")

the undersigned hereby sell(s), assign(s), and set(s) over to:

Name of Assignee(s); Receiving Party(ies);

BOARD OF TRUSTEES OF NORTHERN ILLINOIS UNIVERSITY

Division of University Legal Services

Altgeld Hall 330

DeKalb, Illinois 60115

Insert State of Incorporation (if applicable) or "Not Applicable"

a corporation of Illinois

(hereinafter designated as the Assignee) their entire right, title and interest in, to and under the Application(s) throughout the world, including all priority rights for the United States and other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application(s) and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the Application(s) in the United States and counterpart applications in foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such Applications, and also to execute separate assignments in connection with such Applications as the Assignee may deem necessary or expedient.

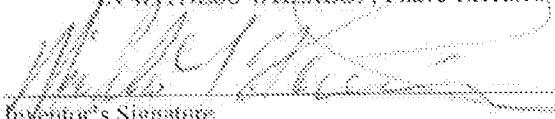
The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the Application(s), U.S. national counterparts thereof, or continuation(s), division(s), reissue(s), reexamination(s) thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting or following from said Application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. Effective date of the Assignment is June 30, 2014.

IN WITNESS WHEREOF, I have executed this assignment this 7th day of August, 2014.

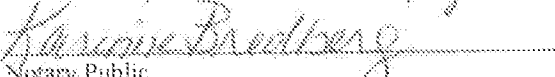

Inventor's Signature

Nicholas Karonis
Printed Name

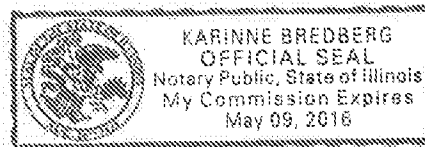
ACKNOWLEDGMENT

STATE OF Illinois)
COUNTY OF DeKalb) SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 7th day of August, 2014.


Notary Public

Karinne Bredberg
Printed Name



My Commission Expires: 5/9/16

Resident of DeKalb County

IN WITNESS WHEREOF, I have executed this assignment this 12 day of August, 2014.

George Coutrakon
Inventor's Signature

George Coutrakon
Printed Name

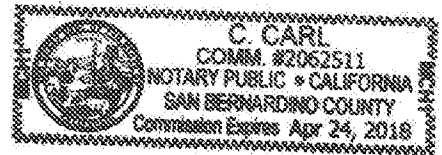
ACKNOWLEDGMENT

STATE OF California
COUNTY OF San Bernardino SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 12 day of August, 2014.

C. Carl
Notary Public

C. Carl
Printed Name



My Commission Expires: 04-24-2018 Resident of San Bernardino County

IN WITNESS WHEREOF, I have executed this assignment this _____ day of _____, 20____.

Inventor's Signature

Kirk Duffin
Printed Name

ACKNOWLEDGMENT

STATE OF _____ }
COUNTY OF _____ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____.

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this _____ day of _____, 20_____.

Inventor's Signature

George Contrakon

Printed Name

ACKNOWLEDGMENT

STATE OF _____ }
COUNTY OF _____ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____.

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this 13 day of Aug, 2014.

Kirk Duffin

Inventor's Signature

Kirk Duffin

Printed Name

ACKNOWLEDGMENT

STATE OF Illinois }
COUNTY OF DeKalb } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 13 day of August, 2014.

Karinne Bredberg

Notary Public

Karinne Bredberg

Printed Name



My Commission Expires: 5/9/16 Resident of DeKalb County

IN WITNESS WHEREOF, I have executed this assignment this 7th day of August, 2014.

Bela Erdelyi
Inventor's Signature

Bela Erdelyi
Printed Name

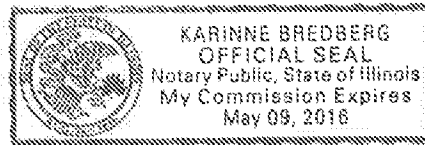
ACKNOWLEDGMENT

STATE OF Illinois }
COUNTY OF DeKalb } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 7th day of August, 2014.

Karinne Bredberg
Notary Public

Karinne Bredberg
Printed Name



My Commission Expires: 5/9/16 Resident of DeKalb County

IN WITNESS WHEREOF, I have executed this assignment this _____ day of _____, 20____.

Inventor's Signature

Kevin Naglich
Printed Name

ACKNOWLEDGMENT

STATE OF _____ }
COUNTY OF _____ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____, 20____.

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this _____ day of _____, 20____.

Inventor's Signature

Beia Endelyi
Printed Name

ACKNOWLEDGMENT

STATE OF _____ }
COUNTY OF _____ } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____.

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this 7th day of August, 2014.

[Signature]
Inventor's Signature

Kevin Neglich
Printed Name

ACKNOWLEDGMENT

STATE OF Illinois }
COUNTY OF DeKalb } SS:

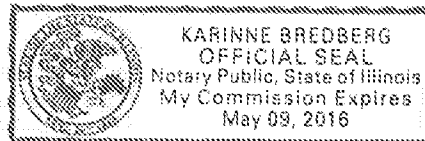
Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 7th day of August, 2014.

Karinne Bredberg
Notary Public

Karinne Bredberg
Printed Name

My Commission Expires: 5/9/16

Resident of DeKalb County



IN WITNESS WHEREOF, I have executed this assignment this 27 day of August, 2014

Victor Rykalin

Inventor's Signature

Victor Rykalin
Printed Name

VICTOR RYKALIN

ACKNOWLEDGMENT

STATE OF Illinois)
COUNTY OF DeKalb) SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 27 day of August, 2014

Amy K Scroggins
Notary Public

Amy K Scroggins
Printed Name



My Commission Expires: 11-8-2015 Resident of Kane County

IN WITNESS WHEREOF, I have executed this assignment this _____ day of _____, 20____

Inventor's Signature

Yishai Zutshi
Printed Name

ACKNOWLEDGMENT

STATE OF _____)
COUNTY OF _____) SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____, _____

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this ____ day of _____, 20____.

Inventor's Signature

Victor Rykalin
Printed Name

ACKNOWLEDGMENT

STATE OF _____ }
 } SS:
COUNTY OF _____ }

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this _____ day of _____, _____.

Notary Public

Printed Name

My Commission Expires: _____ Resident of _____ County

IN WITNESS WHEREOF, I have executed this assignment this 7th day of August, 2014.

[Signature]
Inventor's Signature

Vishnu Zutshi
Printed Name

ACKNOWLEDGMENT

STATE OF Illinois }
 } SS:
COUNTY OF DeKalb }

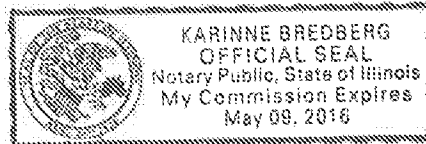
Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 7th day of August, 2014.

Karinne Bredberg
Notary Public

Karinne Bredberg
Printed Name

My Commission Expires: 5/9/16

Resident of DeKalb County



U.S. NATIONAL / INTERNATIONAL PCT APPLICATION
ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 55442-706088
Client Reference: 10-008

ASSIGNMENT

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

Name(s) of Inventor(s); Conveying Party(ies)

Scott Penfold

maker(s) of an invention which is the subject of:

(Check applicable boxes and enter serial number and date if available)

a ☒ United States National Application identified by Application No. 14/319,684 and filing date June 30, 2014; and entitled:

Title of Application

HIGH PERFORMANCE COMPUTING FOR THREE DIMENSIONAL PROTON COMPUTED TOMOGRAPHY (HPC-PCT)

hereinafter (the "Application(s)")

the undersigned hereby sell(s), assign(s), and set(s) over to:

Name of Assignee(s); Receiving Party(ies);

UNIVERSITY OF WOLLONGONG

NSW, 2522

AUSTRALIA

organized under the laws of Australia

(hereinafter designated as the Assignee) their entire right, title and interest in, to and under the Application(s) throughout the world, including all priority rights for the United States and other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application(s) and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the Application(s) in the United States and counterpart applications in foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such Applications, and also to execute separate assignments in connection with such Applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the Application(s), U.S. national counterparts thereof, or continuation(s), division(s), reissue(s), reexamination(s) thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting or following from said Application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. Effective date of the Assignment is June 30, 2014.

IN WITNESS WHEREOF, I have executed this assignment this 21st day of July, 2014.

S. Penfold
Inventor's Signature

Scott Penfold
Printed Name

ACKNOWLEDGMENT

Witness TR

Printed Name PAUL REICH
21/7/2014

Witness Saba Makhadmeh

Printed Name Saba Makhadmeh

U.S. NATIONAL / INTERNATIONAL PCT APPLICATION
ASSIGNMENT TO BUSINESS CONCERN

Attorney Docket No.: 55442-706088
Client Reference: 10-008

ASSIGNMENT

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

Name(s) of Inventor(s); Conveying Party(ies)

Paul Rubinov

maker(s) of an invention which is the subject of:

(Check applicable boxes and enter serial number and date if available)

a ☒ United States National Application identified by Application No. 14/319,684 and filing date June 30, 2014; and entitled:

Title of Application

HIGH PERFORMANCE COMPUTING FOR THREE DIMENSIONAL PROTON COMPUTED TOMOGRAPHY (HPC-PCT)

hereinafter (the "Application(s)")

the undersigned hereby sell(s), assign(s), and set(s) over to:

Name of Assignee(s); Receiving Party(ies);

FERMI RESEARCH ALLIANCE, LLC

Fermilab, P. O. Box 500

Batavia, Illinois

Insert State of Incorporation (if applicable) or "Not Applicable"

a corporation of Illinois

(hereinafter designated as the Assignee) their entire right, title and interest in, to and under the Application(s) throughout the world, including all priority rights for the United States and other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application(s) and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the Application(s) in the United States and counterpart applications in foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such Applications, and also to execute separate assignments in connection with such Applications as the Assignee may deem necessary or expedient.

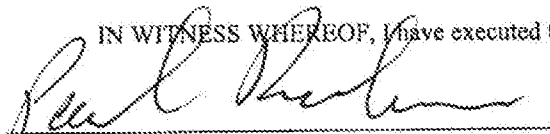
The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the Application(s), U.S. national counterparts thereof, or continuation(s), division(s), reissue(s), reexamination(s) thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting or following from said Application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith. Effective date of the Assignment is June 30, 2014.

IN WITNESS WHEREOF, I have executed this assignment this 4 day of Sept, 2014.

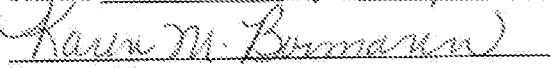

Inventor's Signature

Paul Rubinov
Printed Name

ACKNOWLEDGMENT

STATE OF ILLINOIS }
COUNTY OF Kane } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this 4th day of September, 2014.


Notary Public

Karen M. Bormann
Printed Name

My Commission Expires: 3/19/2016 Resident of Kane County

