506096035 06/08/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6142756

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMIT LAL	11/21/2016
THOMAS SCHENKEL	05/05/2016
ARUN PERSAUD	05/04/2016
QING JI	05/04/2016
PETER SEIDL	05/04/2016
WILL WALDRON	05/04/2016
SERHAN ARDANUC	01/23/2017
VINAYA KUMAR KADAYRA BASAVARAJAPPA	05/04/2016

RECEIVING PARTY DATA

Name:	CORNELL UNIVERSITY
Street Address:	395 PINE TREE ROAD, SUITE 310
City:	ITHACA
State/Country:	NEW YORK
Postal Code:	14850
Name:	LAWRENCE BERKELEY NATIONAL LABORATORY
Name: Street Address:	LAWRENCE BERKELEY NATIONAL LABORATORY 1 CYCLOTRON ROAD
Street Address:	1 CYCLOTRON ROAD

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16538563

CORRESPONDENCE DATA

Fax Number:

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.

Email: patentprocurement@perkinscoie.com

Correspondent Name: VINAY SATHE Address Line 1: PO BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98111-1247

506096035 PATENT REEL: 052867 FRAME: 0739

ATTORNEY DOCKET NUMBER:	078554-8099.US02
NAME OF SUBMITTER:	ANITA CHOU
SIGNATURE:	/AnitaChou/
DATE SIGNED:	06/08/2020
Total Attachments O	

Total Attachments: 9

source=Assignment from Parent 078554-8099.US02#page1.tif source=Assignment from Parent 078554-8099.US02#page2.tif source=Assignment from Parent 078554-8099.US02#page3.tif source=Assignment from Parent 078554-8099.US02#page4.tif source=Assignment from Parent 078554-8099.US02#page5.tif source=Assignment from Parent 078554-8099.US02#page6.tif source=Assignment from Parent 078554-8099.US02#page7.tif source=Assignment from Parent 078554-8099.US02#page8.tif source=Assignment from Parent 078554-8099.US02#page8.tif

PATENT REEL: 052867 FRAME: 0740

Cornell University and Lawrence Berkeley National Laboratory ASSIGNMENT

WHEREAS, We, Amit Lal, an United States citizen, residing at 610 The Parkway, Ithaca, NY 14850, Thomas Schenkel, an United States citizen, residing at 469 Hill Street, San Francisco, CA 94114, Arun Persaud, a German citizen, residing at 642 Norell Street, El Cerrito, CA 94530, Qing Ji, a citizen of the Peoples Republic of China, residing at 553 Pierce Street #743, Albany, CA 94709, Peter Seidl, an United States Citizen, residing at 7027 Shirley Drive, Oakland, CA 94611, Will Waldron, an United States Citizen, residing at 1342 Grizzly Peak Boulevard, Berkeley, CA 94708, Serhan Ardanuc, an United States citizen, residing at 1504 Hasbrouck Apartments, Ithaca, NY 14850 and Vinaya Kumar Kadayra Basavarajappa, an Indian citizen, residing at 323 Cascadilla Street, Ithaca, NY 14850 have invented certain new and useful improvements in PARTICLE ACCELERATOR APPARATUS, METHODS, AND APPLICATIONS for which an application for Letters Patent in the United States is filed herewith;

AND WHEREAS, Cornell University, with its principal place of business at the Center for Technology Licensing ("CTL") at Cornell University, 395 Pine Tree Road, Suite 310, Ithaca, New York 14850 USA and Lawrence Berkeley National Laboratory, with its principal place of business at 1 Cyclotron Road, Berkeley, California 94720 USA, are entitled to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Cornell University and Lawrence Berkeley National Laboratory, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Cornell University and Lawrence Berkeley National Laboratory, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said Cornell University and Lawrence Berkeley National Laboratory, its successors, legal representatives, and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally do everything possible to aid the said Cornell University and Lawrence Berkeley National Laboratory, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

5103

Witness Signature Option	
Junty Amir Cai	11/21/2016
Amit Lai	Date
First Witness Signature	Date
First Witness Printed Name	
Second Witness Signature	Date
Second Witness Printed Name	
Notary Option	
IN TESTIMONY WHERE	OF, I hereunto set my hand and seal this day
	Amit Lal
STATE OF)	
COUNTY OF)	
This day of above-named Amit Lal, to me pershis/her own free will for the purpos	, 20, before me personally came the sonally known as the individual who executed the same of ses therein set forth.
	Notary Public
	Commission expires on

Witness Signature Option Thomas Schenkel First Witness Signature First Witness Printed Name Russell E. LAKE Second Witness Printed Name	1 05,2016 5,2016
Notary Option of IN TESTIMONY WHEREOF, I hereunto of 20 6 STATE OF	set my hand and seal this OS day Thomas Schenkel
This day of above-named Thomas Schenkel, to me personal same of his/her own free will for the purposes the	, 20, before me personally came the ly known as the individual who executed the erein set forth.
	Notary Public Commission expires on

Witness Signature Option	
A. Peraud	2016-5-4
Arun Persaud	Date
Arun Persaud First Witness Signature	5/4/2016 Date
Qing Ji	
Time Wilder and Dries and Norman	A
My Silawal	May 54/ 2016
Second Witness Signature	Date
Thomas Schen	n Kel
Second Witness Printed Name	
Notary Option	
of, 20	hereunto set my hand and seal this day
	Arun Persaud
STATE OF)	
COUNTY OF)	
mit 1 .C	20 Left was a garaged by some the
above-named Arun Persaud , to me per	sonally known as the individual who executed the
same of his/her own free will for the pur	rposes therein set forth.
	Notary Public
	Commission expires on

Witness Signature Option	5/4/2016
Qing Ji	5/4/2016 Date
First Witness Signature	5/4/2016 Date
First Witness Printed Name Second Witness Signature Second Witness Printed Name Second Witness Printed Name	5/4/2016 Date
Notary Option IN TESTIMONY WHEREOF, of, 20	I hereunto set my hand and seal this day
	Qing Ji
STATE OF)	
COUNTY OF)	
This day of above-named Qing Ji , to me personall his/her own free will for the purposes to	y known as the individual who executed the same of therein set forth.
	Notary Public
	Commission evnives on

Witness Signature Option	
Peter Siell	May 4, 2016 Date 2016-5-4 Date
Peter Seidl	Date
A. Perand	2016-5-4
First Witness Signature	Date
Aran Persau d First Witness Printed Name	5/4/2016
Second Witness Signature	5/4/2016 Date
Qing Ji	
Second Witness Printed Name	•
Second Witness I Threa Name	
Notary Option	•
of, 20	I hereunto set my hand and seal this day
	Peter Seidl
STATE OF)	
COUNTY OF)	
This day of above-named Peter Seidl, to me person of his/her own free will for the purpose	, 20, before me personally came the mally known as the individual who executed the same es therein set forth.
	Notary Public

Witness Signature Option Will Waldron First Witness Signature Peter Koer First Witness Printed Name Second Witness Signature	5/4/16 Date 5/4/16 Date
Second Witness Printed Name	
Notary Option IN TESTIMONY WHEREOF, of, 20	I hereunto set my hand and seal this day
01, 20	555.10 GG 757
	Will Waldron
STATE OF)	
COUNTY OF)	
This day of above-named <u>Will Waldron</u> , to me pe same of his/her own free will for the p	, 20, before me personally came the ersonally known as the individual who executed the urposes therein set forth.
	Notary Public
	Commission expires on

Witness Signature Option	01/23/2017 Date
Serhan Ardanuc	Date
Mulahnoll	
First Witness Signature	1/23/17 Date
Charlene Lynn Cornwell First Witness Printed Name Second Witness Signature	1/23/17 Date
Sezin Ardanug Second Witness Printed Name	
Notary Option	
of, 20	I hereunto set my hand and seal this day
	Serhan Ardanuc
STATE OF)	
COUNTY OF)	
This day of above-named <u>Serhan Ardanuc</u> , to me same of his/her own free will for the pu	, 20, before me personally came the personally known as the individual who executed the prosess therein set forth.
	N. D. L. D.
	Notary Public
	Commission expires on

Witness Signature Option	
Vinaya Kimas X.B	<u> 5/4/2016.</u>
Vinaya Kumar Kadayra Basavarajar	opa Date
First Wilness Signature	51412016 Date
Benyamin Davaji First Witness Printed Name	
Second Witness Signature	Date 5/19/16
Second Witness Printed Name	
Notary Option IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 20	
, = -	Vinaya Kumar Kadayra Basavarajappa
	у при капат капауга разауагајарра
STATE OF)	
COUNTY OF)	
This day of, 20, before me personally came the above-named <u>Vinaya Kumar Kadayra Basavarajappa</u> , to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.	
	Notary Public
	Commission expires on

2131879.2

PATENT REEL: 052867 FRAME: 0749