503408238 07/24/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3454872

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEIRONG CHEN	07/10/2008
LLOYD FRANKLIN	07/10/2008
BING GUAN	07/10/2008
JOHN HOWARD JONES	07/10/2008
GNANASAMBANDAM KUMARAVEL	07/10/2008
BENJAMIN LANE	07/10/2008
ADAM LITTKE	07/10/2008
ALEXEY LUGOVSKOY	07/10/2008
HAIRUO PENG	07/10/2008
NOEL POWELL	07/10/2008
JEFFREY VESSELS	07/10/2008
THOMAS WYNN	07/10/2008
ZHILI XIN	07/10/2008

RECEIVING PARTY DATA

Name:	BIOGEN IDEC MA INC.
Street Address:	14 CAMBRIDGE CENTER
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14444007

CORRESPONDENCE DATA

Fax Number: (617)502-5002

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: 617-248-5000

Email: patentdocket@choate.com

Correspondent Name: CHOATE, HALL & STEWART LLP
Address Line 1: TWO INTERNATIONAL PLACE

PATENT

503408238 REEL: 036175 FRAME: 0621

Address Line 4: BOS	TON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	2010007-0099
NAME OF SUBMITTER:	THOMAS H. MCLEAN, PHD, JD
SIGNATURE:	/Thomas H. McLean/
DATE SIGNED:	07/24/2015
Total Attachments: 14	
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> PATENT REEL: 036175 FRAME: 0622

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned Weirong Chen of Waltham, MA, Lloyd Franklin of Upton, MA, Bing Guan of Needham, MA, John Howard Jones of Framingham, MA, Gnanasambandam Kumaravel of Westford, MA, Benjamin Lane of Chelsea, MA, Adam Littke of Boston, MA, Alexey Lugovskoy of Woburn, MA, Hairuo Peng of Needham, MA, Noel Powell of Westford, MA, Jeffrey Vessels of Marlborough, MA, Thomas Wynn of Salem, MA, and Zhili Xin of Lexington, MA, hereby

Sells, assigns and transfers to BIOGEN IDEC MA INC., having a place of business at 14 Cambridge Center, Cambridge, MA 02142, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, his/her entire right, title and interest for the United States and all foreign countries; in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled "COMPOUNDS USEFUL AS RAF KINASE INHIBITORS" filed June 30, 2008, and given serial number 12/164,762, in and to said application and all divisional, continuing, substitute, renewal, reissue, reexamination or other application for Letters Patent which has been or shall be filed in the United States or any foreign country on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agrees that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reissue, reexamination and all other patent applications on any and all said inventions; by executing all rightful declarations, oaths, assignments and other papers; by communicating to said ASSIGNEE all facts known to him/her relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE. Each of the undersigned also hereby appoints ASSIGNEE as its common agent for purposes of prosecuting international patent applications and any material patent applications for which such common agency is recognized.

Hereby requests the Honorable Director of the United States Patent and Trademark Office to issue said Letters Patent to said ASSIGNEE.

Covenants with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by him/her, and that full right to convey the same as herein expressed is possessed by him/her.

U.S.S.N: 12/164,762 4347682v1 Attorney Docket No.: 2004345-0112

Client Ref: SU-4600

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. IN WITNESS WHEREOF, I hereto set n	ny hand and sea	al at <u>Cambriage</u>
massachusetts _ this 1	Oth day of_	July , 2008.
		Name: Weirong Chen
STATE OF MUSSACHUSEHS		Tumor Wonding Chen
COUNTY OF Middle Sex	 SS.	
Before me this day of Weirong Chen known to me to be the personal Assignment and acknowledged that he/she expurposes therein contained.	JUly on whose name executed the san	, 2008, personally appeared is subscribed to the foregoing me as his/her free act and deed for the
	NOTARY PUBL	ic Muchelle Raddy
[Notary's Seal Here]	My Commissi	ion Expires:
		MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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, IN WITNESS WHEREOF, I hereto set m	y hand and seal	at <u>Cam</u> bri	dge
Massachusetts this 10)thday of	July	, 2008.
		Lloy Sn	LL:
STATE OF Massachusetts		·	
COUNTY OF MIDDLES EX	SS.		
Before me this day of day of Lloyd Franklin known to me to be the pers Assignment and acknowledged that he/she e purposes therein contained.	on whose name	is subscribed to t	rsonally appeared the foregoing act and deed for the
•	NOTARY PUBLIC	Mon	èlle Raoldi
[Notary's Seal Here]	My Commissio	n Expires:	
		COMM	MICHELLE RADDI Notary Public NONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112

Client Ref: SU-4600

. IN WITNESS WHEREOF, I hereto se		Cambri'dge
<u>Mussachusetts</u> this_	10th day of	July , 2008.
		meen
	Nai	me: Bing Guan
STATE OF MUSSACHUSEHS	<u> </u>	
COUNTY OF Middle Sex	SS.	
Bing Guan known to me to be the person	July on whose name is subscr	, 2008, personally appeared ribed to the foregoing
Assignment and acknowledged that he/s purposes therein contained.	he executed the same as	s his/her free act and deed for the
	NOTARY PUBLIC	michelle Raddi
[Notary's Seal Here]	My Commission E	xpires:
	r	MICHELLE RADDI



Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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IN WITNESS WHEREOF, I hereto set my	y hand and seal at	Cambridge
massachusetts this 1	oth day of J	<u>uly</u> , 2008.
		Jaur Haward Jaus
	Nan	ne. John Howard Jones
STATE OF Massachusetts		
COUNTY OF MIDDLE SEX	SS.	
Before me this day of day of John Howard Jones known to me to be the Assignment and acknowledged that he/she e purposes therein contained.	person whose name	, 2008, personally appeared e is subscribed to the foregoing his/her free act and deed for the
	NOTARY PUBLIC	Michelle Raddi
[Notary's Seal Here]	My Commission Ex	xpires:
		MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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. IN WITNESS WHEREOF, I hereto	set my hand and seal at Cambridge
<u>Massachusetts</u> this	10th day of JUU, 2008.
	Charasanharden kundenel
STATE OF MUSSACHUSE #S	Name: Gnanasambandam Kumaravel
COUNTY OF MICHAELY	SS.
Before me this day of Gnanasambandam Kumaravel knowled foregoing Assignment and acknowled deed for the purposes therein containe	wn to me to be the person whose name is subscribed to the ged that he/she executed the same as his/her free act and
	NOTARY PUBLIC MWMLLL RAND
[Notary's Seal Here]	My Commission Expires:
	MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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IN WITNESS WHEREOF, I hereto set m	y hand and seal at <u>Cambridge</u>
Massachusetts this 11	oth day of July , 2008.
STATE OF MUSSACHU Setts	Name: Benjamin Lane
COUNTY OF Middle Sex	SS.
Before me this day of Benjamin Lane known to me to be the pers Assignment and acknowledged that he/she e purposes therein contained.	, 2008, personally appeared on whose name is subscribed to the foregoing executed the same as his/her free act and deed for the
	NOTARY PUBLIC MUMBLE RADDI
[Notary's Seal Here]	My Commission Expires:
	MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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. IN WITNESS WHEREOF, I h	ereto set my hand and seal at	Cambridge
<u> </u>	this 10th day of J	uly , 2008.
		Ulam hitek
,		ne: Adam Littke
STATE OF MUSS ach US	2#S	
COUNTY OF MIDDLES LX	SS.	
Before me this	the person whose name is subs	, 2008, personally appeared cribed to the foregoing his/her free act and deed for the
	NOTARY PUBLIC	michelle Raddi
[Notary's Seal Here]	My Commission Ex	xpires:
		MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112

Client Ref: SU-4600

IN WITNESS WHEREOF, I hereto set m		ambridge
Massachusetts this 10	th day of July	2008
		, 2008.
	Name:	Alexey Lugovskoy
STATE OF MUSSACHUSEHS		
COUNTY OF MIDDLES LX	SS.	
Before me this day of Alexey Lugovskoy known to me to be the p Assignment and acknowledged that he/she e purposes therein contained.	erson whose name is su	2008, personally appeared abscribed to the foregoing when free act and deed for the
		•
	NOTARY PUBLIC	muhelle Raddi
[Notary's Seal Here]	My Commission Expir	es
	•	MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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. IN WITNESS WHEREOF, I hereto set n	ny hand and sea		bridge .
Massachusetts_this/	oth day of	July	, 2008.
maccachus att		Hairw Name: Hair	uo Peng
STATE OFMassachusetts			
COUNTY OF Middle Sex	SS.		
Before me this day of Hairuo Peng known to me to be the persor Assignment and acknowledged that he/she purposes therein contained.	n whose name i	s subscribed to	, personally appeared the foregoing ree act and deed for th
	NOTARY PUBI	ic MC	nelle Raddi
[Notary's Seal Here]	My Commiss	ion Expires:	
		COMMO	MICHELLE RADDI Notary Public NWEALTH OF MASSACHUSETTS by Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

. IN WITNESS WHEREOF, I hereto set m	y hand and seal a	at <u>Cambridge</u> ,
Massachusetts this 10		JULY
		J
	ζ -	IN March
Maccaphicate	N	Name: Noel Powell
STATE OF Massachusetts		
COUNTY OF MIDDLES EX	SS.	
Before me this day of day of Noel Powell known to me to be the person Assignment and acknowledged that he/she	whose name is su	
purposes therein contained.		
	NOTARY PUBLIC	: Michelle Randi
[Notary's Seal Here]	My Commission	on Expires:
		MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETT: My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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. IN WITNESS WHEREOF, I he		1 at <u>Cambridge</u> ,
Massachusetts	this 10th day of _	JULY , 2008.
		Name: Jeffrey Vessels
STATE OF MUSSACH US	etts .	
COUNTY OF MIDDLES EX	SS.	
Before me this		, 2008, personally appeared e is subscribed to the foregoing me as his/her free act and deed for the
	NOTARY PUBL	IC Michelle Raddi
[Notary's Seal Here]	My Commissi	ion Expires:
		MICHELLE RADDI Notary Public COMMONWEATH OF MASSACHUSETTS My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

, IN WITNESS WHEREOF, I hereto set my	y hand and seal at <u>Cambridge</u> ,
Massachusetts this 10	th day of July, 2008.
	Name: Thomas Wynn
STATE OF Massachusetts	_
COUNTY OF MIDDLESLX	SS.
Before me thisday of Thomas Wynn known to me to be the person	, 2008, personally appeared on whose name is subscribed to the foregoing executed the same as his/her free act and deed for the
	NOTARY PUBLIC MUNICLE RUDGE
[Notary's Seal Here]	My Commission Expires:
	MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHU My Commission Expires April 18, 2014

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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, IN WITNESS WHEREOF, I hereto set m	y hand and seal at <u>Cambridge</u> ,
<u>Massachusetts</u> this 10	Oth day of July , 2008.
	Name: Zhili Xin
STATE OF MASSACHUSETS	<u> </u>
COUNTY OF Middle Sex	SS.
	ose name is subscribed to the foregoing Assignment same as his/her free act and deed for the purposes
	NOTARY PUBLIC MULLILLE RADDI
[Notary's Seal Here]	My Commission Expires:
	MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires

Attorney Docket No.: 2004345-0112 Client Ref: SU-4600

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PATENT REEL: 036175 FRAME: 0636

RECORDED: 07/24/2015