506542784 03/08/2021

# PATENT ASSIGNMENT COVER SHEET

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| 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  |
|----------------|---------|
| Patent Number: | 8802657 |

## **CORRESPONDENCE DATA**

**Fax Number:** (650)493-6811

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.

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Email: cricks@wsgr.com
Correspondent Name: CHRISTINE RICKS
Address Line 1: 650 PAGE MILL ROAD

PATENT

| Address Line 4: PALC    | Address Line 4: PALO ALTO, CALIFORNIA 94304 |  |  |
|-------------------------|---|--|--|
| ATTORNEY DOCKET NUMBER: | 57841-701.301                               |  |  |
| NAME OF SUBMITTER:      | CHRISTINE RICKS                             |  |  |
| SIGNATURE:              | /Christine Ricks/                           |  |  |
| DATE SIGNED:            | 03/08/2021                                  |  |  |

**Total Attachments: 14** 

source=57841-701.301 signed assignment inventors to Biogen#page1.tif source=57841-701.301 signed assignment inventors to Biogen#page2.tif source=57841-701.301 signed assignment inventors to Biogen#page3.tif source=57841-701.301 signed assignment inventors to Biogen#page4.tif source=57841-701.301 signed assignment inventors to Biogen#page5.tif source=57841-701.301 signed assignment inventors to Biogen#page6.tif source=57841-701.301 signed assignment inventors to Biogen#page7.tif source=57841-701.301 signed assignment inventors to Biogen#page8.tif source=57841-701.301 signed assignment inventors to Biogen#page9.tif source=57841-701.301 signed assignment inventors to Biogen#page10.tif source=57841-701.301 signed assignment inventors to Biogen#page11.tif source=57841-701.301 signed assignment inventors to Biogen#page12.tif source=57841-701.301 signed assignment inventors to Biogen#page13.tif source=57841-701.301 signed assignment inventors to Biogen#page13.tif source=57841-701.301 signed assignment inventors to Biogen#page13.tif

PATENT REEL: 055524 FRAME: 0372

## **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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PATENT REEL: 021707 ERAME: 0641

| . IN WITNESS WHEREOF, I hereto set n   | ny hand and sea                    | al at <u>Cambriage</u> ,   |
|--|------------------------------------|--|
| Massachusetts this 1   | 0th day of_                        | July , 2008.   |
|  |                                    | Vendo clo  |
|  |                                    | Name: Weirong Chen   |
| STATE OF MUSSACHUSEHS  |                                    |  |
| COUNTY OF MIDDLES EX   | SS.                                |  |
| Before me this day of<br>Weirong Chen known to me to be the personal Assignment and acknowledged that he/she expurposes therein contained. | TUIY on whose name executed the sa | , 2008, personally appeared is subscribed to the foregoing me as his/her free act and deed for the |
|  | NOTARY PUBL                        | ic Muhlll 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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PATENT REEL: 021707 FRAME: 0642 PATENT

| . IN WITNESS WHEREOF, I hereto set m  | y hand and seal | at <u>Cambridge</u>   |   |
|---|-----------------|---|---|
| <u>Massachusetts</u> this 10  | )†h day of      | July  | , 2008.   |
|   |                 | Sloy & Il   | •   |
|   |                 | Name: Lloyd Frankl  | in  |
| STATE OF Massachusetts  | <del></del>     |   |   |
| COUNTY OF MIDDLES EX  | SS.             |   |   |
| Before me this day of day of day of Lloyd Franklin known to me to be the pers Assignment and acknowledged that he/she expurposes therein contained. | on whose name   | , 2008, persona<br>is subscribed to the fo<br>ne as his/her free act ar | regoing   |
|   | NOTARY PUBLIC   | e Mohell  | le Raoldi   |
| [Notary's Seal Here]  | My Commission   | on Expires:   |   |
|   |                 | COMMONWEAL My Cor   | HELLE RADDI clary Public TH OF MASSACHUSETTS mmission Expires oril 18, 2014 |

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

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PATENT REEL: 021707 FRAME: 0643 PATENT

| . IN WITNESS WHEREOF, I hereto set m   |   |
|--|---|
| Mussachusetts this   | 10th day of July, 2008.   |
|  | meen  |
|  | Name: Bing Guan   |
| STATE OF MUSSACHUSEHS  |   |
| COUNTY OF Middle SEX   | SS.   |
| Before me this 10 day of 2<br>Bing Guan known to me to be the person we Assignment and acknowledged that he/she of purposes therein contained. |   |
|  | NOTARY PUBLIC MUMILL RANDO  |
| [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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PATENT REEL: 021707 FRAME: 0644 PATENT

| . IN WITNESS WHEREOF, I hereto set m   | y hand and seal at _ | <u>Cambridge</u>   |
|--|----------------------|--|
| massachusetts this 1   | oth day of J         | <u>Uly</u> , 2008.   |
|  | Nan                  | Taur Hauard Jones  |
| STATE OF Massa Chusetts  | _                    |  |
| COUNTY OF MICHAELES LX   | SS.                  |  |
| Before me this day of | person whose name    | , 2008, personally appeared e is subscribed to the foregoing s his/her free act and deed for the |
|  | NOTARY PUBLIC        | Michelle Raddi   |
| [Notary's Seal Here]   | My Commission E      | xpires:  |
| 1<br>  |                      | MICHELLE RADDI Notery Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014  |

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

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PATENT REEL: 021707 FRAME: 0645 PATENT

| . IN WITNESS WHEREOF, I hereto set m  |  |
|---|--|
| Massachusetts this  | Oth day of JUU, 2008.  |
|   | Granssenharder Europenel   |
| STATE OF MUSSACHUSETS   | Name: Gnanasambandam Kumaravel   |
| COUNTY OF MICHAELY  | SS.  |
| Before me this day of<br>Gnanasambandam Kumaravel known to<br>foregoing Assignment and acknowledged the<br>deed for the purposes therein contained. | me to be the person whose name is subscribed to the nat he/she executed the same as his/her free act and |
| <i>:</i>  | NOTARY PUBLIC MUMILLE RANDO  |
| [Notary's Seal Here]  | My Commission Expires:   |
|   | MICHELLE RADDI Notary Public COMMONWEALTH OF MASBACHUSETTS My Commission Expires April 18, 2014          |

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PATENT EL: 0217<mark>07 ,ፑ<u>ድ</u>ላ</mark>ሢE: 0646

| IN WITNESS WHEREOF, I hereto set n   | ny hand and seal at _ | Cambridge  |
|--|-----------------------|--|
| <u>Massachusetts</u> this 1  | 0th day of $J$        | <u>uly</u> , 2008.   |
| STATE OF Massachusetts   | Na                    | me: Benjamin Lane  |
| COUNTY OF Middlesex  | SS.                   |  |
| Before me this day of<br>Benjamin Lane known to me to be the personal Assignment and acknowledged that he/she apurposes therein contained. | son whose name is s   | , 2008, personally appeared ubscribed to the foregoing s his/her free act and deed for the |
|  | NOTARY PUBLIC         | michelle Raddi   |
| [Notary's Seal Here]   | My Commission E       | xpires:  |
| ·  |                       |  |



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

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PATENT : 0217<u>07 ERAM</u>E: 064

| . IN WITNESS WHEREOF, I he  | ereto set my hand and seal at | <u>Cambriage</u>  |
|---|-------------------------------|---|
| <u>Massachusetts</u>  | this 10th day of              | July , 2008.  |
|   | <del></del>                   | alam little   |
| MARC ACh IIC A  |                               | me: Adam Littke   |
| STATE OF MUSSACHUSE   | ,115                          |   |
| COUNTY OF Middle Sex  | SS.                           |   |
| Before me this 10th of Adam Littke known to me to be to Assignment and acknowledged the purposes therein contained. | the person whose name is sub  | , 2008, personally appeared scribed to the foregoing is his/her free act and deed for the           |
|   | NOTARY PUBLIC                 | michelle Raddi  |
| [Notary's Seal Here]  | My Commission I               | 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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PATENT REEL: 021707 FRAME: 0648

| . IN WITNESS WHEREOF, I heret   |  |    |
|---|--|----|
| <u>Massachusetts</u> the  | s 10th day of July 2008  |    |
|   |  |    |
|   | Name: Alexey Lugovskoy   |    |
| STATE OF MASSACHUSEHS   | •  |    |
| COUNTY OF MIDDLES LX  | SS.  |    |
| Before me this day Alexey Lugovskoy known to me to be Assignment and acknowledged that be purposes therein contained. | of, 2008, personally appeared be the person whose name is subscribed to the foregoing e/she executed the same as his/her free act and deed for the |    |
|   | NOTARY PUBLIC MUNILLE RACIO  |    |
| [Notary's Seal Here]  | My Commission Expires  MICHELLE RADDI  Notary Public  My Commission Expires  April 18, 2014  | та |

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PATENT REEL: 021707 FRAME: 0649 PATENT

| . IN WITNESS WHEREOF, I hereto  | set my hand and seal at _                              | Cambridge  | e .                                   |
|---|--|--|---------------------------------------|
| <u>Massachusetts</u> this   | 10th day of <u>Jl</u>                                  | My   | , 2008.                               |
|   | Nai  | me: Hairuo Peng  | ny_                                   |
| STATE OF Massachusette  | 5  |  |                                       |
| COUNTY OF Middle Sex  | SS.  |  |                                       |
| Before me this day of Hairuo Peng known to me to be the performance of the perform | of JUU<br>erson whose name is subsection whose name as | , 2008, persona<br>scribed to the foreg<br>s his/her free act ar | ning                                  |
|   |  | •  |                                       |
| ·   | NOTARY PUBLIC  | Michelle   | Raddi                                 |
| [Notary's Seal Here]  | My Commission E  | xpires:  |                                       |
|   |  | MICHELLE Notary Pu Commission My Commission April 18 2           | iblic<br>IASSACHUSETTS )<br>n Expires |

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

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PATENT REEL: 021707 FRAME: 0650 PATENT

| , IN WITNESS WHEREOF, I hereto set m  | y hand and seal at    | Cambridge.  |
|---|-----------------------|---|
| Massachusetts this 10   | th day of JU          | , 2008.   |
|   |                       |   |
|   | Nome                  | North March   |
| STATE OF Massachusetts  | Name                  | : Noel Powell   |
| COUNTY OF Middle Sex  | SS.                   |   |
| Before me this day of day of Noel Powell known to me to be the person was assignment and acknowledged that he/she expurposes therein contained. | whose name is subscri |   |
|   | NOTARY PUBLIC         | michelle Raddi  |
| [Notary's Seal Here]  | My Commission Exp     | pires:  |
| •   |                       | 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  |                      | Cambridge .   |
|---|----------------------|---|
| Massachusetts this 10   | th day of JU         | <u>, 2008.</u>  |
|   | Nym                  | e: Jeffrey Vessels  |
| STATE OF MUSSACH USETS  | _                    |   |
| COUNTY OF MIDDLES EX  | SS.                  |   |
| Before me this day of,  Jeffrey Vessels known to me to be the personant and acknowledged that he/she opurposes therein contained. | on whose name is sub |   |
|   | NOTARY PUBLIC        | Michelle Raddi  |
| [Notary's Seal Here]  | My Commission Ex     | pires:  |
|   |                      | MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTB My Commission Expires April 18, 2014 |

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**PATENT** 

REEL: 021707 FRAME: 0652 PATENT

| , IN WITNESS WHEREOF, I here  | eto set my hand and seal at <u>Cambr</u>  | ridge ,  |
|-------------------------------|---|--|
| <u>Massachusetts</u> ,        | his 10th day of July  | , 2008.  |
| 20                            | Name: Thoma   | s Wynn   |
| STATE OF MUSSACHUSE           | TIS   |  |
| COUNTY OF Middle SLX          | SS.   |  |
| Thomas Wynn known to me to be | ay of, 2008, p<br>the person whose name is subscribed to<br>t he/she executed the same as his/her fre | personally appeared<br>the foregoing<br>e act and deed for the |
|                               | NOTARY PUBLIC MUM   | lle Raddi  |
| [Notary's Seal Here]          | My Commission Expires:  |  |
|                               | MICHELLE Notary Pr COMMONWEALTH OF I My Commission April 18, 2  | ublic<br>MASCACHU<br>In Expires                                |

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**PATENT** REEL: 021707 FRAME: 0653 PATENT

| , IN WITNESS WHEREOF, I hereto set m  |                             | <u>Cambridge</u> ,  |
|---|-----------------------------|---|
| Massachusetts this 1  | <u>0th</u> day of <u>Jl</u> | My , 2008.  |
| •   |                             | ×   |
|   | Nai                         | me: Zhili Xin   |
| STATE OF Massachusetts  |                             |   |
| COUNTY OF Middle Sex  | SS.                         |   |
| Before me this day of day of and acknowledged that he/she executed the therein contained. | ose name is subscrib        | , 2008, personally appeared ped to the foregoing Assignment act and deed for the purposes       |
|   | NOTARY PUBLIC               | mullle Raddi  |
| [Notary's Seal Here]  | My Commission E             | xpires:   |
|   |                             | MICHELLE RADDI Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires April 18, 2014 |

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REEL: 021707 FRAME: 0654

**REEL: 055524 FRAME: 0386** 

**RECORDED: 10/16/2008** 

RECORDED: 03/08/2021