

09-29-2008

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



103527220

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

1. Ekambar Kandimalla; 2. Lakshmi Bhagat; 3. Mallikarjuna Putta; 4. Daqing Wang; 5. Sudhir Agrawal

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 1-2, 5, 9/18/08; 3, 9/17/08; 4, 9/11/08

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Idera Pharmaceuticals, Inc.

Internal Address: _____

Street Address: 167 Sidney Street

City: Cambridge

State: MA

Country: us Zip: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

12/192,432

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Keown & Zuccherro, LLP

Internal Address: Suite 1200

Street Address: 500 West Cummings Park

City: Woburn

State: MA Zip: 01801

Phone Number: 781-938-1805

Fax Number: 781-938-4777

Email Address: jzuccherro@keownaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 502285

Authorized User Name Keown & Zuccherro, LLP

9. Signature:

Signature

Joseph C. Zuccherro, Reg. No. 55762

Name of Person Signing

9-23-2008

09/26/2008 DBYRNE 00000036 502285 12192432

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 021604 FRAME: 0695

ASSIGNMENT

WHEREAS we, **Ekambar Kandimalla**, being a citizen of the United States of America and residing at 6 Candlewood Lane, Southboro, Massachusetts USA 01772; **Lakshmi Bhagat**, being a citizen of India and residing at 1550 Worcester Street, Unit 605, Framingham, Massachusetts USA 01702; **Mallikarjuna Putta**, being a citizen of India and residing at 824 Arboretum Way, Burlington, Massachusetts USA 01803; **Daqing Wang**, being a citizen of China and residing at 7 Selfridge Road, Bedford, Massachusetts USA 01730; and **Sudhir Agrawal**, being a citizen of the United States of America and residing at 61 Lamplighter Drive, Shrewsbury, Massachusetts USA 01545, are inventors of certain new and useful inventions and discoveries, for which we have made an application for Letters Patent entitled **TOLL LIKE RECEPTOR MODULATORS**, which application was filed in the United States Patent and Trademark Office on August 15, 2008, and assigned Serial No. 12/192,432; and

WHEREAS Idera Pharmaceuticals, Inc., a corporation existing under the laws of Massachusetts, whose address is 167 Sidney Street, Cambridge, MA 02139, which together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring all right, title, interest, benefits, and privileges to and under said inventions and discoveries as hereinafter recited;

NOW THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer and convey to ASSIGNEE the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and

DOCKET NO. IDR-045US

PATENT
REEL: 021604 FRAME: 0696

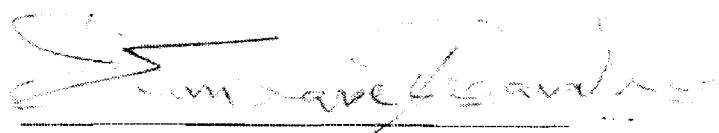
discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered official of any other governments throughout the world to issue or transfer all said Letters Patent to ASSIGNEE as ASSIGNEE of the entire right, title and interest therein or otherwise as ASSIGNEE may direct;
4. Warrant that we have the full right to convey the entire right, title and interest herein assigned without encumbrance and have not knowingly conveyed to others any right, title or interest in said inventions, discoveries, applications or patents or any license to use the same, or to make, use, sell or import anything embodying or utilizing any of said inventions or discoveries;
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns as if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications and oaths, and all assignments, disclaimers and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to me relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to

furnish ASSIGNEE any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said invention and discoveries.

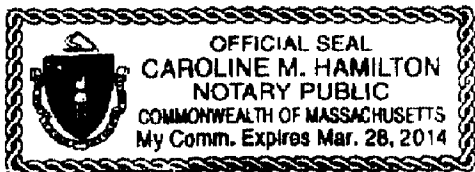
IN TESTIMONY WHEREOF, we have hereunto set our hands and seals.

Date: September 18, 2008



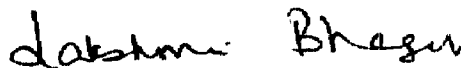
Ekambar Kandimalla

Then personally appeared before me this 18th day of September, 2008, the above named Ekambar Kandimalla who acknowledged the execution of the foregoing instrument to be his free act and deed.



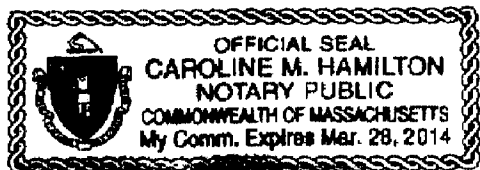
Caroline M. Hamilton
Notary Public

Date: 09-18-08




Lakshmi Bhagat

Then personally appeared before me this 18th day of September, 2008, the above named Lakshmi Bhagat who acknowledged the execution of the foregoing instrument to be his free act and deed.

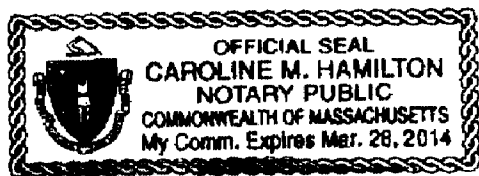


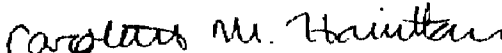
Caroline M. Hamilton
Notary Public

Date: 9/17/08

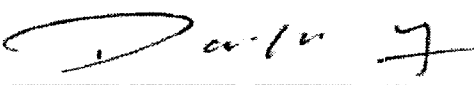

Mallikarjuna Putta

Then personally appeared before me this 17th day of September, 2008,
the above named Mallikarjuna Putta who acknowledged the execution of the
foregoing instrument to be his free act and deed.

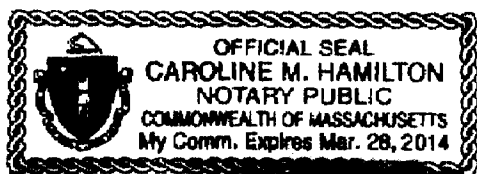


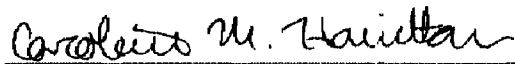

Notary Public

Date: 9/11/08

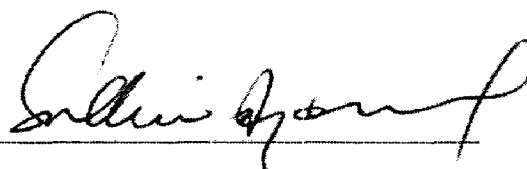

Daqing Wang

Then personally appeared before me this 11th day of September, 2008,
the above named Daqing Wang who acknowledged the execution of the
foregoing instrument to be his free act and deed.

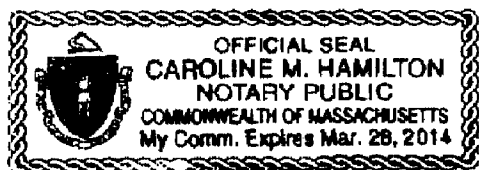


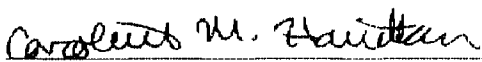

Notary Public

Date: 9-18-08


Sudhir Agrawal

Then personally appeared before me this 18th day of September, 2008,
the above named Sudhir Agrawal who acknowledged the execution of the
foregoing instrument to be his free act and deed.




Notary Public

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