

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT																								
NATURE OF CONVEYANCE:	ASSIGNMENT																								
CONVEYING PARTY DATA																									
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<table border="1"> <tr> <td>Name:</td> <td>AMGEN INC.</td> </tr> <tr> <td>Street Address:</td> <td>One Amgen Center Drive</td> </tr> <tr> <td>City:</td> <td>Thousand Oaks</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>91320-1799</td> </tr> </table>		Name:	AMGEN INC.	Street Address:	One Amgen Center Drive	City:	Thousand Oaks	State/Country:	CALIFORNIA	Postal Code:	91320-1799														
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CORRESPONDENCE DATA																									
Fax Number:	8054998011																								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																									
Phone:	805-447-1000																								
Email:	jacquif@amgen.com																								
Correspondent Name:	Amgen Inc.																								

CH \$40.00 13529880

Address Line 1: One Amgen Center Drive  
Address Line 2: Patent Operations 28-2-C / BPF  
Address Line 4: Thousand Oaks, CALIFORNIA 91320-1799

ATTORNEY DOCKET NUMBER: A-1657-US-NP

NAME OF SUBMITTER: Jacqui Vernon

**Total Attachments: 39**

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**ASSIGNMENT**

Whereas, I/we,

BROWN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA

CHEN, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA

GORE, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA

HARRIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA

HORNE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA

KALLER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA

LIU, Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA

MONENSCHIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA

NGUYEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA

NISHIMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA

ZHONG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

**TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS**

which is found in:

- ☒ US Non-Provisional Application Serial No. 13/529,880 filed June 21, 2012; which claims the benefit of US Provisional Application No. 61/500,835 filed June 24, 2011.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for 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, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application 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, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for 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 counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
BROWN, James  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
CHEN, Jian J.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on September 07, 2012.  
(Month, Day) (Year)

GORE, Vijay Keshav  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

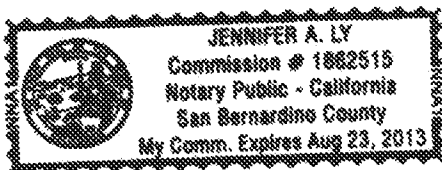
County of Orange }

ss:

On September 7, 2012 before me, JENNIFER A. LY a  
Notary Public, personally appeared

Vijay K. Gore

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

September 7 2012

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
HARRIED, Scott  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**Acknowledgment of Individual**

STATE OF PENNSYLVANIA

COUNTY OF \_\_\_\_\_

On this, the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
\_\_\_\_\_, the undersigned officer, personally appeared  
\_\_\_\_\_, known to me (or satisfactorily proven) to be the  
person whose name \_\_\_\_\_ subscribed to the within instrument, and  
acknowledged that \_\_\_\_\_ (he/she/they) executed the same for the purposes  
therein contained.

In witness whereof, I hereunto set my hand and official seal.

\_\_\_\_\_

Notary Public

Printed Name: \_\_\_\_\_

My Commission Expires:

\_\_\_\_\_



In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
HORNE, Daniel, B.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged to me that he/she/they executed  
the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or  
the entity upon behalf of which the person acted, executed the  
instrument.

I certify under PENALTY OF PERJURY under the laws of  
the State of California that the foregoing paragraph is true and  
correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
KALLER, Matthew, R.  
(Name of Inventor) (Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of \_\_\_\_\_ } ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
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WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_ 20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
LIU, Qingyian  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

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WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
MONENSCHHEIN, Holger  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

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ss:

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\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
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In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
NGUYEN, Thomas T.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California }  
County of \_\_\_\_\_ } ss:

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Notary Public, personally appeared

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Notary Public

My commission expires

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In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
NISHIMURA, Nobuko  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

} ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

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\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
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In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
ZHONG, Wenge  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

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BROWN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA

CHEN, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA

GORE, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA

HARRIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA

HORNE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA

KALLER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA

LIU, Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA

MONENSCHIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA

NGUYEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA

NISHIMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA

ZHONG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

### TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS

which is found in:

- ☒ US Non-Provisional Application Serial No. 13/529,880 filed June 21, 2012; which claims the benefit of US Provisional Application No. 61/500,835 filed June 24, 2011.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for 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, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application 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, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for 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 counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on Aug 16 2012.  
(Month, Day) (Year)

BROWN, James  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

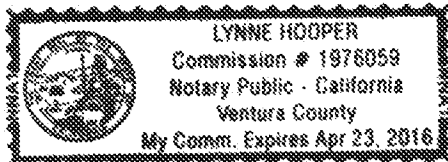
State of California

County of Ventura }

ss:

On Aug. 16, 2012 before me, [Signature] Lynne Hooper a  
Notary Public, personally appeared

James Brown



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on 8/16 2012.  
(Month, Day) (Year)

CHEN, Jian J.  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

# UNITED STATES OF AMERICA

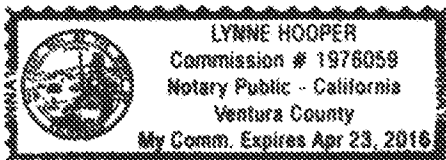
State of California

County of Ventura }

ss:

On Aug 16, 2012 before me, Lynne Hooper a  
Notary Public, personally appeared

Jian J. Chen



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
GORE, Vijay Keshav  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
HARRIED, Scott  
(Name of Inventor) (Signature of Inventor)

**Acknowledgment of Individual**

STATE OF PENNSYLVANIA

COUNTY OF \_\_\_\_\_

On this, the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
\_\_\_\_\_, the undersigned officer, personally appeared  
\_\_\_\_\_, known to me (or satisfactorily proven) to be the  
person whose name \_\_\_\_\_ subscribed to the within instrument, and  
acknowledged that \_\_\_\_\_ (he/she/they) executed the same for the purposes  
therein contained.

In witness whereof, I hereunto set my hand and official seal.

\_\_\_\_\_

Notary Public

Printed Name: \_\_\_\_\_

My Commission Expires:

\_\_\_\_\_

In Witness Whereof I have executed this assignment on August 18 2012.  
(Month, Day) (Year)

HORNE, Daniel, B. Daniel B. Horne  
(Name of Inventor) (Signature of Inventor)

UNITED STATES OF AMERICA

State of California

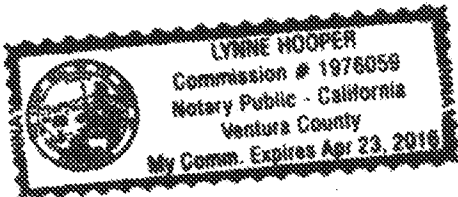
County of Ventura }

ss:

On Aug. 17, 2012 before me, Lynne Hooper, Notary Public a  
Notary Public, personally appeared

Daniel B. Horne

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Lynne Hooper  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on August 17<sup>th</sup> 2012.  
(Month, Day) (Year)

KALLER, Matthew, R.  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

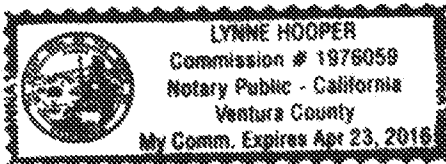
UNITED STATES OF AMERICA

State of California

County of Ventura }

ss:

On Aug. 17, 2012 before me, Lynne Hooper Notary Public  
Notary Public, personally appeared  
Matthew R. Kaller



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~); and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on Aug 21 2012.  
(Month, Day) (Year)

LIU, Qingyian  
(Name of Inventor) [Signature]  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

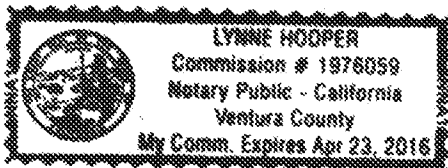
County of Ventura }

ss:

On Aug. 21, 2012 before me, Lynne Hooper a  
Notary Public, personally appeared

Qingyian Liu

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Lynne Hooper  
Notary Public

My commission expires

April 23 2016



In Witness Whereof I have executed this assignment on 08/08 2012.  
(Month, Day) (Year)

MONENSCHIN, Holger  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

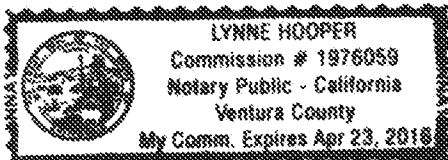
County of Ventura }

ss:

On Aug 8, 2012 before me, Lynne Hooper a  
Notary Public, personally appeared

Holger Monenschein

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

April 23 20 16

In Witness Whereof I have executed this assignment on August 15<sup>th</sup> 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
NGUYEN, Thomas T.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

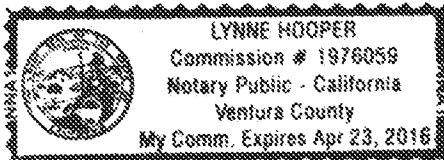
**UNITED STATES OF AMERICA**

State of California }  
County of Ventura } ss:

On Aug 15 2012 before me, Lynne Hooper a  
Notary Public, personally appeared

Thomas T. Nguyen

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacity(~~ies~~), and that by his/~~her~~/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Lynne Hooper  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on August 15th 2012.  
(Month, Day) (Year)

NISHIMURA, Nobuko  
(Name of Inventor)

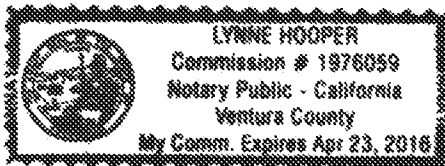
Nobuko Nishimura  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

On Aug. 15, 2012 before me, Lynne Hooper a  
Notary Public, personally appeared

Nobuko Nishimura



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~-subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity(ies), and that by ~~his~~/her/~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Lynne Hooper  
Notary Public

My commission expires

April 23 2016

In Witness Whereof I have executed this assignment on August 15th, 2012.  
 (Month, Day) (Year)

ZHONG, Wenge  
 (Name of Inventor)

[Signature]  
 (Signature of Inventor)

# UNITED STATES OF AMERICA

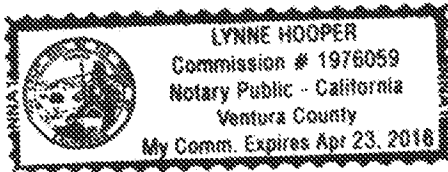
State of California

County of San Diego } ss:  
Ventura

On Aug. 15, 2012 before me, Lynne Hooper a  
 Notary Public, personally appeared

Wenge Zhong

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacity(~~ies~~), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Lynne Hooper  
 Notary Public

My commission expires

April 23 2012

## ASSIGNMENT

Whereas, I/we, \_\_\_\_\_

BROWN, James; 4438 Appleglen Court, Moorpark, CA 93021 USA

CHEN, Jian J.; 5448 Castillo De Rosa, Camarillo, CA 93012 USA

GORE, Vijay Keshav; 8 Del Rey, Irvine, CA 92612 USA

HARRIED, Scott; 64 Country Club Drive, Pittsburgh, PA 15241 USA

HORNE, Daniel, B.; 125 Parkside Drive, Simi Valley, CA 93065 USA

KALLER, Matthew, R.; 1644 Red Rock Avenue, Ventura, CA 93004 USA

LIU, Qingyian; 4631 Paseo Girasol, Camarillo, CA 93012 USA

MONENSCHIN, Holger; 119 Midleton Way, Jupiter, FL 33458 USA

NGUYEN, Thomas T.; 468 Calle Veracruz, Newbury Park, CA 91320 USA

NISHIMURA, Nobuko; 24050 Arminta Street, West Hills, CA 91304 USA

ZHONG, Wenge; 2921 Venezia Lane, Thousand Oaks, CA 91362 USA

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

### TRPM8 ANTAGONISTS AND THEIR USE IN TREATMENTS

which is found in:

- ☒ US Non-Provisional Application Serial No. 13/529,880 filed June 21, 2012; which claims the benefit of US Provisional Application No. 61/500,835 filed June 24, 2011.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for 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, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application 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, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for 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 counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
BROWN, James  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
CHEN, Jian J.  
(Name of Inventor) (Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California }  
County of \_\_\_\_\_ }  
ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20



In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
GORE, Vijay Keshav  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on August 8<sup>th</sup> 2012.  
(Month, Day) (Year)

HARRIED, Scott  
(Name of Inventor)

*Scott Harried*  
(Signature of Inventor)

### Acknowledgment of Individual

STATE OF PENNSYLVANIA

COUNTY OF Allegheny

On this, the 8<sup>th</sup> day of August, 2012, before me  
Rachel Kopper, the undersigned officer, personally appeared  
Scott Harried, known to me (or satisfactorily proven) to be the  
person whose name \_\_\_\_\_ subscribed to the within instrument, and  
acknowledged that \_\_\_\_\_ (he/she/they) executed the same for the purposes  
therein contained.

In witness whereof, I hereunto set my hand and official seal.

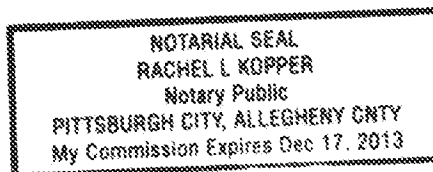
*Rachel Kopper*

Notary Public

Printed Name: Rachel Kopper

My Commission Expires:

12/17/2013



In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
HORNE, Daniel, B.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
KALLER, Matthew, R.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
LIU, Qingyian  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

}

ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
MONENSCHIN, Holger  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**Acknowledgment of Individual**

STATE OF FLORIDA

COUNTY OF \_\_\_\_\_

The foregoing instrument was acknowledged before me this \_\_\_\_\_ (date), by  
\_\_\_\_\_ (name), who is personally known to me or  
who has produced \_\_\_\_\_ (type of identification) as identification.

\_\_\_\_\_  
Notary Public

Printed Name: \_\_\_\_\_

My Commission Expires:

\_\_\_\_\_  
Commission # \_\_\_\_\_

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
NGUYEN, Thomas T.  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California }  
County of \_\_\_\_\_ } ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20

In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
NISHIMURA, Nobuko  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

**UNITED STATES OF AMERICA**

State of California

County of \_\_\_\_\_

} ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

\_\_\_\_\_  
20



In Witness Whereof I have executed this assignment on \_\_\_\_\_ 2012.  
(Month, Day) (Year)

\_\_\_\_\_  
ZHONG, Wenge  
(Name of Inventor) (Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of \_\_\_\_\_ } ss:

On \_\_\_\_\_ before me, \_\_\_\_\_ a  
Notary Public, personally appeared

who proved to me on the basis of satisfactory evidence to be  
the person(s) whose name(s) is/are subscribed to the within  
instrument and acknowledged to me that he/she/they executed  
the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or  
the entity upon behalf of which the person acted, executed the  
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WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

My commission expires

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