

10-26-2004

Revised Form PTO-1595
(Rev. 6-93)

T

U.S. Department of Commerce
Patent and Trademark Office

Docket No.: A-832

To the Honorable Commissioner

102867285

and original documents or copy thereof.

1. Name of conveying party(ies): Joseph J. Nunes, Xiaotian
Zhu, Patricia Amouzegh, Chiara Ghiron, David N.
Johnston, Eoin Christopher PowerAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 8/12/04, 9/9/04

2. Name and address of receiving party(ies):

Name: Amgen Inc.

Internal Address: Mail Stop 27-4-A

Street Address: One Amgen Center Drive

City: Thousand Oaks State: CA Zip: 91230

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
10/875,896

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: U.S. Patent Operations/GPR

Internal Address: Dept. 4300, M/S 27-4-A

AMGEN INC.

Street Address: One Amgen Center Drive

City: Thousand Oaks State: CA Zip: 91320-1799

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account.

8. Deposit account number: 01-0519

☒ The Commissioner is hereby authorized to charge any
additional filing fees which may be required or credit
any overpayment to Deposit Account No. 01-0519

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.*

G. Prabhakar Reddy

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 36

10/25/2004 ECDOPER 00000160 010519 10875896

01 FC:8021

40.00 DA

PATENT
REEL: 015911 FRAME: 0043

ASSIGNMENT

Whereas, we, Joseph J. Nunes, 70 Elm Street, Andover, MA 01810

Xiaotian Zhu, 137 Temple Street, Newton MA 02465

Patricia Amouzegh, 4 Merton Close, Didcot, Oxfordshire, OX11 8UJ U.K.

Chiara Ghiron, 149 Cumnor Road, Wootton, Oxford OX1 5JS U.K.

David N. Johnston, 111 Milton Park, Abingdon, Oxfordshire, OX14 4SD U.K.

Eoin Christopher Power, 135 Jackman Close, Abingdon, Oxfordshire OX14 3GB U.K.

have made an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

SUBSTITUTED HETEROCYCLIC COMPOUNDS AND METHODS OF USE

which is found in:

- ☐ (a) the US Patent Application executed on even date herewith;
- ☐ (b) the US Patent Application executed on _____ [which claims the benefit of U.S. Provisional Application No. _____ filed _____.]
- ☒ (c) US Application Serial No.: 10/875,896 filed on June 23, 2004
which claims benefit to US Prov. Appln. No. 60/482,375 filed on June 24, 2003
- ☐ (d) US Patent No.: _____

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 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, we hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") our 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, and/or continuation-in-part 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 AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

Further, we hereby sell, assign, transfer, and set over unto AMGEN our 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 us or at our direction or deposited on our behalf by Amgen, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, our unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganisms(s) or other biological materials(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.

We authorize and request the Commissioner of Patents and Trademarks of the United States to issue any such Letters Patent which may be granted on the Application to AMGEN as assignee of the entire right, title and interest therein and thereto.

For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them 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 AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN 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 AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 ____

Joseph J. Nunes
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20 ____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Joseph J. Nunes

☐ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Xiaotian Zhu
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

_____ 20____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Xiaotian Zhu

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the

12th day of August 2004

Patricia Amouzegh
(Name of Inventor)

MA SSG
(Signature of Inventor)

NOTARY CERTIFICATION

State of United Kingdom
County of Oxford } ss:

12th August 2004Before me, a Notary Public for Abingdon in the County of Oxford, UK, personally appeared _____

Patricia Amouzegh

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

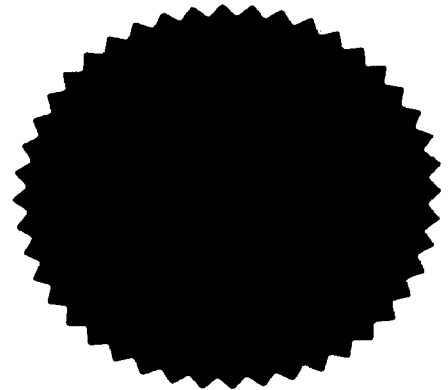
WITNESS my hand and official seal.

Nigel P. S. Shaw
Notary Public

My commission expires

My Commission expires with life20 un

NIGEL P. S. SHAW
NOTARY PUBLIC
Walton House, 15 Ock Street
Abingdon, Oxfordshire
England OX14 5AN



In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Chiara Ghiron
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

_____ 20____

Before me, a Notary Public for _____], personally appeared _____

Chiara Ghiron

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

_____ 20____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

David Johnston
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20 _____

Before me, a Notary Public for _____, personally appeared _____

David Johnston

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

20 _____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Eoin Christopher Power
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____; personally appeared _____

Eoin Christopher Power

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

20____

ASSIGNMENT

Whereas, we, Joseph J. Nunes, 70 Elm Street, Andover, MA 01810

Xiaotian Zhu, 137 Temple Street, Newton MA 02465

Patricia Amouzegh, 4 Merton Close, Didcot, Oxfordshire, OX11 8UJ U.K.

Chiara Ghiron, 149 Cumnor Road, Wootton, Oxford OX1 5JS U.K.

David N. Johnston, 111 Milton Park, Abingdon, Oxfordshire, OX14 4SD U.K.

Eoin Christopher Power, 135 Jackman Close, Abingdon, Oxfordshire OX14 3GB U.K.

have made an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

SUBSTITUTED HETEROCYCLIC COMPOUNDS AND METHODS OF USE

which is found in:

- ☐ (a) the US Patent Application executed on even date herewith;
- ☐ (b) the US Patent Application executed on _____ [which claims the benefit of U.S. Provisional Application No. _____ filed _____.]
- ☒ (c) US Application Serial No.: 10/875,896 filed on June 23, 2004
which claims benefit to US Prov. Appln. No. 60/482,375 filed on June 24, 2003
- ☐ (d) US Patent No.: _____

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 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, we hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") our 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, and/or continuation-in-part 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 AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

Further, we hereby sell, assign, transfer, and set over unto AMGEN our 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 us or at our direction or deposited on our behalf by Amgen, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, our unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganisms(s) or other biological materials(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.

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For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them 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 AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN 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 AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 ____

Joseph J. Nunes
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20 ____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Joseph J. Nunes

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Xiaotian Zhu

(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20 _____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Xiaotian Zhu

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Patricia Amouzegh
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

_____ 20 _____

Before me, a Notary Public for _____, personally appeared _____

Patricia Amouzegh

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

_____ 20 _____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Chiara Ghiron
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ } ss:
County of _____

_____ 20____

Before me, a Notary Public for _____], personally appeared _____

Chiara Ghiron

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

_____ 20____

In Witness Whereof I have executed this assignment on the 12th day of August 20 04

David Johnston
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of United Kingdom
County of Oxford } ss:

12th August 20 04

Before me, a Notary Public for Abingdon in the County of Oxford, UK, personally appeared _____

David Johnston

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

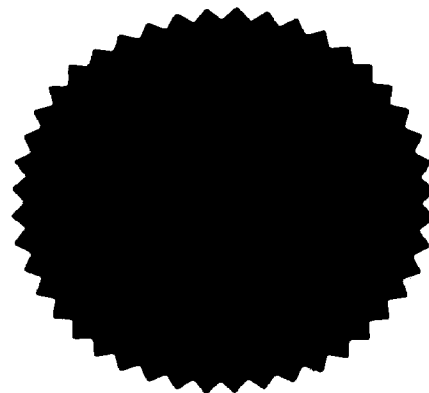
[Signature]
Notary Public

My commission expires

My Commission expires with 11k

20 04

NIGEL P. S. SHAW
NOTARY PUBLIC
Walton House, 15 Ock Street
Abingdon, Oxfordshire
England OX14 5AN



In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Eoin Christopher Power
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____; personally appeared _____

Eoin Christopher Power

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public

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ASSIGNMENTWhereas, we, Joseph J. Nunes, 70 Elm Street, Andover, MA 01810Xiaotian Zhu, 137 Temple Street, Newton MA 02465Patricia Amouzegh, 4 Merton Close, Didcot, Oxfordshire, OX11 8UJ U.K.Chiara Ghiron, 149 Cumnor Road, Wootton, Oxford OX1 5JS U.K.David N. Johnston, 111 Milton Park, Abingdon, Oxfordshire, OX14 4SD U.K.Eoin Christopher Power, 135 Jackman Close, Abingdon, Oxfordshire OX14 3GB U.K.

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In Witness Whereof I have executed this assignment on the 9 day of August 20 04

Joseph J. Nunes
(Name of Inventor)

Joseph J. Nunes
(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

August 9 20 04

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Joseph J. Nunes

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

David Richard Smith-Boyle
Notary Public

My commission expires

July 24 20 09

In Witness Whereof I have executed this assignment on the 9th day of Sept. 20 04

Xiaotian Zhu
(Name of Inventor)

[Signature]
(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

September 9 20 04

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Xiaotian Zhu

☒ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

David Richard Smith-Boyl
Notary Public

My commission expires

July 24 20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Patricia Amouzegh
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

_____ 20 _____

Before me, a Notary Public for _____, personally appeared _____

Patricia Amouzegh

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

_____ 20 _____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Chiara Ghiron
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

_____ 20 _____

Before me, a Notary Public for _____], personally appeared _____

Chiara Ghiron

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public

My commission expires

_____ 20 _____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

David Johnston
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20 _____

Before me, a Notary Public for _____, personally appeared _____

David Johnston

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20 _____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Eoin Christopher Power

(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ } ss:
County of _____

20____

Before me, a Notary Public for _____; personally appeared _____

Eoin Christopher Power

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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20____

ASSIGNMENT

Whereas, we, Joseph J. Nunes, 70 Elm Street, Andover, MA 01810

Xiaotian Zhu, 137 Temple Street, Newton MA 02465

Patricia Amouzegh, 4 Merton Close, Didcot, Oxfordshire, OX11 8UJ U.K.

Chiara Ghiron, Strada Comunale di Salteano 1, 53014 Loc. Isola d'Arbia - Asciano (Siena)
IT

David N. Johnston, 111 Milton Park, Abingdon, Oxfordshire, OX14 4SD U.K.

Eoin Christopher Power, 135 Jackman Close, Abingdon, Oxfordshire OX14 3GB U.K.

have made an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

SUBSTITUTED HETEROCYCLIC COMPOUNDS AND METHODS OF USE

which is found in:

- ☐ (a) the US Patent Application executed on even date herewith;
- ☐ (b) the US Patent Application executed on _____ [which claims the benefit of U.S. Provisional Application No. _____ filed _____.]
- ☒ (c) US Application Serial No.: 10/875,896 filed on June 23, 2004
which claims benefit to US Prov. Appln. No. 60/482,375 filed on June 24, 2003
- ☐ (d) US Patent No.: _____

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 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, we hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") our 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, and/or continuation-in-part 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 AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

Further, we hereby sell, assign, transfer, and set over unto AMGEN our 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 us or at our direction or deposited on our behalf by Amgen, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, our unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganisms(s) or other biological materials(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.

We authorize and request the Commissioner of Patents and Trademarks of the United States to issue any such Letters Patent which may be granted on the Application to AMGEN as assignee of the entire right, title and interest therein and thereto.

For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them 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 AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN 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 AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 ____

Joseph J. Nunes
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20 ____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Joseph J. Nunes

☐ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Xiaotian Zhu
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

_____ 20 _____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Xiaotian Zhu

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Patricia Amouzegh

(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____, personally appeared _____

Patricia Amouzegh

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Notary Public

My commission expires

20____

In Witness Whereof I have executed this assignment on the 5th day of October 2004

Chiara Ghiron
(Name of Inventor)


(Signature of Inventor)

NOTARY CERTIFICATION

State of South Carolina
County of Charleston } ss:

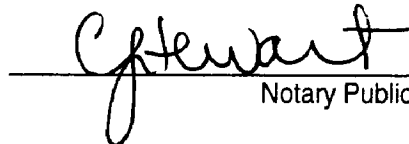
October 5 2004

Before me, a Notary Public for Berkeley County], personally appeared _____

Chiara Ghiron

☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Notary Public

My commission expires

~~October 5~~ 2004 ~~8~~
March 8 2014

CRYSTIE M. STEWART
NOTARY PUBLIC FOR SOUTH CAROLINA
My Commission expires March 8, 2014

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

David Johnston
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____, personally appeared _____

David Johnston

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

20____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Eoin Christopher Power

(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of
County of

} ss:

20____

Before me, a Notary Public for _____; personally appeared _____

Eoin Christopher Power

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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Notary Public

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Whereas, we, Joseph J. Nunes, 70 Elm Street, Andover, MA 01810

Xiaotian Zhu, 137 Temple Street, Newton MA 02465

Patricia Amouzegh, 4 Merton Close, Didcot, Oxfordshire, OX11 8UJ U.K.

Chiara Ghiron, 149 Cumnor Road, Wootton, Oxford OX1 5JS U.K.

David N. Johnston, 111 Milton Park, Abingdon, Oxfordshire, OX14 4SD U.K.

Eoin Christopher Power, 135 Jackman Close, Abingdon, Oxfordshire OX14 3GB U.K.

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which claims benefit to US Prov. Appln. No. 60/482,375 filed on June 24, 2003
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For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them 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 AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN 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 AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the _____ day of _____ 20 _____

Joseph J. Nunes
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20 _____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Joseph J. Nunes

☐ personally known to me - OR - ☐

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

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24

20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Xiaotian Zhu
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Massachusetts }
County of Middlesex } ss:

20____

Before me, a Notary Public for Middlesex County, State of Massachusetts, personally appeared _____

Xiaotian Zhu

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

July 24 20 09

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Patricia Amouzegh
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____, personally appeared _____

Patricia Amouzegh

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

20____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Chiara Ghiron
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

_____ 20____

Before me, a Notary Public for _____], personally appeared _____

Chiara Ghiron

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My commission expires

_____ 20____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

David Johnston
(Name of Inventor)

(Signature of Inventor)

NOTARY CERTIFICATION

State of _____ }
County of _____ } ss:

20____

Before me, a Notary Public for _____, personally appeared _____

David Johnston

☐ personally known to me - **OR** - ☐ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Notary Public

My commission expires

20____

In Witness Whereof I have executed this assignment on the _____ day of _____ 20____

Eoin Christopher Power
(Name of Inventor)


(Signature of Inventor)

NOTARY CERTIFICATION

State of
County of

} ss:

Kingdom of England
City of London

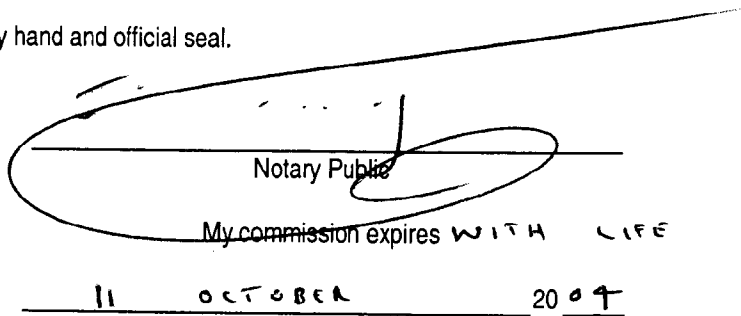
11 OCTOBER 2004

Before me, a Notary Public for LONDON, ENGLAND; personally appeared _____

Eoin Christopher Power

☐ personally known to me - **OR** - ☒ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


Notary Public
My commission expires WITH LIFE
11 OCTOBER 2004

Notary Public London, England
(J. B. BURGESS)
My Commission Expires with Life