

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Patrick J. Walsh</td><td>02/05/2008</td></tr><tr><td>Alice E. Lurain</td><td>02/02/2009</td></tr><tr><td>Ann R. Kelly</td><td>01/23/2009</td></tr><tr><td>Aaron G. Maestri</td><td>10/23/2008</td></tr></tbody></table>	Name	Execution Date	Patrick J. Walsh	02/05/2008	Alice E. Lurain	02/02/2009	Ann R. Kelly	01/23/2009	Aaron G. Maestri	10/23/2008	
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Patrick J. Walsh	02/05/2008										
Alice E. Lurain	02/02/2009										
Ann R. Kelly	01/23/2009										
Aaron G. Maestri	10/23/2008										
RECEIVING PARTY DATA											
Name:	Trustees of the University of Pennsylvania										
Street Address:	3160 Chesnut Street										
Internal Address:	Suite 200										
City:	Philadelphia										
State/Country:	PENNSYLVANIA										
Postal Code:	19104										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10592075</td></tr></tbody></table>	Property Type	Number	Application Number:	10592075							
Property Type	Number										
Application Number:	10592075										
CORRESPONDENCE DATA											
Fax Number:	(215)563-4044										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	215-563-4100										
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Correspondent Name:	Dann, Dorfman, Herrell & Skillman, P.C.										
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ATTORNEY DOCKET NUMBER:	PJH/PENN Q-3444										
NAME OF SUBMITTER:	Patrick J. Hagan										

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PATENT
REEL: 022202 FRAME: 0060

Total Attachments: 6

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ASSIGNMENT

WHEREAS, We, the below-named inventors whose residences and post office addresses are as stated below (hereinafter referred to as ASSIGNORS) are co-inventors of an invention entitled **PROCESSES FOR HIGHLY ENANTIO- AND DISTEREOSELECTIVE SYNTHESIS OF ACYCLIC EPOXY ALCOHOLS AND ALLYLIC EPOXY ALCOHOLS**, which is the subject of U.S. Patent Application No. 10/592,075, filed in the U.S. Patent and Trademark Office September 7, 2006 (hereinafter referred to as "the Application"), as the U.S. national stage of International Patent Application No. PCT/US2005/007778, filed 9 March 2005 with a claim of priority based on U.S. Provisional Applications Nos. 60/551,482, filed 9 March 2004 and 60/610,491, filed 16 September 2004.

WHEREAS, The Trustees of the University of Pennsylvania, an institution organized and existing under and by virtue of the laws of the State of Pennsylvania, having a place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, (hereinafter referred to as ASSIGNEE) is desirous of acquiring all of ASSIGNORS' exclusive right, title and interest, for the United States of America and its territories, in and to the aforementioned invention and any improvements therein, the Application and any United States Letters Patent that may be granted thereon, including all divisionals, continuations, continuations-in-part, reissues, reexaminations, renewals and extensions thereof, if any.

NOW, THEREFORE, THIS IS TO WITNESS THAT in exchange for the payment to ASSIGNORS by ASSIGNEE of \$1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and set over and hereby do sell, assign and set over unto ASSIGNEE, in and throughout the United States of America and its territories, all of ASSIGNORS' exclusive right, title and interest in and to the Application, invention described and/or claimed therein and any improvements thereof, and to all Letters Patent or similar legal protection, to be obtained for said invention(s) based on the Application, by any prior or subsequent corresponding or related applications, or by any divisionals, continuations, continuations-in-part, reissues, reexaminations, renewals and extensions thereof, if any, for the full term or terms for which the same may be granted, including all priority rights under the International Convention, the same to be held by ASSIGNEE as fully and entirely as the same would have been held and enjoyed by ASSIGNORS, if this assignment had not been made;

ASSIGNORS hereby authorize and request the Commissioner of the United States Patent and Trademark Office to issue any and all of said Letters Patent, when granted, to the ASSIGNEE and as owner of the entire right, title and interest in and to said Letters Patent in accordance with this Assignment;

ASSIGNORS further agree to communicate to ASSIGNEE or their representatives any facts known to them respecting said application and invention, to testify in any legal proceedings related thereto, sign all lawful papers, to execute all divisional, continuation, continuation-in-part, reissue, reexamination, renewal and extension applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths, declarations or affidavits and generally do everything possible to aid said ASSIGNEE and

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Inventors: Patrick J. WALSH et al.

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their representatives to obtain and enforce proper protection for said invention in the United States of America and its territories; and

ASSIGNORS further agree that the terms, covenants and conditions of this Assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, as the case may be, and shall be binding on us, our heirs and legal representatives.

Full name of first inventor: **Patrick J. WALSH**

Signature *Patrick J. Walsh*

Date: Feb 5, 2008

Post Office Address:

4317 Osage Avenue

Philadelphia, Pennsylvania 19104

STATE OF Pennsylvania
COUNTY OF Philadelphia

On this 5 day of February, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared _____ to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instruction as his/her free and voluntary act and for the uses and purposes therein expressed.

Teresa M. Dunn
Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Teresa M. Dunn, Notary Public
City of Philadelphia, Philadelphia County
My commission expires August 12, 2011

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Full name of second inventor: Alice E. LURAIN

Signature: Alice E. LurainDate: 2-2-09

Post Office Address:

~~471 Carroll Street, #2L~~ 504 President St, #2,
Brooklyn, New York 11215STATE OF NEW YORKCOUNTY OF Kings

On this 2nd day of FEB, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Alice E. LURAIN to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instruction as his/her free and voluntary act and for the uses and purposes therein expressed.



Notary Public

KAMAL P. SONI
Notary Public, State of New York
No. 01906089949
Qualified in Kings County
Commission Expires March 31, 2011

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Inventors: Patrick J. WALSH et al.
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Full name of third inventor: Ann R. KELLY

Signature: _____

Date: _____

Post Office Address:

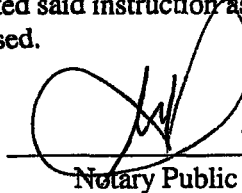
630 Los Angeles Avenue

Jenkintown, Pennsylvania 19046

STATE OF

COUNTY OF

On this 23rd day of January, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Ann R. Kelly to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instruction as his/her free and voluntary act and for the uses and purposes therein expressed.

 Jennifer Portuondo
Notary Public



JENNIFER PORTUONDO
Notary Public
Commonwealth of Massachusetts
My Commission Expires June 9, 2011

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Full name of fourth inventor: Aaron G. MAESTRI

Signature: *[Signature]*

Date: 10/23/2008

Post Office Address:

117 N. 15th Street #905

Philadelphia, Pennsylvania 19102

*AGM 1240 INDIA STREET, #800
SAN DIEGO, CA 92101*

STATE OF

COUNTY OF

On this _____ day of _____, 2007, before me, a Notary Public in and for the County and State aforesaid, appeared _____ to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instruction as his/her free and voluntary act and for the uses and purposes therein expressed.

Notary Public

*See Attached Acknowledgment
Comm #1773273
Exp: 10/14/11*

ACKNOWLEDGMENT

State of California

County of San Diego

On October 23, 2008 Before me, S.M. Okazaki, Notary Public

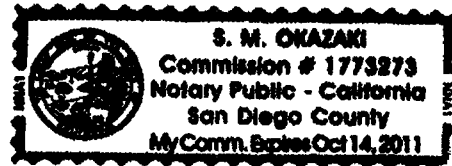
Personally appeared AARON GILBERT MAESTRI*****

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(s) 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 *AM Okazaki* (Seal)



ADDITIONAL OPTIONAL INFORMATION

ASSIGNMENT

DOCUMENT TITLE OR DESCRIPTION

DOCUMENT DATE: 10/23/08

NUMBER OF PAGES: 5

ABSTRACT (For Use Only)

CAPACITY CLAIMED BY THE SIGNER

- ☒ INDIVIDUAL
- ☐ CORPORATE OFFICER
- ☐ PARTNER(S)
- ☐ ATTORNEY-IN-FACT
- ☐ Trustee(s)
- ☐ OTHER

PATENT

RECORDED: 02/04/2009

REEL: 022202 FRAME: 0067