

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Corina Scriban</td><td>01/15/2008</td></tr><tr><td>David S. Glueck</td><td>01/08/2008</td></tr></tbody></table>	Name	Execution Date	Corina Scriban	01/15/2008	David S. Glueck	01/08/2008	
Name	Execution Date						
Corina Scriban	01/15/2008						
David S. Glueck	01/08/2008						
RECEIVING PARTY DATA							
Name:	Trustees of Dartmouth College						
Street Address:	11 Rope Ferry Road, #6210						
City:	Hanover						
State/Country:	NEW HAMPSHIRE						
Postal Code:	03755-1404						
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>11996008</td></tr></tbody></table>	Property Type	Number	Application Number:	11996008			
Property Type	Number						
Application Number:	11996008						
CORRESPONDENCE DATA							
Fax Number:	(856)810-1454						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(856) 810-1515						
Email:	dehret@licataandtyrrell.com						
Correspondent Name:	Licata & Tyrrell P.C.						
Address Line 1:	66 E. Main Street						
Address Line 4:	Marlton, NEW JERSEY 08053						
ATTORNEY DOCKET NUMBER:	DC0322US.NP						
NAME OF SUBMITTER:	Jane Massey Licata						
Total Attachments: 8 source=dc322usnp#page1.tif source=dc322usnp#page2.tif source=dc322usnp#page3.tif							

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PATENT
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FORM PTO-1595

1-31-92

Docket No.: DC0322US.NP

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To The Commissioner for Patents. Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies):
Corina Scriban and David S. GlueckAdditional name(s) of conveying party(ies)
attached?☐ YES ☒ NO

3. Nature of Conveyance:

☒ Assignment ☐ MergerExecution date: **Scriban: 1-15-08 and
Glueck: 1-8-08**

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

Name: **Trustees of Dartmouth College**

Internal Address:

Street Address: **11 Rope Ferry Road #6210**City: **Hanover**State: **New Hampshire**Zip: **03755-1404**

Additional names (s) & address attached?

☐ YES ☒ NO

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

A. **Patent Application No(s). 11/996,008** **Filed Not Assigned** . Patent No(s).

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

Additional numbers attached? ☐ YES ☒ NO5. Name and address of party to whom
correspondence concerning documents
should be mailed:**Licata & Tyrrell P.C.
66 E. Main Street
Marlton, New Jersey 08053**6. Total number of applications and patents involved: **One (1)**7. Total fee (37 CFR 3.41): **\$40.00**☐ Enclosed☒ Authorized to be charged to deposit account.8. Deposit Account number: **50-1619**(Attach duplicate copy of this page if paying by deposit
account.)**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.**Jane Massey Licata, Reg. No. 32,257**

Name of Person Signing

Signature *Jane Massey Licata***January 24, 2008**Total number of pages comprising cover sheet, attachments, and document: **Eight**

Mail documents to be recorded with required cover sheet information to:

Commissioner for Patents**Box Assignments****Alexandria, VA 22313-1450****PATENT****REEL: 020406 FRAME: 0332**

Attorney Docket No.: DC0322US.NP

A S S I G N M E N T

WHEREAS, we Corina Scriban of 24 Concord Avenue, Suite B, Cambridge, Massachusetts 02138 and David S. Glueck of 20 Macdonald Drive, Hanover, New Hampshire 03755, hereinafter referred to as the assignors are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Attorney Docket No. DC0322US.NP entitled **Method for Enantioselective Synthesis of Phosphorus-Stereogenic Phosphines**; and

WHEREAS, Trustees of Dartmouth College hereinafter referred to as the assignee, of 11 Rope Ferry Road, Hanover, NH 03755-1404, a corporation of New Hampshire, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application or any other application based in whole or in part thereon and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

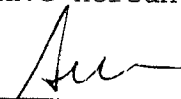
AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or

improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application herein as soon as the same shall have been made known to them by the United States Patent Office.

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


_____(L.S.)
Corina Scriban

Witnessed by:

Sara A. Franier
(Please print)

Dated: 1/15/2008

Name:

Address: 77 Massachusetts Ave
Cambridge, MA 02139

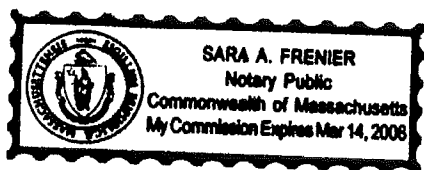
(Complete if signing before a Notary Public)

Massachusetts :

SS

COUNTY OF Middlesex :

On this 15 day of January, 2008, before me personally came the above named Corina Scriban to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.



Sara A. Frenier
Notary Public

_____(L.S.)
David S. Glueck

SS
COUNTY OF _____:

On this _____ day of _____, 200__, before me personally came the above named David S. Glueck to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

Notary Public

The above assignment covers application Serial No.
11/996,008, filed on January 17, 2008

The above insertion made by me this 24th day of
January, 2008.

Jane Massey Licata, Reg. No. 32,257 or
Kathleen A. Tyrrell, Reg. No. 38,350
of Licata & Tyrrell P.C.

Attorney Docket No.: DC0322US.NP

A S S I G N M E N T

WHEREAS, we Corina Scriban of 37 South Park Street, Apt. B, Hanover, New Hampshire 03755 and David S. Glueck of 20 Macdonald Drive, Hanover, New Hampshire 03755, hereinafter referred to as the assignors are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Attorney Docket No. DC0322US.NP entitled Method for Enantioselective Synthesis of Phosphorus-Stereogenic Phosphines; and

WHEREAS, Trustees of Dartmouth College hereinafter referred to as the assignee, of 11 Rope Ferry Road, Hanover, NH 03755-1404, a corporation of New Hampshire, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application or any other application based in whole or in part thereon and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, ~~to the full term of the legal representatives, to the full end of the term or~~ terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or

assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application herein as soon as the same shall have been made known to them by the United States Patent Office.

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

_____(L.S.)
Corina Scriban

_____: SS
COUNTY OF _____:

On this _____ day of _____, 200__, before me personally came the above named Corina Scriban to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

Notary Public

Paul (L.S.)
David S. Glueck

New Hampshire :
COUNTY OF Grafton SS :

On this 8th day of January, 2008, before me personally came the above named David S. Glueck to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

Lisa M. Jones
Notary Public

LISA M. JONES, Notary Public
My Commission Expires May 19, 2009

The above assignment covers application Serial No. 11/996,008, filed on January 17, 2008

The above insertion made by me this 24th day of January, 2008.

Jane Massey Licata, Reg. No. 32,257 or
Kathleen A. Tyrrell, Reg. No. 38,350
of Licata & Tyrrell P.C.