

## 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>Michael J. Orwat</td> <td>11/15/2012</td> </tr> <tr> <td>Donald J.P. Pinto</td> <td>11/15/2012</td> </tr> <tr> <td>Leon M. Smith II</td> <td>11/15/2012</td> </tr> </tbody> </table>		Name	Execution Date	Michael J. Orwat	11/15/2012	Donald J.P. Pinto	11/15/2012	Leon M. Smith II	11/15/2012				
Name	Execution Date												
Michael J. Orwat	11/15/2012												
Donald J.P. Pinto	11/15/2012												
Leon M. Smith II	11/15/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Bristol-Myers Squibb Company</td> </tr> <tr> <td>Street Address:</td> <td>Route 206 &amp; Province Line Road</td> </tr> <tr> <td>Internal Address:</td> <td>Patent Department</td> </tr> <tr> <td>City:</td> <td>Princeton</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>08543</td> </tr> </table>		Name:	Bristol-Myers Squibb Company	Street Address:	Route 206 & Province Line Road	Internal Address:	Patent Department	City:	Princeton	State/Country:	NEW JERSEY	Postal Code:	08543
Name:	Bristol-Myers Squibb Company												
Street Address:	Route 206 & Province Line Road												
Internal Address:	Patent Department												
City:	Princeton												
State/Country:	NEW JERSEY												
Postal Code:	08543												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1259932</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US1259932								
Property Type	Number												
PCT Number:	US1259932												
CORRESPONDENCE DATA													
<p>Fax Number: 6092524526</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 6092525312</p> <p>Email: patents@bms.com</p> <p>Correspondent Name: Hong Liu</p> <p>Address Line 1: Route 206 &amp; Province Line Road</p> <p>Address Line 2: Patent Department</p> <p>Address Line 4: Princeton, NEW JERSEY 08543</p>													
ATTORNEY DOCKET NUMBER:	12028-WO-PCT												
NAME OF SUBMITTER:	Hong Liu												
<p>Total Attachments: 3</p> <p>source=20121213_ASG1_12028WOPCT#page1.tif</p> <p>source=20121213_ASG1_12028WOPCT#page2.tif</p> <p>source=20121213_ASG1_12028WOPCT#page3.tif</p>													

CH \$40.00 US1259932

ASSIGNMENT

We,

**Michael J. Orwat, Donald J.P. Pinto and Leon M. Smith II,**

pursuant to contractual obligations heretofore assumed by us and/or for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to **Bristol-Myers Squibb Company**, a Delaware corporation, having a place of business at Rt. 206 & Province Line Road, Princeton, NJ 08543-4000, its successors, assigns and legal representatives, all our right, title and interest, which includes the right to and full benefit of such priorities as may now or hereafter be granted to us by local laws or by treaty, including any international convention for the protection of industrial property, in and for all countries of the world, including the United States and its territories and possessions, in and to the invention entitled:

**SUBSTITUTED TETRAHYDROISOQUINOLINE COMPOUNDS AS FACTOR XIA INHIBITORS**

invented by us and described in the PCT International Patent Application

**PCT/US2012/059932 filed 12 October 2012**

including said PCT International Patent Application and any application claiming priority from said PCT International Patent Application, filed in any country, and any patents which may be issued and/or granted thereon, and all divisions, continuations, reissues, reexamination certificates and extensions thereof in all countries, the said interest being the entire ownership of said invention and all of said applications, patents (including reissue patents), extensions and reexamination certificates to be held and enjoyed by the said Bristol-Myers Squibb Company and its successors and assigns to the full end of the terms to which said patents (including reissue patents), extensions and reexamination certificates may be granted and/or issued, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made;

and we hereby agree to communicate to said assignee or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, to sign and/or execute any further documents and/or instruments which may be necessary, lawful and proper in and/or for the filing and/or prosecution of all applications, including divisional, continuation and reissue applications, extensions and reexamination certificates and/or the granting and/or issuance thereof and/or to otherwise secure title to said invention and all of said applications, patents (including reissue patents, extensions and reexamination certificates) in said assignee, and in general to do everything possible to aid said assignee, its successors and assigns to obtain and enforce proper protection for said invention in all countries.

Signed this 15<sup>th</sup> day of November, 2012 by Michael J. Orwat  
Michael J. Orwat

STATE OF NEW JERSEY     )  
   )  
COUNTY OF MERCER     )

On the 15<sup>th</sup> day of November, 2012, before me came Michael J. Orwat, to me known to be the person of that name mentioned in, and who executed the foregoing Assignment and acknowledged that he/she executed it.

[SEAL]

SHARON MAY  
NOTARY PUBLIC NEW JERSEY  
COMM. #2411644 Exp 8/23/16  
Mercer County

Sharon May  
Notary Public

Signed this 15<sup>th</sup> day of November, 2012 by Donald J.P. Pinto  
Donald J.P. Pinto

STATE OF NEW JERSEY     )  
  )  
COUNTY OF MERCER     )

On the 15<sup>th</sup> day of November, 2012, before me came Donald J.P. Pinto, to me known to be the person of that name mentioned in, and who executed the foregoing Assignment and acknowledged that he/she executed it.

[SEAL]

SHARON MAY  
NOTARY PUBLIC NEW JERSEY  
COMM. #2411644 Exp 8/23/16  
Mercer County

Sharon May  
Notary Public

Signed this 15<sup>th</sup> day of November, 2012 by Leon M. Smith II  
Leon M. Smith II

STATE OF NEW JERSEY     )  
  )  
COUNTY OF MERCER     )

On the 15<sup>th</sup> day of November, 2012, before me came Leon M. Smith II, to me known to be the person of that name mentioned in, and who executed the foregoing Assignment and acknowledged that he/she executed it.

[SEAL]

SHARON MAY  
NOTARY PUBLIC NEW JERSEY  
COMM. #2411644 Exp 8/23/16  
Mercer County

Sharon May  
Notary Public