

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN M. STOLTZ	01/27/2016
YOSHITAKA NUMAJIRI	05/17/2016
BEAU P. PRITCHETT	01/27/2016
KOJI CHIYODA	08/18/2017
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State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14972475
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NAME OF SUBMITTER:	PATRICIA L. HENDERSON
SIGNATURE:	/Patricia L. Henderson/
DATE SIGNED:	09/01/2017
Total Attachments: 5	
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PATENT

REEL: 043470 FRAME: 0596

ASSIGNMENT

WHEREAS, I, **Brian M. Stoltz, Yoshitaka Numajiri, Beau P. Pritchett, and Koji Chiyoda**, have invented one or more inventions described in an application for Letters Patent of the United States, entitled "**ENANTIOSELECTIVE SYNTHESIS OF α -QUATERNARY MANNICH ADDUCTS BY PALLADIUM-CATALYZED ALLYLIC ALKYLATION**", the specification of which:

[] is being executed on even date herewith; and is about to be filed in the United States Patent Office;

[X] was filed on **December 17, 2015** as Application No. **14/972,475**;

[] was patented under U.S. Patent No. _____ on _____

WHEREAS, **CALIFORNIA INSTITUTE OF TECHNOLOGY**, (hereinafter "ASSIGNEE"), a California nonprofit organization, having principal offices at **1200 East California Boulevard, Pasadena, California 91125** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention(s) as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any substitution, reissue, continuation, divisional, revival and foreign counterparts thereof and including the right to claim priority under any applicable statute, treaty or convention based on said application; said invention(s), application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of


ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional, continuation or revival applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor:  Date: 1/27/2016
Brian M. Stoltz

Address: **1954 E. California Blvd.
Pasadena, CA 91125**

Witness:  Date: 1/27/16
Print Name: Lynne Martinez

Address: 509 E. Mission Road

Inventor: _____ Date: _____
Yoshitaka Numajiri

Address: **10-1, Tebiro 6-Chome
Kamakura
Kanagawa 248-8555
Japan**

Witness: _____ Date: _____

Print Name: _____

Address: _____

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AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional, continuation or revival applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor: _____ Date: _____
Brian M. Stoltz

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Witness: _____ Date: _____

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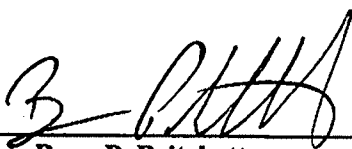
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Inventor: _____ Date: _____
Koji Chiyoda

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Japan

Witness: _____ Date: _____

Print Name: _____

Address: _____

ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of **California Institute Of Technology**.

By: /Fred Farina/ Date: 08/31/17

Name: Fred Farina

Title: Chief Innovation and Corporate Partnerships Officer

Inventor: _____ Date: _____

Beau P. Pritchett

Address: **450 S. Catalina Ave., #105
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Witness: _____ Date: _____

Print Name: _____

Address: _____

Inventor: Koji Chiyoda Date: 08/18/2017
Koji Chiyoda

Address: **Medicinal Chemistry Laboratories, Research Division
Mochida Pharmaceutical Co. Ltd, 22, Jinba, Gotenba-shi
Shizuoka, 412-8524
Japan**

Witness: Koji Chiyoda Date: 08/18/2017

Print Name: Koji Chiyoda

Address: Medicinal Chemistry Laboratories, Research Division Mochida Pharmaceut
Co. Ltd, 22, Jinba, Gotenba-shi, Shizuoka, Japan, 412-

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By: /Fred Farina/ Date: 08/31/17

Name: Fred Farina

Title: Chief Innovation and Corporate Partnerships Officer