

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4497599

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN K. THOTTATHIL	07/07/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	3ST RESEARCH LLC
<b>Street Address:</b>	6 KIMBALL CIRCLE
<b>City:</b>	WESTFIELD
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07090
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14953392
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	lmurphy@dsiplaw.com
<b>Correspondent Name:</b>	SERVILLA WHITNEY LLC
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<b>ATTORNEY DOCKET NUMBER:</b>	JKT0002-00US
<b>NAME OF SUBMITTER:</b>	DONNA R. FUGIT
<b>SIGNATURE:</b>	/Donna R. Fugit, Reg. #32135/
<b>DATE SIGNED:</b>	07/11/2017
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

WHEREAS, I, John K. Thottathil, residing at 28630 Skycrest Dr., Mundelein, IL 60060 (hereinafter "Assignor"), made certain new and useful inventions and improvements for which I filed applications for Letters Patent of the United States;

WHEREAS, 3ST Research LLC, a corporation organized and existing under and by virtue of the laws of the State of New Jersey, and having an office and place of business at 6 Kimball Circle, Westfield, NJ 07090 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

AND WHEREAS, Assignor wishes to assign to Assignee, and Assignee wishes to acquire from Assignor, the patent applications set forth in Schedule A attached hereto (collectively, the "Assigned Applications");

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Assigned Applications, and in and to the said Assigned Applications, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

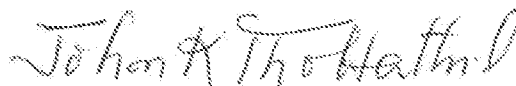
AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating

to said improvements and the history thereof and at no cost to me will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and at no cost to me will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 7<sup>th</sup> day of July, 2017.

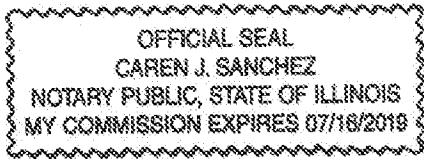


John K. Thottathil

STATE OF Illinois

COUNTY OF Lake

On this 7 day of July, 2017 before me personally appeared John K. Thottathil to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[SEAL]

\_\_\_\_\_  
Notary Public

A handwritten signature in black ink, appearing to be 'C. Sanchez', written over a horizontal line.

SCHEDULE A

1. Novel Alpha-Hydroxy Carboxylic Acid and Derivatives and Other GRAS Based Prodrugs of Oxycodone and Uses Thereof

U.S. Application No. 14/953,392, filed Nov. 29, 2015;  
International Application No. PCT/US16/63834, filed Nov. 28, 2016;  
U.S. Provisional Application No. 62/153,157, filed April 27, 2015.

2. Novel Alpha-Hydroxy Carboxylic Acid and Derivatives and Other GRAS Based Prodrugs of Oxymorphone and Uses Thereof

U.S. Application No. 14/956,143, filed Dec. 1, 2015;  
International Application No. PCT/US16/63836, filed Nov. 28, 2016;  
U.S. Provisional Application No. 62/153,157, filed April 27, 2015.

3. Methods and Compositions for Preventing Opioid Abuse

U.S. Application No. 15/139,836, filed April 27, 2016;  
U.S. Provisional Application No. 62/153,157, filed April 27, 2015;  
U.S. Application No. 15/431,624, filed Feb. 13, 2017;  
U.S. Application No. 15/431,572, filed Feb. 13, 2017.