PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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NOAH P. DUNHAM	03/15/2021
DANIEL J. WACKELIN	03/12/2021
ANDREW Z. ZHOU	03/15/2021
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RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17200394	

CORRESPONDENCE DATA

Fax Number:

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.

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Correspondent Name: MATTHEW WARD

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ATTORNEY DOCKET NUMBER:	086544-1218805-023410US
NAME OF SUBMITTER:	MATTHEW WARD
SIGNATURE:	/MATTHEW WARD/
DATE SIGNED:	05/25/2021

Total Attachments: 3

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Attorney Docket Nos. 086544-1218804-023400US 086544-1218805-023410US Client Ref. Nos. CIT 8443-P, CIT 8443

ASSIGNMENT (Patent Application)

We, the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

US Provisional Appln. No. 62/988,589 filed March 12, 2020, Caltech Ref. CIT 8443-P, entitled: "DIVERSE CARBENE TRANSFERASE ENZYME CATALYSTS DERIVED FROM A P450 ENZYME"; and

US Non-Provisional Appln. No. 17/200,394 filed March 12, 2021, Caltech Ref. CIT 8443, entitled: "DIVERSE CARBENE TRANSFERASE ENZYME CATALYSTS DERIVED FROM A P450 ENZYME".

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we acknowledge, we:

- 1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to California Institute of Technology, a university of the State of California having a principal place of business at 1200 E. California Blvd, Pasadena, CA 91125 ("Assignee"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, and all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) the right to claim priority to the above-referenced patent application, and any and all applications referenced in subsection (b); and
 - (d) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or

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claim intellectual property described in (a) of this paragraph, in whole or in part; and

- (e) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.
- 2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
- 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
- 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us, as well as our heirs, legal representatives, and assigns.
- 5. Promise and affirm that we have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
- 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our signatures.

		DocuSigned by:		
Signature:	_/	Chen, kai	/_ Date:	March 15, 2021
	Kai Chen	904A857F8E8142B		
Signature:		Male P. Durlam E0650D968A6B493	/_ Date:	March 15, 2021
	Noah P. Dunha	am		
		DocuSigned by:		
Signature:	_/	Daniel J. Wackelin	/_ Date:	March 12, 2021
	Daniel J. Wack	7FBB780977EA4A7	_	_

ASSIGNMENT

Attorney Docket Nos. 086544-1218804-023400US 086544-1218805-023410US Client Ref. Nos. CIT 8443-P, CIT 8443 Page 3 of 3

		PocuSigned by:		
Signature:	_/	Andrew E. Eliou	/_ Date:	March 15, 2021
	Andrew Z. Zho	50516E68C54840D 500		
Signature:	_/	Bun Lin	/_ Date:	March 12, 2021
	Zhen Liu	49D46105525E44D		

KILPATRICK TOWNSEND 74582814 1

RECORDED: 05/25/2021