PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI359696

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Richard F. Zheng	01/26/2024
Robert S. Wegeng	02/18/2024
Paul H. Humble	01/26/2024
Dustin D. Caldwell	03/11/2024
Richard B. Diver	01/26/2024

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16359909

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Total Attachments: 4

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To

Battelle Memorial Institute, Pacific Northwest National Laboratories

We, Richard F. Zheng, Robert S. Wegeng, Paul H. Humble, Dustin D. Caldwell, and Richard B. Diver, ("Assignors") hereby declare that we are the original, first and joint inventors of the concepts and technologies relating to the invention known as "REACTOR ASSEMBLIES AND METHODS OF PERFORMING REACTIONS" described in U.S. Patent Application Serial No. 17/834,673 filed on June 7, 2022, in International Application No. PCT/US20/23832 filed on March 20, 2020 and in U.S. Patent Application Serial No. 16/359,909 filed on March 20, 2019 (the "Invention").

Battelle Memorial Institute, Pacific Northwest National Laboratories ("Assignee") desires to acquire the ownership of all our entire right, title and interest, for all countries in and to the Invention and all the rights and privileges under any and all Letters Patent that may be granted therefore, and any divisions, continuations, reissues, renewals and extensions thereof.

Therefore, for valuable consideration, the receipt of which is acknowledged, Assignors hereby assigns to Assignee 100% of all right, title and interest in the Invention, including:

- (1) all patents which may be granted on the Invention;
- (2) all applications for patents (including divisions, continuations in whole or part or substitute applications in the United States or any other countries;
- (3) any reissues and extensions of such patents; and
- (4) all priority rights under the International Convention for the Protection of Industrial Property for every member country.

The undersigned Assignors warrants that to the best knowledge of the Assignors the right, title and interest in the Invention have not been previously licensed, pledged, assigned, or encumbered. Assignors agrees to cooperate with Assignee and to execute and deliver all papers, instruments, and assignments as may be necessary to vest all right, title, and interest in and to the intellectual property rights to the Invention in Assignee, at Assignee's expense. Assignors further agrees to testify in any legal proceeding, sign all lawful papers and applications, and make all rightful oaths and generally do everything possible to aid Assignee to obtain and enforce proper protection for the Invention in all countries, at Assignee's expense.

Assignee hereby acknowledges receipt of the full, exclusive, and entire right, title and interest in and to the Invention disclosed, shown, described, or claimed in the applications identified above; and in and to any extensions, reissues, divisions, continuations, or renewals thereof. And Assignee further acknowledges receipt of the whole right, title, and interest in any claim to priority based on the applications identified above and for which a priority claim may be made in applications US or foreign.

This Assignment is made effective as of the creation of the Invention or any component thereof.

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To

Battelle Memorial Institute, Pacific Northwest National Laboratories

INVENTORS

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To

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Date

ASSIGNEE

The individual whose signature and title are supplied below is authorized to act on behalf of Assignee.

By: 01 / 26 / 2024

Printed Name: Derek Maughan

Title: Director of IP Legal Services

Battelle Memorial Institute, Pacific Northwest National Laboratories

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