

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MIKHAIL REDKO	08/30/2018
CHRISTOPHER M. SAFFRON	02/14/2020
JAMES EDWARD JACKSON	02/13/2020
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US1844014
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<b>ATTORNEY DOCKET NUMBER:</b>	32213/52055A
<b>NAME OF SUBMITTER:</b>	KARIN KRAHN
<b>SIGNATURE:</b>	/Karin Krahn/
<b>DATE SIGNED:</b>	03/20/2020
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

As a below-named inventor, I hereby declare that:

My post office address is as stated below under my signature and I am named as an inventor of the inventions (herein INVENTIONS) as described in the patent application (herein APPLICATION) identified below.

**Title:** Electrochemical Reductive Carboxylation of Unsaturated Organic Substrates  
in Ionically Conductive Mediums

**Inventors:** Mikhail Redko, Christopher M. Saffron, and James Edward Jackson

**International Application Number:** PCT/US18/44014

**Filing Date:** July 27, 2018

**Attorney Docket:** 32213/52055A PCT

In view of valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and further in view of my obligations respecting "University Inventions" as set forth in the current version of the MSU Faculty Handbook, I do hereby assign and transfer unto the BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, 450 Administration Building, East Lansing, MI 48824-1046 (herein ASSIGNEE), my entire right, title and interest in and to the INVENTIONS, the APPLICATION and the right of priority thereto, and all related applications (including provisional applications, non-provisional regular applications, divisions, reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post grant reviews, continuations, international patent applications, foreign patent applications, supplementary protection certificates, and extensions thereof, whether or not claiming priority to the APPLICATION) and all counterparts in other countries and any and all Letters Patent (and certificates of invention or similar certificates) (herein PATENTS) which may be granted based upon the INVENTIONS or the APPLICATION or related applications or counterparts in other countries, including the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present, or future infringement of any of the foregoing, the right to claim priority benefit to the APPLICATION or related applications, and the right to issue the PATENTS in the name of the ASSIGNEE, this assignment being applicable throughout the world; and I do hereby agree to assign and transfer unto ASSIGNEE, its successors or assigns, on like terms as set forth in this Assignment, my entire right, title and interest in and to any continuation-in-part applications related to the APPLICATION or to any other related applications related to the APPLICATION herein assigned (including non-provisional regular applications, divisions, reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post grant reviews, continuations, international patent applications, foreign patent applications, supplementary protection certificates, and extensions thereof claiming priority to the APPLICATION).

I agree that I will communicate to ASSIGNEE or its designated representatives any material facts known to me respecting the INVENTIONS and/or the APPLICATION; testify in any legal proceedings respecting the INVENTIONS; and execute any and all papers deemed necessary by ASSIGNEE, its successors or assigns, to secure the rights herein assigned.

Atty. Docket No. 32213/52055A PCT  
Redko et al., "ELECTROCHEMICAL REDUCTIVE CARBOXYLATION OF  
UNSATURATED ORGANIC SUBSTRATES IN IONICALLY CONDUCTIVE MEDIUMS"

I hereby represent and warrant that (i) I have the right to make this assignment to the ASSIGNEE, (ii) I have not granted any rights inconsistent with the rights granted herein, and (iii) there are no outstanding encumbrances, liens, prior assignments, licenses or other obligations or restrictions on the rights, titles, and interest herein assigned.

I authorize ASSIGNEE or its representatives to complete the International Application Number and and Filing Date of the APPLICATION, once known, if that information is not specified above as of the date of my signature hereto.

On behalf of Assignee,

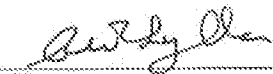
Richard Chylla

Name

Executive Director of MSU Technologies, authorized to sign on behalf of  
Board of Trustees of Michigan State University

Title

hereby confirms Assignee's acceptance.

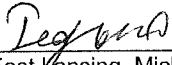


Signature

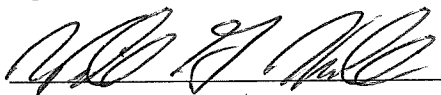
2/20/20

Date

FULL NAME OF INVENTOR : Mikhail Redko

Inventor's signature :  Date: Aug 30, 2018  
Residence : East Lansing, Michigan  
Citizenship : US  
Post Office Address : 1224 Woodcrest Lane, Apt. #202  
East Lansing, Michigan 48823

Signed and witnessed in the presence of:

  
William G Killian  
(Typed or printed name of witness)

FULL NAME OF INVENTOR : Christopher M. Saffron

Inventor's signature : \_\_\_\_\_ Date: \_\_\_\_\_  
Residence : Okemos, Michigan  
Citizenship : US  
Post Office Address : 4210 Aztec Way  
Okemos, Michigan 48864

Signed and witnessed in the presence of:

\_\_\_\_\_  
\_\_\_\_\_  
(Typed or printed name of witness)

FULL NAME OF INVENTOR : Mikhail Redko

Inventor's signature : \_\_\_\_\_ Date: \_\_\_\_\_  
Residence : East Lansing, Michigan  
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Signed and witnessed in the presence of:

\_\_\_\_\_

(Typed or printed name of witness)

FULL NAME OF INVENTOR : Christopher M. Saffron

Inventor's signature : Chris M. Saffron Date: 02/14/2020  
Residence : Okemos, Michigan  
Citizenship : US  
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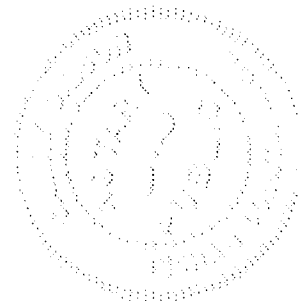
Signed and witnessed in the presence of:

Cammy Gilson 02/14/2020

Cammy Gilson 02/14/2020

(Typed or printed name of witness)

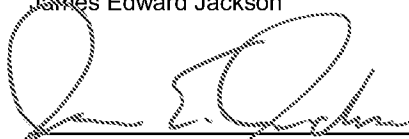
CAMRY GILSON  
NOTARY PUBLIC, STATE OF MI  
COUNTY OF INGHAM  
MY COMMISSION EXPIRES May 18, 2026  
ACTING IN COUNTY OF Ingham



FULL NAME OF INVENTOR : James Edward Jackson

Inventor's signature :

Residence :

  
Haslett, Michigan

Date:

13 Feb 2020

Citizenship :

Post Office Address :

US

6232 West Reynolds Road  
Haslett, Michigan 48840

Signed and witnessed in the presence of:

  
\_\_\_\_\_

Babak Bochar  
\_\_\_\_\_

(Typed or printed name of witness)