

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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|---|---------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HENRY CHAN | 01/06/2020 |
| BADRI NARAYANAN | 01/02/2020 |
| MATHEW J. CHERUKARA | 12/18/2019 |
| STEPHEN K. GRAY | 01/01/2020 |
| TROY DAVID LOEFFLER | 06/16/2020 |
| SUBRAMANIAN SANKARANARAYANAN | 04/21/2020 |
| RECEIVING PARTY DATA | |
| Name: | UCHICAGO ARGONNE, LLC |
| Street Address: | 5801 SOUTH ELLIS AVENUE |
| City: | CHICAGO |
| State/Country: | ILLINOIS |
| Postal Code: | 60637 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16704936 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Phone: | 3128324559 |
| Email: | jwiggins@foley.com |
| Correspondent Name: | MATTHEW E. MARTIN/FOLEY & LARDNER LLP |
| Address Line 1: | 321 N. CLARK STREET |
| Address Line 2: | SUITE 3000 |
| Address Line 4: | CHICAGO, ILLINOIS 60654 |
| ATTORNEY DOCKET NUMBER: | 051583-0905 |
| NAME OF SUBMITTER: | MATTHEW E. MARTIN |
| SIGNATURE: | /Matthew E. Martin/ |
| DATE SIGNED: | 10/13/2022 |

Total Attachments: 6

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ASSIGNMENT

I, Henry Chan of Schaumburg, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

And for the above-named considerations, I hereby agree that I will without additional compensation but without cost to myself, promptly communicate to said UChicago Argonne, LLC, its successors and assigns, any facts known to us respecting said invention whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications for Letters Patent, Inventor's Certificates, Utility Models and Designs and assignments thereof, make all rightful oaths and generally do everything possible to aid said assignee, its successors and assigns, as and when requested by them, in obtaining and enforcing proper Letters Patents, Inventor's Certificate, Utility Model and Design protection for said invention or inventions and improvements, in the United States and in all other countries.

Henry Chan
Printed Name

Jan 6, 2020
Printed Date


Signature

SRILOK SRINIVASAN
Witness Printed Name

JAN 6, 2020
Printed Date


Witness Signature

PATENT

REEL: 061416 FRAME: 0754

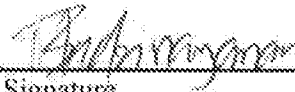
ASSIGNMENT

I, Badri Narayanan of Clarendon Hills, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

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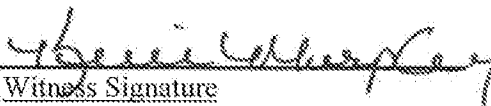
Badri Narayanan
Printed Name

01/02/2020
Printed Date


Signature

Kevin D Murphy
Witness Printed Name

01/02/2020
Printed Date


Witness Signature

ASSIGNMENT

I, Mathew J. Cherukara of Elmhurst, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

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Mathew J. Cherukara
Printed Name

12/18/19
Printed Date

Mathew Cherukara
Signature

Tao Zhou
Witness Printed Name

12/18/19
Printed Date

Tao Zhou
Witness Signature

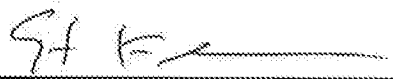
ASSIGNMENT

I, Stephen K. Gray of Wheaton, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

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Stephen K. Gray
Printed Name

Jan. 1, 2020
Printed Date


Signature

Cristian Cortes
Witness Printed Name

01/02/2020
Printed Date


Witness Signature

ASSIGNMENT

I, Troy David Loeffler of Chicago, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventor's Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

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Troy David Loeffler
Printed Name

6/16/20
Printed Date

Designed by:
Troy David Loeffler
Signature

DEBBIE J. KRAKOWSKI
Witness Printed Name

6/16/20
Printed Date

Debbie J. Krakowski
Witness Signature

ASSIGNMENT

I, Subramanian Sankaranarayanan of Naperville, IL for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto UChicago Argonne, LLC, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the, "SYSTEMS AND METHODS FOR DESIGNING HEIRARCHICAL MULTI-OBJECTIVE OPTIMIZATION" (ANL-IN-19-010) filed in the U.S. Patent and Trademark Office on December 5, 2019 as Application Serial No.16/704,936 and any divisions and continuations thereof (CIP filed and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UChicago Argonne, LLC, its successors and assigns.

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Apr 21 2020

Subramanian

Subramanian
Sankaranarayanan
Printed Name

Printed
Date

Signature

Debbie J. Krakowski

Debbie Krakowski
Witness Printed Name

4-21-2020
Printed
Date

Witness Signature