505394746 03/26/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5441540

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|--|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| UCHICAGO ARGONNE, LLC | 10/05/2018 |

RECEIVING PARTY DATA

| Name: | UNITED STATES DEPARTMENT OF ENERGY | |
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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16147347 |

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| ATTORNEY DOCKET NUMBER: | 16-147347 CAR |
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| DATE SIGNED: | 03/26/2019 |

Total Attachments: 1

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PATENT 505394746 REEL: 048708 FRAME: 0084

CONFIRMATORY LICENSE

Title of Invention:

METHOD FOR NANO POWDER LOADING INTO MICRO-

CAPILLARY MOLD

Inventors:

Abdellatif Yacout, Sumit Bhattacharya

Patent Application Serial No.: 16/147,347

Filing Date: September 28, 2018

Patent Number:

Issue Date:

Contractor:

UChicago Argonne, LLC

DOE Contract No.: DE-AC02-06CH11357

DOE Case No.: S-149.341

ANL Case No.: ANL-IN-17-152

The Contractor has reported the above-identified invention as a subject invention to DOE and has elected to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have practiced for or on behalf of the United States throughout the world; and of all other rights acquired by the Government by the patent rights clause in the above-identified contract.

It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified subject invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 5TH DAY OF OCTOBER, 2018

Contractor Name: UChicago Argonne, LLC

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Chief Patent Counsel

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> **PATENT** REEL: 048708 FRAME: 0085

RECORDED: 03/26/2019