506380394 12/02/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6427150

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| OSGAR JOHN OHANIAN III | 02/21/2019 |
| MATTHEW ANTHONY DAVIS | 02/21/2019 |

RECEIVING PARTY DATA

| Name: | LUNA INNOVATIONS INCORPORATED |
|-------------------|-------------------------------|
| Street Address: | 301 1ST STREET SW |
| Internal Address: | SUITE 200 |
| City: | ROANOKE |
| State/Country: | VIRGINIA |
| Postal Code: | 24011 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16114376 |

CORRESPONDENCE DATA

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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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| ATTORNEY DOCKET NUMBER: | JRL-4271-350B |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | JOHN R. LASTOVA |
| SIGNATURE: | /John R. Lastova/ |
| DATE SIGNED: | 12/02/2020 |

Total Attachments: 2

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PATENT 506380394 REEL: 054514 FRAME: 0274

ASSIGNMENT FOR PATENT APPLICATION (All Rights)

WHEREAS, Osgar John Ohanian III and Matthew Anthony Davis (hereinafter
ASSIGNORS) have made invention(s) disclosed in a provisional application entitled IN-SITU
STRESS ROCK FRACTURE SENSING WITH HIGH-DEFINITION FIBER OPTIC SENSING
(HD-FOS) TECHNOLOGY for which a so-entitled U.S. provisional patent application was filed in
the United States Patent and Trademark Office on August 29, 2017 under Application No.
62/551,419 and for which a U.S. regular patent application entitled DISTRIBUTED
MEASUREMENT OF MINIMUM AND MAXIMUM IN-SITU STRESS IN SUBSTRATES was
filed in the United States Patent and Trademark Office on August 28, 2018 under Application No.
16/114,376;

WHEREAS, LUNA INNOVATIONS INCORPORATED (hereinafter ASSIGNEE), a corporation of Delaware, having an office and place of business at 301 1st Street SW, Suite 200, Roanoke, Virginia 24011, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNORS sells, assigns, and transfers to the ASSIGNEE, its successors, assigns, and legal representatives, the ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid applications, and to the applications and to all subsequent applications based thereon including any and all regular, PCT, continuation, continuation-in-part, division, reissue, and substitute applications, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all resulting Letters Patents to the ASSIGNEE, for Page 1 of 2

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PATENT REEL: 054514 FRAME: 0275 its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS agree to transfer a like interest upon request of the ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the invention;

ASSIGNORS agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

| 2-21-2019 | Or/(402 TC | |
|-----------------------------|----------------------------------------|--|
| Date | Osgar John Ohanian III | |
| Witnessed by 5, 4 | PerekRountree | |
| Name: 2-21-2011 | | |
| Date | | |
| 215882019 | | |
| Date | Matthew Anthony Davis | |
| Witnessed by 5/ | Desek Rountrea | |
| Name: 2-2/-20/9 | | |
| Date Witnessed by: S/ Name: | Matthew Anthony Davis Ocrek Pountress | |

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