504804000 03/05/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4850732

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------|----------------|
| COLORADO SCHOOL OF MINES | 02/28/2018 |

RECEIVING PARTY DATA

| Name: | NATIONAL SCIENCE FOUNDATION |
|-------------------|-----------------------------|
| Street Address: | 2415 EISENHOWER AVENUE |
| Internal Address: | ROOM W 18000 |
| City: | ALEXANDRIA |
| State/Country: | VIRGINIA |
| Postal Code: | 22314 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13065778 |

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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> **PATENT** REEL: 045106 FRAME: 0034 504804000

License to the United States Government

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| Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). |
|---|
| nvention Title: Spatially chirped pulses for femtosecond laser ablation through transparent |
| materials |
| Inventor(s): Jeff Squier, Dawn Vitek, Charles Durfee, Dan Adams, David Kleinfeld |
| U.S. Filing/Issue Date: 03/30/2011 |
| Patent or Application Serial No.: 13/065,778 |
| Grant/Contract Number(s): DMR0820518, W-31-109-ENG-38 |
| Foreign Applications filed/intended in (countries): |
| The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq. , and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of: |
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| Signed this 25 day of February, 20 18. By W: I (iam Vanaham William Vanaham (Signature) |
| Title Director, 110 |
| For COLORADO SCHOOL OF MINES (Grantee/Contractor Organization) |
| At Office of Technology Transfer 1500 Illinois Street Golden, CO 80401 (Business Address) |

PATENT REEL: 045106 FRAME: 0035