506309178 10/19/2020

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
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| COLORADO SCHOOL OF MINES | 08/13/2019 |

RECEIVING PARTY DATA

| Name: | UNITED STATES DEPARTMENT OF ENERGY |
|-----------------|------------------------------------|
| Street Address: | 1000 INDEPENDENCE AVE. S.W. |
| City: | WASHINGTON |
| State/Country: | D.C. |
| Postal Code: | 20585 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15225690 |

CORRESPONDENCE DATA

Fax Number: (630)252-2779

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.

Phone: (630) 252-2137

Email: Confirmatory.License@science.doe.gov

Correspondent Name: TIMOTHY L HARNEY **Address Line 1:** 9800 S. CASS AVE

Address Line 2: IPLD

Address Line 4: LEMONT, ILLINOIS 60439

| ATTORNEY DOCKET NUMBER: | 15-225690 CAR |
|-------------------------|------------------|
| NAME OF SUBMITTER: | CYNTHIA RIDGE |
| SIGNATURE: | /S/CYNTHIA RIDGE |
| DATE SIGNED: | 10/19/2020 |

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PATENT 506309178 REEL: 054094 FRAME: 0012

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| Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). |
|---|
| Invention Title: BENEFICIATION OF RARE EARTH ELEMENTS BEARING ANCYLITE |
| Inventor(s): Hoa Cui, Corby Anderson |
| U.S. Filing/Issue Date: 07/31/2015 |
| Patent or Application Serial No. 15/225,690 |
| Grant/Contract Number(s): DE-AC02-98CH10886 |
| 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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| The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. |
| Signed this 13th day of August , 20 19 |
| By William Vaughan (Institutional Business Official) (Signature) |
| Title Director, Technology Transfer |
| For COLORADO SCHOOL OF MINES (Grantee/Contractor Organization) |
| At Office of Technology Transfer 1500 Illinois Street Golden, CO 80401 (Business Address) |

PATENT REEL: 054094 FRAME: 0013

RECORDED: 10/19/2020