

|                                      |
|--------------------------------------|
| <b>PATENT ASSIGNMENT COVER SHEET</b> |
|--------------------------------------|

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5165108

|   |  |
|---|--|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                             |
| <b>NATURE OF CONVEYANCE:</b>  | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                      |
| SOUTHERN RESEARCH INSTITUTE   | 09/28/2018                                 |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | UNITED STATES DEPARTMENT OF ENERGY         |
| <b>Street Address:</b>  | 1000 INDEPENDENCE AVE. S.W.                |
| <b>City:</b>  | WASHINGTON                                 |
| <b>State/Country:</b>   | D.C.                                       |
| <b>Postal Code:</b>   | 20585                                      |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                              |
| <b>Application Number:</b>  | 15175817                                   |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (630)252-2779                              |
| <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> |  |
| <b>Phone:</b>   | (630) 252-2137                             |
| <b>Email:</b>   | Confirmatory.License@science.doe.gov       |
| <b>Correspondent Name:</b>  | TIMOTHY L HARNEY                           |
| <b>Address Line 1:</b>  | 9800 S. CASS AVE                           |
| <b>Address Line 2:</b>  | IPLD                                       |
| <b>Address Line 4:</b>  | ARGONNE, ILLINOIS 60439                    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 15/175,817 PSL                             |
| <b>NAME OF SUBMITTER:</b>   | PAULA S LEON                               |
| <b>SIGNATURE:</b>   | /Paula S Leon/                             |
| <b>DATE SIGNED:</b>   | 09/28/2018                                 |
| <b>Total Attachments: 1</b>   |  |
| source=Confirmatory License 15-175817 signed#page1.tif  |  |



**Department of Energy**

**Office of Science**

[science.energy.gov/isc/services/legal/](http://science.energy.gov/isc/services/legal/)

**CONFIRMATORY LICENSE**

Title of Invention: Sulfur resistant catalyst for reforming applications  
Inventor(s): Amit Goyal, Santosh Gangwal, Andrew Lucero  
Patent Application Serial No: 15/175,817 **Filing Date** 06/06/2016  
Patent Number: not yet issued **Issue Date:**  
Name of Contractor (i.e. Contractor, Subcontractor, Grant, or Cooperative Agreement, as applicable):  
Name of Contractor: Southern Research Institute  
DOE Contract No. (i.e. Contract, Subcontract, Grant, or Cooperative Agreement, as applicable):  
DE-FE0012054  
DOE Case No.: S-143,820 **Contractor Docket No.:** S0387

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 on: Sept. 28, 2018

Contractor Name Southern Research Institute  
Official's Name Michael Catalano  
Official's Title Vice President and General Counsel  
Business Address 2000 9th Ave South Birmingham, AL 35205