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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

JEFFREY MAYS
SREENIVASAN RAVISHANKAR

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 20 July 2016 & 25 July 2016

- Assignment
- Security Agreement
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____
- Merger
- Change of Name

2. Name and address of receiving party(ies)

Name: GAS TECHNOLOGY INSTITUTE

Internal Address: _____

Street Address: 1700 SOUTH MOUNT PROSPECT ROAD

City: DES PLAINES

State: ILLINOIS

Country: US Zip: 60018-1804

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

15/165,521

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: NICK C. KOTTIS

Internal Address: PAULEY ERICKSON & KOTTIS

Street Address: 2800 WEST HIGGINS ROAD
SUITE 365

City: HOFFMAN ESTATES

State: ILLINOIS Zip: 60169

Phone Number: (847) 490-1400

Docket Number: GTI-6053

Email Address: pto@pauleyip.com

6. Total number of applications and patents involved: _____

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 19-3550

Authorized User Name PAULEY ERICKSON & KOTTIS

9. Signature:

Nick C. Kottis
Signature

01 August 2016
Date

Nick C. Kottis
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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ASSIGNMENT

WHEREAS, We the following inventors

1. Name: Jeffrey MAYS
Residence: Woodland Hills, California
Post Office Address: 4572 Larkwood Avenue
Woodland Hills, California 91364

2. Name: Sreenivasan RAVISHANKAR
Residence: Vancouver, Washington
Post Office Address: 12800 NE Salmon Creek Avenue, B106
Vancouver, Washington 98686

hereinafter referred to as ASSIGNORS, have invented certain new and useful improvements in an invention entitled:

**HYDROGEN PRODUCTION VIA SORBENT ENHANCED REFORMING
WITH ATMOSPHERIC CALCINATION**

which is described and claimed in an application for Letters Patent of the United States having Application Serial Number 15/165,521, filed on 26 May 2016, and naming as inventors Jeffrey MAYS and Sreenivasan RAVISHANKAR; said improvements as described and claimed in said application for Letters Patent of the United States, being hereinafter referred to as said "Invention"; and

WHEREAS, Gas Technology Institute a not-for-profit corporation duly organized and existing under and by virtue of the laws of the State of Illinois and having its principal office and place of business at 1700 South Mount Prospect Road, Des Plaines, Illinois 60018, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under Letters Patent therefor in the United States and countries foreign thereto;

NOW THEREFORE BE IT KNOWN THAT, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenant that ASSIGNORS have the full right so to do; and the Commissioner of


ASSIGNMENT

Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNORS' entire interest.

ASSIGNORS further agree to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNORS regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention, in the United States and countries foreign thereto.

7/25/16

Date



Jeffrey MAYS

Date

Sreenivasan RAVISHANKAR

ASSIGNMENT

Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNORS' entire interest.

ASSIGNORS further agree to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNORS regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention, in the United States and countries foreign thereto.

Date

July 20, 2016
Date

Jeffrey MAYS



Sreenivasan RAVISHANKAR

GTI-6053

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NCK/mem