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S-113,407

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)

Velocys, Inc.

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

3. Nature of conveyance/Execution Date(s):Execution Date(s) October 19, 2011

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

2. Name and address of receiving party(ies)Name: United States Department of Energy

Internal Address: _____

Street Address: 1000 Independence Ave., S.W.City: WashingtonState: D.C.Country: USA Zip: 20585

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

4. Application or patent number(s):

A. Patent Application No.(s)

Serial No. 12/184,843

☐ This document is being filed together with a new application.
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:Name: Mark P. DvorscakInternal Address: U. S. Dept. of Energy, IPLDStreet Address: 9800 S. Cass AveCity: ArgonneState: IL Zip: 60439Phone Number: 630-252-2393Fax Number: 630-252-2779

Email Address: _____

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** _____

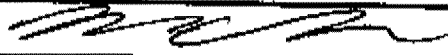
- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

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9. Signature:

Signature

12-8-11

Date

Mark C. Lang #55,356
Name of Person Signing

Total number of pages including cover
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2

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT

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CONFIRMATORY LICENSE

October 19, 2011

Intellectual Property Law Division
 U.S. Department of Energy
 Chicago Operations Office
 98000 South Cass Avenue
 Argonne, IL 60439

Reference: DOE Contract Number DE-FC26-03NT41905
 Project Title: Upgrading Methane Streams with Ultra Fast TSA

To whom it may concern:

In accordance with its obligations under the referenced contract, Velocys, Inc. ("Contractor of DOE") hereby reports the following invention as a "Subject Invention" and hereby has elected to retain title thereto.

Title of Invention:	Methods for applying microchannels to separate methane using liquid absorbents, especially ionic liquid absorbents from a mixture comprising methane and nitrogen
Inventor(s):	Anna Lee Y. Tonkovich, Robert D. Litt, Dongming Qiu, Laura J. Silva, Micheal Jay Lamont, Maddalena Fanelli, Wayne W. Simmons, Steve Perry
Patent Application Serial No.:	12/184,843
Filing Date:	08/01/2008
Patent Number:	US 8,029,604 B2
Issued Date:	10/04/2011
Name of Contractor:	Velocys, Inc.
DOE Case Number:	DE-FC26-03NT41905
Contractor Docket Number:	07-024A

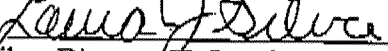
Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up, worldwide license in this subject invention, patent application and any resulting patent, including any continuation, divisional, reissue, or supplemental application thereof, to practice or to have 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.

Please contact me with any questions at 614-733-3313 or silva@velocys.com.

Sincerely,

Signature: 
Laura J. Silva, Director, IP, Legal, and Licensing

Enclosures: United States Patent