

Form PTO-1595 (Rev. 06-12)
OMB No. 0651-0027 (exp. 04/30/2015)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

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)

AEROJET ROCKETDYNE OF DE, INC.

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

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

Execution Date(s) 06 July 2015

- ☒ 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: Gas Technology Institute

Internal Address: _____

Street Address: 1700 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)

See attached list

See attached list

Additional numbers attached? ☒ Yes ☐ No

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

Name: Kevin D. Erickson

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-9008

Email Address: pto@ppelaw.com

6. Total number of applications and patents involved: fifty four (54)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 2,160.00

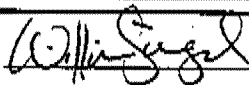
- ☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 19-3550

Authorized User Name Pauley Erickson & Kottis

9. Signature:



Signature

18 August 2015

Date

William R. Siegel

Name of Person Signing

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

23

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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REEL: 036395 FRAME: 0477

OP \$2160.00 13180755

A. Patent Application Nos.	B. Patent Nos.
13/180,755	6,920,836
13/543,311	7,402,188
14/116,845	7,547,423
14/116,858	7,731,783
14/429,853	7,740,671
12/556,009	7,740,672
12/794,218	7,972,572
13/604,201	8,196,848
62/167,871	8,308,829
13/407,273	8,673,234
13/448,293	8,711,604
13/733,941	8,821,600
13/733,988	8,161,725
13/187,065	6,755,359
12/872,286	8,887,503
14/296,761	6,942,719
	7,182,803
	7,192,569
	7,303,597
	7,360,639
	7,459,131
	7,547,419
	7,615,198
	7,927,574
	8,011,861
	8,105,541
	8,167,978
	8,231,068
	7,717,046
	8,307,974
	8,408,424
	8,439,185
	8,561,791
	8,631,927
	RE42,844
	8,939,278
	8,893,878
	8,851,406

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PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is hereby entered into on July 6, 2015 (the "Effective Date"), by and among Aerojet Rocketdyne of DE, Inc., a Delaware corporation and Aerojet Rocketdyne, Inc., an Ohio corporation (collectively, "Donor"), on the one hand, and Gas Technology Institute, an Illinois not for profit corporation ("Donee"), on the other hand, pursuant to that certain Donation Agreement, dated as of July 6, 2015, by and among Donor, on the one hand and Donee, on the other hand (as amended, restated or otherwise modified from time to time, the "Donation Agreement"). Capitalized terms used and not defined herein shall have the respective meanings ascribed to them in the Donation Agreement.

1. Pursuant to, and upon the terms of, the Donation Agreement, Donor has agreed to donate, convey, assign and transfer to Donee, and Donee has agreed to accept: (i) the entire worldwide right, title and interest of Donor in and to each and all Letters Patent and patent applications in the United States and in all foreign countries including, without limitation corresponding Patent Cooperation Treaty patent applications and corresponding national patent applications and all inventions, improvements and discoveries disclosed in said Letters Patent and applications, as set forth in Schedule A hereto, and in and to all substitutions, divisions, continuations, continuations-in-part, reexaminations, extensions, renewals, reissues (as applicable) thereof, and any other application claiming priority thereto including without limitation, all rights of priority resulting from the filing of patent applications relating to any of the foregoing as well as any and all choses in action and any and all claims and demands, both at law and in equity, that Donor has or may have for damages or profits accrued or to accrue on account of the infringement of any of said Letters Patent and all patent applications, whether past, present, and/or future, inventions, improvements and discoveries (or any provisional rights therein), and all rights pursuant to 35 U.S.C. § 154, the same to be held and enjoyed by Donee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Donor if the assignment set forth in this Assignment had not been made; (ii) the full and complete right to prosecute, maintain and file patent applications in the name of the Donor or its designee, at the Donor's, or its designee's election, on the aforesaid inventions, improvements, discoveries and applications in all countries of the world; (iii) the entire right, title and interest of Donor in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (iv) all rights in and to the Letters Patent and applications listed in Schedule A. All of the foregoing is hereafter collectively referred to as "Patents".

2. Donor desires to transfer and assign to Donee, and Donee desires to accept the transfer and assignment of all of Donor's right, title and interest in, to and under such Patents and in and to the inventions represented thereby, free and clear of all Encumbrances.

3. Donor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby donate, convey, transfer and assign to Donee, and Donee hereby accepts the donation, conveyance, transfer and assignment of all worldwide right, title and interest of Donor in, to and under the Patents, together with the right of Donor to claim priority in all countries in accordance with international law, any and all rights of Donor

PATENT

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corresponding to said Patents in countries throughout the world, and all of Donor's rights to sue for past, present or future infringement of said Patents worldwide together with all claims for damages by reason of past, present or future infringement of said Patents, all rights pursuant to 35 U.S.C. § 154, and the right to sue for and collect the same for Donee's own use and enjoyment, all to be held and enjoyed by said Donee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Donor had this Assignment not been made. Donor hereby authorizes and requests the United States Patent and Trademark Office to issue said Letters Patent and patent applications in accordance with this Agreement. Donor will take commercially reasonable actions as reasonably requested by Donee to fully accomplish the sale, conveyance, transfer, and assignment in this Assignment.

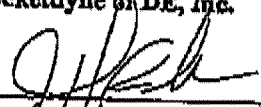
4. Notwithstanding anything to the contrary herein, Donor and Donee are executing and delivering this Assignment in accordance with the Donation Agreement. This Assignment does not affect the terms and conditions of the Donation Agreement, and does not increase any liabilities or obligations nor decrease any rights or interests of either Donor or Donee thereunder.

5. Sections 10.1 to 10.19 of the Donation Agreement are hereby incorporated *mutatis mutandis*.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Donor and Donee have caused this Patent Assignment Agreement to be executed and delivered by their duly authorized representatives as of the Effective Date.

Aerojet Rocketdyne of DE, Inc.

By: 

Name: Jeffrey L. Robb

Title: Vice President

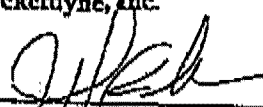
Gas Technology Institute

By: _____

Name: James Ingold

Title: Chief Financial Officer

Aerojet Rocketdyne, Inc.

By: 

Name: Jeffrey Robb

Title: Assistant Secretary

[Signature Page to Patent Assignment Agreement]

IN WITNESS WHEREOF, Donor and Donee have caused this Patent Assignment Agreement to be executed and delivered by their duly authorized representatives as of the Effective Date.

Aerojet Rocketdyne of DE, Inc.

By: _____

Name: _____

Title: _____

Gas Technology Institute

By: James Ingold

Name: James Ingold

Title: Chief Financial Officer

Aerojet Rocketdyne, Inc.

By: _____

Name: _____

Title: _____

[Signature Page to Patent Assignment Agreement]

SCHEDULE A***Patents***

Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
Gasification	6920836	10/677,817	Regeneratively cooled synthesis gas generator	10/02/2003	7/26/2005	European Patent Office 4821797 filed 10/1/2004	Licensed to Boeing, UTC, EMRE
Gasification	7402188	10/931,061	Method and apparatus for coal gasifier	08/31/2004	7/22/2008	Canada 2542552 issued 11/26/2013; European Patent Office 05779107.1 filed 8/3/2005	Licensed to Boeing, UTC, EMRE
Gasification	7547423	11/081,144	Compact high efficiency gasifier	03/16/2005	6/16/2009	Australia 2006227927 issued 9/28/2006; China ZL 200680008642.X issued 8/29/2012; European Patent Office 6735562.8 filed 2/21/2006; India 6434/DELNP/2007 filed 2/21/2006; Russia 2405808 issued 12/10/2012	Licensed to Boeing, UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Circumstances
Gasification	7731783	11/657,254	Continuous pressure letdown system	1/24/2007	6/8/2010	China ZL200880006057.5 issued 5/30/2012; Germany 11 2008 000 247.9 filed 1/22/2008; South Africa 2009/05434 issued 1/25/2012	Licensed to UTC, EMRE; Preference for U.S. Industry Obligation; Subject Invention
Gasification	7740671	11/640,661	Dump cooled gasifier	12/18/2006	6/22/2010	Canada 2605858 filed 10/5/2007; China 200710300802.4 filed 12/18/2007; European Patent Office 7254668.2 filed 11/30/2007; India 2642/DEL/2007 filed 12/17/2007; Japan 5468201 issued 2/7/2014; South Africa 2007/10787 issued 8/25/2010	Licensed to Boeing, UTC, EMRE
Gasification	7740672	12/140,430	Method and apparatus for coal gasifier	06/17/2008	6/22/2010	Canada 2542552 issued 11/26/2013; European Patent Office 05779107.1	Licensed to Boeing, UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	References
Gasification	7972572	12/041,742	Reactor vessel and liner	3/4/2008	7/15/2011	filed 8/3/2005	Licensed to UTC, EMRE
Gasification	8196848	11/117,911	Gasifier injector	4/29/2005	6/12/2012	Australia 2006201789 issued 10/2/2008; Canada 2544793 issued 7/12/2011; China ZL200610077239.4 issued 7/11/2012; Russia 2400670 issued 9/27/2010; South Africa 2006/03364 issued 4/25/2007	Licensed to Boeing, UTC, EMRE
Gasification	8308829	13/468,566	Gasifier injector	11/13/2012	11/13/2012		Licensed to Boeing, UTC, EMRE
Gasification	8673234	12/041,713	Reactor vessel and liner	3/4/2008	3/18/2014	China 200980107633.X filed 1/8/2009; European Patent	Licensed to UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
						Office 09716652.4 filed 1/8/2009	
Gasification	8711604	11/702,999	Method of cooling gasifier liners	2/6/2007	7/8/2014	Australia 2008200529 issued 8/21/2008; Canada 2619437 filed 2/4/2008; Germany 602008 015334.7 issued 6/28/2012; Great Britain 1956327 issued 5/2/2012; India 300/DEL/2008 filed 2/4/2008; Japan 5514402 issued 4/4/2014	Licensed to Boeing, UTC, EMRE
Gasification	Pending	13/180,755	Agglomerator with ceramic matrix composite obstacles	7/21/2011			Licensed to UTC, EMRE
Gasification	8821600	13/307,152	Dry bottom reactor vessel and method	11/30/2011	9/02/2014		Licensed to UTC, EMRE
Gasification	Pending	13/543,311	Injector having interchangeable	7/12/2012		China 201380036148.4 filed 6/11/2013,	Licensed to UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
			injector orifices			European 13813852.4 filed 6/11/2013, India 10315/DELNP/2014 filed 6/13/2013	
Gasification	Pending	14/116,845	Flow splitter for a compact gasification reactor system	11/11/2013		China 201180071341.2 filed 5/31/2011, European 11725280.9 filed 5/31/2011	Licensed to EMRE
Gasification	Pending	14/116,858	Reactant mixing design methodology for compact gasifier	6/20/2014		China 201180071242.4 filed 5/31/2011, European Application 11725281.7 filed 5/31/2011	Licensed to EMRE
Gasification	Pending	14/429,853	Water conserving syngas cleanup system	9/24/2012		China application number pending with anticipated filing on 5/24/2015	Licensed to UTC, EMRE
Gasification	8161725	12/253,492	Compact cyclone combustion torch igniter	9/22/2008	4/21/2012		Licensed to UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
Gasification	6755359	10/242,780	Fluid mixing injector and method	9/12/2002	6/29/2004		Licensed to Boeing, UTC, EMRE
Gasification	Pending	PCT/US2014/040458	Entrained-flow gasifier reactor having isolator and drip lip	6/2/2014			
Gasification	Pending	12/556,009	Biomass torrefaction mill	9/5/2012		China 2010800402.3 filed 8/31/2010 and European Patent office 10750005.0 filed 8/31/2010	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
POX	Pending	PCTUS2014/37945	Partial oxidation unit with syngas composition optimization	11/8/2013			Status of license to EMRE unclear.
PFBC	Pending	12/794,218	Reactor system and solid fuel composite therefor	6/4/2010			Licensed to UTC
SCOT	8887503	13/323,874	Low cost and higher efficiency power plant	12/13/2011	11/18/2014		Licensed to UTC; Preference for U.S. Industry Obligation;

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Technology	U.S. Patent No.	U.S. Application No.	U.S. Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
							Subject Invention
SCOT	Pending	13/604,201	Regenerative turbine for power generation system	9/5/2012			Licensed to UTC
CHG	6942719	10/609,940	Methods and systems for pressure swing regeneration for hydrogen generation	6/30/2003	9/13/2005		Licensed to Boeing, UTC
CHG	7182803	10/869,642	Solids multi-clone separator	6/16/2004	2/27/2007		Licensed to Boeing, UTC, EMRE
CHG	7192569	10/610,469	Hydrogen generation with efficient by-product recycle	6/30/2003	3/20/2007		Licensed to Boeing, UTC
CHG	7303597	10/271,950	Method and apparatus for continuously feeding and pressurizing a solid material into a high pressure	10/15/2002	12/4/2007	India 1239/DEL/2003 issued 2/24/2009	Licensed to Boeing, UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Branches
			system				
CHG	7360639	10/969,644	Hot rotary screw pump	6/16/2004	4/22/2008		Licensed to Boeing, UTC, EMRE
CHG	7459131	10/919,700	Reduced temperature regenerating/calcing apparatus for hydrogen generation	8/16/2004	12/22/2008		Licensed to Boeing, UTC
CHG	7547419	10/869,593	Two-phase injector for fluidized bed reactor	6/16/2004	6/16/2009		Licensed to Boeing, UTC
CHG	7615198	11/860,257	Method and apparatus for continuously feeding and pressurizing a solid material into a high pressure system	9/5/2007	11/2/2009	India 398/DEL/2009 filed 3/2/2009	Licensed to Boeing, UTC, EMRE
CHG	7927574	12/247,249	Reduced temperature calcining method	10/8/2008	4/19/2011		Licensed to Boeing, UTC

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Circumstances
			for hydrogen generation				
CHG	8011861	11/850,244	Method and apparatus for continuously feeding and pressurizing a solid material into a high pressure system	9/5/2007	9/26/2011	India 397/DEL/2009 filed 3/2/2009	Licensed to Boeing, UTC, EMRE
CHG	8105541	12/575,576	Reactor system and method therefor	10/8/2009	1/31/2012		Licensed to UTC
CHG	8167978	12/575,538	Gas generator and method therefor	10/8/2009	1/31/2012		Licensed to UTC
CHG	8231068	10/869,643	Dry, low nitrous oxide calciner injector	6/16/2004	7/31/2012		Licensed to Boeing, UTC
CHG	Pending	12/577,250	Apparatus and method for use in calcination	10/12/2009			Licensed to UTC
CHG	Pending	62/167,871	Sorption enhanced reforming with	05/28/2015			

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Technology	US Patent No.	U.S. Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	Memoranda
			atmospheric calcination				
SSG	Pending	13/407,273	Combustion assembly and method therefor	2/28/2012		Russia 2013107645 filed 2/21/2013	Licensed to UTC; May be subject to ConocoPhillips Agreement
SSG	Pending	13/448,293	Steam generator film cooling using produced water	4/16/2012		China 201310130967.7 filed 4/16/2013	Licensed to UTC; May be subject to ConocoPhillips Agreement
SSG	Pending	13/733,941	Method for purifying water and water treatment system therefor	1/4/2013		Canada 2838595 filed 1/3/2014	Licensed to UTC; May be subject to ConocoPhillips Agreement
SSG	Pending	13/733,988	Steam generator and method for generating steam	1/24/2013		Canada 2838527 filed 12/30/2013	Licensed to UTC; May be subject to ConocoPhillips Agreement
SSG	Pending	PCT/US2013/20349	Direct steam generator CO2 removal system	1/24/2013			May be subject to ConocoPhillips Agreement
DSG	Pending	13/187,065	Method for in-situ extraction of	7/20/2011		China 201210252377 filed	Licensed to UTC

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Technology	US Patent No.	US Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Encumbrances
			hydrocarbon materials			7/20/2011	
DSG	Pending	PCT/US2013/034386	Tight shale oil production device	3/28/2013			Licensed to UTC
Dry Solids Pump	7717046	11/118,996	High pressure dry coal slurry extrusion pump	4/29/2005	5/18/2010		Licensed to Boeing, UTC, EMRE
Dry Solids Pump	8307974	13/010,904	Load beam unit replaceable inserts for dry coal extrusion pumps	1/21/2011	11/13/2012	Brazil BR102012001243.0 filed 1/18/2012; Canada 2,764,258 issued 3/25/2014; China 201210018627.0 filed 1/20/2012; European Patent Office 12151728.8 filed 1/19/2012; India 3625/DEL/2011 filed 12/13/2011; Russia 2012101812 filed 1/19/2012; South Africa 2011/09506 filed 12/22/2011	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids	8408424	12/618,040	Active hopper for	11/13/2009	4/2/2013	China	Licensed to UTC,

Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	Encompasses
Pump			promoting flow of bulk granular or powered solids			201080051164.7 filed 11/12/2010; European Patent Office 10830778.6 filed 11/12/2010	EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	8439185	12/758,859	Multiple moving wall dry coal extrusion pump	4/13/2010	5/14/2013	European Patent Office 11250444.4 filed 4/8/2011; South Korea 101331639 issued 11/20/2013	Licensed to UTC, EMRE; Preference for U.S. Industry Obligation; Subject Invention
Dry Solids Pump	8561791	12/911,969	Balanced link for dry coal extrusion pumps	10/26/2010	10/22/2013	China 201110329096.2 filed 10/26/2011; Germany 102011082573.8 filed 9/13/2011	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	8631927	12/487,856	Track with overlapping links for dry coal extrusion pumps	6/19/2009	1/21/2014	Brazil PI1014940-6 filed 4/15/2010; China 201080027243.4 filed 4/15/2010; European Patent Office 2443052 issued 11/12/2014; India 8399/DELNP/2011 filed 4/15/2010; Russia 2012101074	Licensed to UTC, EMRE

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Technology	US Patent No.	US Application No.	Title	U.S. File Date	U.S. Grant Date	Foreign Counterparts	References
						filed 4/15/2010; South Africa 2011/07803 filed 4/15/2010	
Dry Solids Pump	RE42844	12/326,066	Linear tractor dry coal extension pump	12/1/2008	10/18/2011	Australia 2007201300 issued 6/6/2013; Canada 2591433 filed 6/11/2007; China ZL200710126454.3 issued 6/13/2012; European Patent Office 7252372.3 filed 6/12/2007; India 1258/DEL/2007 filed 6/12/2007; Japan 2012-234266 filed 10/24/2012; Russia 2452873 issued 6/10/2012, 2011150233 filed 12/9/2011; South Africa 2007/04640 issued 8/27/2008	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	8939278	12/758,846	Deconsolidation device for particulate material extrusion	4/13/2010	1/27/2015	China 201110092293.7 filed 4/13/2011; European Patent	Licensed to UTC, EMRE

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Technology	U.S. Patent No.	U.S. Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	Comments
			pump			Office 11250450.1 filed 4/8/2011; Japan 5192562 issued 2/8/2013	
Dry Solids Pump	Pending	12/872,286	Pressure vessel and method therefor	8/31/2010		China 201180042056 filed 8/29/2011; Germany 112011102877.6 filed 8/29/2011	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	8893878	13/171,904	Screw-fed pump system	6/29/2011	11/25/2014	Germany 102012209787.2 filed 6/12/2012	Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	8851406	13/563,401	Pump apparatus including deconsolidator	7/31/2012	10/7/2014		Licensed to UTC, EMRE; U.S. Competitiveness Obligation; Subject Invention
Dry Solids Pump	Pending	14/296,761	Scraper bridge breaker - dry solids pump	6/5/2014			Preference for U.S. Industry Obligation; Subject Invention
Dry Solids Pump	Pending	PCT/US2014/043987	Particulate pump link assembly	6/25/2014			
Dry Solids Pump	Pending	PCT/US2014/040460	Solid particulate pump having flexible seal	6/2/2014			Preference for U.S. Industry Obligation;

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Technology	US Patent No.	US Application No.	Title	U.S. Filing Date	U.S. Grant Date	Foreign Counterparts	References	Subject Invention