PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3113288

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
ALIGNED ENERGY, LLC	11/13/2014
KARBON ENGINEERING, LLC	11/13/2014
ENERGY METRICS, LLC	11/13/2014
INERTECH IP, LLC	11/13/2014

RECEIVING PARTY DATA

Name:	TELL/AE LENDER, LLC
Street Address:	ONE ALLIANCE CENTER, 3500 LENOX RD. NE, SUITE 650
City:	ATLANTA
State/Country:	GEORGIA
Postal Code:	30326

PROPERTY NUMBERS Total: 27

Property Type	Number
Patent Number:	8254124
Application Number:	13596798
Patent Number:	8297067
Patent Number:	8601827
Patent Number:	8305757
Application Number:	13517089
Application Number:	13885525
Application Number:	13517092
Application Number:	13821623
Application Number:	14050324
Application Number:	14216005
Patent Number:	D686999
Patent Number:	D709465
Patent Number:	D690802
Application Number:	29449647
Application Number:	61801381
Application Number:	61798270
Application Number:	61875640

PATENT

503066685 REEL: 034286 FRAME: 0726

Property Type	Number
Application Number:	61893848
Application Number:	61900602
Application Number:	14481904
Application Number:	14534957
Application Number:	14520322
Application Number:	14473395
Application Number:	62061524
Application Number:	62066672
Application Number:	13338939

CORRESPONDENCE DATA

Fax Number:

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.

Email: michael.barys@thomsonreuters.com

Correspondent Name: JAMES MURRAY

Address Line 1: 4400 EASTON COMMONS WAY SUITE 125

Address Line 2: CT LIEN SOLUTIONS
Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER: JAMES MURRAY	
SIGNATURE:	/Michael Barys TR/
DATE SIGNED:	11/18/2014

Total Attachments: 10

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PATENT SECURITY AGREEMENT

THIS PATENT SECURITY AGREEMENT (this "Agreement") dated as of November 13, 2014, is made by and between ALIGNED ENERGY, LLC, a Delaware limited liability company ("Aligned Energy"), INERTECH IP, LLC, a Delaware limited liability company ("Inertech IP"), KARBON ENGINEERING, LLC, a Delaware limited liability company ("Karbon Engineering"), and ENERGY METRICS, LLC, a Delaware limited liability company ("Energy Metrics") (each individually a "Debtor" and collectively the "Debtors"), and TELL/AE LENDER, LLC, a Delaware limited liability company (the "Lender").

The Debtors, Inertech LLC, a Delaware limited liability company ("Inertech"), and Energy Metrics Canada ULC, a Nova Scotia company with unlimited liability ("Energy Metrics Canada") (each individually a "Borrower" and collectively the "Borrowers") and the Lender are parties to a Credit Agreement dated as of November 13, 2014 (as amended, modified, renewed or extended from time to time, the "Credit Agreement").

The Debtors and the Lender are also parties to a Security Agreement dated as of November 13, 2014 (the "Security Agreement") pursuant to which the Debtors granted a security interest to Lender in the Patent Collateral (as defined below) and are required to execute and deliver this Agreement.

Accordingly, in consideration of the foregoing and other good and valuable consideration, the receipt of which is hereby acknowledged, the parties hereto agree as follows:

- 1. <u>DEFINED TERMS</u>. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement or, if not defined therein, in the Credit Agreement.
- (a) "Patent Rights" means patents, patent applications, divisions, continuations, continuations-in-part, reissues, renewals, extensions, supplementary protection certificates, utility models, and the like of such patents and patent applications, and foreign counterparts and equivalents thereof.
- 2. <u>GRANT OF SECURITY INTEREST IN PATENT COLLATERAL</u>. As security for the payment and performance of the Secured Obligations, each Debtor hereby grants to the Lender a security interest in all of such Debtor's right, title and interest in, to and under the following, wherever located and whether now existing or owned or hereafter acquired or arising (collectively, the "<u>Patent Collateral</u>"):
 - (a) all of its Patent Rights, including those referred to on Schedule I;
- (b) all products and Proceeds of the foregoing, including all rights to sue for past, present or future infringement thereof, all rights arising therefrom and pertaining thereto.

389359/008-4726246.2

- 3. <u>SECURITY AGREEMENT</u>. The security interests granted pursuant to this Patent Security Agreement are granted in conjunction with the security interests granted to Lender pursuant to the Security Agreement. Each Debtor hereby acknowledges and affirms that the rights and remedies of Lender with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event of any conflict between the Security Agreement and this Patent Security Agreement, the Security Agreement shall control.
- 4. <u>COUNTERPARTS</u>. This Patent Security Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all such separate counterparts shall together constitute but one and the same instrument. In proving this Patent Security Agreement or any other Loan Document in any judicial proceedings, it shall not be necessary to produce or account for more than one such counterpart signed by the party against whom such enforcement is sought. Any signatures delivered by a party by facsimile transmission or by e-mail transmission shall be deemed an original signature hereto.
- CONSTRUCTION. Unless the context of this Patent Security Agreement or 5. any other Loan Document clearly requires otherwise, references to the plural include the singular, references to the singular include the plural, the terms "includes" and "including" are not limiting, and the term "or" has, except where otherwise indicated, the inclusive meaning represented by the phrase "and/or." The words "hereof," "herein," "hereby," "hereunder," and similar terms in this Patent Security Agreement or any other Loan Document refer to this Patent Security Agreement or such other Loan Document, as the case may be, as a whole and not to any particular provision of this Patent Security Agreement or such other Loan Document, as the case may be. Section, subsection, clause, schedule, and exhibit references herein are to this Patent Security Agreement unless otherwise specified. Any reference in this Patent Security Agreement or in any other Loan Document to any agreement, instrument, or document shall include all alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements, thereto and thereof, as applicable (subject to any restrictions on such alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements set forth herein).

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Debtors have caused this Patent Security Agreement to be executed and delivered by their duly authorized officer as of the date first set forth above.

DEBTORS:

ALIGNED ENERGY, LLC
By: Name: Jakob Carnemark Title: Chief Executive Officer
INERTECH IP LLC
Ву:
Name: Earl Keisling
Title: Sole Manager
KARBON ENGINEERING, LLC
By: Name: Earl Keisling
Title: Sole Manager ENERGY METRICS, LLC
Ву:
Name: Earl Keisling
Title: Sole Manager

Signature Page to Patent Security Agreement

IN WITNESS WHEREOF, the Debtors have caused this Patent Security Agreement to be executed and delivered by their duly authorized officer as of the date first set forth above.

DEBTORS:

ALIGNED ENERGY, LLC

INERTECH IP LLC

By: Sole Manager

By: Sole Manager

KARBON ENGINEERING, LLC

By: Name: Earl Keisling Title: Sole Manager

ENERGY METRICS, LLC

Name: Earl Keisling
Title: Sole Manager

Signature Page to Patent Security Agreement

ACCEPTED AND ACKNOWLEDGED BY:

TELL/AE LENDER, LLC

By: _____ Name: James Fultz Title: Manager

30507/000/1554333.1

Patent Property of Inertech IP LLC. Due Diligence – Acquisition of Aligned Energy, LLC. 18 November 2014 Cowan Liebowitz & Latman - Due Diligence

	(1) Space-saving High- Density Modular Data Systems and Energy- Efficient Cooling Systems ²								
	U.S. Patent 8305757	U.S. Patent 8601827	U.S. Patent 8297067	Publ. US20120318492	U.S. Patent 8254124	Publ. US20120133256	U.S. Patent (if issued) or Publication (if pending)		
	U.S.	U.S.	U.S.	U.S.	U.S.	U.S.	Country		
100	13/339,091 (12/28/11)	13/662,636 (10/29/12)	13/339,044 (12/28/11)	13/596,798 (8/28/12)	13/338,987 (12/28/11)	13/338,939 (12/28/11)	Application No. (filed)		
	Patented	Patented	Patented	Pending	Patented	Pending (unexamined)	Status		
	CIP of PCT/US11/41710	Cont. of 13/339,044 above	CIP of PCT/US11/41710	Cont. of 13/338,987 above	CIP of PCT/US11/41710	CIP of PCT/US11/41710	Caims priority to:		
	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling, John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakts; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors /Ownership Review		
							Notes		

and other governmental patent offices. It is noted that applications that have not yet been officially "published" are unavailable to the public. The information in this table is based on data supplied by counsel to Tellurian and publicly available records of the U.S. Patent & Trademark Office

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PATENT

REEL: 034286 FRAME: 0733

of the subject matter. design patent filings are not included since design patents do not give functional protection, but are limited to covering only the appearance (i.e., ornamentation) ² "Active Patent Filings" are numbered in this column. An active patent filing is a group that includes at least one pending or issued patent. In addition,

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Panel for Electronic Equipment (Design Protection)	(7) Systems and Assemblies for Cooling Server Racks	(6) Cooling System. including a Controlled Atmospheric Heat Rejection Cycle with Water Re- Capture	(5) Systems and Methods for Cooling Electronic Equipment	(4) Modular IT Rack Cooling Assemblies and Methods for Assembling Same	(3) Energy-efficient Uninterruptible Electrical Distribution Systems and Methods	Invention / Title (2) Systems and Methods for Cooling Electronic Equipment
U.S. Design Patent D686,999 (Issued 10/1/2013)	Publ. US20140285965 (published 9/25/14)	Publ. US20140096562 (published 4/10/14)	Publ. US20140311169 (pub. 10/23/14)	Publ. US20120300391 (publ. 11/29/12)	Publ. US20140101462 (pub. 4/10/14)	U.S. Patent (if issued) or Publication (if pending) Publ. US20120279684 (publ. 11/8/12)
U.S.	U.S.	U.S.	U.S.	U.S.	U.S.	Country U.S.
29/414,697 (3/2/12)	14/216,005 (3/17/2014)	14/050,324	13/821,623 (6/25/13)	13/517,092 (6/19/12)	13/885,525 (8/6/13)	Application No. (filed) 13/517,089 (6/19/12)
Patented	Pending (Unexamined)	Pending (Unexamined)	Pending (Unexamined)	Pending	Pending (Unexamined)	Status Pending
none	US61/802,267 (3/15/13)	US61/711,273 (10/9/12) US61/747,202 (12/28/12) US61/801,966 (3/15/13)	Nat'l phase of PCT/US12/37858	Nat'l phase of PCT/US11/67685	Nat'l phase of PCT/US11/60874	Claims priority to: Nat'l phase of PCT/US11/43893
Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell; Michael Welch No Assignments Recorded Applicant (& owner of record) of U.S. Application are the inventors (Inertech is NOT mentioned)	Inventors: Gerald McDonnell; Earl Keisling Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) (No security interest recorded)	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventor: Jeff Rose; Milan Ilic No Assignment from Inventors Recorded Security Interest to Jabil Circuit, Inc.	Inventors /Ownership Review Inventors: Earl Keisling: John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.

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	Cooling System Using Two Circuits with Water Flow in Series and Counter Flow Arrangement	Data Center Cooling System Using Two Cooling Circuits	Medium Voltage Static Synchronous Compensator (STATCOM) Uninterruptible Power Supply (UPS) for Active and Reactive Power	Hybrid Distribution Topology for Use with Fuel Cells	High Power Zero Current Transition Converter for High Frequency Operation	Enclosure System for Cooling Server Racks (Design Protection)	Coolant Distribution Unit Housing (Design Protection)	Invention / Little	T. Arrange
Unpublished	Unpublished	Unpublished	Unpublished	Unpublished	Unpublished	unpublished	U.S. Design Patent D690,802 (Issued 10/1/2013)	U.S. Design Patent D709,465 (Issued 7/22/2014)	U.S. Patent (if issued) or
U.S.	U.S. Provisional	U.S. Provisional	U.S. Provisional	U.S. Provisional	U.S. Provisional	U.S.	U.S.	U.S.	
US14/481,904 (9/9/14)	US61/900,602 (11/6/13)	US61/893,848 (10/21/13)	US61/875,640 (9/9/13)	US61/798,270 (3/15/13)	US61/801,381 (3/15/13)	29/449,647 (3/15/13)	29/414,699 (3/2/12)	(filed) 29/455,941 (5/28/13)	Application No.
Pending	Expired	Expired	Expired	Expired	Expired	Pending	Patented	Patented	
US61/875,640 (Based on client provided docket number)					L.	none	none	Cont. of 29/414,697	Claims nearly too
Inventor:	Inventor: Zhang (as identified in the document "Inventors Patents-Contracts.xlsx"	Inventor: Zhang (as identified in the document "Inventors Patents-Contracts.xlsx"				Need Patent Assignment from Inventors	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) Security Interest to Jabil Circuit, Inc.	Inventors: Earl Keisling; John Costakis; Gerald McDonnell Assignment Recorded to Inertech IP LLC (all inventors) (No security interest recorded)	Inventory (Ownership Review
	Follow-up application(s) filed?	Follow-up application(s) filed?	Follow-up application(s) filed?	Follow-up application(s) filed?	Follow-up application(s) filed?			TANAMA	Notes

Novel DSP Based Space Vector PWM Controller Algorithm for a Five-Level Diode Clamped Inverter for DCSTATCOM with Battery Energy Storage and Multi- Level MVUPS	High Efficiency Data Center Cooling System	Air Flow Distribution System for Data Center Server Racks			Invention / Title
Unpublished	Unpublished	Unpublished	Unpublished	Unpublished	U.S. Patent (if issued) or Publication (if pending)
U.S.	U.S.	U.S.	U.S.	U.S.	Country
US/62/066,672 (10/21/2014)	US62/061,524 (10/8/2014)	US14/473,395 (8/29/2014)	US14/520,322 (10/21/14)	US14/534,957 (11/6/14)	Application No.
Pending	Pending	Pending	Pending	Pending	Status
			US61/893,848 (Based on client provided docket number)	US61/900,602 (Based on client provided docket number)	Claims priority to:
Owner/Applicant: Inertech IP LLC. Inventors: Mondal	Owner/Applicant: Inertech IP LLC. Inventors: John Costakis; Zhang	Owner/Applicant: Inertech IP LLC. Inventors: Earl Keisling; John Costakis; McDonnel	Inventor:	Inventor:	Inventors /Ownership Review
		- 10 m			Nates

PATENT REEL: 034286 FRAME: 0736

RECORDED: 11/18/2014