

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JOSEPH W. FORBES JR.	10/27/2014
RECEIVING PARTY DATA		
Name:	CAUSAM ENERGY, INC.	
Street Address:	9208 FALLS OF THE NEUSE ROAD	
Internal Address:	SUITE 215	
City:	RALEIGH	
State/Country:	NORTH CAROLINA	
Postal Code:	27615	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15681034
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Email:	admin@neoipassets.com	
Correspondent Name:	JINAN GLASGOW GEORGE	
Address Line 1:	PO BOX 52546	
Address Line 4:	DURHAM, NORTH CAROLINA 27717	
ATTORNEY DOCKET NUMBER:	4204-115	
NAME OF SUBMITTER:	JINAN GLASGOW GEORGE	
SIGNATURE:	/JiNan Glasgow George/	
DATE SIGNED:	09/01/2017	
Total Attachments: 2		
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ASSIGNMENT OF RIGHTS: PATENT APPLICATIONS

Joseph W. Forbes, Jr. ("ASSIGNOR"), whose mailing address is 9208 Falls of the Neuse Road, Suite 215, Raleigh, NC 27615 US is owner of:

"System and Method for Estimating and Providing Dispatchable Operating Reserve Energy Capacity Through Use of Active Load," as described in the U.S. Patent Application No. 14/517,399, filed on October 17, 2014;

"System, Method, and Apparatus for Electric Power Grid and Network Management of Grid Elements," as described in the U.S. Patent Application No. 14/518,263, filed on October 20, 2014;

"System, Method, and Apparatus for Electric Power Grid and Network Management of Grid Elements," as described in the U.S. Patent Application No. 14/518,287, filed on October 20, 2014;

"System, Method, and Apparatus for Settlement for Participation in an Electric Power Grid," as described in the U.S. Patent Application No. 14/518,323, filed on October 20, 2014;

"System, Method, and Apparatus for Settlement for Participation in an Electric Power Grid," as described in the U.S. Patent Application No. 14/518,349, filed on October 20, 2014;

"System, Method, and Apparatus for Settlement for Participation in an Electric Power Grid," as described in the U.S. Patent Application No. 14/518,383, filed on October 20, 2014;

"System, Method, and Data Packets for Messaging for Electric Power Grid Elements Over a Secure Internet Protocol Network," as described in the U.S. Patent Application No. 14/518,412, filed on October 20, 2014;

(the "PATENT APPLICATIONS"). Causam Energy, Inc. ("ASSIGNEE"), whose mailing address is 9208 Falls of the Neuse Road, Suite 215, Raleigh, NC 27615 US, desires to acquire all rights and interests in and to the PATENT APPLICATIONS and the patents (and any reissues or extensions) that may be granted.

I hereby authorize and request my attorney, JiNan Glasgow, of Triangle Patents, PLLC of PO Box 52546, Durham, NC 27717, to insert supra in the parentheses the filing date and application number of said applications when known.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby assigns, sales and transfers, unto Assignee, the full and exclusive right, title, and interest in and to (a) the above-identified PATENT APPLICATIONS, (b) all Letters Patents which may issue from said application in the United States and countries foreign thereto, (c) all divisions, continuations in whole or part, reissues, substitute applications, foreign applications and all foreign patents that may issue therefrom, and extensions of said PATENT APPLICATIONS and Letters Patents, and (d) the right to claim for any of said PATENT APPLICATIONS the full benefits and priority right under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES: (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting the PATENT APPLICATIONS, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuing, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for the PATENT APPLICATIONS, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Triangle Patents PLLC do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Date: 10/27/14 Joseph W. Forbes, Jr. [Signature]
ASSIGNOR Signature

On this 27th day of October, before me, Sandra C Lawrence, the undersigned Notary Public, personally appeared Joseph W. Forbes, Jr. ASSIGNOR, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same. WITNESS my hand and official seal in North Carolina County of Wake on the date set forth in this certificate.

Sandra C Lawrence
Notary Public Sandra C Lawrence

