

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
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PROPERTY NUMBERS Total: 1	
Property Type	Number
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DATE SIGNED:	12/22/2016
Total Attachments: 2	
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source=4204CH-Assignment-signed#page2.tif	

ASSIGNMENT OF RIGHTS: PATENT APPLICATIONS

Causam Holdings LLC ("Assignor"), whose mailing address is 14460 New Falls of the Neuse Rd., Raleigh, NC 27614, is owner of:

"SYSTEM, METHOD, AND APPARATUS FOR ELECTRIC POWER GRID AND NETWORK MANAGEMENT OF GRID ELEMENTS," as described in the U.S. Patent Application No. 13/563535, filed on 07/31/2012;

"SYSTEM, METHOD, AND APPARATUS FOR ELECTRIC POWER GRID AND NETWORK MANAGEMENT OF GRID ELEMENTS," as described in the PCT Patent Application No. PCT/US13/53095, filed on 7/31/2013;

"SYSTEM, METHOD, AND APPARATUS FOR SETTLEMENT FOR PARTICIPATION IN AN ELECTRIC POWER GRID," as described in the U.S. Patent Application No. 13/659564, filed on 10/24/2012;

"SYSTEM, METHOD, AND APPARATUS FOR SETTLEMENT FOR PARTICIPATION IN AN ELECTRIC POWER GRID," as described in the PCT Patent Application No. PCT/US13/64868, filed on 10/14/2013;

"SYSTEM, METHOD, AND APPARATUS FOR ELECTRIC POWER GRID AND NETWORK MANAGEMENT OF GRID ELEMENTS," as described in the U.S. Patent Application No. 13/746733, filed on 01/22/2013;

"SYSTEM, METHOD, AND APPARATUS FOR SETTLEMENT FOR PARTICIPATION IN AN ELECTRIC POWER GRID," as described in the U.S. Patent Application No. 13/746703, filed on 01/22/2013

"SYSTEM, METHOD, AND APPARATUS FOR ELECTRIC POWER GRID AND NETWORK MANAGEMENT OF GRID ELEMENTS," as described in the U.S. Patent Application No. 13/757772, filed on 02/02/2013;

"SYSTEM & METHODS FOR ACTIVELY MANAGING ELECTRIC POWER OVER AN ELECTRIC POWER GRID," as described in the U.S. Patent Application No. 13/839610, filed on 03/15/2013;

"SYSTEM & METHODS FOR ACTIVELY MANAGING ELECTRIC POWER OVER AN ELECTRIC POWER GRID AND PROVIDING REVENUE GRADE DATA USABLE FOR SETTLEMENT," as described in the U.S. Patent Application No 13/840128, filed on 03/15/2013;

"SYSTEM, METHOD, AND APPARATUS FOR SETTLEMENT FOR PARTICIPATION IN AN ELECTRIC POWER GRID," as described in the U.S. Patent Application No. 13/888839, filed on 05/07/2013;

"SYSTEM, METHOD, AND APPARATUS FOR SETTLEMENT FOR PARTICIPATION IN AN ELECTRIC POWER GRID," as described in the U.S. Patent Application No. 13/906064, filed on 05/30/2013

(the "Patent Applications"). Causam Energy, Inc. ("Assignee"), whose mailing address is 14460 New Falls of the Neuse Rd., Suite 149-302, Raleigh, NC 27614, desires to acquire all rights in and to the Patent Applications and the patents (and any reissues or extensions) that may be granted.

Therefore, for valuable consideration, the receipt of which is acknowledged, Assignor assigns to Assignee 100% of his right, title, and interest in the invention and Patent Applications (as well as such rights in any divisions, continuations in whole or part or substitute applications) to Assignee for the entire term of the issued Patents and any reissues or extensions that may be granted and for the entire terms of any and all foreign patents

applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the Patents for the inventions in any and all countries.

Date: 10/25/13

[Signature]
Assignor

PRESIDENT & MANAGER
Title

On this 25th 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.

[Signature]

Notary Public

Sandra C. Lawrence

