501785042 01/12/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas Joel Blackburn	01/10/2012
Thomas McIntyre	01/09/2012
Fernando Gustavo Tomasel	01/12/2012

RECEIVING PARTY DATA

Name:	Advanced Energy Industries, Inc.	
Street Address:	1625 Sharp Point Drive	
City:	Fort Collins	
State/Country:	COLORADO	
Postal Code:	80525	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13343576

CORRESPONDENCE DATA

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 720.536.4900

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Neugeboren O'Dowd PC
Address Line 1: 1227 Spruce Street

Address Line 2: Suite 200

Address Line 4: Boulder, COLORADO 80302

ATTORNEY DOCKET NUMBER:	AE2010-022US
NAME OF SUBMITTER:	Stephen S. Gruber

Total Attachments: 2

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PATENT REEL: 027526 FRAME: 0342 840 00 13343

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ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Advanced Energy Industries, Inc.

a corporation organized under the laws of the state of Delaware as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

SYSTEM LEVEL POWER DELIVERY TO A PLASMA PROCESSING LOAD

described in an application for Letters Patent of the United States, identified as Attorney Docket No. <u>AE2010.022US</u>, at Neugeboren O'Dowd PC, 1227 Spruce Street, Suite 200, Boulder, CO 80302 and filed on <u>01/04/2012</u>, as Application Serial No. <u>13/343,576</u>, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefore in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate:

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees:

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignce or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Sean R. O'Dowd, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereinto signed our names on the day and year set forth below.

The second secon	
James Gold March	1/10/12
Inventor's Signature	DATE
Thomas Joel Blackburn Inventor's Printed Name	
STATE OF)	
COUNTY OF)	
or proved to me on the basis of satisfactory evidence to be t	A, before me personally came the above named <u>loci Blackburn</u> who is personally known by me the same individual who executed the foregoing assignment, and who acknowledged to me that
he/she executed the same of his/her own free will for the use a	and purposes therein set forth.
TAN AND THE STATE OF THE STATE	Jennes K Ondowen
	NOTARY PUBLIC My Commission Expires: 4-23-2013

My Commission Expires 09/23/2013

Page 1 of 2

\$ % 8		J.	KRI KATON
The Milles	1-9-12		i e
Inventor's Signature	DATE		
Thomas Melntyre Inventor's Printed Name			
STATE OF)	* č. A.	After Courter
COUNTY OF) SS	My Cor	nmission Expires 09/23/2013
On this 44 day of 50100000 me or proved to me on the basis of satisfac he/she executed the same of his/her own fre	, <u>JCIJ</u> , before me personal lory evidence to be the same individual where will for the use and purposes therein set f	ly came the above named Thomas I o executed the foregoing assignment orth.	delative who is personally known by at, and who acknowledged to me that
		My Commission Expires:	7-23-2013
Investion's Signature		2	
Fernando Gustavo Tomasel Inventor's Printed Name	 .		
STATE OF) \$8		
COUNTY OF) 33		
On this A day of O O O O O O O O O O O O O O O O O O	df satisfactory evidence to be the same ind	ividual who executed the foregoing	 Gustavo Tomasel who is personally assignment, and who acknowledged
		NOPARY PUBLIC	andwon
		My Commission Expires:	9-23-2013