# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5316618

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KEVIN FAIRBAIRN	12/19/2018
DENIS SHAW	12/19/2018
DANIEL CARTER	12/21/2018

## **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:	16193790

## **CORRESPONDENCE DATA**

**Fax Number:** (720)536-4910

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.

**Phone:** 720.536.4900

Email: rene@nodiplaw.com

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:	AE2017-019US
NAME OF SUBMITTER:	SEAN R. O'DOWD
SIGNATURE:	/Sean R. O'Dowd/
DATE SIGNED:	01/09/2019

### **Total Attachments: 2**

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PATENT 505269846 REEL: 048040 FRAME: 0791

#### 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 Fact: y 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

#### SYNCHRONIZED PULSING OF PLASMA PROCESSING SOURCE AND SUBSTRATE BIAS

described in an application for Letters Patent of the United States, identified as Attorney Docket No. AE2017-019US, at Neugeboren O'Dowd PC, 1227 Spruce Street, Suite 200, Boulder, CO 80302, and filed on 11/16/2018, as Application Serial No. 16/193,790, and the invention(s) and improvement(s) set forth therein, and any and all provisionals, non-provisionals, 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 therefor 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 caths, and do all acts which may be necessary, desirable or convenient for scouring and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignce, 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 Protestion 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 Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may beneaforth be substituted for it.

We coverant 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 hereunto signed our names on the day and year set forth below.

LP Fairle	36-5-	12-19-2018	
inventor's Signature		DATE	
Kevin Fairbairn Inventor's Printed Name			
STATE OF	) ) SS		
COUNTY OF	)		
On this day of me or proved to me on the basis he/she executed the same of his/	of satisfactory evidence to	before me personally came the above named <u>Kevin Fairbairn</u> who is personally to be the same individual who executed the foregoing assignment, and who acknowledged to said purposes therein set forth.	known by to me that
		NOTARY PUBLIC My Commission Expires	and the second

		12-19-2	018		
Inventor's Signature		DATE			
<u>Denis Shaw</u> Inventor's Printed Name					
STATE OF	)				
COUNTY OF	) SS )				
On this day of	factory evidence to be the	before me personally came same individual who executed the surposes therein set forth.	e the above named <u>Denis S</u> to foregoing assignment, an	<u>haw</u> who is personally known d who acknowledged to me i	i by me o hat he/sh
			TARY PUBLIC Commission Expires:		
Day Land	in the second se	/2-2/-2018 DATE	×		
Daniel Carter Inventor's Printed Name		SHLL .			
STATE OF	) } \$8				
COUNTY OF	) 33 )				
On this day of or proved to me on the basis of he/she executed the same of his/h		before ms personally can the same individual who execute and purposes therein set forth.	ae the above named Danjel ted the foregoing assignm	Carter who is personally kno ent, and who acknowledged t	wn by m to me the
			VIARY PUBLIC Commission Expires:		4/4/1000000