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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAUREN P RAND	04/26/2014
JOHN D WILLIAMS	04/25/2014
RAFAEL A MARTINEZ	04/25/2014

RECEIVING PARTY DATA

Name:	COLROADO STATE UNIVERSITY RESEARCH FOUNDATION	
Street Address:	P.O. BOX 483	
City:	FORT COLLINS	
State/Country:	y: COLORADO	
Postal Code:	80522	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15091433

CORRESPONDENCE DATA

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

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SAMUEL M. FREUND **Correspondent Name:**

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ATTORNEY DOCKET NUMBER: CSUR.44USC1 NAME OF SUBMITTER: SHANNON M. KAMMERER SIGNATURE: /Shannon M. Kammerer/ **DATE SIGNED:** 06/01/2016

Total Attachments: 2

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> **PATENT** REEL: 038763 FRAME: 0672 503851012

When recorded please return to: Cochran Freund & Young LLC 2026 Caribou Drive, Suite 201 Fort Collins, CO 80525

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ASSIGNMENT OF PATENT APPLICATION

VWe, the undersigned (each) have agreed and hereby agree to assign to Colorado State University Research Foundation (hereinafter Assignee), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

12CaO-7Al₂O₃ Electride Hollow Cathode

Filing date: April 28, 20 Application No.: 14/263,970 and the invention(s) and improvement(s) set forth therein, and any and all provisionals, non-provisionals, continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letter Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, and any reissues, or reexaminations, or extensions of said Letters Patent.

I/We additionally authorize Assignee to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to Assignee, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to Assignee or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Assignee.

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to Assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

	IN WITNESS WHE	REOF, I/we hereuse c	o sei my/our hand(s) and seal(s):
E		2 L	Date Assignment Signed: 4/26/14
Inventor	's Signature (Seal)		
Inventor	's Typed Name: Laure	en P. Rand	
State of	MASSACYUSZTTS)) ss.:	
County (**************************************	,)	
	Before me this <u>26</u>	day of <u>APP/L</u>	, 2014, personally appeared Lauren P. Rand who is personally known or proved
to me or and deed	2 M20 County Or Suggesting	ary evidence to be th	e person who acknowledged the foregoing instrument of assignment to be his/her free act
			Notary Public My commission expires: 07/17/2/45
	Council Council		

PATENT REEL: 038763 FRAME: 0673

IN WITNESS WHEREOF, I/w Junto set	my/our hand(s) and seal(s): Date Assignment Signed: 4/25/14
Inventor's Signature (Seal) Inventor's Typed Name: John D. Williams	Date is singulative bigate.
State of) ss.:	
County of (aviner) ss.:	
Before me this 25 day of APVI	, 2014, personally appeared John D. Williams who is personally known or e the person who acknowledged the foregoing instrument of assignment to be his/her
free act and deed.	the person who action with the person who are going mental to be market
PUBLIC	Notary Public My commission expires: 08-13-17
IN WITNESS WHEREOF, I/we hereunto set	my/our hand(s) and seal(s): Date Assignment Signed: 4/25//4
Inventor's Signature (Seal) Inventor's Typed Name: Rafael A. Martinez	
State of	
· .	
Before me this 25 day of APV proved to me on the basis of satisfactory evidence to be free act and deed.	, 2014, personally appeared Rafael A. Martinez who is personally known or e the person who acknowledged the foregoing instrument of assignment to be his/her
PUBLIC SPECIAL	My commission expires: 08:12:17

RECORDED: 06/01/2016

PATENT REEL: 038763 FRAME: 0674