## 505147429 10/18/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KRISTOPHER A. DARLING	09/11/2018
SCOTT M. GRENDAHL	09/11/2018
LASZLO J. KECSKES	10/15/2018
HEATHER A. MURDOCH	09/11/2018
ANTHONY J. ROBERTS	09/11/2018
BILLY C. HORNBUCKLE	09/11/2018

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16130629	

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SIGNATURE:	/Nadine L. Loman/
DATE SIGNED:	10/18/2018

PATENT 505147429 REEL: 047261 FRAME: 0465

### **Total Attachments: 5**

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- 17-27CIP\_ExecutedAssignment\_Darling\_Grendahl\_Kecskes\_Murdoch\_Roberts\_Hornbuckle#page1.tif source=ARL
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- 17-27CIP\_ExecutedAssignment\_Darling\_Grendahl\_Kecskes\_Murdoch\_Roberts\_Hornbuckle#page5.tif

PATENT REEL: 047261 FRAME: 0466

#### ASSIGNMENT AND AGREEMENT

Title of Invention: NANOCRYSTALLINE HIGH TEMPERATURE MACHINE PARTS

Inventor(s): Kristopher A. Darling, Scott M. Grendahl, Laszlo J. Keeskes, Kiran N. Solanki, Heather A. Murdoch, Thomas L. Luckenbaugh, Anthony J. Roberts, and Billy C. Hombuckle

Date Declaration Executed: 9/11/18, 9/12/18, 9/13/18

\*Application Serial No.: 16/130,629 \*Filling Date: 9/13/2018 Docket No.: ARL 17-27CIP

(\*I (We) herby authorize the application serial number and filing date of said application be added when known.)

I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of circumstances under which the above-identified invention was made, hereby:

- 1. Assign to the Government of the United States, as represented by the Secretary of the Army, my entire right, title, and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation or division of said application and any reissue or extension of said Letters Patent.
- 2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me, subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent in which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

to the prosecution of pate	arther information within my l nt applications on the inventio Lapplications and patents issu	n, the prosecution and sentem	further documents necessary ent of interferences and
Signature of Inventor:	(First name) ()	And diddle Initial)	(Last Name)
Duty Address: Aberdeen	Proving Ground, Aberdeen (Locality)	Harford (County)	Maryland (State)
Date: 7-// - 20	/ Y Typed name of In-	ventor: <b>Kristopher A. D</b> a	rling
State of: MARYLAN		ing preferred)*******	
County of: HAZING	) SS. ) [place wi	here acknowledgement is take	n)
foregoing instrument duly	topher A. Darline known to appeared before me and ackrumto set my hand and official	owledged to me that the same	

Page 1 of 4

(SEAL)

LAMALACA WILLIAM S. 12770 (Printed or typewritten name of notary public) Saucence Welliam Scitter

(Signature of notary public)

My Commission expires on \_\_\_

Signature of Inventor:	200		
(First name)	(Middle Initial)	(Last Name)	
Duty Address: Aberdeen Proving Ground, Aberdee (Locality)	n Harford (County)	Maryland (State)	
Date: 9/11/18 Typed name of	f Inventor: Scott M. Grends	idi	
State of: MANYLAND ) SS.	arizing preferred)*******		
County of: HANFORIS ) [place	e where acknowledgement is tak	en)	
On the above date <u>Scott M. Grendahl</u> know foregoing instrument duly appeared before me and a In witness whereof I hereunto set my hand and official to the set of th	icknowledged to me that the sam	cribed in and who executed the e as his own free act and deed.	
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	(Printed or type written name of	(gotacy public) Secreta	
(SEAL)	(piguature of notary bublic)		
(ourto)	My Commission expires on	2/6/21	
Signature of Inventor:(First name)	(Middle Initial)	(Läst Name)	
Duty Address: Aberdeen Proving Ground, Aberdeer (Locality)	1 Harford (County)	Maryland (State)	
Date: Typed name of	invenior: Laszlo J. Kecske	\$	
********(nota State of:) SS. County of:) [place	ricing preferred)********  where neknowladaneans to sake	and the same of th	
On the above date <u>Laszlo J. Kecskes</u> know foregoing instrument duly appeared before me and as In witness whereof I hereunto set my hand and offici	m to me to be the individual desc cknowledged to me that the same	rihed in and who avaround the	
	(Printed or typewritten name of		
(SEAL)	(Signature of notary public)	***************************************	
1 score o sar j	My Commission expires on		

Signature of Inventor					
	(First name)	(Middle Initial)	(Last Name)		
Duty Address: Abero	leen Proving Ground, Aberdeer (Locality)	1 Harford (County)	Maryland (State)		
Date:	Typed name of	Inventor: Scott M. Gr	endahi		
		rizing preferred)******	· ė		
State of: County of:	) SS. 	) SS. ) [place where acknowledgement is taken]			
foregoing instrument	Scott M. Grendahl know duly appeared before me and a hereunto set my hand and offici	cknowledged to me that th	al described in and who executed the e same as his own free act and deed.		
		(Printed or typewritten no	ame of notary public)		
(CCA) \		(Signature of notary public)			
(SEAL)		My Commission expires on			
Signature of Inventor	: Lallo (First name)	(Middle Initial)	(Last Name)		
Duty Address: Abere	leen Proving Ground, Aberdeen (Locality)	n Harford (County)	Maryland (State)		
Date: <u>OU . IS</u>		`Inventor: Laszlo J. Ke	cskes		
State of: VIRGIN County of: <u>Laur</u>	*********/noic	rizing preferred)******* where acknowledgement	• <b>*</b>		
foregoing instrument		cknowledged to me that th ial seal.	al described in and who executed the e same as his own free act and deed.		
		Dennis M	1. Coleman		
l ne	NNIS M. COLEMAN	(Printed or typewritten n	ame of notacy public)		
(SEAL)	NOTARY PUBLIC REG. #330733	(Silprajure of notary pub	lio)		
	MMONWEALTH OF VIRGINIA MMISSION EXPIRES AUG. 31, 2019	My Commission expires	on <u>8-31-2019</u>		

110	4.	
Signature of Inventor: (First name)	(Middle Initial)	(Last Name)
Duty Address: Aberdeen Proving Ground, Aberd (Locality)	deen Harford (County)	Maryland (State)
Date: <u>&amp; PT                                     </u>	of Inventor: Heather A. M	urdoch
o a wax a wax of	sotarizing preferred)******	
State of:	lace where acknowledgement is	taken]
On the above date <u>Heather A. Murdoch</u> ka foregoing instrument duly appeared before me an In witness whereof I hereunto set my hand and of	G acknowledged to me that the s	described in and who executed the same as his own free act and deed.
	Printed or typewritten nam	e of notary public)
(07.4)	(Signature of notery public)	##1
(SEAL)	My Commission expires on	<u> </u>
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ignature of Inventor:	(3):15:1-1:11:11	
(First name)	(Middle Initial)	(Last Name)
Outy Address: Aberdeen Proving Ground, Aberd (Locality)	een Harford (County)	Maryland
Onte: 9-11-13 Typed name	of inventor: Anthony J. Ro	(Sinte) berts
tate of:	cuarizing preferred)******** ace where acknowledgement is t	aken]
on the above date <u>Anthony J. Roberts</u> kn oregoing instrument duly appeared before me and a witness whereof I hereunto set my hand and of	d acknowledged to me that the s	described in and who executed the ame as his own free act and deed.
	Austeur Wusaa (Printed or typewritten name	2 BU/2750 e of notary public)
15241	(Signature of notary public)	
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	Page 3 of 4	

Page 3 of 4

Signature of Inventor.	illru		)	Hornbuchle
	(First name)	(Middle	Initial)	(Last Name)
Duty Address: Aberdeen P	roving Ground, Aberder (Locality)	en	Harford (County)	Maryland (State)
Date: 4/11/18	Typed name o	of Inventor	Billy C. Hornbu	ckle
	********(nat	tarising pr	(ferred)******	
State of: MARYLAND	) SS.			
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On the above date <u>Billy C</u> foregoing instrument duly a In witness whereof I hereur	appeared before me and a	acknowled cial seal	o be the individual des ged to me that the sam ALACE W/11/40	cribed in and who executed the se as his own free act and deed.
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