504526860 08/30/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4573566

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
ALEXANDER GURARY			03/27/2002	
SCOTT ELMAN			03/27/2002	
KENG MOY			03/27/2002	
VADIM BOGUSLAVSKIY			03/27/2002	
RECEIVING PARTY DA	ТА			
Name:	EMCOF	RE CORPORATION		
Street Address:	145 BEI	MONT DRIVE		
City:	SOMER	SOMERSET		
State/Country:	NEW JE	NEW JERSEY		
Postal Code:	08873-1	214		
Property Type 727				
		Number		
Property Type Patent Number:	7	Number 7276124		
Patent Number: CORRESPONDENCE D Fax Number:	DATA	908)654-7866		
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	DATA (pe sent to	7276124 908)654-7866 the e-mail address first; if that is unsu		
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	DATA (pe sent to provided	908)654-7866		
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email:	DATA (pe sent to provided (a	7276124 908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> 908) 518-6450 assignment@lernerdavid.com	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name:	DATA (pe sent to provided (a	7276124 (908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> (908) 518-6450 assignment@lernerdavid.com _ERNER, DAVID, LITTENBERG, KRUMH	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1:	DATA (pe sent to provided (a l	7276124 (908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> (908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 600 SOUTH AVENUE WEST	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	DATA (pe sent to provided (a b b b c c c c c c c c c c c c c c c c	7276124 (908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> (908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMF 600 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N	DATA (provided (2 (2 (2 (2 (2 (2 (2 (2 (2 (2276124 2908)654-7866 2 the e-mail address first; if that is unsu 3 if that is unsuccessful, it will be sent 2908) 518-6450 2 assignment@lernerdavid.com 2 ERNER, DAVID, LITTENBERG, KRUMF 200 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 2 VEECO 3.0-069 DIV	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER:	DATA (provided (2 (2 (2 (2 (2 (2 (2 (2 (2 (2276124 2908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> 2908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 500 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 VEECO 3.0-069 DIV MELINDA C. CORMIER	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	DATA (provided (2 (2 (2 (2 (2 (2 (2 (2 (2 (7276124 (908)654-7866 the e-mail address first; if that is unsu ; if that is unsuccessful, it will be sent (908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 500 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 VEECO 3.0-069 DIV MELINDA C. CORMIER /Melinda C. Cormier/	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:	DATA (provided (2 (2 (2 (2 (2 (2 (2 (2 (2 (2276124 2908)654-7866 <i>the e-mail address first; if that is unsu</i> <i>; if that is unsuccessful, it will be sent</i> 2908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 500 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 VEECO 3.0-069 DIV MELINDA C. CORMIER	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUME NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 4	DATA (pe sent to provided) (2 (2 (2 (2 (2 (2 (2 (2 (2 (7276124 (908)654-7866 the e-mail address first; if that is unsu ; if that is unsuccessful, it will be sent (908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 500 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 VEECO 3.0-069 DIV MELINDA C. CORMIER /Melinda C. Cormier/	via US Mail.	
Patent Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:	DATA (pe sent to provided (a L UMBER:	7276124 (908)654-7866 the e-mail address first; if that is unsu ; if that is unsuccessful, it will be sent (908) 518-6450 assignment@lernerdavid.com LERNER, DAVID, LITTENBERG, KRUMH 500 SOUTH AVENUE WEST WESTFIELD, NEW JERSEY 07090 VEECO 3.0-069 DIV MELINDA C. CORMIER /Melinda C. Cormier/	via US Mail.	

former PTO/SB/15	(8-00) Modified	LDLK&M
------------------	-----------------	--------

L

Docket Number (Optional) EMCORE 3.0-069

Whereas, I, Alexander Gurary 1068 Tullo Farm Road; Bridgewater, New Jersey 08807 hereafter referred to as assignor, have with others invented ce REACTOR HAVING A MOVABLE SHUTTER X for which an application for a United States Letters P Application Number 10/046,426 for which an application for a United States Letters Parand	atent was filed on January 16, 2002
1068 Tullo Farm Road; Bridgewater, New Jersey 08807 hereafter referred to as assignor, have with others invented ce REACTOR HAVING A MOVABLE SHUTTER X for which an application for a United States Letters P Application Number 10/046,426 for which an application for a United States Letters Patient	rtain new and useful improvements in atent was filed onJanuary 16, 2002
hereafter referred to as assignor, have with others invented ce REACTOR HAVING A MOVABLE SHUTTER X for which an application for a United States Letters P Application Number 10/046,426 Image: for which an application for a United States Letters P	atent was filed on January 16, 2002
REACTOR HAVING A MOVABLE SHUTTER Image: State in the image is a state in the image is	atent was filed on January 16, 2002
Application Number 10/046,426 Image: State of the state	
	ent was executed by me on,
Whereas, <u>Emcore Corporation</u> a corporation of herein referred to as "assignee" whose mailir	a address is
145 Belmont Drive; Somerset, New Jersey 08873	g 2001033 13
s desirous of acquiring the entire right, title and interest in the	same;
said assignee my entire right, title and interest for the United to said invention and the aforesaid utility patent application ar or reissue applications and patents applied for or granted there countries, for said invention, including without limitation all app priority or benefit of the aforesaid utility application pursuant claim such priority or benefit and the Commissioner of Pate requested to issue all patents on said improvements or re assignee of the entire interest therein; and the undersigned assigns do hereby agree and covenant without further ren divisional, continuation, reissue and other applications for assignments thereof to said assignee or its assigns, to commu facts known to the undersigned respecting said improver interferences or other legal proceedings in which any of said a sign all lawful papers, make all rightful oaths, and to do gen successors, assigns and nominees to obtain patent protect expenses incident to said applications to be borne and paid by	d all original, divisional, continuation, substitute efor in the United States of America and all other dications and patents for said invention claiming to any law or treaty, and including the right to ants and Trademarks is hereby authorized and sulting therefrom to said assignee herein, as for me and my legal representatives, heirs and nuneration, to execute and deliver all original, Letters Patent on said improvements and all inicate to said assignee or its representatives all nents, whenever requested, to testify in any applications or patents may become involved, to erally everything necessary to aid assignee, its ion for said improvements in all countries, the
I, as assignor, hereby assign to said assignee all of my righ Application No. <u>60/296,598</u> , filed <u>June 7, 200</u> countries of the world including the right to claim <u>60/296,598</u> pursuant to any law or trea	1, and in the invention disclosed thereto in all
3/27/ 2 (Date)	Alex Gersary (Signature)
State of <u>New Jersey</u>) SS: County of <u>Converset</u>)	
County of $\underline{Converset}$)	
On this <u>37</u> day of <u>Marcin</u> , <u>2000</u> before <u>Alexander Gurary</u> , to me personally known as the individu acknowledged to me that the same was executed by him/her	al who executed the foregoing instrument, who
Ander Potrice Seichum 1	ELECIA PATRICE BEACHUM
	OTARY PUBLIC OF NEW JERSEY
	My Commission Exp. Aug. 10, 2005
x *Total of 4 forms are submitted.	

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)				
	EMCORE 3.0-069				
Whereas, I, Scott Elman of					
20 Leeds Lane; Monroe Township, New Jersey 08831					
hereafter referred to as assignor, have with others invented cer	tain new and useful improvements in				
REACTOR HAVING A MOVABLE SHUTTER					
X for which an application for a United States Letters Patent was filed on					
for which an application for a United States Letters Pate	ant was executed by me on				
and	, , , , , , , , , , , , , , , , , , ,				
Whereas, Emcore Corporation					
a corporation of herein referred to as "assignee" whose mailing 145 Belmont Drive; Somerset, New Jersey 08873	address is				
is desirous of acquiring the entire right, title and interest in the s	same:				
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.					
I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. <u>60/296,598</u> , filed <u>June 7, 2001</u> , and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. <u>60/296,598</u> pursuant to any law or treaty in the countries of the world.					
$\frac{3/27/02}{(\text{Date})}$	Jest El				
/ (Date)	(Signature)				
State of <u>New Strange</u>) SS: County of <u>Stranger</u>)					
On this $\underline{X1}$ day of \underline{Murino} , $\underline{x002}$ before me personally came the above-named <u>Scott Elman</u> , to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.					
- talena Madrice REAChum FELEC	RY PUBLIC OF NEW JERSEY				

- -

NOTARY PUBLIC OF NEW JERSEY My Commission Exp. Aug. 10, 2005

*Total of 4 forms are submitted. x

Docket Number (Optional) EMCORE 3.0-069

EMCORE 3.0-069				
Whereas, I, Keng Moy of 24 Cedar Creek Drive; Basking Ridge, New Jersey 07920 hereafter referred to as assignor, have with others invented certain new and useful improvements in				
REACTOR HAVING A MOVABLE SHUTTER Image: X for which an application for a United States Letters Patent was filed on Application Number 10/046,426				
for which an application for a United States Letters Patent was executed by me on, and				
Whereas, Emcore Corporation a corporation of herein referred to as "assignee" whose mailing address is 145 Belmont Drive; Somerset, New Jersey 08873 is desirous of acquiring the entire right, title and interest in the same;				
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.				
I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. <u>60/296,598</u> , filed <u>June 7, 2001</u> , and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. <u>60/296,598</u> pursuant to any law or treaty in the codntries of the world.				
3/27/C2 (Date) (Signature)				
State of <u>New Jersey</u>) SS: County of <u>Semerser</u>)				
On this <u>X1</u> day of <u>March</u> , <u>NOCL</u> before me personally came the above-named <u>Keng Moy</u> , to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth. <u>Villette Fadrice Fraction</u> (Notary Public) FELECIA PATRICE BEACHUM NOTARY PUBLIC OF NEW JERSEY <u>My Commission Exp. Aug. 10, 2005</u>				
x *Total of forms are submitted.				

-

ዋላናቸው የአዊርቲት: 104849 ሆ የጽቆለም። 06% 19

	Docket Number (Optional)				
ASSIGNMENT OF UTILITY APPLICATION	EMCORE 3.0-069				
Whereas, I, Vadim Boguslavskiy of					
26 Rider Terrace; Princeton, New Jersey 08540					
hereafter referred to as assignor, have with others invented certain new and useful improvements in REACTOR HAVING A MOVABLE SHUTTER					
Xfor which an application for a United States Letters Patent was filed onJanuary 16, 2002Application Number10/046,426					
for which an application for a United States Letters Patent was executed by me on, and					
Whereas, Emcore Corporation a corporation of herein referred to as "assignee" whose mailing address is 145 Belmont Drive; Somerset, New Jersey 08873					
is desirous of acquiring the entire right, title and interest in the s	ame;				
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its expenses incident to said applications to be borne and paid by said assignee.					
I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. <u>60/296,598</u> , filed <u>June 7, 2001</u> , and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. <u>60/296,598</u> pursuant to any law or treaty in the countries of the world.					
$\frac{3/27/i2}{(\text{Date})}$ V.	boguslavs hirf (Signature)				
State of <u>New Versey</u>) SS: County of <u>Sernerse(</u>)					
County of <u>Samerse(</u>)					
On this 27 day of <u>latentia</u> , 200 before me personally came the above-named <u>Vadim Boguslavskiy</u> , to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.					
Stall RIN ACCALLE FRACTICION EF					
(Notary Public) NOTARY PUBLIC OF NEW JERSEY My Commission Exp. Aug. 10, 2005					
My	Commission Exp. / Mg. 10/ 2000				

(10.500 × 11.100)

X

*Total of

4

RECORDED: 08/31/22092

forms are submitted.