

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6298554

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MOHAMMAD KAMAREHI	03/09/2017
KEN TRENHOLM	06/15/2018
COLIN SANFORD	03/06/2017
KEVIN WENZEL	03/09/2017
OLIVIA KELLER	03/13/2017
RECEIVING PARTY DATA	
Name:	MKS INSTRUMENTS, INC.
Street Address:	2 TECH DRIVE
Internal Address:	SUITE 201
City:	ANDOVER
State/Country:	MASSACHUSETTS
Postal Code:	01810
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16993775
CORRESPONDENCE DATA	
Fax Number:	(617)345-3299
<i>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.</i>	
Phone:	6173453000
Email:	lyotts@burnslev.com, docketing@burnslev.com
Correspondent Name:	BURNS & LEVINSON LLP
Address Line 1:	125 HIGH STREET
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	MAC-012CON
NAME OF SUBMITTER:	STEVEN M. MILLS
SIGNATURE:	/Steven M. Mills/
DATE SIGNED:	09/15/2020
Total Attachments: 8	

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ASSIGNMENT

WHEREAS, we, Ken Trenholm, Mohammad Kamarehi, Colin Sanford, Kevin Wenzel and Olivia Keller have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

**MICROWAVE APPLICATOR WITH SOLID-STATE
GENERATOR POWER SOURCE**

and identified by

☐ Attorney Docket No. MAC-012US, and/or executed by us on even date herewith and about to be filed in the United States Patent Office;

☒ Application No. 15/460,611 filed in the United States Patent Office on March 16, 2017; and

WHEREAS, MKS Instruments, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts 01810, desires to acquire an interest therein, in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand-and affixed my seal on the date(s) set forth below.

Inventor *Ken Trenholm* Date 6/15/18

Ken Trenholm

Address 191 Porcupine Circle
Salem, NH 03079

Witness Signature *Gail D. Distefano*

Print Witness Name Gail D. Distefano

Address 55 Clarendon St
MALDEN, MA 02148

Witness Signature *Diane L. Lewandowski*

Print Witness Name Diane L. Lewandowski

Address 160 Wyman Dr.
SALEM, MA 01970

ASSIGNMENT

WHEREAS, we, Mohammad Kamarehi, Ken Trenhom, Colin Sanford, Kevin Wenzel and Olivia Keller have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

**MICROWAVE APPLICATOR WITH SOLID-STATE
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☒ Attorney Docket No. MAC-012US, and/or executed by us on even date herewith and about to be filed in the United States Patent Office;

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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

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AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand-and affixed my seal on the date(s) set forth below.

Inventor	<u>Mohammad Kamarehi</u>	Date	<u>3/9/2017</u>
Mohammad Kamarehi			
Address	<u>504 Katadin Dr.</u>		
	<u>Lexington, MA 02421</u>		
Witness Signature	<u>[Signature]</u>		
Print Witness Name	<u>Ken Trenholm</u>		
Address	<u>191 Braintree Circle</u>		
	<u>Salem, NH 03079</u>		
Witness Signature	<u>[Signature]</u>		
Print Witness Name	<u>Kevin Weazel</u>		
Address	<u>116 Glenn Rd</u>		
	<u>Belmont, MA 02478</u>		

IN TESTIMONY WHEREOF, I have hereunto set my hand-and affixed my seal on the date(s) set forth below.

Inventor



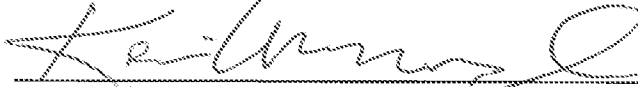
Date 3/9/17

Ken Trenhom

Address

191 Porcupine Circle
Salem, NH 03079

Witness Signature



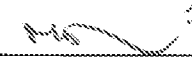
Print Witness Name

Kevin Wenzel

Address

11 Glena Rd.
Belmont, MA 02478

Witness Signature



Print Witness Name

Mohammed Kamarehi

Address

504 Katubolin Dr.
Lexington, MA 02421

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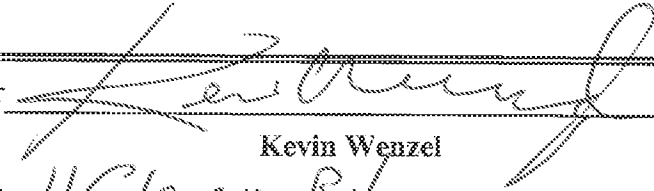
Inventor Colin Sanford Date 5/6/17
Colin Sanford
Address 5 Hayden Drive
Atkinson, NH 02811

Witness Signature [Signature]
Print Witness Name LISA Caloggero
Address 21 Senter St.
Salem NH 03079

Witness Signature [Signature]
Print Witness Name Mohammad Ramarehi
Address 584 Katakhdin Dr.
Lexington, MA 02421

IN TESTIMONY WHEREOF, I have hereunto set my hand-and affixed my seal on the date(s) set forth below.

Inventor



Date

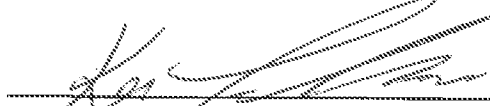
3/9/17

Kevin Wenzel

Address

11 Glenn Rd
Belmont MA 02478

Witness Signature



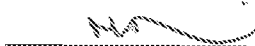
Print Witness Name

Ken Trenholm

Address

191 Porcupine Circle
Salem, NH 03079

Witness Signature




Print Witness Name

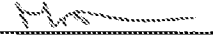
Mohammad Kamarehi

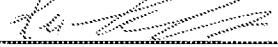
Address

504 Kat-hadin Dr.
Lexington, MA 02421

IN TESTIMONY WHEREOF, I have hereunto set my hand-and affixed my seal on the date(s) set forth below.

Inventor  Date 3/13/2017
Olivia Keller
Address 14 Bedford Rd, TOPSFIELD MA 01983

Witness Signature 
Print Witness Name Mohammad Kamareh
Address 504 Kalandin Dr.
Lexington, MA 02401

Witness Signature 
Print Witness Name Ken Treabehn
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Salem, NH 03079

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