

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GORDON HILL	10/04/2017
DAVID F. BROYER	09/28/2017
DAVID C. NEUMEISTER	09/29/2017
BRADLY RAYMOND LEFEVRE	09/29/2017
RECEIVING PARTY DATA	
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Internal Address:	SUITE 201
City:	ANDOVER
State/Country:	MASSACHUSETTS
Postal Code:	01810
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16408752
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NAME OF SUBMITTER:	STEVEN M. MILLS
SIGNATURE:	/Steven M. Mills/
DATE SIGNED:	07/02/2019
Total Attachments: 5	
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ASSIGNMENT

WHEREAS, we, Gordon Hill, David F. Broyer, David C. Neumeister, and Bradly Raymond Lefevre have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

ACTIVELY COOLED VACUUM ISOLATION VALVE

and identified by

Attorney Docket No. MAC-008US, and/or executed by us on even date herewith and about to be filed in the United States Patent Office;

Application No. 15/478,623 filed in the United States Patent Office on April 4, 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;

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

Inventor	<u>David F. Broyer</u> David F. Broyer	Date	<u>9/28/2017</u>
Address	<u>20 Morning Dove Rd</u> <u>Kingston NH 03848</u>		
Witness Signature	<u>Brian J. Hebert</u>		
Print Witness Name	<u>BRIAN J. HERBERT</u>		
Address	<u>207 EASTERN AVE APT 38</u> <u>MANCHESTER, NH 03104</u>		
Witness Signature	<u>James P. ...</u>		
Print Witness Name	<u>James P. ...</u>		
Address	<u>1 ... Street</u> <u>Derry, NH 03028</u>		

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

Inventor *D. C. Neumeister* Date 9-29-2017
David C. Neumeister

Address 1603 Holland Way
Lafayette, CO 80503

Witness Signature *[Signature]*

Print Witness Name Matthew Harless

Address 1725 W. 129th Dr
Wheatminster CO 80234

Witness Signature *[Signature]*

Print Witness Name JAMES G. LINDGREN

Address 3135 W. MISSISSIPPI AVE.
LAKEWOOD CO 80226

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

Inventor Bradly Raymond Lefevre Date 9/29/2017
Bradly Raymond Lefevre

Address 12471 West Maryland Drive
Littleton CO 80228

Witness Signature [Signature]

Print Witness Name Karl Hausmann

Address 976 10th St.
Boulder Co 80302

Witness Signature [Signature]

Print Witness Name SIMON MYERS

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