

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mr. Martin L. Spartz</td> <td>12/19/2005</td> </tr> <tr> <td>Mr. Vidi Saptari</td> <td>12/16/2005</td> </tr> </tbody> </table>		Name	Execution Date	Mr. Martin L. Spartz	12/19/2005	Mr. Vidi Saptari	12/16/2005
Name	Execution Date						
Mr. Martin L. Spartz	12/19/2005						
Mr. Vidi Saptari	12/16/2005						
RECEIVING PARTY DATA							
Name:	MKS Instruments, Inc.						
Street Address:	90 Industrial Way						
City:	Wilmington						
State/Country:	MASSACHUSETTS						
Postal Code:	01887						
PROPERTY NUMBERS Total: 1							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11240799</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11240799		
Property Type	Number						
Application Number:	11240799						
CORRESPONDENCE DATA							
Fax Number:	(617)526-9899						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	617.526.9800						
Email:	jcapraro@proskauer.com						
Correspondent Name:	Joseph A. Capraro, Jr.						
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Address Line 2:	Proskauer Rose LLP, 22nd Floor						
Address Line 4:	Boston, MASSACHUSETTS 02110						
ATTORNEY DOCKET NUMBER:	49548/175						
NAME OF SUBMITTER:	Joseph A. Capraro, Jr.						
Total Attachments: 2 source=ASX-084 Assignment#page1.tif source=ASX-084 Assignment#page2.tif							

CH \$40.00 11240799

ASSIGNMENT

WHEREAS, We, Martin L. Spartz and Vidi Saptari have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

MULTIGAS MONITORING AND DETECTION SYSTEM

and identified by

- Attorney Docket No. ASX-084; and
- Serial No. 11/240,799 filed in the United States Patent Office on September 30, 2005; 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 90 Industrial Way, Wilmington, MA 01887, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

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, our 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 us 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;

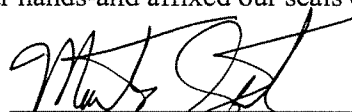
AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

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, we have hereunto set our hands-and affixed our seals on the date(s) set forth below.

Inventor:


Martin L. Spartz


State/Commonwealth of Massachusetts
County of Middlesex) ss

On this 19th day of December, 2005, before me, the undersigned notary public, personally appeared Martin L. Spartz, proved to me through satisfactory evidence of identification, which were CT Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.



Paula J. Edwards
Notary Public
My Commission Expires: _____
Paula J. Edwards
Notary Public
My Commission Expires
July 24, 2009

Inventor:


Vidi Saptari

State/Commonwealth of Massachusetts
County of Essex) ss

On this 16 day of December, 2005, before me, the undersigned notary public, personally appeared Vidi Saptari, proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document in my presence.

Janet C. Gida
Notary Public
My Commission Expires: 12-03-10
