

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Ali Shajii</td> <td>03/22/2006</td> </tr> <tr> <td>Siddharth P. Nagarkatti</td> <td>03/22/2006</td> </tr> <tr> <td>Gordon Hill</td> <td>03/22/2006</td> </tr> </tbody> </table>		Name	Execution Date	Ali Shajii	03/22/2006	Siddharth P. Nagarkatti	03/22/2006	Gordon Hill	03/22/2006
Name	Execution Date								
Ali Shajii	03/22/2006								
Siddharth P. Nagarkatti	03/22/2006								
Gordon Hill	03/22/2006								
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>11333142</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11333142				
Property Type	Number								
Application Number:	11333142								
CORRESPONDENCE DATA									
Fax Number:	(617)535-3800								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	617-535-4411								
Email:	ekim@mwe.com								
Correspondent Name:	Elizabeth E. Kim								
Address Line 1:	McDermott Will & Emery LLP								
Address Line 2:	28 State Street								
Address Line 4:	Boston, MASSACHUSETTS 02109								
ATTORNEY DOCKET NUMBER:	56231-606 (MKSK-174)								
NAME OF SUBMITTER:	Elizabeth E. Kim								

CH \$40.00 11333142

Total Attachments: 4
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ATTORNEY DOCKET: 56231-606 (MKSK-174)

A S S I G N M E N T

Whereas we, the undersigned,

Ali Shajii, a citizen of the U.S., residing at 26 Standish Drive, Canton, MA 02021, USA;

Siddharth P. Nagarkatti, a citizen of India, residing at 800 23 Davis Road, Apt. B2, Acton, MA 01720, USA;

Gordon Hill, a citizen of the U.S., residing at 175 Lowell Street, Arlington, MA 02474, USA;

hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled

PRESSURE REGULATION IN REMOTE ZONES

identified as Attorney Docket No. **56231-606 (MKSK-174)**, which application was filed on January 17, 2006, and assigned Application No. 11/333,142.

Whereas, **MKS Instruments, Inc.**, having an office and a place of business at **90 Industrial Way, Wilmington, MA 01887**, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all

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said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

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In testimony of which we have executed this Assignment on the date indicated next to our name.

Inventor's Signature:

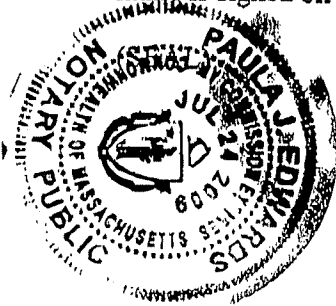
Ali Shajii

Name: **Ali Shajii**

Date: 3/22/06

State/Commonwealth
of Massachusetts
County of Middlesex

On this 22 day of March, 2006, before me, the undersigned notary public, personally appeared Ali Shajii, proved to me through satisfactory evidence of identification, which were MA Drivers Lic., to be the person whose name is signed on the preceding or attached document in my presence.



Notary Public *Paula J. Edwards*

My Commission expires 7/24/2009

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

Inventor's Signature:

Siddharth P. Nagarkatti

Name: **Siddharth P. Nagarkatti**

Date: 3/22/06

State/Commonwealth
of Massachusetts
County of Middlesex

On this 22 day of March, 2006, before me, the undersigned notary public, personally appeared Siddharth P. Nagarkatti, proved to me through satisfactory evidence of identification, which were MA License, to be the person whose name is signed on the preceding or attached document in my presence.



Notary Public *Paula J. Edwards*

My Commission expires 7/24/2009

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

PATENT
ATTORNEY DOCKET: 56231-606 (MKSK-174)

Inventor's Signature:

Name: **Gordon Hill**

Gordon Hill

Date: *3/22/06*

State/Commonwealth *of Massachusetts*
of

County of *Middlesex*

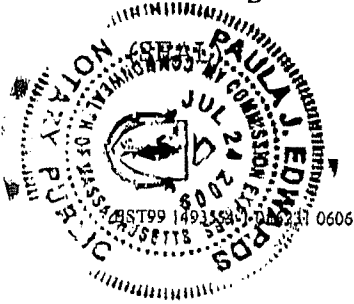
On this *22* day of *March*, 20*06*, before me, the undersigned notary public, personally appeared *Gordon Hill*, proved to me through satisfactory evidence of identification, which were *Personally Known* to be the person whose name is signed on the preceding or attached document ~~in~~ my presence.

Notary Public

Paula J. Edwards

My Commission expires

7 12 2009



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