Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
David J. Goldman	05/11/2006
Martin Ryan	05/11/2006
Vladislav Davidkovich	05/11/2006
Gordon Hill	05/11/2006

RECEIVING PARTY DATA

Name:	MKS Instruments, Inc.	
Street Address:	90 Industrial Way	
City:	Wilmington	
State/Country:	MASSACHUSETTS	
Postal Code:	01887	

PROPERTY NUMBERS Total: 1

Property Type Number	
Application Number:	11278071

CORRESPONDENCE DATA

Fax Number: (617)535-3800

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 617-535-4411 Email: ekim@mwe.com Elizabeth E. Kim Correspondent Name:

Address Line 1: McDermott Will & Emery LLP

Address Line 2: 28 State Street

Address Line 4: Boston, MASSACHUSETTS 02109

ATTORNEY DOCKET NUMBER:	56231-580 (MKS-172)	
NAME OF SUBMITTER:	Elizabeth E. Kim	

PATENT REEL: 017779 FRAME: 0278

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PATENT REEL: 017779 FRAME: 0279

ATTORNEY DOCKET: 56231-580 (MKSK-172)

ASSIGNMENT

Whereas we, the undersigned,

David J. Goldman, a citizen of the U.S., residing at 56 Thorndike Road, North Andover, MA 01845, USA;

Martin Ryan, a citizen of the U.S., residing at 30 Parsons Lane, Reading, MA 01867, USA;

Vladislav Davidkovich, a citizen of the Ukraine, residing at 6 Colonial Ct., #58, Stoneham, MA 02180, 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

Highly Responsive Master-Slave Valve Positioning

identified as Attorney Docket No. **56231-580 (MKSK-172)**, which application was filed on March 21, 2006, and assigned Application No. 11/278,071.

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 my entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, and any and all other applications for Letters Patent or the like on said inventions and discoveries in any and all countries, including all divisional, renewal, substitute, continuation, reissue and international applications, whether filed directly or under any international treaty or convention (including the Patent Cooperation Treaty and Paris Convention), that are based in whole or in part upon said inventions or discoveries, or upon said applications or Letters Patent or the like, including reissues, reexaminations, and extensions of any Letters Patent or the like granted for said inventions and discoveries or upon said applications, Letters Patent or the like, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and any of said Letters Patent or the like;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as

PATENT REEL: 017779 FRAME: 0280 Assignee may deem advisable, in the United States or internationally, whether filed directly or under any international treaty of convention (including the Patent Cooperation Treaty and Paris Convention);

- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments and agencies to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
- 4. Warrant that I have not conveyed to others any right, title or interest in or to 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 I have good right and title to assign the same to Assignee without encumbrance;
- 5. Designate Assignee as my special attorney in fact, but only for the purposes of lawfully preparing and executing any documents and taking all other reasonable and necessary actions to secure, protect and maintain the rights assigned herein and to otherwise prosecute, protect, maintain and commercially exploit any and all patent applications, patents and the like, whether foreign or domestic, flowing from this Assignment, including, but not limited to signing declarations, petitions and oaths required therefore;
- Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the inventions and discoveries, the 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 me, my 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 me 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 my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

PATENT ATTORNEY DOCKET: 56231-580 (MKSK-172)

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

	Inventor's Signature:		Name: David J. Goldman
<	MAddu	-	Date: 5/11/2006
	State/Commonwealth of		
	County of On this day of	vere Drivers	2006, before me, the undersigned notary dman, proved to me through satisfactory License, to be the person whose tent in my presence.
(SEAL) Notary Public Marie R. MacCerish		Marie R. MacCerish	
		My Commission	n expires $\frac{11}{12}$
	Inventor's Signature:		Name: Martin Ryan Date:
	Muh My	-	Date:
	State/Commonwealth of County of		
	On this day of Months, public, personally appeared Months	vere <u>Drive(J</u>	2006, before me, the undersigned notary 2006, proved to me through satisfactory 1000 to be the person whose ment in my presence.
	(SEAL)	Notary Public	Nave R. MacCush
		My Commissio	on expires $11/12/2016$

Inventor's Signature:	Name: Vladislav Davidkovich
V. Davilherin	Date: 5/11/06
State/Commonwealth of County of	
evidence of identification, which w	, 20 06 before me, the undersigned notary dere brides License, to be the person whose attached document in my presence.
(SEAL)	Notary Public Marie R. Mac Ciust
	My Commission expires // / / / / / / / / / / / / / / / / /
Inventor's Signature:	Name: Gordon Hill
Blm Min	Date: 5/1/06
State/Commonwealth of County of	
On this day of oppose public, personally appeared evidence of identification, which w	before me, the undersigned notary, proved to me through satisfactory vere rivers (freese, to be the person whose attached document in my presence.
(SEAL)	Notary Public Marie R. Mac Ciush
	My Commission expires $\frac{1}{12} \frac{1200}{200}$

BST99 1501892-1.056231.0580

RECORDED: 06/14/2006