### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Paul D. Lucas	06/03/2013
Gordon Hill	05/24/2013
Jaroslaw W. Pisera	05/24/2013

#### **RECEIVING PARTY DATA**

Name:	MKS Instruments, Inc.
Street Address:	2 Tech Drive, Suite 201
City:	Andover
State/Country:	MASSACHUSETTS
Postal Code:	01810

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13753019

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	086400-0920 (MKS-205)
NAME OF SUBMITTER:	Toby H. Kusmer
Signature:	/Toby H. Kusmer/
Date:	06/03/2013

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# Total Attachments: 4

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> PATENT REEL: 030534 FRAME: 0526

#### ASSIGNMENT OF PATENT RIGHTS

We, Paul D. Lucas residing at 254 Porter Street, Melrose, MA 02176, Gordon Hill, residing at 175 Lowell Street, Arlington, MA 02475, and Jaroslaw W. Pisera, residing at 6200 Habitat Drive, Boulder, CO 80301, having invented improvements in FLUID CONTROL VALVES, and having this day executed a patent application for United States patent describing the same based thereon (and We hereby authorize our attorney(s), authorized to prosecute U.S. Application Serial No. 13/753,019, Filed January 29, 2013, for good and valuable consideration, receipt of which is hereby acknowledged from MKS Instruments, Inc., a Massachusetts corporation having its principal place of business at 2 Tech Drive, Suite 201, Andover, MA 01810 (and hereinafter called the Assignee, which term shall include its successors and assigns), do hereby sell, assign and transfer unto the Assignee, our entire right, title, and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration we do also hereby sell, assign and transfer unto the Assignee all our rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty and all other treaties of like purpose in respect of said inventions and said application, and do hereby authorize the Assignee to apply in our name or in their own name (in a manner to be agreed upon by the Assignee) or their designee, for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration we do hereby agree for ourselves and for our respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee fully to secure to it said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them, all, however, at the expense of the Assignee;

And we do hereby authorize and request the Commissioner of Patents of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

And we do hereby covenant for ourselves and for our respective legal representatives and agree with the Assignee that we have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed my right, title and interest in and to said inventions has not been otherwise encumbered by us, and that we have not executed and will not execute any instrument in conflict herewith.

DM\_US 41966725-1.056231.0920

IN WITNESS WHEREC	Paul D. Lucas	
Commonwealth  State of Mossadaus  County of ESSEX  Before me this 2  Lucas, who is to me person	day of	
WITNESS		
Witness Signature:		
Witness Name:		
Witness Date:		

		Bh Mh	y Y
		Gordon Hill	
Commonwealth  State of Masso  County of ESSE			
Before me this HIII, who is to me perso	ay of MAY, y nally known, and acknowledged	the foregoing instrument  Notary Public	GEORGIA D. DRISTILIARIS Notary Public My Commission Expired December 12, 2014
Witness Signature:			
Witness Name:			
Witness Date:			

56231-920 (MKS-205)

	h pioc
	Jaroslaw W. Pisera
State of Colonado  County of Boll Her ss.	/
County of BOULEN ) ss.	
Before me this 24 day of Mgcel, you W. Pisera, who is to me personally known, and acknowleded.	ear of 2013, personally appeared <b>Jaroslaw</b> edged the foregoing instrument to be his free act and
	Notary Public
Seal	
WITNESS Witness Signature: Witness Signature	
Witness Name: <u>ERIN C. MCCARTHY</u>	
Witness Date: 5/24/13	

**RECORDED: 06/03/2013**