501847905 03/09/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Robert Krmpotich	03/08/2012
Paul D. Lucas	02/16/2012
Jaroslaw W. Pisera	03/08/2012
David B. Chamberlain	03/08/2012

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12611760	

CORRESPONDENCE DATA

 Fax Number:
 (202)756-8087

 Phone:
 202-756-8000

 Email:
 ptedesco@mwe.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: McDermott Will & Emery LLP Address Line 1: 600 13th Street, N.W.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005-3096

ATTORNEY DOCKET NUMBER: 56231-940 (MKS-207)

NAME OF SUBMITTER: Toby H. Kusmer

Total Attachments: 3

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> PATENT REEL: 027835 FRAME: 0916

12611760

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ASSIGNMENT OF PATENT RIGHTS

We, Robert Krmpotich, residing at 36 Hawk Drive, Salem, NH 03079, Paul D. Lucas residing at 254 Porter Street, Melrose, MA 02176, Jaroslaw W. Pisera, residing at 50 Hancock Street, Bedford, MA 01730 and, David B. Chamberlain, residing at 7 Gosselin Avenue, Hooksett, NH 03106, having invented improvements in BUTTERFLY VALVE AND SYSTEM EMPLOYING SAME AND METHOD FOR USING SAME **FILED**, 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. 12/611,760, Filed November 3, 2009, 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.

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	IN WITNESS WHEREOF, we hereunto set our hands and seal on the day and year hereinafter noted.					
	Hubt Kert					
	Robert Krmpotich					
	State of	Massachusetts s				
	County of _	Essex S	S.			
e i	Bef Krmpotich dæd.	Fore me this $\frac{8 \text{ Th}}{}$ day of $\frac{\text{MARCH}}{}$, who is to me personally known, and	, year of 202, personally appeared Robert acknowledged the foregoing instrument to be his free act and			
(n) (n) (e) (e)			GEORGIA D. DRISTILIARIS			
			COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 12, 2014			
	II WITNES	SS WHEREOF, we hereunto set our b	nands and seal on the day and year hereinafter noted.			
		,	Paul N. Jucas			
			Paul D. Lucas			
	State of	Massachusetts) Essex) s				
	County of _	Essex S	s.			
	Bef Lucas, who	Fore me this day of FEBRUCE is to me personally known, and acknown	year of <u>3012</u> , personally appeared Paul D . owledged the foregoing instrument to be his free act and deed.			
Mensily and the second			Genera DDinst			
(0)C)) > }	Notary Public GEORGIA D. DRISTILIARIS			
6/2/2/2010 6/2/2/2010			Nofary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 12, 2014			

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State of	Massachusetts				
County of	Essex) ss.			
Pisera, where the second secon	efore me this <u>8th</u> day of _no is to me personally know	March , ym, and acknowledg	ed the foregoing in	RUIA D. DRISTILIARIS NOTICE PROBLEM	aroslaw W.
State of	Massachusetts)			
County of	Essex) ss.			
Be Chamberl deed.	efore me this 8^{-11} day of lain, who is to me personall	MFRCH, y known, and acknown	Notary Public	oing instrument to be his	s free act and
			Сомі	Nofary Public MONWEALTH OF MASSACHUSETT My Commission Expires December 12, 2014	S

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