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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

# **CONVEYING PARTY DATA**

Name	Execution Date
Johannes Seiwert	11/13/2007
Ulrich Brammer	11/13/2007
Christiane Gottschalk	11/13/2007
Joachim Lohr	11/13/2007

### **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:	11873776	

# **CORRESPONDENCE DATA**

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ASX-117

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1

NAME OF SUBMITTER: Joseph M. Maraia

Total Attachments: 3

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ATTORNEY DOCKET NUMBER:

PATENT REEL: 020221 FRAME: 0732

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PATENT REEL: 020221 FRAME: 0733

Attorney Docket No: ASX-117

### **ASSIGNMENT**

WHEREAS, We, Johannes Seiwert, Ulrich Brammer, Christiane Gottschalk, and Joachim Lohr have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

DEVICES, SYSTEMS, AND METHODS FOR CARBONATION OF DEIONIZED WATER and identified by

Attorney Docket No ASX-117, and

Application No. <u>11/873,776</u> filed in the United States Patent Office on <u>October 17, 2007</u>; 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, Massachusetts, 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;

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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	e hereunto set o	ur hands-and affixed our seals on the
date(s) set forth below			
· · · · · · · · · · · · · · · · · · ·			
13 Dec 2007			Stal was a land
13 Det 2007		Y	THAMMUNDA MOHINUL
		Inventor:	<i>y</i>
			Johannes Seiwert
UR Nr. 624 / 2007			Colonia Variation
State/Commonwealth of	)		January Jacob
County of	) ss		born 30.05.1957
•	•		Swinemünder Str. 74, 13355 Berlin
On this 13 day of Novembe	r	2007, before r	ne, the undersigned notary <del>public</del> ,
personally appeared Johannes Seiwert,	proved to	ne through sa	tisfactory evidence of identification
which were <u>identity card</u>			
preceding or attached document in my p		, to be the pe	rson whose hame is signed on the
	oresence.	•	
Max Selmar			
	i.		
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		Notary Public	$\Psi$
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Prin Berlin	,	Inventor:	Which Bramms
In Ber		2117 0111011	Ulrich Brammer
UR Nr. 625/ 2007			Ulrich Brammer Ulnuh Brannns
State/Commonwealth of	`		10 00 10 00
	Į		born 10.09.1958
County of	) ss		Malplaquetstr. 25, 13347 Berlin
10 м			
On this 13 day of Novembe	r	, 2007, before n	ne, the undersigned notary <del>public</del> ,
personally appeared <u>Ulrich Brammer</u> , pr	roved to	me through sati	sfactory evidence of identification, which
were identity cardela	, to l	be the person wi	hose name is signed on the preceding or
attached document in my presence		•	·
			9/
		Notary Public	
		My Commissio	on Expires: unlimited
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The Notary asked the appear	ring r	ersons when	ther he or a person with whom thw employed or is curnently employed
Notary shares hispoffic e	had al	ready been	employed or is currently employed
in this matter. The appear	ing ne	reone deni	ed
in this matter. The appear	Ting pe	TROUS GENT	-u· //
			Dr. Koeben
			Notary //
			Commission/unlimited

PATENT REEL: 02<del>02</del>21 FRAME: 0735

Attorney Docket No.: ASX-117 U.S. Application No: 11/873,776 Page 3 of 3 Christiane Gotschalk Christiane Gottschalk Sollda / Christiane Gottschalk Sollda / Christiane Sollda / Christiane Gottschalk Inventor: UR Nr. 626 / 2007 State/Commonwealth of County of ) ss Fehmarner Str. 6, 13353 Berlin On this \( \text{\text{\text{\text{0}}}} \) day of \( \text{\text{\text{\text{Vouch \text{\text{\text{U}}}}}} \), 2007, before me, the undersigned notary \( \text{\text{public}}, \) personally appeared Christiane Gottschalk, proved to me through satisfactory evidence of identification, which were <u>identity</u> card , to be the person whose name is signed on the preceding or attached document in my presence. Notary Public My Commission Expires: unlimited Inventor: UR Nr. 627/2007 State/Commonwealth of County of born 04.03.1955 Holsteinische Str. 6, 10717 Berlin \_, 2007, before me, the undersigned notary public, On this 13 day of November personally appeared Joachim Lohr, proved to me through satisfactory evidence of identification, which were <u>driving license</u> \_, to be the person whose name is signed on the preceding or attached document in my presence Notary Public My Commission Expires: unlimited

The Notary asked the appearing persons whether he or a person with whom the Notary shares his office had already been employed or is currently employed in this matter. The appearing persons denied.

Dr. Koeben Notary

Commission unlimited

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**RECORDED: 12/10/2007** 

Joint Assignment

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