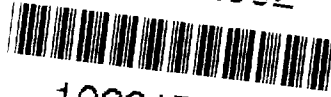


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Docket No.: 56231-341 (MKS-102)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please receive the attached original documents or copy thereof.

1. Name of conveying party(ies):
Ali Shajii
Nicholas Kottenstette
Jess Ambrosina

Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):

Name: **MKS Instruments, Inc.**

Internal Address: _____

Street Address: **Six Shattuck Road**

City: **Andover** State: **MA** ZIP: **01810**

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: _____

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
10/178,721

B. Patent No.(s)
Filed June 24, 2002

Additional numbers attached? Yes No

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FINANCE SECTION

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Toby H. Kusmer**

Internal Address: **McDermott, Will & Emery**

Street Address: **28 State Street**

City: **Boston** State: **MA** ZIP: **02109**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:
50-1133

(Attach duplicate copy of this page if paying by deposit account)

1

40.00 DP

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James W. Wiegand

Name of Person Signing *[Signature]* Signature **09/10/02** Date

Total number of pages including cover sheet, attachments, and document: **5**

09/11/2002 LINELLER 0000063 10976721 01 FDE581

ASSIGNMENT OF PATENT RIGHTS

We, **Ali Shajii**, 26 Sandish Drive, Canton, MA 02021, **Nicholas Kottenstette**, 37 Olive Street, Newburyport, MA 01950, and **Jesse Ambrosina** 11 Boxford Road, Topsfield, MA 01950 for good and valuable consideration paid to us by

MKS INSTRUMENTS, INC.

a Massachusetts Corporation having a principal place of business at Six Shattuck Road, Andover, Massachusetts 01810, U.S.A., the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

MKS INSTRUMENTS, INC.

its successors and assigns, our entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**APPARATUS AND METHOD FOR PRESSURE FLUCTUATION
INSENSITIVE MASS FLOW CONTROL**

described in United States non-provisional patent application Serial No. **10/178,721**, filed on **June 24, 2002**, (authorizing our attorney(s), who are authorized to prosecute said application, to here insert the filing date and serial number of said application, when known), and all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or any non-provisional, divisional, continuing, reissue or other applications based in whole or in part on said provisional and non-provisional application(s).

And we agree for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 18th day of July, 2002.

Ali Shajii
ALI SHAJII

Commonwealth of Massachusetts)
County of SUFFOLK) ss
)

Then personally appeared the above named Ali Shajii and acknowledged the foregoing instrument to be his free act and deed, before me, this 18th day of July, 2002.

Jane Maguder LaBranche
Notary Public

My commission expires:
Seal Jane Maguder LaBranche
NOTARY PUBLIC
My commission expires Aug. 15, 2008

WITNESS my hand and seal this 18th day of July, 2002.

Nicholas Kottenstette
NICHOLAS KOTTENSTETTE

Commonwealth of Massachusetts)
County of SUFFERN) ss
)

Then personally appeared the above named Nicholas Kottenstette and acknowledged the foregoing instrument to be his free act and deed, before me, this 18th day of July, 2002.

Jane Maguder LaBranche
Notary Public
My commission expires:
Seal Jane Maguder LaBranche
NOTARY PUBLIC
My commission expires Aug. 15, 2008

