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11-23-2004

FORM PTO-1595
(Rev. 10/02)

Docket No.: 56231-408 (MKS-125)



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner for Patent

102887252

...ed original documents or copy thereto:

1. Name of Conveying Party(ies):

Paul Meneghini
Ali Shajii

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

Name: MKS Instruments, Inc.

Address: 90 Industrial Way
Wilmington, MA 01887

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: 11/3/04

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

22141 U.S. PTO
10/988026



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

If the document is being filed together with a new application, the execution date of the application is: 11/3/04

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? Yes No

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

Name: Toby H. Kusmer, Esq.
Internal Address: MCDERMOTT WILL & EMERY LLP

Street Address: 28 State Street

City: Boston State: MA Zip: 02109-1775

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:
50-1133

DO NOT USE THIS SPACE

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.

Jeffrey J. Miller, Reg. No.: 39,773

11-11-04

Name and Registration No. of Person Signing

Signature

Date

Total number of pages including cover sheet:

OMB No. 0651-0027 (exp. 6/30/2005)

11/22/2004 ECOOPER 00000210 501133 10988026

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ASSIGNMENT OF PATENT RIGHTS

We, **Paul Meneghini**, 47 Highland Avenue, Haverhill, MA 01830, and **Ali Shajii**, 26 Standish Drive, Canton, MA 02021, having invented improvements in a **THERMAL MASS FLOW RATE SENSOR INCLUDING BYPASS PASSAGEWAYS AND A SENSOR PASSAGEWAY HAVING SIMILAR ENTRANCE EFFECTS** and having this date executed an application for United States patent describing the same and based thereon (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), **Serial No. _____, filed _____**, for good and valuable consideration, receipt of which is hereby acknowledged from **MKS Instruments, Inc.**, a **Massachusetts** Corporation having a principal place of business at **Six Shattuck Road, Andover, Massachusetts 01810, USA**, and hereinafter referred to as the Assignee (which term shall include the successors and assigns), do hereby sell, assign and transfer to 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 all inventions (which term shall include each and every such invention, or any 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 we do hereby authorize the Assignee to apply in our names 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 jointly and severally 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 and Trademarks 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 jointly and severally 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 our 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.

IN WITNESS WHEREOF, we hereunto set our hands and seals on the day and year hereinafter noted.

Paul Meneghini
Paul Meneghini

State of Massachusetts)
County of Middlesex)ss.

Before me this 3rd day of November, 2004, personally appeared **Paul Meneghini**, who is to me personally known, and acknowledged the foregoing instrument to be his or her free act and deed.

Paula J Edwards
Notary Public

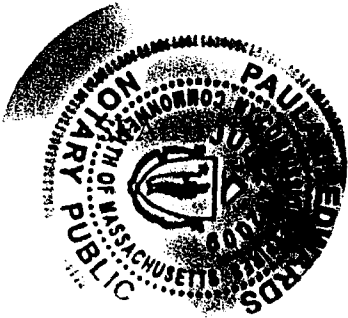


Ali Shajii
Ali Shajii

State of Massachusetts)
County of Middlesex)ss.

Before me this 30th day of November, 2004, personally appeared **Ali Shajii**, who is to me personally known, and acknowledged the foregoing instrument to be his or her free act and deed.

Paula J Edwards
Notary Public



Toby H. Kusmer, Esq.
McDermott Will & Emery
28 State Street
Boston, MA 02109-1775
617-535-4421

Attorney Docket No. MKS-125 (56231-408)