

09-11-2002



HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

102217002

Tab settings

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

1. Name of conveying party(ies):

Ali Shajii
Nicholas Kottenstette
Jesse Ambrosina

9.9.02

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

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: July 18, 2002

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)

10/178,884

Filed June 24, 2002

B. Patent No.(s)

Additional numbers attached? Yes No

FINANCE SECTION
2002 SEP -9 AM 9:02

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

09/10/2002 DBYRNE 00000196 10178884

01 FC:581

40.00 OP

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)

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.

James W. Wiegand

Name of Person Signing

Signature

Date

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

5

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

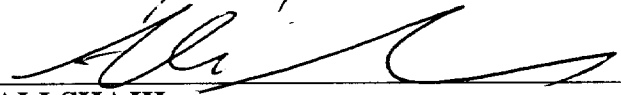
**APPARATUS AND METHOD FOR MASS FLOW CONTROLLER
WITH NETWORK ACCESS TO DIAGNOSTICS**

described in United States non-provisional patent application Serial No. **10/178,884**, 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.

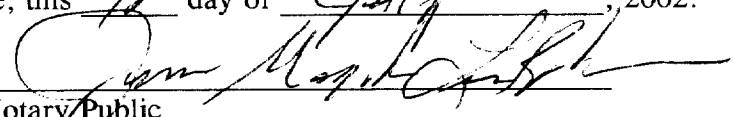
WITNESS my hand and seal this 18 day of July, 2002.



ALI SHAJII

Commonwealth of Massachusetts)
) ss
County of Suffolk)

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



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

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

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

Nicholas Kottenstette
NICHOLAS KOTTENSTETTE

Commonwealth of Massachusetts)
County of Essex) ss)

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

[Signature]
JESSE AMBROSINA

State of Massachusetts)
County of Essex) ss
)

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

[Signature]
Notary Public

My commission expires:

Seal

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

Attorney Docket: 56231-341 (MKS-102)
Toby H. Kusmer, Esq.
McDERMOTT, WILL & EMERY
28 State Street
Boston, MA 02109-1775
Tel.: (617) 535-4000
Fax: (617) 535-3800