

Form PTO-1595 (Rev. 03-11)
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U.S. DEPARTMENT OF COMMERCE
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Youfan Gu
Jeffrey D Kiernan
Charles C Lawhead

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) October 27, 2006

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: MKS Instruments, Inc.

Internal Address: _____

Street Address: 90 Industrial Way

City: Wilmington

State: MA

Country: United States of America Zip: 01887

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

13/048,824

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: COCHRAN FREUND & YOUNG LLC

Internal Address: _____

Street Address: 2026 CARIBOU DRIVE

SUITE 201

City: FT. COLLINS

State: CO Zip: 80525

Phone Number: 970 492 1100

Fax Number: 970 492 1101

Email Address: lynetted@patentlegal.com

6. Total number of applications and patents involved: 1 (one)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 501491

Authorized User Name Pam Calderwood

9. Signature:

Lynette DeBrey-Cota
Signature

5/27/2011
Date

Lynette DeBrey-Cota
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 501491 13048824

ASSIGNMENT

WHEREAS, We, Youfan Gu, 3322 West Torreys Peak, Superior, CO 80027, Jeffrey D. Kiernan, 5442 Wolf Street, Frederick, CO 80504, and Charles C. Lawhead, 3260 47th Street, #106, Boulder, CO 80301, are joint inventors along with William C. Bohlinger, Eric E. Ellis, Curtis A. Foster, James P. Hentges, Markis Louis-Gilmer Hoven, James H. Kreisel, Shawn Leininger, Robert O. Moran, Kurt W. Peterson, Jason R. Powell, and Dale T. Wolfe, of a certain new and useful **MULTIPLE HEATER CONTROL SYSTEM WITH EXPANDABLE MODULAR FUNCTIONALITY**, for which application for Letters Patent of the United States was filed on April 5, 2006, and assigned Serial No. 11/278,800;

WHEREAS, MKS Instruments, Inc., of 90 Industrial Way, Wilmington, Massachusetts 01887, a corporation fully organized and existing under the laws of the Commonwealth of Massachusetts, is desirous of acquiring our rights, title and interests therein and thereto;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) and certain other good and valuable consideration to me in hand paid, the receipt of which is hereby acknowledged, we, Youfan Gu, Jeffrey D. Kiernan, and Charles C. Lawhead, by these presents do sell, assign and transfer unto the said MKS Instruments, Inc., its successors, legal representatives and assigns, our entire rights, title, and interests in and to the said invention and the aforesaid patent application, for the territory of the United States of America and for all foreign countries and to all Letters Patent, continuations, reissues, and extensions to be obtained therefore; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent, but at the expense of said assignee.

We do further agree to execute all applications for patent, assignments, and other appropriate

documents and to perform all acts and to do all things necessary to make this Agreement effective and to perfect all right, title and interest in and to said discoveries, improvements or inventions in MKS Instruments, Inc., its successors, legal representative and assigns, as the assignee of our rights, title and interests therein.

IN WITNESS WHEREOF, we have individually and jointly hereunto set our hands and affixed our seals on the date(s) set forth hereinafter.



YOUFAN GU

STATE OF COLORADO

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COUNTY OF BOULDER

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Before me, a Notary Public in and for the said County and State, personally appeared YOUFAN GU, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 27 day of October, 2006.

(SEAL)



Notary Public

My Commission Expires: 8/18/07


JEFFREY D. KIERNAN

STATE OF COLORADO

)
)ss.
)

COUNTY OF BOULDER

Before me, a Notary Public in and for the said County and State, personally appeared JEFFREY D. KIERNAN, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 27 day of October, 2006.

(SEAL)


Notary Public

My Commission Expires: 8/18/07


CHARLES C. LAWHEAD

STATE OF COLORADO


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)ss.
)

COUNTY OF BOULDER

Before me, a Notary Public in and for the said County and State, personally appeared CHARLES C. LAWHEAD, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 27 day of October, 2006.

(SEAL)


Notary Public

My Commission Expires: 8/18/07