

04-13-2006



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To the Director of the U.S. Patent &

103218775

Documents or the new address(es) below.

4-11-06

1. Name of conveying party(ies)

- 1. Yoko SHINOHARA
- 2. Minao YAMAMOTO
- 3. Masataka SHINOI
- 4. Haruki KATO

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

2. Name and address of receiving party(ies)

Name: Seiko Instruments Inc.

Internal Address: _____

Street Address: 8, Nakase 1-chome, Mihama-ku

Chiba-shi

City: Chiba

State: _____

Country: JAPAN

Zip: 261-8507

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

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

Execution Date(s) APRIL 5, 2006

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/338,293

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Bruce L. Adams

Internal Address: _____

Street Address: ADAMS & WILKS

17 Battery Place - Suite 1231

City: New York

State: New York

Zip: 10004

Phone Number: (212) 809-3700

Fax Number: (212) 809-3704

Email Address: _____

6. Total number of applications and patents involved: 1

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

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- ANY DEFICIENCY IN ENCLOSED FEE Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 01-0268

Authorized User Name Bruce L. Adams

9. Signature:

Signature

APRIL 6, 2006

Date

BRUCE L. ADAMS
Name of Person Signing

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

2

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**MAILING CERTIFICATE ON
REVERSE SIDE OF PAGE**

**PATENT
REEL: 017772 FRAME: 0398**

ASSIGNMENT

WHEREAS, we, Yoko SHINOHARA, Minao YAMAMOTO, Masataka SHINOGI and Haruki KATO residing at c/o Seiko Instruments Inc., 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan have invented new and useful improvements in

A REACTOR, A MICROCHIP, AND A MICRO REACTOR SYSTEM AS
WELL AS A METHOD FOR MANUFACTURING THE REACTOR

for which we have prepared an application for Letters Patent of the United States of America;

AND WHEREAS, Seiko Instruments Inc., located and doing business at 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan, is desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor;

NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration to us in hand paid, the receipt of which is hereby acknowledged, we have assigned, sold and transferred and by these presents do hereby assign, sell and transfer unto the said Seiko Instruments Inc. for the territory of the United States of America, our entire right, title and interest in and to the said invention, and in and to the said application, prepared and executed by us on APRIL 5, 2006, filed JANUARY 24, 2006, Serial No. 11/338,293, preparatory to obtaining Letters Patent thereon and in and to any and all divisions, reissues and continuations thereof, and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said Seiko Instruments Inc., its legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment, sale and transfer not been made.

AND, we hereby covenant and agree that we will at any time upon the request and at the expense of said assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and we hereby authorize and request the Honorable Commissioner of Patents and Trademarks to issue the said Letters Patent to the said Seiko Instruments Inc. in accordance with this assignment.

Executed this 5th day of APRIL, 2006 at _____.

Witness:

Masaki HORI
 Masaki HORI

Yoko Shinohara (L.S.)
 Yoko SHINOHARA

Minao Yamamoto (L.S.)
 Minao YAMAMOTO

Masatak Shinozi (L.S.)
 Masataka SHINOGI

Haruki Kato (L.S.)
 Haruki KATO

PATENT

RECORDED: 04/06/2006

REEL: 017772 FRAME: 0399