

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3510480

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
INTER-UNIVERSITY RESEARCH INSTITUTE CORPORATION NATIONAL INSTITUTES OF NATURAL SCIENCES	07/30/2015
<b>RECEIVING PARTY DATA</b>	
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	7744810
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	HOYU.001
<b>NAME OF SUBMITTER:</b>	SEAN M. MCGINN
<b>SIGNATURE:</b>	/Sean M. McGinn/
<b>DATE SIGNED:</b>	09/02/2015
<b>Total Attachments: 4</b>	
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source=HOYU_373#page1.tif	
source=HOYU_373#page2.tif	

Assignment of U. S. Patent  
Docket No. 08FI001US

### ASSIGNMENT OF UNITED STATES PATENT

**WHEREAS:**

**NAME AND  
ADDRESS OF  
ASSIGNOR:**

INTER-UNIVERSITY RESEARCH INSTITUTE  
CORPORATION NATIONAL INSTITUTES OF NATURAL  
SCIENCES  
2-21-1, Osawa, Mitaka-shi  
TOKYO 181-0015, JAPAN

(hereinafter referred to as ASSIGNOR), jointly owns a certain new  
and useful invention entitled:

**TITLE OF  
INVENTION:**

MICROWAVE IRON-MAKING FURNACE  
(U.S. Patent No. 7,744,810)

**AND WHEREAS:**

**FULL NAME  
AND ADDRESS  
OF ASSIGNEE**

TOKYO UNIVERSITY OF THE ARTS  
12-8, Ueno Kouen, Taito-ku  
Tokyo 110-8714, Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring  
the entire right, title, and interest in, to and under said  
invention and the above-mentioned United States Letters  
Patent obtained therefor.

*NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be*

it known that in consideration of the payment of ASSIGNEE to  
ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of  
which is hereby acknowledged, and for other good and  
valuable consideration, ASSIGNOR, by these presents, hereby  
sells, assigns and transfers to ASSIGNEE the entire and  
exclusive right, title and interest to said invention and all  
Letters Patent of the United States obtained and to be  
obtained therefor including any continuation, division,  
renewal, substitute or reissue thereof for the full term or  
terms for which the same may be granted.

ASSIGNOR hereby authorizes and requests the Commissioner  
of Patents and Trademarks to issue said Letters Patent of the  
United States Patent obtained therefor on any continuation,  
division, renewal, substitute or reissue thereof for the full  
term or terms to said ASSIGNEE, of the entire right, title, and  
interest in and to the same, for his sole use and behoof, and  
for the use and behoof of his legal representatives, to the full  
end of the term or terms for which said Letters Patent  
obtained therefor or any continuation, division, renewal,

Assignment of U. S. Patent  
Docket No. 08FI001US

substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale; and

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING:

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 30th day of July, 2015.

ASSIGNOR SIGNATURE:

By: Katsuhiko Sato  
Katsuhiko Sato  
Title: President  
INTER-UNIVERSITY RESEARCH INSTITUTE  
CORPORATION NATIONAL INSTITUTES OF  
NATURAL SCIENCES

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

**STATEMENT UNDER 37 CFR 3.73(c)**Applicant/Patent Owner: Tokyo University of the Arts/Inter-University Research Institute Corporation National Institutes of Natural SciencesApplication No./Patent No.: 7,744,810 Filed/Issue Date: June 29, 2010Titled: MICROWAVE IRON-MAKING FURNACEInter-University Research Institute Corporation National Institutes of Natural Sciences, a Corporation of Japan

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1.  The <sup>Joint</sup> assignee of the entire right, title, and interest.
2.  An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is \_\_\_\_\_%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3.  The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4.  The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Motoyasu Sato To: Kazuhiro Nagata

The document was recorded in the United States Patent and Trademark Office at

Reel 021751, Frame 0878, or for which a copy thereof is attached.2. From: Kazuhiro Nagata To: Tokyo Institute of Technology and Inter-University Research Institute Corporation National Institutes of Natural Sciences

The document was recorded in the United States Patent and Trademark Office at

Reel 023184, Frame 0851, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(c)**

3. From: TOKYO INSTITUTE OF TECHNOLOGY To: TOKYO UNIVERSITY OF THE ARTS

The document was recorded in the United States Patent and Trademark Office at Reel 031275, Frame 0820, or for which a copy thereof is attached.

4. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

5. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

6. From: \_\_\_\_\_ To: \_\_\_\_\_

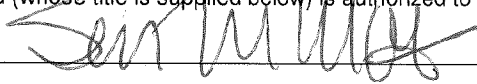
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.



9/2/2015

Signature

Date

Sean M. McGinn

34,386

Printed or Typed Name

Title or Registration Number