

Client Code: SAEG129.005APC

06-30-2005


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ET 09 Rec'd PCT/PTO 16 SEP 2004  
and original documents or copy thereof.

To the Director, U.S. Patent and Tra



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| <p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>(1) Ryoji FUNAHASHI<br/>(2) Masahiro SHIKANO</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>( ) Yes (X) No</p>  | <p>2. Name and address of receiving party(ies):</p> <p>Name: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY</p> <p>Address: 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921, Japan</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>( ) Yes (X) No</p> |
| <p>3. Nature of conveyance:</p> <p>( ) Assignment ( ) Security Agreement<br/>( ) Merger ( ) Change of Name<br/>( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)<br/>Both executed on August 30, 2004.</p>  | <p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Application(s) filed herewith</p> <p>Additional numbers attached?</p> <p>( ) Yes (X) No</p>   |
| <p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 20,995<br/><b>Return Fax:</b> (949) 760-9502<br/><b>Attorney's Docket No.:</b> SAEG129.005APC</p>   | <p>6. Total number of applications and patents involved: 1</p>   |
| <p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Enclosed</p>  | <p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>  |
| <p>9. Statement and signature.</p> <p>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.</p> <p><u>Katsuhiro Arai</u><br/>Name of Person Signing</p> <p><br/>Signature</p> <p>September 16, 2004<br/>Date</p> <p><u>43,315</u><br/>Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 3</p> |  |

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Documents transmitted via Mail to be recorded with required cover sheet information to:

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## ASSIGNMENT

WHEREAS, I/WE (1) FUNAHASHI Ryoji,

a Japanese citizen, residing at c/o Kansai Center of NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, 8-31, Midorigaoka 1-chome, Ikeda-shi, Osaka 563-8577, Japan

(2) SHIKANO Masahiro,

a Japanese citizen, residing at c/o Kansai Center of NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, 8-31, Midorigaoka 1-chome, Ikeda-shi, Osaka 563-8577, Japan

(3) \_\_\_\_\_,

a \_\_\_\_\_ citizen, residing at \_\_\_\_\_

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in COMPLEX OXIDE HAVING n-TYPE THERMOELECTRIC CHARACTERISTICS

the specification of which:

- (a) is attached hereto; or
- (b) was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_ or Express Mail No., as Application No. not yet known \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable); or
- (c)  was described and claimed in PCT International Application No. PCT/JP03/02827 filed on March 11, 2003 and as amended under PCT Article 19 on \_\_\_\_\_ (if any) and/or under PCT Article 34 on \_\_\_\_\_ (if any).

AND WHEREAS, NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY,

with its principal place of business at 3-1, Kasumigasaki 1-chome, Chiyoda-ku, Tokyo 100-8921, Japan (hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

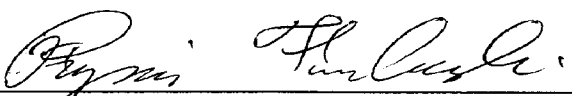
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for

said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 30th day of August, 2004

  
\_\_\_\_\_  
Signature of FUNAHASHI Ryoji

This 30th day of August, 2004

  
\_\_\_\_\_  
Signature of SHIKANO Masahiro

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Signature of \_\_\_\_\_