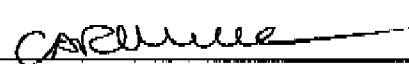


## ATTORNEY DOCKET NO: STF-S03-192

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICERECORDATION FORM COVER SHEET  
PATENTS ONLYTHIS DOCUMENT CONTINUES TO GO TO THE DIRECTOR UNLESS IT'S BEING FILED WITH A NEW APPLICATION IN WHICH CASE  
IT WOULD GO TO THE COMMISSIONER FOR PATENTSTO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED  
ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies): (a) Shuichi Murakami (b) Naoto Nagaosa (c) Shoucheng Zhang Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <b>The Board of Trustees of the Leland Stanford Junior University</b> Street Address: _____ City: <u>Stanford</u> State: <u>California</u> Zip: <u>94305</u> Country: <u>USA</u>
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: (a) <u>December 22, 2003</u> ; (b) <u>December 22, 2003</u> ; <u>(c) January 6, 2004</u>	Name and address of receiving party(ies): Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Country: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No
4. Application number(s) or patent number(s): See Below If this document is being filed together with a new application, the execution date of the application is: _____	
A. Patent Application No.(s) - <b>10/746,050</b> Title: <b>Electric Field Induced Spin-Polarized Current</b>	B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Carmen C. Cook</u> Internal Address: <u>Patent Law Group LLP</u> Street Address: <u>2635 North First St., Suite 223</u> City <u>San Jose</u> State <u>CA</u> Zip <u>95134</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account 502226 <input checked="" type="checkbox"/> Charge Deposit Account 502226 for any additional fees required for this conveyance and credit deposit account 502226 any amounts overpaid
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8. Statement and signature. <i>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.</i> Carmen C. Cook 42,433  <u>1/9/2004</u> Name of Person Signing Signature Date Total number of pages comprising cover sheet: 1	

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REEL: 014245 FRAME: 0821

Attorney Docket No.: STF-S03-192  
(SIGNED IN COUNTERPART)

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we,

<u>Shuichi Murakami</u>	of <u>Yokohama, Japan</u>
<u>Naoto Nagaosa</u>	of <u>Tokyo, Japan</u>
<u>Shoucheng Zhang</u>	of <u>Stanford, California</u>

hereby sell, assign and transfer to **The Board of Trustees of the Leland Stanford Junior University**, having a place of business at **Stanford, CA 94305**, its successors and assigns, the entire right, title and interest throughout the world in our invention in

**Electric Field Induced Spin-Polarized Current**

for which we have executed a United States patent application on or about the date of this assignment and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 22nd day of December, 2003.

*Shuichi Murakami*  
Shuichi Murakami

WITNESSED:

*Hitomi Miura*  
Signature

*Dec. 22, 2003*  
Date

*Hitomi Miura*  
Type or print name of witness

Attorney Docket No.: STF-S03-192  
(SIGNED IN COUNTERPART)

Executed this 22 day of December, 2003.

Naoto Nagaosa  
Naoto Nagaosa

WITNESSED:

Hitomi Miura  
Signature

Dec. 22, 2003  
Date

Hitomi Miura  
Type or print name of witness

Executed this 6 day of Jan, 2004.

Shoucheng Zhang  
Shoucheng Zhang

State of California )  
County of Santa Clara ) ss.

On Jan 6, 2004 before me, Sara Nakashima, Notary Public personally appeared Shoucheng Zhang personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Sara Nakashima  
SIGNATURE OF NOTARY

