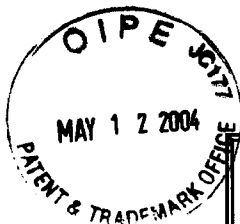


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Attorney Docket No. 032078

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Commissioner for Patents: Please record the attached original documents or copy thereof.

Submission type: XX New

Conveyance type: XX Assignment

Conveying Party(ies):	(Last, First, Middle Initial)	Execution Date
First party	Name: CRISAN, Ioan Adrian	November 20, 2003
Second party	Name: IHARA, Hideo	(deceased)
Third party	Name: IHARA, Yoshiko	November 20, 2003
Fourth party	Name: IHARA, Hideyo	November 20, 2003
Fifth party	Name: IHARA, Hidetaka	November 20, 2003
Sixth party	Name: IHARA, Gen-ei	November 20, 2003
Seventh party	Name: IHARA, Chiaki	November 20, 2003

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

Receiving Party (ies):

First party Name: JAPAN SCIENCE AND TECHNOLOGY AGENCY
Address: 4-1-8, Hon-cho, Kawaguchi-shi, Saitama 332-0012 Japan

Second party Name: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE
AND TECHNOLOGY
Address: 1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-8921 Japan

10480942

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

Domestic Representative Name and Address (Enter for the first Receiving Party only)

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP
1250 Connecticut Avenue, N.W., Suite 700
Washington, D.C. 20036
Customer No.: 38834

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Correspondent Name and Address

Telephone: 202-822-1100

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

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Pages Enter the total number of pages of the attached conveyance document: 1

(including any attachments, but not counting cover sheets)

Application Number(s) or Patent Number(s) Additional numbers attached? Yes No

A. Patent Application No.(s)

B. Patent No.(s)

10/480,942 filed December 16, 2003

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: _____

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT)

PCT _____

Enter PCT application number only if

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a U.S. Application Number has not been assigned

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Number of Properties Enter the total number of properties involved: 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41). \$40.00

XX Enclosed

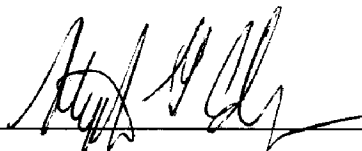
____ Authorized to be charged to Deposit Account No.: 50-2866

Statement and signature

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.

Stephen G. Adrian

Name of Person Signing



Signature

May 12, 2004

Date

32,878

Registration No.

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's Name(s) Address(es))

1. JAPAN SCIENCE AND TECHNOLOGY AGENCY

4-1-8, Hon-cho, Kawaguchi-shi, Saitama 332-0012 Japan

2. NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY

1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-8921 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

SUPERCONDUCTING THIN FILM HAVING COLUMNAR PINNING CENTERS UTILIZING NANO DOTS AND METHOD OF MAKING THE SAME

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

* filed on _____ Serial No. _____

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

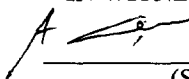
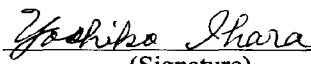
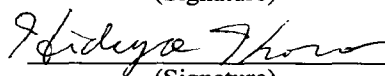
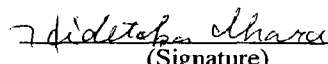
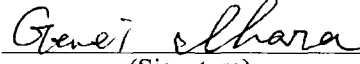
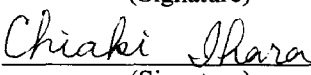
and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

	<u>Ioan Adrian CRISAN</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)
_____	<u>Hideo IHARA(deceased)</u>	_____
(Signature)	(Type Name)	(Date)
	<u>Yoshiko IHARA</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)
	<u>Hideyo IHARA</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)
	<u>Hidetaka IHARA</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)
	<u>Gen-ei IHARA</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)
	<u>Chiaki IHARA</u>	<u>20 November 2003</u>
(Signature)	(Type Name)	(Date)

NO LEGALIZATION REQUIRED