

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Taiji TORIGOE	03/01/2006
Ikuo OKADA	03/01/2006
Katsumi NAMBA	03/01/2006
Kazutaka MORI	03/01/2006
Wei PAN	02/20/2006
Qiang XU	02/20/2006

RECEIVING PARTY DATA

Name:	Mitsubishi Heavy Industries, Ltd.
Street Address:	16-5, Konan 2-chome, Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	108-8215

Name:	Tsinghua University
Street Address:	Haidian district
City:	Beijing
State/Country:	CHINA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11301339

CORRESPONDENCE DATA

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Correspondent Name: Westerman, Hattori, Daniels & Adrian, LL

OP \$40.00 11301339

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PATENT
REEL: 017346 FRAME: 0592

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ATTORNEY DOCKET NUMBER:	053467
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NAME OF SUBMITTER:	Sadao Kinashi
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Total Attachments: 2 source=053467 Assignment#page1.tif source=053467 Assignment#page2.tif
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U.S. ASSIGNMENT

2005-0294/1535-US

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

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
Mitsubishi Heavy Industries, Ltd.

16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215, Japan

Tsinghua University
Haidian district, Beijing, China

(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)

**THERMAL BARRIER COATING MATERIAL, THERMAL BARRIER MEMBER,
 AND MEMBER COATED WITH THERMAL BARRIER
 AND METHOD FOR MANUFACTURING 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 December 13, 2005 Serial No. 11/301,339

(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>Taiji Torigoe</u> (Signature)	<u>Taiji TORIGOE</u> (Type Name)	<u>MAR. - 1. 2006</u> (Date)
<u>Ikuo Okada</u> (Signature)	<u>Ikuo OKADA</u> (Type Name)	<u>MAR. - 1. 2006</u> (Date)
<u>Katsumi Namba</u> (Signature)	<u>Katsumi NAMBA</u> (Type Name)	<u>MAR. - 1. 2006</u> (Date)
<u>Kazutaka Mori</u> (Signature)	<u>Kazutaka MORI</u> (Type Name)	<u>MAR. - 1. 2006</u> (Date)
<u>Wei PAN</u> (Signature)	<u>Wei PAN</u> (Type Name)	<u> </u> (Date)
<u>Qiang XU</u> (Signature)	<u>Qiang XU</u> (Type Name)	<u> </u> (Date)

NO LEGALIZATION REQUIRED

U.S. ASSIGNMENT

2005-0294/153-US

(Insert ASSIGNEE's
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Tsinghua University
Haidian district, Beijing, China

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 and interest to the invention entitled

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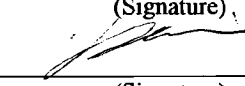
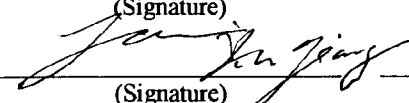
and all Letters Patent of the United States to be obtained therefore on said application or any
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The ASSIGNOR agrees to execute all papers necessary in connection with the application and any
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 expedient.

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)

_____ (Signature)	Taiji TORIGOE _____ (Type Name)	_____ (Date)
_____ (Signature)	Ikuo OKADA _____ (Type Name)	_____ (Date)
_____ (Signature)	Katsumi NAMBA _____ (Type Name)	_____ (Date)
_____ (Signature)	Kazutaka MORI _____ (Type Name)	_____ (Date)
 _____ (Signature)	Wei PAN _____ (Type Name)	Feb. 20 2006 _____ (Date)
 _____ (Signature)	Qiang XU _____ (Type Name)	Feb. 20 2006 _____ (Date)

NO LEGALIZATION REQUIRED

PATENT

RECORDED: 03/22/2006

REEL: 017346 FRAME: 0595