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1. Name of conveying party(ies):

Taiji TORIGOE  
Kazutaka MORI  
Ikuo OKADA  
Sunao AOKI  
Kouji TAKAHASHI  
Minoru OHARA  
Takehiko HIRATA

Hideaki KANEKO

4/29/04

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

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 10/01/2003

2. Name and address of receiving party(ies):

Name: MITSUBISHI HEAVY INDUSTRIES, LTD.  
Address: 16-5, Konan 2-chome, Minato-ku, Tokyo 108-8215, Japan

05-05-2004



102737640

Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

10/478,690

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number: 15-0030  
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9. 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.*

Norman F. Oblon

Name of Person Signing

*Surinder Sachar*

Signature

Apr - 29 2004

Date

Surinder Sachar

Registration No. 34,423

Registration Number: 24,618

Total number of pages including this cover sheet: 3

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**PATENT**  
**REEL: 015283 FRAME: 0437**

# Assignment of Application

Page 1 of 2

WHEREAS, I (WE) Taiji TORIGOE, Kazutaka MORI, Ikuo OKADA, Sunao AOKI, Kouji TAKAHASHI,  
Minoru OHARA and Hideaki KANEKO, their residence address are all Takasago-shi,  
Hyogo-ken, Japan.  
Takehiko HIRATA, his residence address is Yokohama-shi, Kanagawa-ken, Japan

INSERT NAMES  
AND RESIDENCE  
ADDRESS OF  
THE INVENTORS:

\_\_\_\_\_, respectively,  
 have invented certain new and useful improvements in: THERMAL BARRIER COATING MATERIAL, METHOD  
OF PRODUCTION THEREOF, AND GAS TURBINE  
MEMBER AND GAS TURBINE APPLYING SAID THERMAL BARRIER COATING MATERIAL

INSERT TITLE  
OF INVENTION:

for which an application for Letters Patent was executed on October 1, 2003

INSERT DATE IN-  
VENTORS SIGNED  
DECLARATION:

(Application No. 10/478,690, filed December 8, 2003), and

INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE

WHEREAS, MITSUBISHI HEAVY INDUSTRIES, LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at:

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

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

10/01

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: October 1, 2003

Taiji Torigoe  
(Signature of Inventor) Taiji TORIGOE

Date: October 1, 2003

Kazutaka Mori  
(Signature of Inventor) Kazutaka MORI

Date: October 1, 2003

Ikuro Okada  
(Signature of Inventor) Ikuro OKADA

Date: October 1, 2003

S. Aoki  
(Signature of Inventor) Sunao AOKI

Date: October 1, 2003

Kouji Takahashi  
(Signature of Inventor) Kouji TAKAHASHI

Date: October 1, 2003

Minoru Ohara  
(Signature of Inventor) Minoru OHARA

Date: October 1, 2003

Takehiko Hirata  
(Signature of Inventor) Takehiko HIRATA M.O. Oct. 1, 2003

Date: October 1, 2003

Hideaki Kaneko  
(Signature of Inventor) Hideaki KANEKO

**OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.**  
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10/01