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Atty Docket No.: 224855US3/klm



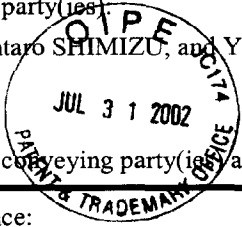
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1-31-92

102179756

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Kazuki MONAKI, Juntaro SHIMIZU, and Yoichiro YAMAGUCHI



7.31.02

2. Name and address of receiving party(ies):
Name: MITSUBISHI HEAVY INDUSTRIES, LTD.
Address: 5-1, Marunouchi 2-chome,
Chiyoda-ku, Tokyo, Japan

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

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: May 30, 2002

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)

10/190,517

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

6. Total applications and patents involved: 1

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

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8. Deposit account number: 15-0030
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C. Irvin McClelland
Name of Person Signing

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Signature

7/31/02
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PATENT
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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Kazuki MONAKA, Juntaro SHIMIZU and Yoichiro YAMAGUCHI

hereby sells, assigns and transfers to

 MITSUBISHI HEAVY INDUSTRIES, LTD.

of 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled METHOD OF SURFACE-TREATING REACTOR MEMBER AND METHOD OF MANUFACTURING REACTOR MEMBER BY USING THE SURFACE TREATMENT METHOD which was executed by the undersigned on the dates indicated below or was filed on and accorded Serial No. (hereinafter called the Application) ;
- (ii) any and all inventions and improvements which are described in the Application ;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent) ;
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

INVENTOR(S) :

(Kazuki MONAKA)

(Juntaro SHIMIZU)

(Yoichiro YAMAGUCHI)

Kazuki Monaka
Juntaro Shimizu
Yoichiro Yamaguchi

DATE

May 30, 2002

May 30, 2002

May 30, 2002