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To the Honorable Assistant Secretary and Commissioner
thereof.

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1. Name of conveying party(ies):

(1) Toshihiko SETOGUCHI (6) Norihisa KOBAYASHI
 (2) Yuichi FUJIOKA (7) Ryoichi NISHIDA
 (3) Yoshihiko TSUCHIYAMA (8) Hitoshi NISHINO
 (4) Akinori YASUTAKE (9) Katsuhide OKIMI
 (5) Matsuhei NODA (10) Akihiro HACHIYA

Additional name(s) of conveying party(ies) attached? NO

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

Name: (1) MITSUBISHI HEAVY INDUSTRIES, LTD. &
 (2) OSAKA GAS CO., LTD.

Street Address: (1) 5-1, Marunouchi 2-chome, Chiyoda-
 ku, Tokyo, Japan & (2) 1-2 Hirano-machi 4-chome, Chuo-
 ku, Osaka-shi, Osaka, Japan

Additional name(s) & address(es) attached? NO

3. Nature of conveyance:

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

Execution Date: April 9, 2003

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)
 10/369,749, filed February 21, 2003

B. Patent No.(s)

Additional numbers attached? NO

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

Name: WENDEROTH, LIND & PONACK, L.L.P.
 Attn: Nils E. Pedersen, Esq.

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, State: DC ZIP: 20006-1021

6. Total number of applications and patents involved: 1

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

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Nils E. Pedersen, Reg. No. 33,145
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To the Honorable Assistant Secretary and Commissioner
or copy(ies) thereof.

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1. Name of conveying party(ies):
- | | |
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| (1) Toshihiko SETOGUCHI | (6) Norihisa KOBAYASHI |
| (2) Yuichi FUJIOKA | (7) Ryoichi NISHIDA |
| (3) Yoshihiko TSUCHIYAMA | (8) Hitoshi NISHINO |
| (4) Akinori YASUTAKE | (9) Katsuhide OKIMI |
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chome, Chuo-ku, Osaka-shi, Osaka, Japan

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B. Patent No.(s)

Additional numbers attached? NO

5. Name and address of party to whom correspondence
concerning document should be mailed:Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Nils E. Pedersen, Esq.

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, State: DC ZIP: 20006-1021

6. Total number of applications and patents involved: 1

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

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8. Deposit account number: 23-0975

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*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.*Nils E. Pedersen, Reg. No. 33,145
Name of Person Signing

Signature

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

(1)Toshihiko Setoguchi; (2)Yuichi Fujioka; (3)Yoshihiko Tsuchiyama;

(4)Akinori Yasutake; (5)Matsuhei Noda; (6)Noriyoshi Kobayashi;

(7)Ryoichi Nishida; (8)Hitoshi Nishino; (9)Katsuhide Okimi;

and (10)Akihiro Hachiya

Insert Name(s)
of Inventor(s)

the undersigned hereby sell(s) and assign(s) to

(1)MITSUBISHI HEAVY INDUSTRIES, LTD.; and (2)OSAKA GAS CO., LTD.

(1):5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

of (2):1-2 Hirano-machi 4-chome, Chuo-ku, Osaka-shi, Osaka, Japan

Insert Name(s)
of Assignee(s)

Address

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

MANUFACTURING METHOD FOR A CARBON NANOMATERIAL, A MANUFACTURING APPARATUS

FOR A CARBON NANOMATERIAL, AND MANUFACTURING FACILITY FOR A CARBON

NANOMATERIAL

for which an application for patent in the United States has been executed by the undersigned on

April 9, 2003

Title of
Invention

Date of Signing
Application

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

200-1047 332 05913210 7/11/03 7/

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>April 9, 2003</u>	Name of Inventor	<u>Toshihiko Setoguchi</u>	(Toshihiko Setoguchi)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Yuichi Fujioka</u>	(Yuichi Fujioka)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Yoshihiko Tsuchiyama</u>	(Yoshihiko Tsuchiyama)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Akinori Yasutake</u>	(Akinori Yasutake)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Matsuhei Noda</u>	(Matsuhei Noda)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Norihisa Kobayashi</u>	(Norihisa Kobayashi)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Ryoichi Nishida</u>	(Ryoichi Nishida)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Hitoshi Nishino</u>	(Hitoshi Nishino)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Katsuhide Okimi</u>	(Katsuhide Okimi)
Date	<u>April 9, 2003</u>	Name of Inventor	<u>Akihiro Hachiya</u>	(Akihiro Hachiya)

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness _____

Witness _____

ACKNOWLEDGMENT

_____ } SS

This _____ day of _____, 19_____, before me
personally came the above-named _____

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

Official Signature

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date _____

Applicant Reference No. _____ Atty. Docket No. _____

Title of Invention _____