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COVER SHEET

U.S. DEPARTMENT OF COMMERCE

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PATENTS ONLY

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3-18-03

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

1. Name of conveying party(ies):

Mitsuaki ECHIGO, Takeshi TABATA,  
Hirokazu SASAKI and Osamu YAMAZAKI

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: March 11, 2003

2. Name and address of receiving party(ies)

Name: OSAKA GAS CO., LTD.

Street Address: 1-2, Hiranomachi 4-chome,  
Chuo-ku, Osaka, Japan

City: \_\_\_\_\_

State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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

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

10,380811

If this document is being filed together with a new application,  
the execution date of the application is: March 11, 2003

A. Patent Application No. (s)

B. Patent No. (s)

Additional numbers attached?  Yes  No

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

Name: Russell D. Orkin

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved: 1

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

- Enclosed with filing fee
- Authorized to be charged to deposit account

8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

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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.

Richard L. Byrne  
Name of Person Signing  
Reg. No. 28,498

Signature

March 18, 2003  
Date

Total number of pages including cover sheet, attachments and document

3

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 014232 FRAME: 0083

**ASSIGNMENT**

WHEREAS, Mitsuaki ECHIGO, Takeshi TABATA, Hirokazu SASAKI  
and Osamu YAMAZAKI

whose post office addresses appear below (hereinafter (collectively) referred to as ASSIGNOR), has (have) invented certain new and useful improvements in an  
METHOD OF ACTIVATING CARBON MONOXIDE REMOVING CATALYST, CARBON MONOXIDE  
REMOVING CATALYST, METHOD OF REMOVING CARBON MONOXIDE AND METHOD OF  
OPERATING FUEL CELL SYSTEM

(hereinafter referred to as THE INVENTION) for which an application for United States Letters Patent was filed on \_\_\_\_\_, Serial Number \_\_\_\_\_;

WHEREAS, OSAKA GAS CO., LTD.

whose post office address is 1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan

(and)

whose post office address is \_\_\_\_\_ (hereinafter (collectively) referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, ASSIGNOR, by these presents do sell, assign and transfer until said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

See following pages for additional assignors

Full Name of First Assignor		Mitsuaki ECHIGO	
Residence Address - Street		c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome	
City		Chuo-ku, Osaka	
State or Country		Japan	
DATE		SIGNATURE	
March 11, 2003		M. Echigo	

## ASSIGNMENT

Page 2

<i>Full Name of 2nd Assignor</i>		Takeshi TABATA	
<i>Residence Address - Street</i>		c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome	
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<i>State or Country</i>		<i>Zip</i> Japan	
<i>DATE</i>		<i>SIGNATURE</i>	
March 11, 2003		T. Tabata	

<i>Full Name of 3rd Assignor</i>		Hirokazu SASAKI	
<i>Residence Address - Street</i>		c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome	
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<i>State or Country</i>		<i>Zip</i> Japan	
<i>DATE</i>		<i>SIGNATURE</i>	
March 11, 2003		H. Sasaki	

<i>Full Name of 4th Assignor</i>		Osamu YAMAZAKI	
<i>Residence Address - Street</i>		c/o OSAKA GAS CO., LTD. 1-2, hiranomachi 4-chome	
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<i>State or Country</i>		<i>Zip</i> Japan	
<i>DATE</i>		<i>SIGNATURE</i>	
March 11, 2003		O. Yamazaki	

<i>Full Name of 5th Assignor</i>			
<i>Residence Address - Street</i>			
<i>City</i>			
<i>State or Country</i>		<i>Zip</i>	
<i>DATE</i>		<i>SIGNATURE</i>	