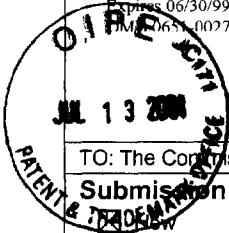


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Name (line 1) Ramesh Gupta Execution Date: Month 06 Day 22 Year 2001

Name (line 2) \_\_\_\_\_

**Second Party**

Name (line 1) \_\_\_\_\_ Execution Date: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

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**Receiving Party**

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Name (line 1) ExxonMobil Research and Engineering Company

Name (line 2) \_\_\_\_\_

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Address (line 2) 1545 Route 22 East

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Area Code and Telephone Number

248-641-1600

Name Linda M. Deschere

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**Application Number(s) or Patent Number(s)**

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**Patent Application Number(s)**

**Patent Number(s)**

09/780,079

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number as not been assigned.

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# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:  
Deposit Account

Enclosed

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

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**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. Charges to deposit account are authorized, as indicated herein.

Linda S. Deschere Reg. No. 34,811



July 10, 2001

Name of Person Signing

Signature

Date

**ASSIGNMENT**  
**INVENTOR or INVENTORS:**

Ramesh Gupta

For good and valuable consideration, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

Whereas the UNDERSIGNED has invented, as joint inventor with Craig S. Gittleman,

**COMBINED WATER GAS SHIFT REACTOR/CARBON DIOXIDE  
ADSORBER FOR USE IN A FUEL CELL SYSTEM**

now therefore:

1) UNDERSIGNED hereby assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED's invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled

**COMBINED WATER GAS SHIFT REACTOR/CARBON DIOXIDE  
ADSORBER FOR USE IN A FUEL CELL SYSTEM**

said application having been filed on the 9th day(s) of February, 2001 and assigned serial number 09/780,079 being further identified as Case Number 8540G-000039 ; and all rights of priority created by said application under provisions of international conventions or treaties.

2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.

3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.

4) UNDERSIGNED agree(s) to perform upon ASSIGNEE's request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.

5) UNDERSIGNED hereby authorize(s) ASSIGNEE to insert in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED's NAME.

Date 6/22/01

Inventor Ramesh Gupta (LS)  
Ramesh Gupta

Witness Margaret M. Pritchett  
Margaret M. Pritchett

Date \_\_\_\_\_

Inventor \_\_\_\_\_ (LS)

Witness \_\_\_\_\_

Date \_\_\_\_\_

Inventor \_\_\_\_\_ (LS)

Witness \_\_\_\_\_

Date \_\_\_\_\_

Inventor \_\_\_\_\_ (LS)

Witness \_\_\_\_\_