



FORM PTO-1595 (modified)

(Rev 6-93)

101671745
RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

3.29.01

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

Gary J. Stiegel
Arun C. Bose
Uthamalingam Balachandran
Stephen E. Dorris
Tae-Hyun Lee

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

Argonne National Laboratory
9700 South Cass Avenue
Argonne, IL 60439

Additional conveying party(ies) NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

4/6, 5/9 and 6/1/00

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

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

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

A. Patent Application Number(s):

09/590,460

B. Patent Number(s):

Additional numbers attached? NO

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

Mark A. Kassel
FOLEY & LARDNER
150 East Gilman Street
Madison, Wisconsin 53703-1481

6. Total number of applications/patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

Check Enclosed

Charge to deposit account

8. Deposit account number: 06-1447

DO NOT USE THIS SPACE

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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.

Mark A. Kassel

March 27, 2001

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

We, Uthamalingam Balachandran of Hinsdale, Stephen E. Dorris of LaGrange Park, and Tae-Hyun Lee of Naperville, all in the State of Illinois, for good and valuable consideration to us in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto THE UNIVERSITY OF CHICAGO, an Illinois corporation, organized under the laws of the State of Illinois, having a place of business at 5801 South Ellis Avenue, Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by us and disclosed in the patent application for the "METHOD OF GENERATING HYDROGEN BY CATALYTIC DECOMPOSITION OF WATER", ANL Case No. ANL-IN-99-015, executed by us on the date hereinafter set forth, and any divisions and continuations thereof and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as we could have done if the application had been in our names, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UNIVERSITY OF CHICAGO, its successors and assigns.

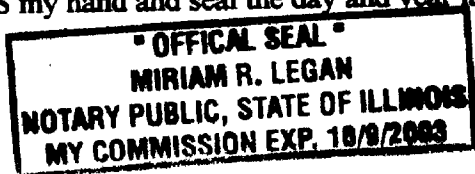
And for the above-named considerations, we hereby agree that we will without additional compensation but without cost to ourselves, promptly communicate to said UNIVERSITY OF CHICAGO, its successors and assigns, any facts known to us respecting said invention whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications for Letters Patent, Inventor's Certificates, Utility Models and Designs and assignments thereof, make all rightful oaths and generally do everything possible to aid said assignee, its successors and assigns, as and when requested by them, in obtaining and enforcing proper Letters Patents, Inventor's Certificate, Utility Model and Design protection for said invention or inventions and improvements, in the United States and in all other countries.

Dated: June 01, 2000 Uthamalingam Balachandran
Dated: 6/1/2000 Stephen E. Dorris
Dated: 6/1/2000 Tae Lee

STATE OF ILLINOIS)
) ss
COUNTY OF DU PAGE)

On this 1st day of June, 2000, before me a Notary Public in and for the County and State aforesaid, appeared the above named persons, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed same instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Miriam R. Legan
Notary Public

COPY

Joint

U.S. DEPARTMENT OF ENERGY
PATENT ASSIGNMENT FORM

WHEREAS, we, Arun C. Bose and Gary J. Stiegel, citizens of the United States residing in Pittsburgh, County of Allegheny, State of Pennsylvania; and in Library, County of Washington, State of Pennsylvania; have invented certain new and useful improvements in METHOD OF GENERATING HYDROGEN BY CATALYTIC DECOMPOSITION OF WATER, for which we are about to file an application for United States Letters Patent identified as S-92,275 and ANL-IN-99-015; and executed by us on _____; and;

WHEREAS, the Government of the United States desires to acquire the entire right, title, and interest in and to the said invention and in and to any Letters Patent wherever they may be issued thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar to us in hand paid by the Government of the United States, and for other good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Government of the United States, as represented by the United States Department of Energy and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent, the same to be held and enjoyed by the said Government of the United States to the full end of the term or terms for which Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.

We agree to make, execute, and deliver unto the Government of the United States, or to the United States Department of Energy, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms, and contents as may be required by the United States Department of Energy or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters Patent thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved, and we agree that we will aid the Government of the United States in every way in protecting the invention as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.

WITNESS:

Arun C. Dunlop

INVENTOR:

Arun C. Bose (SEAL)

DATE 05/09/2000

COPY

WITNESS:

Ann C. Dunlap

INVENTOR:

Sam J. Stugel (SEAL)

DATE 4-26-00

Approved and consented to this _____ day of _____, 19____

ATTEST:

(SEAL)

By _____

Its _____

Accepted for the Benefit of the Government of the United States.

UNITED STATES DEPARTMENT OF ENERGY

WITNESS:

By _____
Assistant General Counsel for Technology
Transfer and Intellectual Property