

FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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

1. Name of conveying party(ies):

Ayusman Sen
Jang Sub KimAdditional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Assignment ☐ Change of Name
- ☐ Other _____

Execution November 1, 2000

2. Name and address of receiving party(ies)

Name: ExxonMobil Research & Engineering Co.Internal Address: Law DepartmentAttn: Phyllis Taylor - Fax No. (908) 730-3649
Telephone No. (908) 730-3677Street Address: 1545 Route 22 EastP.O. Box 900City: Annandale State: NJ ZIP: 08801-0900Additional name(s) & 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)
09/586,091 Filed June 2, 2000

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: ExxonMobil Research & Engineering CompanyInternal Address: Law DepartmentStreet Address: 1545 Route 22 EastP.O. Box 900City: Annandale State: NJ ZIP: 08801-9006. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$40.00

- ☐ Enclosed
- ☒ Authorized to be charged to deposit account

8. Deposit account number:

05-1330

(Attach duplicate 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.

Estelle C. Bakun

Name of Person Signing

Signature

Date

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

2

Mail documents to be recorded with required coversheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

PATENT

REEL: 012632 FRAME: 0732

700012547

09/586,091

JOINT ASSIGNMENT
INVENTOR or INVENTORS:

AYUSMAN SEN

JANG SUB KIM

In consideration for value received, the receipt of which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

1) UNDERSIGNED hereby jointly assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), a corporation of Delaware and The Pennsylvania State Research Foundation, their successors, legal representatives and assigns, herein referred to independently and 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

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said application having been executed on the 19th day(s) of September, 2000, and being further identified as Case Number 09/586,091; 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 11/1/00Inventor Ayusman Sen (LS)
AYUSMAN SENWitness James E. RowDate 11/1/00Inventor Jang Sub Kim (LS)
JANG SUB KIMWitness James E. Row