

MUR
12/27/99

D#

Practitioner's Docket No. U 012429-4

02-01-2000

PATENT



101254778

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Assignments
Commissioner of Patents and Trademarks
Washington, D.C. 20231**

NOTE: "Documents and cover sheets to be recorded should be addressed to Assistant Commissioner for Patents, Box Assignments, Washington, D.C. 20231, unless they are filed together with new applications or with a petition under § 3.81(b)." 37 C.F.R. § 3.27.

ASSIGNMENT (DOCUMENT) COVER SHEET (37 C.F.R. § 3.31)

NOTE: "A cover sheet may not refer to both patents and trademarks." 37 C.F.R. § 3.31(b).

Attached please find an assignment (document) for recordal.

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*
(When using Express Mail, the Express Mail label number is **mandatory**;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

37 C.F.R. § 1.8(a)

37 C.F.R. § 1.10*

with sufficient postage as first class mail.

as "Express Mail Post Office to Addressee"
Mailing Label No. _____ (mandatory)

TRANSMISSION

transmitted by facsimile to the Patent and Trademark Office.

Signature

John Richards

(type or print name of person certifying)

Date: December 21, 1999

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Assignment (Document) Cover Sheet—page 1 of 6) 16-6

01/28/2000 08:00:00 01 FC:581

PATENT

REEL: 010505 FRAME: 0980

**IDENTIFICATION OF APPLICATION(S) AND/OR PATENT(S)
FOR ASSIGNMENT (DOCUMENT) RECORDAL**
(37 C.F.R. § 3.21 and 37 C.F.R. § 3.31(a)(4))

NOTE: See 37 C.F.R. §3.21.

NOTE: § 3.21 does not apply to documents other than assignment. Notice of June 24, 1992 (1140 O.G. 63-72 at 67).

1. This assignment is for the following patent application or issued patent:

NOTE: Do NOT enter both application AND patent number.

National application: SN: 09/411,990 filed on October 4, 1999
Provisional application: filed on _____
International application: PCT
Patent No: Issued: _____
(complete if applicable) which was previously assigned and recorded

Date _____ Reel _____
Frame _____

NOTE: If an assignment of a patent application filed under § 1.53(b) is executed concurrently with, or subsequent to, the execution of the patent application, but before the patent application is filed, it must identify the patent application by its date of execution, name of each inventor, and title of the invention so that there can be no mistake as to the patent application intended. If an assignment of a provisional application under § 1.53(c) is executed before the provisional application is filed, it must identify the provisional application by name of each inventor and title of the invention so that there can be no mistake as to the provisional application intended. 37 C.F.R. § 3.21.

(also complete the following, if applicable)

[] and also for the applications and/or patents
shown on the attached list of FURTHER
APPLICATION(S) and/or PATENT(S) BEING ASSIGNED

Number of pages added _____

NOTE: "Where there is a listing of properties contained within a document, any listing may be copied and attached to the cover sheet to reduce the amount of typing necessary. A notation of this attachment can be made in lieu of entering every property identification number on the cover sheet." Notice of June 24, 1992 (1140 O.G. 63-72 at 67).

**TOTAL NUMBER OF APPLICATIONS AND/OR PATENTS
AND TOTAL FEE**

NOTE: All requests to record documents must be accompanied by the appropriate fee; a fee is required for each application or patent against which the document is recorded as identified in the cover sheet. The recording fee is set in § 1.21(h). 37 C.F.R. §3.41.

2. A. The total number of applications and/or patents identified in this cover sheet is 1

B. The total fee is (37 C.F.R. § 1.21(h)):

1 x \$40.00 = \$ 40.00
Total number of applications
and/or patents

C. Payment of fee is made by:

the attached check for \$ 40.00

Please charge Account _____

the sum of \$ _____.

A duplicate of this cover sheet is attached.

Please charge Account 12-0425 for any fee deficiency or credit to account any overpayment.

NAME OF PARTY(IES) CONVEYING INTEREST

(37 C.F.R. § 3.31(a)(1))

NOTE "The term 'party' as used in this rule [§ 3.31] means the person whose name appears on the documents to be recorded, that person's attorney or registered agent, or a corporate officer where a corporation's name appears on the documents." Notice of June 24, 1992 (1140 O.G. 63-72, at 65); M.P.E.P. § 302.07, 6th ed.

3. The party(ies) conveying interest is (are):

Name 1: Soon Haeng CHO

Name 2: Sang Sup HAN

Name 3: Jong Nam KIM

Name 4: Nettem Venkateswarlu CHOUDARY

Name 5: Prakash KUMAR

Name 6: Sodankoor Garadi Thirumaleshwara BHAT

NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST

(37 C.F.R. § 3.31 (a)(2))

4. The rights are being conveyed to:

Name: KOREA INSTITUTE OF ENERGY RESEARCH

Address: 71-2, Jangdong, Yusungku, Taejon

305 343 KOREA

-AND-

Name: INDIAN PETROCHEMICALS CORP. LTD.

Address: P.O. Petrochemicals District Vadodara

391 346 Gujarat, INDIA

**DESCRIPTION OF INTEREST CONVEYED OR
TRANSACTION RECORDED (37 C.F.R. § 3.31 (a)(3))**

5. The accompanying document intends to accomplish:

an assignment.

a security agreement.

a merger.

(Assignment (Document) Cover Sheet—page 3 of 6)16-6

- a license.
- a change of name.
- a change of address.
- other:

**NAME AND ADDRESS OF PARTY TO WHOM
CORRESPONDENCE SHOULD BE MAILED (37 C.F.R. § 3.31 (a)(5))**

6. Please address correspondence to:

Name: John Richards
 Address: c/o Ladas & Parry
26 West 61st Street
New York, New York 10023
 Telephone No.: (212) 708-1915

**DATE ASSIGNMENT (DOCUMENT) EXECUTED
(37 C.F.R. § 3.31(a)(7))**

7. A. The attached assignment (document) was executed on _____.
Date

OR *If there is more than one conveying party who executed on different dates, indicate the date of execution of the assignment document for each conveying party.*

B. The attached assignment was executed by Soon Haeng CHO
Name
 on November 10, 1999 .
Date

The attached assignment was executed by Sang Sup HAN
Name
 on November 10, 1999 .
Date

The attached assignment was executed by Jong Nam KIM
Name
 on November 10, 1999 .
Date

The attached assignment was executed by Nettem V. CHOUDARY
Name
 on October 27, 1999 .
Date

The attached assignment was executed by Prakash KUMAR
Name
 on October 27, 1999 .
Date

The attached assignment was executed by Sodankoor G.T. BHAT
Name
 on October 27, 1999 .
Date

LANGUAGE OF ASSIGNMENT (DOCUMENT) TO BE RECORDED

NOTE: "The Office will accept and record non-English language documents only if accompanied by an English translation signed by the individual making the translation," 37 C.F.R. § 3.26.

8. The attached document:

is in the English language.

is not in the English language and an English translation signed by the individual making the translation is attached.

ORIGINAL DOCUMENT OR TRUE COPY SUBMITTED

NOTE: See 37 C.F.R. § 3.24.

9. Submitted herewith is:

the original document.

a true copy of the original document, which I certify to be a true copy.

NOTE: "If the original [assignment] document is two-sided or the wrong size, the practitioner can comply with the requirement [set out in 37 C.F.R. § 3.24] by providing a true copy of the original document using only one side of each page on the correct size paper." Notice of June 24, 1992, 1140 O.G. 63-76, at 67.

NOTE: "Certification shall be made by the person submitting a copy of an original document that the document submitted is a true copy of the original. The certification is not required to be in an oath or declaration form." M.P.E.P., 6th ed., § 302.01.

ASSIGNMENT (DOCUMENT) TO RECORD CHANGE OF ADDRESS

(check item, if applicable)

10. Because the purpose of the attached documents is to record a change of address of the assignee, the particulars of the previously recorded assignments for each application and/or patent are shown.

ASSIGNMENT (DOCUMENT) TO RECORD CHANGE OF NAME

(check item, if applicable)

11. Because the purpose of the attached documents is to record a change of name of the assignee, the particulars of the previously recorded assignments for each application and/or patent are shown.

CHANGE OF PATENT MAINTENANCE FEE ADDRESS

(check item, if applicable)

12. [] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent to the Office separately.

**STATEMENT (37 C.F.R. § 3.31(a)(9)) AND
SIGNATURE (37 C.F.R. § 3.31(a)(10))**

13. 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.

NOTE: "The term 'party' as used in this rule [§ 3.31] means the person whose name appears on the documents to be recorded, that person's attorney or registered agent, or a corporate officer where a corporation's name appears on the document." Notice of June 24, 1992, 1140 O.G. 63-76, at 65; M.P.E.P. § 302.07 6th ed.

Date: December 21, 1999

Name of party submitting document

Signature of party submitting document

(complete the following, if the party submitting the document is applicant's attorney)

SIGNATURE OF PRACTITIONER

John Richards
(type or print name of practitioner)

P.O. Address

c/o Ladas & Parry
26 West 61st Street
New York, N.Y. 10023

Reg. No.: 31,053

Tel. No.: (212) 708-1915

Customer No.:

TOTAL NUMBER OF PAGES BEING SUBMITTED

14. The total number of pages being submitted, **including cover sheet attachment(s), and documents** are:

9
Total number of pages submitted

(Assignment (Document) Cover Sheet—page 6 of 6)16-6

ASSIGNMENT (DOCUMENT) COVER SHEET
(ADDED PAGE _____)

**FURTHER APPLICATION(S) AND/OR
PATENTS BEING ASSIGNED**

**DETAILS OF PRIOR
RECORDAL (IF ANY)**

<input type="checkbox"/> In re application: Application No.: Filed: For:	<input type="checkbox"/> International Application PCT/ <input type="checkbox"/> Issued:	Reel _____ Frame _____ Date _____
<input type="checkbox"/> Patent:		

<input type="checkbox"/> In re application: Application No.: Filed: For:	<input type="checkbox"/> International Application PCT/ <input type="checkbox"/> Issued:	Reel _____ Frame _____ Date _____
<input type="checkbox"/> Patent:		

<input type="checkbox"/> In re application: Application No.: Filed: For:	<input type="checkbox"/> International Application PCT/ <input type="checkbox"/> Issued:	Reel _____ Frame _____ Date _____
<input type="checkbox"/> Patent:		

<input type="checkbox"/> In re application: Application No.: Filed: For:	<input type="checkbox"/> International Application PCT/ <input type="checkbox"/> Issued:	Reel _____ Frame _____ Date _____
<input type="checkbox"/> Patent:		

<input type="checkbox"/> In re application: Application No.: Filed: For:	<input type="checkbox"/> International Application PCT/ <input type="checkbox"/> Issued:	Reel _____ Frame _____ Date _____
<input type="checkbox"/> Patent:		

(add additional page for further application(s) and/or patent(s) being assigned)

For: U.S. and/or Foreign Rights
 For: U.S. Application or
 U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

<u>Soon Haeng CHO</u> <i>(type or print name of inventors)</i>	<u>Korea Institute of Energy Research</u> <u>Korean</u> Address Nationality 71-2, Jangdong, Yusungku, Taejon, 305 343, KOREA
-------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------

<u>Sang Sup HAN</u>	<u>Korean Institute of Energy Research</u> <u>Korean</u> 71-2, Jangdong, Yusungku, Taejon, 305 343 KOREA
---------------------	----------------------------------------------------------------------------------------------------------------

<u>Jong Nam KIM</u>	<u>Korean Institute of Energy Research</u> <u>Korean</u> 71-2, Jangdong, Yusungku, Taejon, 305-343 KOREA
---------------------	----------------------------------------------------------------------------------------------------------------

<u>Nettem Venkateswarlu CHOUDARY</u>	<u>Indian Petrochemicals Corp. Ltd.</u> <u>Indian</u> P.O. Petrochemicals, District Vadodara 391 346 Gujarat, INDIA
--------------------------------------	---------------------------------------------------------------------------------------------------------------------------

<u>Prakash KUMAR</u>	<u>Indian Petrochemicals Corp. Ltd.</u> <u>Indian</u> P.O. Petrochemicals, District Vadodara 391 346 Gujarat, INDIA
----------------------	---------------------------------------------------------------------------------------------------------------------------

<u>Sodankoor Garadi Thirumaleshwara BHAT</u>	<u>Indian Petrochemicals Corp. Ltd.</u> <u>Indian</u> P.O. Petrochemicals, District Vadodara, 391 346, Gujarat, INDIA
----------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

hereby sells, assigns and transfers to
ASSIGNEES

<u>Korea Institute of Energy Research</u> <i>(type or print name of ASSIGNEE)</i>	<u>71-2, Jangdong, Yusungku, Taejon</u> Address
<u>Korean</u> Nationality	<u>305 343, KOREA</u>

AND

(Assignment of Invention—Multiple Inventors—page 1 of 3) 16-3.2

Indian Petrochemicals Corp. Ltd.
(type or print name of ASSIGNEE)

P.O. Petrochemicals District Vadodara
Address

Indian
Nationality

391 346, Gujarat, INDIA

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
 an undivided _____ percent (_____ %) interest
for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:
IMPROVED ADSORBENTS, METHOD FOR THE PREPARATION AND METHOD FOR THE
SEPARATION OF UNSATURATED HYDROCARBONS FOR GAS MIXTURE

Name of inventor(s) Soon Haeng CHO; Sang Sup HAN; Jong Nam KIM; Nettem Venkateswarlu
CHOUDARY; Prakash KUMAR; Sodankoor Garadi Thirumaleshwara BHAT.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in (37 C.F.R. § 3.21)

- (a) U.S. patent application executed on even date herewith
(b) U.S. patent application executed on _____
(c) U.S. provisional application naming the above inventor(s) for the above-
entitled invention.
 Express mail label no.: _____
Mailed: _____
 To comply with 37 C.F.R. 3.21 for recordal of this assignment, I, an
ASSIGNOR signing below, hereby authorize and request my attorney to
insert below the filing date and application number when they become
known.
(d) U.S. application no. 09/411,990
filed on October 4, 1999
(e) International application no. PCT/ _____ / _____
(f) U.S. patent no. _____ issued _____
 A change of address to which correspondence is to be sent regarding
patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) and any legal equivalent thereof in a foreign country, including the right to
claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any
continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-
examination thereof.

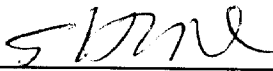





(Assignment of Invention—Multiple Inventors—page 2 of 3) 16-3.2

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

<u>Soon Haeng CHO</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>November 10, 1999</u> date of signing
<u>Sang Sup HAN</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>November 10, 1999</u> date of signing
<u>Jong Nam KIM</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>November 10, 1999</u> date of signing
<u>Nettem V. CHOUDARY</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>October 27, 1999</u> date of signing
<u>Prakash KUMAR</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>October 27, 1999</u> date of signing
<u>Sodankoor G.T. BHAT</u> (type name of Inventor)	<input checked="" type="checkbox"/> <u></u> Signature of INVENTOR	this <input checked="" type="checkbox"/> <u>October 27, 1999</u> date of signing
_____ (type name of Inventor)	_____ Signature of INVENTOR	this _____ date of signing
_____ (type name of Inventor)	_____ Signature of INVENTOR	this _____ date of signing
_____ (type name of Inventor)	_____ Signature of INVENTOR	this _____ date of signing
_____ (type name of Inventor)	_____ Signature of INVENTOR	this _____ date of signing

[] Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.