

09-29-2003

FORM PTO-1595

TRANSMITTAL

Atty. Docket: 3055/8

To the Commissioner of Patents and Trademark

uments or copy thereof.



102560826

1. Name of conveying party(ies):

Takashi INO
Toshiaki OKUHARA
Mohammad ABUL-HAMAYEL
Abdullah AITANI
Abdulgader MAGHRABI



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

Name and address of receiving party(ies):

Name: 1). KING FAHD UNIVERSITY OF PETROLEUM
AND MINERALS

Name: 2). PETROLEUM ENERGY CENTER

Foreign Address: 1). KFUPM Box 5040, Dhahran 31261
SAUDI ARABIA

2). 3-9 Toranomom 4-Chome

Tokyo, 105 JAPAN

Domestic Address:

City: _____ State _____ ZIP _____

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other Correction of Conveying Parties to Receiving
Parties and Execution Dates

Execution Date: March 21, 2001

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: March 21, 2001

A. Patent Application No.(s)
09/883,464

B. Patent Registration No.(s)

Additional numbers attached? Yes No

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

Name: Dennison, Schultz & Dougherty

612 Crystal Square 4

1745 Jefferson Davis Highway

Arlington, Virginia 22202-3417

Telephone No.: (703) 412-1155

Facsimile No.: (703) 412-1161

6. Number of applications and patents involved:
One (1)

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

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number _____

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

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.

David E. Dougherty

Name of Person Signing
Registration No. 19,576

9/24/2003 AMONDAF2 00000034 09883464

01 FC:8021

40.00 DP

Signature

September 23, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 10

BIIT/dam

PATENT
REEL: 014522 FRAME: 0720

10-2-01

10-11-2001



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PATENTS ONLY

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies):
1. King Fahd University of Petroleum and Minerals
2. Petroleum Energy Center
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Takashi Ino
Internal Address: PEC
3-0 Toronomon 4 Chome
Street Address: _____
City: Tokyo State: Japan Zip: 105
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: October 2, 2001

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) 09/883,464
B. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Dr. Halim Hamid Redhwi
Internal Address: Center for Refining and Petrochemicals, KFUPM Box 1823
Street Address: _____
City: Dhahran State: Saudi Arabia Zip: 31261

6. Total number of applications and patents involved:
7. Total fee (37 CFR 3.41).....\$ 40
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number: _____
(Attach duplicate copy of this page if paying by deposit account)

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.
Dr. Halim Hamid Redhwi [Signature] October 2, 2001
Name of Person Signing Signature Date
Total number of pages including cover sheet, attachments, and documents: 7

10/11/2001 DBYRNE 00000224 09883464 40.00 OP

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



PATENT REEL: 014522 FRAME: 0721

Additional Names of Receiving Parties:

Name: Toshiaki Okuhara

Address: PEC, 3-9 Toranomom 4-chome, Tokyo 105, Japan

Name: Mohammad Abul-Hamayel

Address: KFUPM Box 5040, Dhahran 31261, Saudi Arabia

Name: Abdullah Aitani

Address: KFUPM Box 5040, Dhahran 31261, Saudi Arabia

Name: Abdulgader Maghrabi

Address: KFUPM Box 5040, Dhahran 31261, Saudi Arabia



2/7

PATENT

REEL: 014522 FRAME: 0722

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

Whereas, I, **Takashi Ino** of **Tokyo, Japan**, hereafter referred to as applicant, have invented certain new and useful improvements in _____

Fluid Catalytic Cracking Process for Heavy Oil

for which an application for a United States Patent was filed on _____
Application Number _____/_____.

for which an application for a United States Patent was executed on **21th March, 2001** and

Whereas, **King Fahd University of Petroleum & Minerals of Saudi Arabia AND Petroleum Energy Center of Japan** herein referred to "assignees" whose mailing addresses are **KFUPM Box 5040, Dhahran 31261, Saudi Arabia** and **3-9 Toranomon 4-Chome, Tokyo 105, Japan** are desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this **21th** day of **March**, **2001**,
at **Dhahran, Saudi Arabia**

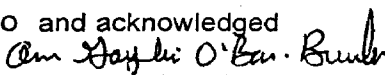
KINGDOM OF SAUDI ARABIA
DISTRICT OF THE CONSULAR
SECTION OF THE CONSULATE
GENERAL OF THE UNITED STATES
OF AMERICA AT DHAHRAN } SS

Consulate of the United States of America
Dhahran, Saudi Arabia



(Signature)

On this day **21th March, 2001**, before me personally appeared **Takashi Ino** and acknowledged the foregoing instrument to be his free act and deed.


**Ann Gaylia
O' Barr-Breedlove
Consul**

Seal

American Consul

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below*.

* Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents and Trademarks, Washington, DC 20231.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

Whereas, I, **Toshiaki Okuhara** of **Tokyo, Japan**, hereafter referred to as applicant, have invented certain new and useful improvements in _____

Fluid Catalytic Cracking Process for Heavy Oil

for which an application for a United States Patent was filed on _____
Application Number _____/_____.

for which an application for a United States Patent was executed on **21th March, 2001** and

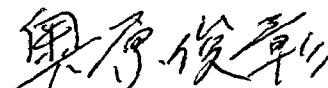
Whereas, **King Fahd University of Petroleum & Minerals of Saudi Arabia AND Petroleum Energy Center of Japan** herein referred to "assignees" whose mailing addresses are **KFUPM Box 5040, Dhahran 31261, Saudi Arabia and 3-9 Toranomom 4-Chome, Tokyo 105, Japan** are desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this **21th** day of **March**, **2001**,
at **Dhahran, Saudi Arabia**

KINGDOM OF SAUDI ARABIA
DISTRICT OF THE CONSULAR
SECTION OF THE CONSUL
GENERAL OF THE UNITED STATES
OF AMERICA AT DHAHARAN } SS

Consulate of United States of America
Dhahran, Saudi Arabia



(Signature)

On this **21th** day of **March**, **2001**. before me personally appeared **Toshiaki Okuhara** and acknowledged the foregoing instrument to be his free act and deed.

Ann Gaylia O' Barr-Breedlove
Ann Gaylia

O' Barr-Breedlove
Consul

Seal

American Consul

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ASSIGNMENT OF APPLICATION

Docket Number (Optional)

Whereas, I, **Mohammad Abul-Hamayel** of **Dhahran, Saudi Arabia**, hereafter referred to as applicant, have invented certain new and useful improvements in _____

Fluid Catalytic Cracking Process for Heavy Oil

for which an application for a United States Patent was filed on _____
Application Number _____/_____

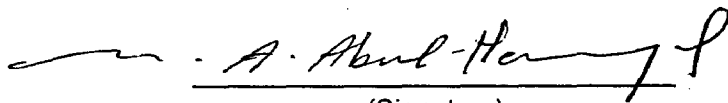
for which an application for a United States Patent was executed on **March 21, 2001**, and

Whereas, **King Fahd University of Petroleum & Minerals of Saudi Arabia AND Petroleum Energy Center of Japan** herein referred to "assignees" whose mailing addresses are **KFUPM Box 5040, Dhahran 31261, Saudi Arabia and 3-9 Toranomom 4-Chome, Tokyo 105, Japan** are desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this **21th** day of **March**, **2001**,
at **Dhahran, Saudi Arabia**

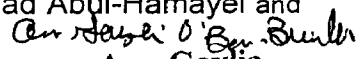
KINGDOM OF SAUDI ARABIA
DISTRICT OF THE CONSULAR
SECTION OF THE CONSULATE
GENERAL OF THE UNITED STATES
OF AMERICA AT DHARRAN } SS



(Signature)

Consulate of the United States of America
Dhahran, Saudi Arabia

On this 21th day of March, 2001. before me personally appeared **Mohammad Abul-Hamayel** and
acknowledged the foregoing instrument to be his free act and deed.


Ann Gaylia
O' Barr-Breedlove
Consul
American Consul

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below*.

* Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents and Trademarks, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

Whereas, I, **Abdullah Aitani** of **Dhahran, Saudi Arabia**, hereafter referred to as applicant, have invented certain new and useful improvements in _____

Fluid Catalytic Cracking Process for Heavy Oil

for which an application for a United States Patent was filed on _____
Application Number _____/_____.

for which an application for a United States Patent was executed on March 21th, 2001, and

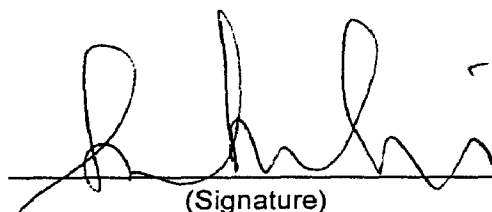
Whereas, King Fahd University of Petroleum & Minerals of Saudi Arabia AND Petroleum Energy Center of Japan herein referred to "assignees" whose mailing addresses are KFUPM Box 5040, Dhahran 31261, Saudi Arabia and 3-9 Toranomom 4-Chome, Tokyo 105, Japan are desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 21th day of March, 2001,
at Dhahran, Saudi Arabia

KINGDOM OF SAUDI ARABIA }
DISTRICT OF THE CONSULAR } SS
SECTION OF THE CONSULATE }
GENERAL OF THE UNITED STATES }
OF AMERICA AT DHAHARAN }

Consulate of the United States of America
Dhahran, Saudi Arabia



(Signature)

On this 21th day of March, 2001, before me personally appeared **Abdullah Aitani** and acknowledged *Ann Gaylia O' Barr-Breedlove*
the foregoing instrument to be his free act and deed.
Ann Gaylia
O' Barr-Breedlove
Consul

Seal

American Consul

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ASSIGNMENT OF APPLICATION

Docket Number (Optional)

Whereas, I, **Abdulgader Maghrabi** of **Dhahran, Saudi Arabia**, hereafter referred to as applicant, have invented certain new and useful improvements in _____

Fluid Catalytic Cracking Process for Heavy Oil

for which an application for a United States Patent was filed on _____

Application Number _____ / _____.

for which an application for a United States Patent was executed on March 21th, 2001, and

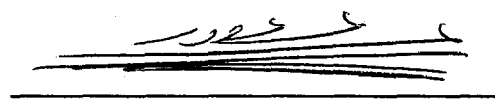
Whereas, King Fahd University of Petroleum & Minerals of Saudi Arabia AND Petroleum Energy Center of Japan herein referred to "assignees" whose mailing addresses are KFUPM Box 5040, Dhahran 31261, Saudi Arabia and 3-9 Toranomom 4-Chome, Tokyo 105, Japan are desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 21th day of March, 2001,
at **Dhahran, Saudi Arabia**

KINGDOM OF SAUDI ARABIA
DISTRICT OF THE CONSULAR
SECTION OF THE CONSULATE
GENERAL OF THE UNITED STATES
OF AMERICA AT DHAHARAN } SS

Consulate of United States of America
Dhahran, Saudi Arabia



(Signature)

On this 21th day of March, 2001. before me personally appeared **Abdulgader Maghrabi** and acknowledged the foregoing instrument to be his free act and deed.

Ann Gaylia O' Barr-Breedlove
Ann Gaylia
O' Barr-Breedlove
Consul

Seal

American Consul

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RECORDED: 09/23/2003

PATENT
REEL: 014522 FRAME: 0727