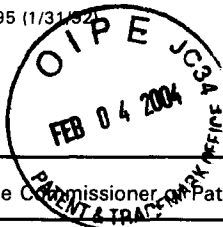


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B/O FORM PTO-1595 (1/31/02)

02-09-2004

U.S. Department of Commerce  
Patent and Trademark Office

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

## 1. Name of Conveying Party:

- 1) Philip RETTGER
- 2) Randall GOLDSTEIN
- 3) Jim ARNOLD
- 4) Yoram BRONICKI
- 5) J. Robert FRIDAY

☐ Additional names of conveying parties attached.

## 2. Name and Address of Receiving Party(ies):

Name: Ormat Industries Ltd.

Street Address: P. O. Box 68

City, State, Zip: Yavne 70650 ISRAEL

☐ Additional name(s) and address(es) attached.

## 3. Nature of Conveyance

- ☒ Assignment                      ☐ Merger  
☐ Security Agreement           ☐ Change of Name  
☐ Other:

Execution Date: 1) January 20, 2004  
 2) January 20, 2004  
 3) January 22, 2004  
 4) January 22, 2004  
 5) January 26, 2004

## 4. (A) Patent Application Number(s):

10/470,331

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

☐ Additional Numbers Attached.

## 4. (B) Patent Number(s):

## 5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: Gary M. Nath  
 Address: NATH & ASSOCIATES  
 1030 15<sup>th</sup> Street, N.W. - 6<sup>th</sup> Floor  
 Washington, D.C. 20005

## 6. Total Number of Applications and Patents Involved:

1

## 7. Total Fee:

(37 CFR 3.41)

\$ 40.00

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

## 8. Deposit Account Number:

14-0112

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## 9. Statement and Signature:

**To the best of my knowledge and belief, the foregoing is true and correct and any attached  
 copy is a true copy of the original document.**

Name of Person Signing

*Gary M. Nath*  
 Gary M. Nath, Reg. No. 26,965  
 Jerald L. Meyer, Reg. No. 41,194  
 Customer No. 20,529

February 4, 2004  
 Date

Attorney Docket No.: 15160-X

Total number of pages comprising cover sheet: 1

**PATENT**  
**REEL: 014949 FRAME: 0777**

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION given to **Philip RETTGER, Randall GOLDSTEIN, Jim ARNOLD, Yoram BRONICKI and J. Robert FRIDAY**, hereinafter referred to as the ASSIGNOR(S), who has/have invented certain new and useful **METHOD OF AND APPARATUS FOR UPGRADING AND GASIFYING HEAVY HYDROCARBON FEEDS**, hereinafter referred to as the invention, for which we have filed an application for Letters Patent in the United States Patent and Trademark Office on July 28, 2003 as Patent Application No. 10/470,331.

WHEREAS, **Ormat Industries Ltd.**, a corporation organized and existing under the laws of the country/state of ISRAEL, whose post office address/business address is P. O. Box 68, Yavne 70650 Israel, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest for the United States and elsewhere throughout the world in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof.

NOW, WITNESSETH THIS that for and in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged, said ASSIGNOR(S) hereby assign(s), sell(s) and transfer(s) to said ASSIGNEE, its assigns and legal representatives, the entire right, title and interest for the United States and elsewhere throughout the world, in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any way arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives, in as ample and as beneficial a manner for all intents and purposes as said ASSIGNOR(S) might or could have held and enjoyed the same had this assignment not been made.

ASSIGNMENT

ALSO, said ASSIGNOR(S) hereby agree(s) to execute all papers necessary to file said applications in the United States and elsewhere throughout the world, and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing any and all Letters Patent thereon.

AND said ASSIGNOR(S) authorize(s) and request(s) the Commissioner of Patents to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

By: Philip B. Rettger  
Inventor's Name: Philip RETTGER  
(first or sole inventor)

Jan. 20, 2004  
Date

By: Randall Goldstein  
Inventor's Name: Randall GOLDSTEIN  
(second inventor)

Jan 20, 2004  
Date

By: Jim Arnold  
Inventor's Name: Jim ARNOLD  
(third inventor)

Jan 22, 2004  
Date

By: Yoram Bronicki  
Inventor's Name: Yoram BRONICKI  
(fourth inventor)

Jan 22, 2004  
Date

By: J. Robert Friday  
Inventor's Name: J. Robert FRIDAY  
(fifth inventor)

Jan 26, 2004  
Date