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To the Honorable Commissioner of Patents and Trademarks. Please record the date of receipt of this document or copy thereof.

1. Name of conveying party(ies):

Harold J. Vinegar; Scott L. Wellington; Eric Pierre de Rouffignac; John Michael Karanikas; Ilya Emil Berchenko; George Leo Stegemeier; Kevin Albert Maher; Etuan Zhang; Thomas David Fowler; Robert Charles Ryan

10/04/01

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

Name: Shell Oil Company

Internal Address: _____

Street Address: P. O. Box 2463

City Houston State Texas ZIP 77252-8463

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

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

3. Nature of Conveyance:

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

Execution Date: September 7, 2001

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

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

A. Patent Application No.(s) 09/841,429 filed April 24, 2001

B. Patent No.(s)

**IN SITU THERMAL PROCESSING OF A COAL FORMATION WITH
A SELECTED OXYGEN CONTENT AND/OR SELECTED O/C RATIO**

Additional numbers attached? ☐ Yes ☒ No

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

Name: Eric B. Meyertons

Internal Address: Conley, Rose & Tayon, P.C.

Street Address: P.O. Box 398

City Austin State TX ZIP 78767-0398

6. Total number of applications and patents involved: 1

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

- ☒ Fee authorization is enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 19-1800
(Attach a 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.

Eric B. Meyertons
Name of Person Signing
Reg. No. 34,876

[Signature]
Signature

9/28/01
Date

Total number of pages comprising cover sheet: 1

ASSIGNMENT

WHEREAS, we, Harold J. Vinegar, Scott Lee Wellington, Eric Pierre de Rouffignac, John Michael Karanikas, Ilya Emil Berchenko, George Leo Stegemeier, Kevin Albert Maher, Etuan Zhang, Thomas David Fowler, and Robert Charles Ryan, have made a certain improvement in **IN SITU THERMAL PROCESSING OF A COAL FORMATION WITH A SELECTED OXYGEN CONTENT AND/OR SELECTED O/C RATIO** for which application papers for United States Patent thereon, identified as U.S. Patent Application Serial No. 09/841,429 filed April 24, 2001, have been executed by us, and,

WHEREAS, SHELL OIL COMPANY, a Delaware Corporation, has equitable rights in and to this invention and desires to confirm such rights and to acquire all right, title and interest in and to said invention;

NOW THEREFORE, for valuable consideration received, we hereby sell, assign, and transfer to said SHELL OIL COMPANY, its successors and assigns, all right, title and interest in and to said invention in the United States and in all other countries throughout the world; including without limitation those in and to the above-named application and any continuation, substitute or division application thereof and the patent or patents which may be issued thereon in the United States and any reissue of any such patent, and those in and to any application or patent or utility model in any and all such other countries of the world, and further including the right to file further applications in all countries throughout the world in the name of SHELL OIL COMPANY or whomsoever that company may nominate, and to claim the priority of the above-named United States application under the International Convention of Paris of 1883.

With respect to any country where for the filing of such an application and/or the transfer of priority rights a separate deed of sale, assignment or transfer is required, we will undertake at the request of SHELL OIL COMPANY to execute such separate deed to SHELL OIL COMPANY or to whomsoever that company may nominate.

And we hereby agree that we will upon request execute any instrument which SHELL OIL COMPANY desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned United States applications or any foreign application on this invention.

And the Commissioner of Patents of the United States is hereby authorized to issue Letters Patent on said above-named application and on any continuation, substitute or division thereof to SHELL OIL COMPANY.

IN TESTIMONY WHEREOF, we have hereunto subscribed our names.

Witnesses:

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