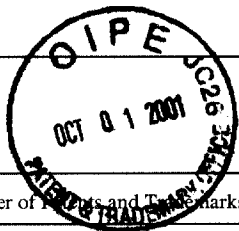


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10-12-2001



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the number _____ thereof.

1. Name of conveying party(ies):

Harold J. Vinegar; Scott Lee Wellington; Eric Pierre de Rouffignac; John Michael Karanikas; James Louis Menotti; John Matthew Coles

10-12

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

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

Name: Shell Oil Company

Internal Address: _____

Street Address: P. O. Box 2463City Houston State Texas ZIP 77252-8463Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

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

Execution Date: September 6, 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) 09/841,494 filed April 24, 2001

B. Patent No.(s)

**IN SITU THERMAL PROCESSING OF A COAL
FORMATION USING A DISTRIBUTED COMBUSTOR**Additional numbers attached? ☐ Yes ☒ No

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

Name: Eric B. MeyertonsInternal Address: Conley, Rose & Tayon, P.C.Street Address: P.O. Box 398City Austin State TX ZIP 78767-03986. Total number of applications and patents involved: 17. 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

Date

Total number of pages comprising cover sheet: 1

OMB No. 0651-011 (exp.4/94)

**PATENT
REEL: 012233 FRAME: 0175**

ASSIGNMENT

WHEREAS, we, Harold J. Vinegar, Scott Lee Wellington, Eric Pierre de Rouffignac, John Michael Karanikas, James Louis Menotti, and John Matthew Coles, have made a certain improvement in **IN SITU THERMAL PROCESSING OF A COAL FORMATION USING A DISTRIBUTED COMBUSTOR** for which application papers for United States Patent thereon, identified as U.S. Patent Application Serial No. 09/841,494 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:

Barbara FisherHarold J. Vinegar
Harold J. VinegarSandra D. Mulla9/6/01
DateMark D. D. D. D.Scott Lee Wellington
Scott Lee WellingtonFred B. Carl9-6-01
DateBarbara FisherEric Pierre de Rouffignac
Eric Pierre de RouffignacMark D. D. D. D.9/06/01
DateMark D. D. D. D.John Michael Karanikas
John Michael KaranikasFred B. CarlSeptember 6th, 2001
DateMark D. D. D. D.James Louis Menotti
James Louis MenottiFred B. Carl9-6-01
Date

Witnesses:

Melba D. L. D. du

John Matthew Coles
John Matthew Coles

Fred S. Carly

9-6-01
Date