

03-29-2004

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

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

1. Name of conveying party(ies): FRED D. LANG

3-24-04

2. Name and address of receiving party(ies) Name: EXERGETIC SYSTEMS, LLC

Internal Address:

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

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Street Address: 12 San Marino Drive

City: San Rafael State: CA Zip: 94901

Execution Date: 3/24/2004

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

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) 09/971,527 Filed: 10/05/2001

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: FRED D. LANG

Internal Address:

Street Address: 12 SAN MARINO DRIVE

City: SAN RAFAEL State: CA Zip: 94901

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:

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9. Signature.

03/26/2004 MGETACHE 00000066 09971527

01 FC:8021 FRED D. LANG, pro se Applicant Name of Person Signing

Signature

March 24, 2004 Date

Total number of pages including cover sheet, attachments, and documents: 7 See Cert. of Mailing

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

PATENT REEL: 015126 FRAME: 0167

A S S I G N M E N T O F P A T E N T

U.S. Patent Application Title:

METHOD AND APPARATUS FOR ANALYZING COAL CONTAINING
CARBON DIOXIDE PRODUCING MINERAL MATTER AS EFFECTING
INPUT/LOSS PERFORMANCE MONITORING OF A POWER PLANT

Application No.: 09/971,527

Application Filed: October 5, 2001

WHEREAS, I, Fred D.Lang, resident of the city of San Rafael, State of California, have invented a new and useful invention relating to a fossil-fired thermal system such as a power plant or steam generator, and, more particularly, to a method for determining such a system's fuel chemistry, heating value, boiler efficiency, fuel energy flow, L Factor, F_c Factor, system heat rate and related parameters when the fuel to such a system has significant amounts of carbon dioxide producing inorganic material for which a Letters Patent of the United States has been applied for, which application I own, the said invention being fully described and identified by the specification and drawings in said application;

WHEREAS, Exergetic Systems, LLC, a California Limited Liability Corporation, is desirous of acquiring all of the rights, title, and interest to said invention and the said Letters Patent thereon;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) to me in hand paid, and for other good and valuable consideration, I, the above-named inventor, have sold, assigned, and transferred, and hereby sell, assign, and transfer unto said Exergetic Systems, LLC, my entire right, title, and interest throughout the world in and to

said invention; and in and to each and every improvement thereon; and in and to each and every Letters Patent of the United States and foreign countries that may be granted or has issued on said invention and/or improvements; including each and every Letters Patent granted or issued upon any application which is a division of an application on said invention and/or improvements; and in and to each and every reissue and extension of said Letters Patent, including the subject matter of any and all claims which may be obtained in every such patent;

THE SAME TO BE HELD AND ENJOYED by said Exergetic Systems, LLC, its successors, assigns, or other legal representatives, for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent shall or may be granted, issued, reissued, or extended, as fully and completely as the same might or could have been held and enjoyed by me had this assignment not been made;

AND I HEREBY covenant and agree that I will, at any time upon request, execute and deliver any and all instruments that may be necessary or desirable to file or record in respect to said invention and/or improvements and/or Letters Patent to vest the entire right, title, and interest in and to the same in said Exergetic Systems, LLC, its successors, assigns, and other legal representatives, and if said Exergetic Systems, LLC, its successors or assigns, desires to secure Letters Patent of any foreign country on said invention and/or improvements, or to secure a reissue of any Letters Patent thereon, or to file a divisional application thereon, or a disclaimer of supplemental oath relating thereto, or to file a preliminary statement of any interference proceeding involving any application for Letters Patent on said invention and/or improvements thereon or involving Letters Patent granting

thereon, I will, upon request, sign all papers, make all rightful oaths, and do all lawful acts requisite for the application for such patent, reissue or extension, and the procuring thereof, and for the filing of any such divisional application and the procuring of a patent thereon, and for the filing of any such disclaimer, supplemental oath, or preliminary statement, without further compensation, but at the expense of my said assignee, Exergetic Systems, LLC, its successors, assigns, and other legal representatives;

AND THE COMMISSIONER OF PATENTS AND TRADEMARKS is hereby authorized and requested to issue the United States Letters Patent on my said invention unto my said assigns, and other legal representatives, in accordance with this Assignment.

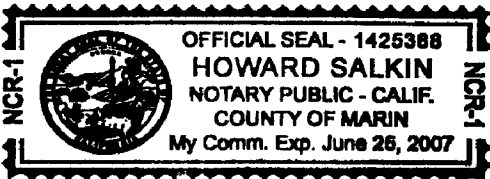
IN WITNESS WHEREOF, I, Fred D. Lang, the above-named inventor and owner of Application 09/971,527 have hereunto subscribed and signed my name: *Fred D. Lang* on this 24 day of March, 2004.

ACKNOWLEDGEMENT

State of California)
County of Marin) ss:
)

On this 24th day of March, 2004 personally appeared before me FRED D. LANG to me known (~~or proven to be~~), and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Howard Salkin
Notary Public



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