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Correspondent Name and Address

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4

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Patent Application Number(s)

09492516

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

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1

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PATRICIA L. ADES, REG. NO. 44,496

Name of Person Signing

Signature

Date

4-25-00

A S S I G N M E N T

In consideration of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to IOWA STATE UNIVERSITY RESEARCH FOUNDATION, an Iowa non-profit corporation, having an address of 310 Lab of Mechanics, Ames, Iowa 50011, its successors and assigns the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, Serial No. 09/492,516, filed in the United States Patent and Trademark Office on the 27th day of January, 2000, entitled CORE-IN-SHELL SORBENT FOR HOT COAL GAS DESULFURIZATION, and in said application and any and all other applications for United States Letters Patent, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent, applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said IOWA STATE UNIVERSITY RESEARCH FOUNDATION.

For said considerations the undersigned hereby agree, upon the request, and at the expense of said assignee, its successors and assigns, to execute any and all divisional continuation and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent

that may be granted upon said application, and for the said considerations the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent of the United States and vest all rights therein hereby conveying in the said assignee, its successors and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

And for said considerations the undersigned hereby assign to said assignee, its successors and assigns, the entire right, title and interest in said invention or improvements for any and all foreign countries and agree upon the request of assignee, its successors and assigns to execute any and all documents that undersigned shall be requested to execute in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to vest title in said foreign applications and patents in assignee.

The attorneys of record are hereby authorized to insert the serial number and the filing date in the above blank spaces when received from the Patent Office.

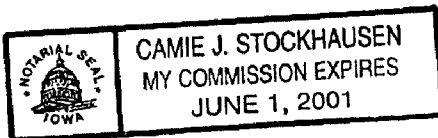
Thomas D. Wheelock

THOMAS D. WHEELOCK

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 2nd day of February, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared THOMAS D. WHEELOCK, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.



Camie J. Stockhausen
Notary Public

Commission Expires 6/1/2001

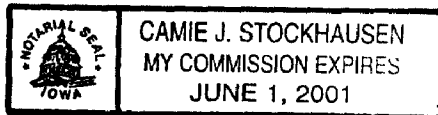
Tetteh Akiti
TETTEH T. AKITI, JR.

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 2nd day of February, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared TETTEH T. AKITI, JR., to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

Camie J. Stockhausen
Notary Public



Commission Expires 6/1/2001