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HEET

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

<p>1. Name of conveying party(ies):</p> <p>Ronald E. Gerhan</p> <p>Additional name(s) of conveying party(ies) attached? No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: UCAR Carbon Company, Inc.</p> <p>Street Address: 12900 Snow Road</p> <p>City: Parma ST: OH ZIP 44130</p> <p>Additional name(s) & address(es) attached? No</p>
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3. Nature of conveyance:

Assignment

Execution Date: October 22, 2004

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

A. Patent Application No.(s): 10/914,726

B. Patent No.(s):

Additional numbers attached? Yes No

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GPR/FINANCE

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

Name: WADDEY & PATTERSON

Internal Address: BANK OF AMERICA PLAZA
SUITE 2020

Street Address: 414 UNION STREET

City: NASHVILLE State: TN Zip: 37219

Customer No. 23456

6. Total number of applications and patents involved: 1

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

The fee is authorized to be charged to deposit account.

8. Deposit account number:

21-0010

(Attach 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.

James R. Cartiglia, Reg. No. 30,738

Name of Person Signing _____ Signature _____ Date 11/3/04

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents, Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

11/09/2004 8TOM11 00000057 210010 10914726
01 FC:8021 40.00 BA

PATENT
REEL: 015960 FRAME: 0424

ASSIGNMENT

In consideration of the payment of one (\$1.00) dollar, and for other good and valuable consideration, the receipt of which is hereby acknowledged, Ronald E. Gerhan ("Assignor") assigns to UCAR Carbon Company, Inc. of Wilmington, DE ("Assignee") his entire right, title, and interest in and to an invention entitled "DIGITAL ELECTRODE OBSERVATION" (the "Invention"), and in any and all patents, reissue patents, certificates of inventorship, design registrations, utility models, and the like, that may be granted in the U.S. or in any foreign country with respect to the Invention and improvements thereto, and in any application, including continuations, continuations-in-part, or divisions, that may be filed with respect to the Invention or improvements thereto, including pending U.S. Patent Application Serial Number 10/914,726, filed August 9, 2004.

Assignor will, without additional charge to Assignee but at Assignee's expense, cooperate with and assist Assignee such that Assignee may realize and fully enjoy all the rights assigned hereunder, including the preparation and execution of all papers needed by Assignee, and providing such information and assistance as may reasonably be required by Assignee in any administrative or legal proceeding to obtain or protect such rights.

Assignor represents and warrants that he has not publicly used or disclosed the Invention, and that he has not previously sold or offered to sell the Invention.

Assignor represents and warrants that he has not transferred, licensed, and/or assigned any interest in the Invention to anyone other than Assignee, and that he has not entered into any contract, assignment, or license conveying any right granted to Assignee hereunder, or that would otherwise conflict with this Assignment.

This Assignment and each of its terms shall be binding on Assignor, his representatives, heirs and assigns, and shall inure to the benefit of Assignee, its successors, and assigns.

Ronald E. Gerhan
Ronald E. Gerhan

10/22/04
Date

STATE OF Ohio
COUNTY OF Cuyahoga

Before me, Jane Kelly Edler a Notary Public of the state and county aforesaid, personally appeared Ronald E. Gerhan, with whom I am personally acquainted, or proved to me on the basis of satisfactory evidence, and who upon oath, acknowledged himself to be the within named Assignor, and that he executed the foregoing instrument for the purposes therein contained.

This 22 day of October, 2004.

Jane Kelly Edler
Notary Public

My commission expires: February 4, 2008

Jane Kelly Edler
Notary Public
State of Ohio
My Comm. Exp. 2-4-2008