



06-06-2001

RECORDATION F
PATEI



101739351

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

5-3001

Please record the attached original documents or copies thereof.

1. Name of conveying party(ies): **THOMAS MALLOUK; BENNY C. CHAN; ERIK REDDINGTON; ANTHONY SAPIENZA and GUOYING CHEN**

2. Name and address of receiving party(ies):
**THE PENN STATE RESEARCH FOUNDATION
c/o INTELLECTUAL PROPERTY OFFICE
113 TECHNOLOGY CENTER
UNIVERSITY PARK, PENNSYLVANIA 16802**

3. Nature of conveyance:
XXXXX Assignment _____ Merger
_____ Security Agreement _____ Change of Name
_____ Other: _____

Execution Date: **Aug. 10, 1999; Aug. 10, 1999, Jul. 29, 1999, Aug. 2, 1999, and Aug. 10, 1999, respectively.**

4. Application number(s) or application date(s):
If this document is being filed together with a new application, the execution date of the application is: _____

| | |
|----------------------------------|----------------------------|
| A. <u>Application/Patent No.</u> | B. <u>Application Date</u> |
| 09/326,206 | June 4, 1999 |

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

Paul D. Greeley, Esq.
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682 U.S.A.

6. Total No. of applications and patents involved: 1.

7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.
XXXXX Enclosed
_____ Authorized to be charged to deposit account.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

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.

Paul D. Greeley
Name of Person Signing

Paul D. Greeley
Signature

5/25/01
Date

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

PATENT
REEL: 011852 FRAME: 0032

06/01/2001 14:00:00 00000026 09326206 40.00 DP 03 FC:581



U. S. Serial No. _____

ASSIGNMENT

FOR VALUE RECEIVED, WE, THOMAS MALLOUK, BENNY C. CHAN, ERIK REDDINGTON and ANTHONY SAPIENZA, hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

"ELECTROCATALYST COMPOSITIONS"

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this _____ day of _____, 1999.

Witness: _____
Signed at University Park, PA,

Thomas Mallok

THOMAS MALLOUK
this 10th day of August, 1999.

Witness: _____
Signed at University Park PA

Benny C. Chan

BENNY C. CHAN
this 10th day of August, 1999.

Witness: _____
Signed at _____,

ERIK REDDINGTON
this _____ day of _____, 1999.

Witness: _____
Signed at University Park, PA,

ANTHONY SAPIENZA
this 10th day of August, 1999.

Witness: _____

Guoying Chen

GUOYING CHEN

ASSIGNMENT

FOR VALUE RECEIVED, WE, THOMAS MALLOUK, BENNY C. CHAN, ERIK REDDINGTON and ANTHONY SAPIENZA, hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

"ELECTROCATALYST COMPOSITIONS"

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this _____ day of _____, 1999.

Witness: _____
THOMAS MALLOUK

Signed at _____, this _____ day of _____, 1999.

Witness: _____
BENNY C. CHAN

Signed at _____, this _____ day of _____, 1999.

Witness: Kiri Redington _____
ERIK REDDINGTON

Signed at Webster, MA, this 29th day of July, 1999.

Witness: _____
ANTHONY SAPIENZA

ASSIGNMENT

FOR VALUE RECEIVED, WE, THOMAS MALLOUK, BENNY C. CHAN, ERIK REDDINGTON and ANTHONY SAPIENZA, hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

"ELECTROCATALYST COMPOSITIONS"

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this _____ day of _____, 1999.

Witness: _____
THOMAS MALLOUK

Signed at _____, this _____ day of _____, 1999.

Witness: _____
BENNY C. CHAN

Signed at _____, this _____ day of _____, 1999.

Witness: _____
ERIK REDDINGTON

Signed at West Chester, Pennsylvania, this 2nd day of August, 1999.

Witness: Joanne Sapienza _____
ANTHONY SAPIENZA