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Docket No.: 41890-01714

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
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9-24-04

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**NANOCHEM RESEARCH LLC**

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

Name: **Superior Micropowders LLC**Address: **3740 Hawkins NE**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherCity: **Albuquerque** State/Prov.: **NM**Country: **USA** ZIP: **87109**Execution Date: **May 20, 1998**

Additional name(s) &amp; address(es)

☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

Filed With Application

Additional numbers

☐ Yes ☒ No

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

Name: **Heath J. Briggs**Registration No. **54,919**Address: **Marsh Fischmann & Breyfogle LLP****3151 South Vaughn Way****Suite 411**City: **Aurora** State/Prov.: **CO**Country: **USA** ZIP: **80014**

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ **40.00**☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

**50-1419**

(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.

Heath J. Briggs

Name of Person Signing

10/01/2004 DBYRNE 00000050 10949601

Signature

Date

7

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Mail documents to be recorded with required cover sheet information to:

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PATENT

REEL: 015831 FRAME: 0636

## ASSIGNMENT

WHEREAS, Nanochem Research LLC, a New Mexico limited liability company, having a place of business at 3740 Hawkins NE, Albuquerque, New Mexico 87109, is the owner of certain inventions and of United States Patent Applications and International Patent Applications (filed with the U.S. Receiving Office pursuant to the Patent Cooperation Treaty) relating to said inventions, which United States Patent Applications and International Patent Application are listed in Schedule A attached hereto; and

WHEREAS, Superior MicroPowders LLC, a New Mexico limited liability company, having a place of business at 3740 Hawkins NE, Albuquerque, New Mexico 87109, is desirous of acquiring any and all right, title and interest of Nanochem Research LLC in and to the aforementioned inventions and patent applications;

NOW THEREFORE, be it known that for certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, Nanochem Research LLC does sell, assign and transfer to Superior MicroPowders LLC, its successors, legal representatives and assigns, any and all rights of Nanochem Research LLC in and to any and all inventions, patents and patent applications in the United States and any and all other countries, including the United States Patent Applications and International Patent Applications listed in Schedule A, and including all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty and all applications for extension filed or to be filed for any of the inventions, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for any and all inventions in the United States or any other country.

The United States Commissioner of Patents is hereby authorized and requested to issue Letters Patent solely in accordance with the terms of this Assignment to Superior MicroPowders LLC, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the day indicated hereunder.

NANOCHEM RESEARCH LLC

SUPERIOR MICROPOWDERS LLC

By: 

Michael D. McIntosh  
Manager

Date: May 26, 99

By: 

Dana L. Hankey  
President and Chief Executive Officer

Date: May 26, 1999

STATE OF COLORADO )

COUNTY OF Arapahoe ) ss.

Before me, a Notary Public in and for said County and State, personally appeared Michael D. McIntosh, who acknowledged himself to be the Manager of Nanochem Research LLC and that he as such Manager, being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed, by signing the name of the corporation by himself as Manager.

Given under my hand and seal of office this 26 day of May, 1999.

  
Notary Public

My Commission Expires: 9-22-99

STATE OF COLORADO                    )  
  ) ss.  
COUNTY OF Arapahoe            )

Before me, a Notary Public in and for said County and State, personally appeared Dana L. Hankey, who acknowledged himself to be the President and Chief Executive Officer of Superior MicroPowders LLC and that he as such President and Chief Executive Officer, being authorized to do so, executed the foregoing instrument for the purposes and considerations therein expressed, by signing the name of the corporation by himself as Manager.

Given under my hand and seal of office this 26 day of May, 1999.

Lisa R. Olivera  
Notary Public

My Commission Expires: 9-22-99

**SCHEDULE A**  
**to ASSIGNMENT**  
**from Nanochem Research LLC to Superior MicroPowders LLC**

**U.S. PATENT APPLICATIONS**

<b>SERIAL NO.</b>	<b>FILING DATE</b>	<b>TITLE</b>
60/118,038	February 1, 1999	"DIRECT-WRITE DEPOSITION OF PHOSPHOR POWDERS"
60/098,174	August 26, 1998	"AEROSOL METHOD AND APPARATUS FOR MAKING PARTICULATE PRODUCTS"
09/141,387	August 27, 1998	"FINE POWDERS FOR USE IN PRIMARY AND SECONDARY BATTERIES"
09/141,394	August 27, 1998	"GLASS POWDERS, METHODS FOR PRODUCING GLASS POWDERS AND DEVICES FABRICATED FROM SAME"
09/141,397	August 27, 1998	"METAL-CARBON COMPOSITE POWDERS, METHODS FOR PRODUCING POWDERS AND DEVICES FABRICATED FROM SAME"
09/141,393	August 27, 1998	"PHOTOLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/141,386	August 27, 1998	"X-RAY PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/141,405	August 27, 1998	"CATHODOLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/140,525	August 27, 1998	"ELECTROLUMINESCENT PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/028,029	February 24, 1998	"NARROW SIZE DISTRIBUTION POWDERS AND METHODS FOR PRODUCING SAME"
09/030,057	February 24, 1998	"AEROSOL METHOD AND APPARATUS, PARTICULATE PRODUCTS, AND ELECTRONIC DEVICES MADE THEREFROM"
09/028,678	February 24, 1998	"NICKEL POWDERS, METHODS FOR PRODUCING POWDERS AND DEVICES FABRICATED FROM SAME"
09/028,901	February 24, 1998	"GOLD POWDERS, METHODS FOR PRODUCING POWDERS AND DEVICES FABRICATED FROM SAME"
09/030,051	February 24, 1998	"COPPER POWDERS, METHODS FOR PRODUCING POWDERS AND DEVICES FABRICATED FROM SAME"

SERIAL NO.	FILING DATE	TITLE
09/028,034	February 24, 1998	"PLATINUM POWDERS, METHODS FOR PRODUCING POWDERS AND DEVICES FABRICATED FROM SAME"
09/030,060	February 24, 1998	"SULFUR-CONTAINING PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/028,603	February 24, 1998	"OXYGEN-CONTAINING PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
09/030,054	February 24, 1998	"PHARMACEUTICAL COMPOSITIONS AND METHODS FOR MAKING SAME"
09/028,628	February 24, 1998	"CHEMICAL-MECHANICAL PLANARIZATION SLURRIES AND POWDERS AND METHODS FOR USING SAME"
09/028,277	February 24, 1998	"SILVER-CONTAINING PARTICLES, METHOD AND APPARATUS OF MANUFACTURE, SILVER-CONTAINING DEVICES MADE THEREFROM"
09/028,751	February 24, 1998	"PALLADIUM-CONTAINING PARTICLES, METHOD AND APPARATUS OF MANUFACTURE, PALLADIUM-CONTAINING DEVICES MADE THEREFROM"
60/038,263	February 24, 1997	"NARROW SIZE DISTRIBUTION POWDERS AND METHODS FOR PRODUCING SAME"
60/039,450	February 24, 1997	"AEROSOL METHOD FOR PREPARING PARTICULATE MATERIAL AND APPARATUS FOR USE THEREIN"
60/038,258	February 24, 1997	"METAL POWDERS AND METHODS FOR PRODUCING SAME"
60/038,262	February 24, 1997	"PHOSPHOR POWDERS AND METHOD FOR MAKING SAME"
60/038,261	February 24, 1997	"PHARMACEUTICAL COMPOSITIONS AND METHODS FOR MAKING SAME"

## INTERNATIONAL PATENT APPLICATIONS

SERIAL NO.	FILING DATE	TITLE
PCT/US98/03530	February 24, 1998	"AEROSOL METHOD AND APPARATUS, PARTICULATE PRODUCTS, AND ELECTRONIC DEVICES MADE THEREFROM"
PCT/US98/03621	February 24, 1998	"AEROSOL METHOD AND APPARATUS FOR MAKING PARTICULATE PRODUCTS"
PCT/US98/03550	February 24, 1998	"SULFUR-CONTAINING PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
PCT/US98/03566	February 24, 1998	"OXYGEN-CONTAINING PHOSPHOR POWDERS, METHODS FOR MAKING PHOSPHOR POWDERS AND DEVICES INCORPORATING SAME"
PCT/US99/03970	February 24, 1999	"AEROSOL METHOD AND APPARATUS FOR MAKING PARTICULATE PRODUCTS"