

PATENT APPLICATION  
Attorney's Do. No. 1941-89

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party(ies) conveying an interest:
  - (1) Jerome C. Birnbaum
  - (2) Glen E. Fryxell
  - (3) Xiaohong Shari Li
  - (4) Christopher A. Coyle
  - (5) Glen C. Dunham
  - (6) Suresh Baskaran
  - (7) Ralph E. Williford
2. Name and address of party(ies) receiving an interest: BATTELLE MEMORIAL INSTITUTE  
902 Battelle Boulevard  
P.O. Box 999  
Richland, WA 99352
3. Description of the interest conveyed: ☒ Assignment
  - (1) February 23, 2004
  - (2) February 25, 2004
  - (3) February 23, 2004
  - (4) February 24, 2004
  - (5) February 25, 2004
  - (6) March 2, 2004
  - (7) February 23, 2004
4. Application number(s) or patent number(s). Additional sheet attached? No
  - A. Patent Application Serial No.: 10/489,924
  - B. Patent No.
5. Name and address of party to whom correspondence concerning document should be mailed:  
Julie L. Reed  
MARGER JOHNSON & McCOLLOM, P.C.  
1030 S.W. Morrison Street  
Portland, Oregon 97205  
Telephone: (503) 222-3613
6. Number of applications and patents involved: ONE

CP \$40.00 10489924

7. PTO Form 2038 authorizing credit card payment (\$40) is enclosed.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
9. 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.

Dated: April 23, 2004

Respectfully submitted,  
MARGER JOHNSON & McCOLLOM, P.C.

*Julie L. Reed*

MARGER JOHNSON & McCOLLOM, P.C.  
1030 SW Morrison Street  
Portland, OR 97205  
(503) 222-3613

Total number of pages comprising  
cover sheet and attached assignment 7

I hereby certify that this correspondence  
is being transmitted to the U.S. Patent and  
Trademark Office via facsimile number  
703-306-5995, on April 23, 2004.

Signature

*Judy Wigmore*  
Judy Wigmore

Attorney's Do. No. 1941-89

ASSIGNMENT**Assignor:** Jerome C. Birnbaum**Address:** 103 Center Blvd.  
Richland, WA 99352**Assignor:** Glen E. Fryxell**Address:** 8907 W. Entiat Avenue  
Kennewick, WA 99336**Assignor:** Shari Li Xiaohong*Xiaohong Shari Li XL 2/24/04*  
**Address:** 2884 Troon Court  
Richland, WA 99353**Assignor:** Christopher A. Coyle**Address:** 8307 Quatsino Drive  
Pasco, WA 99301**Assignor:** Glen C. Dunham**Address:** ~~902 S. Huntington Place~~ 30107 Road 835  
Kennewick, WA 99336 8**Assignor:** Suresh Baskaran**Address:** ~~1002 N. Pittsburgh~~ 203 Kristen Lane  
Kennewick, WA ~~99336~~ 99338 873 March 02, 2004**Assignor:** Ralph E. Williford**Address:** 4907 W 24<sup>th</sup> Place  
Kennewick, WA 99338**Assignee:** Battelle Memorial Institute**Address:** 902 Battelle Blvd.  
P.O. Box 999  
Richland, WA 99352**Title of  
Invention:** METHOD FOR PRODUCING HIGH PURITY LOW DIELECTRIC  
CONSTANT CERAMIC AND HYBRID CERAMIC FILMS**PATENT****REEL: 014557 FRAME: 0515**

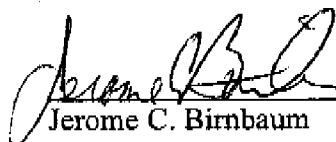
International Application No.: PCT/US01/28704

International Filing Date: 14 September 2001

U.S. Patent Application Filing Date: Herewith


For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee, or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

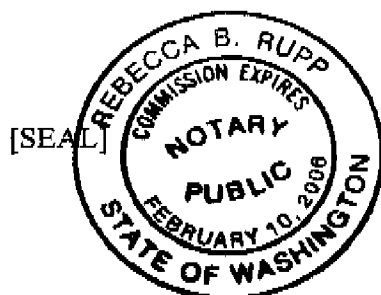
Executed at Richland, Washington, this 23  
day of February, 2004.

  
Jerome C. Birnbaum  
Assignor

STATE OF Washington )  
County of Benton ) ss.

Before me this 23 day of February, 2004, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

  
Notary Public for  
My commission expires:

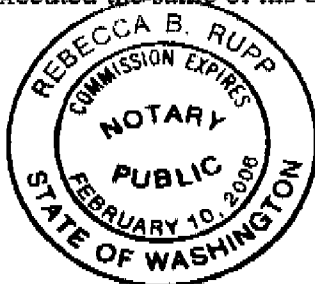


\*\*\*\*\*  
 Executed at Richland, Washington, this 25  
 day of February, 2004.

Glen E. Fryxell  
 Assignor

STATE OF Washington )  
 ) ss.  
 County of Benton )

Before me this 25 day of February, 2004, personally  
 appeared the above-named individual, to me known to be the person who is described  
 in and who executed the foregoing assignment instrument and acknowledged to me  
 that he executed the same of his own free will for the purpose therein expressed.



[SEAL]

Rebecca B. Rupp  
 Notary Public for  
 My commission expires:

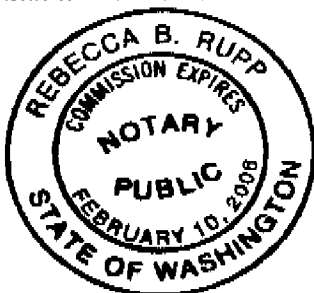
\*\*\*\*\*

Executed at Richland, Washington, this 23  
 day of February, 2004.

Shari Li Xiaohong 2/23/04  
 Assignor Xiaohong shari Li

STATE OF Washington )  
 ) ss.  
 County of Benton )

Before me this 23 day of February, 2004, personally  
 appeared the above-named individual, to me known to be the person who is described  
 in and who executed the foregoing assignment instrument and acknowledged to me  
 that he executed the same of his own free will for the purpose therein expressed.



Rebecca B. Rupp  
 Notary Public for  
 My commission expires:

[SEAL]

Executed at Richland, Washington, this 24  
day of February, 2004.

Christopher A. Coyle  
Christopher A. Coyle  
Assignor

STATE OF Washington )  
 ) ss.  
County of Benton )

Before me this 24<sup>th</sup> day of February, 2004, personally  
appeared the above-named individual, to me known to be the person who is described  
in and who executed the foregoing assignment instrument and acknowledged to me  
that he executed the same of his own free will for the purpose therein expressed.



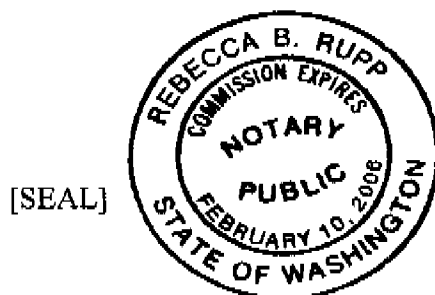
Janice K. Laybourn  
Notary Public for  
My commission expires: 5/25/05

\*\*\*\*\*  
Executed at Richland, Washington this 25  
day of February, 2004.

Glen C. Dunham  
Glen C. Dunham  
Assignor

STATE OF Washington )  
 ) ss.  
County of Benton )

Before me this 25 day of February, 2004, personally  
appeared the above-named individual, to me known to be the person who is described  
in and who executed the foregoing assignment instrument and acknowledged to me  
that he executed the same of his own free will for the purpose therein expressed.



Rebecca B. Rupp  
Notary Public for  
My commission expires:

[SEAL]

Executed at Richland, WA, this 2<sup>nd</sup>  
day of March, 2004.

Suresh Baskaran  
Suresh Baskaran  
Assignor

STATE OF Washington )  
 ) ss.  
County of Benton )

Before me this 2<sup>nd</sup> day of March, 2004, personally  
appeared the above-named individual, to me known to be the person who is described  
in and who executed the foregoing assignment instrument and acknowledged to me  
that he executed the same of his own free will for the purpose therein expressed.



Janice K. Laybourn  
Notary Public for  
My commission expires: 5/25/05

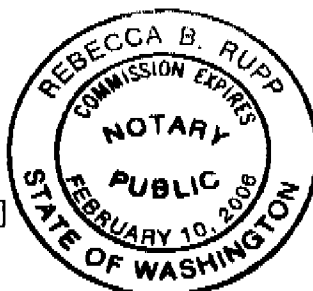
\*\*\*\*\*

Executed at Richland, Washington, this 23  
day of February, 2004.

Ralph E. Williford  
Ralph E. Williford  
Assignor

STATE OF Washington )  
 ) ss.  
County of Benton )

Before me this 24 day of February, 2004, personally  
appeared the above-named individual, to me known to be the person who is described  
in and who executed the foregoing assignment instrument and acknowledged to me  
that he executed the same of his own free will for the purpose therein expressed.



[SEAL]

Rebecca B. Rupp  
Notary Public for  
My commission expires:

PATENT

RECORDED: 04/23/2004

REEL: 014557 FRAME: 0519