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To the Honorable Commissioner of Patents

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and original documents or copy thereof.

1. Name of conveying party(ies):

Glen Clifton BARRIS and Carolyn Mary SHEPPARD

8-4-98

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Industrial Research Limited

Internal Address:

Street Address: Gracefield Road

Lower Hutt, New Zealand

City: /State: /ZIP:

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: April 24, 1997

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

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

A. Patent Application No.(s)
U.S. Serial No. 08/848,155 filed
April 29, 1997

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Breiner & Breiner

Internal Address:

Street Address: 115 North Henry Street

P.O. Box 19290

City: Alexandria State: VA ZIP: 22320-0290

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

02-3690

08/06/1998 DNGUYEN 00000162 023690 08040155

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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.

Mary J. Breiner

Name of Person Signing

Mary J. Breiner

Signature

August 4, 1998

Date

Total number of pages including cover sheet, attachments, and document: 3

Serial No. 08/848,155
Filed April 29, 1997

ASSIGNMENT

(for multiple inventors)

WHEREAS, Glen Clifton Barris & Carolyn Mary Sheppard, hereinafter referred to as Assignors, have made a new and useful invention in a ceramic material for which Assignors have made or will make application for Letters Patent of the United States; and

WHEREAS, Industrial Research Limited, hereinafter referred to as Assignee, a corporation of New Zealand having a principal place of business at Gracefield Road, Lower Hutt desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient consideration to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignors agree to execute all papers necessary in connection with any interference which may be declared or litigation concerning the application or continuation, division, reissue or reexamination thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

Assignors agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Assignors agree to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.


Assignors agree to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.


Assignors hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned have full

right to convey the interest herein assigned, and that the undersigned have not executed, and will not execute, any agreement to conflict herewith.

Assignors hereby grant the attorney of record the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, we have executed this Assignment at Lower Hutt this 24 day of April, 1997.


Printed: Glen Clifton BARRIS


Printed: Carolyn Mary SHEPPARD

Printed: _____

Printed: _____

WITNESS: 

MARTIN JOHN RYAN

WITNESS: 

GEORGEY VAUGHAN WHITE