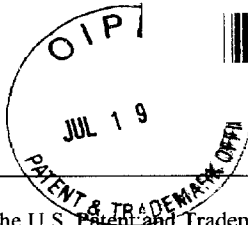


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S. DEPARTMENT OF COMMERCE  
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Attorney Docket No. 106719

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying party(ies):

- 1) Michael B. MACKLIN
- 2) Klaus-Alexander RIEDER

7-19-01

B. Additional name(s) of conveying party(ies) attached?

Yes  No

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

- 1) W.R. GRACE & CO.-CONN.  
1114 AVENUES OF THE AMERICAS  
NEW YORK, NEW YORK 10036

- 2) 62 WHITTEMORE AVENUE  
CAMBRIDGE, MASSACHUSETTS 02140

B. Additional name(s) & address(es) attached?

Yes  No

3. A. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

B. Execution Date: 1) 12/4/2000 and 2) 11/30/2000

4. A. If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

B. Patent Application No.(s) 09/615,595

C. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, VA 22320**

6. Total number of applications and patents involved: 1

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

B. Enclosed (Check No. 121087)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.*

Date: July 19, 2001

James A. Oliff, Registration No. 27,075  
William D. Titcomb, Registration No. 46,463

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

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**PATENT**  
**REEL: 011997 FRAME: 0813**

**PATENT ASSIGNMENT**

WHEREAS, we, **MICHAEL B. MACKLIN**, a citizen(s) of **SOUTH AFRICA**, residing at **9 Pierce Avenue, Westford, Massachusetts 01886, U.S.A.**, AND **KLAUS-ALEXANDER RIEDER**, a citizen(s) of **AUSTRIA**, formerly residing at **15 Boston Street, Apt. #2, Salem, Massachusetts 01970, U.S.A.**, now residing at **20 Lovett Street, Apt. #6, Beverly, Massachusetts 01915, U.S.A.**, have made an invention which invention is claimed and described in an application for Letters Patent of the United States of America entitled "**THREE DIMENSIONAL TWISTED FIBERS AND PROCESSES FOR MAKING SAME**", filed in the U. S. Patent and Trademark Office on **JULY 13, 2000** under Serial No. **09/615,595**, and;

WHEREAS, **W. R. GRACE & CO.-CONN.**, of **1114 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10036**, a corporation organized and existing under the laws of the **STATE OF CONNECTICUT** and having a place of business at **62 WHITTEMORE AVENUE, CAMBRIDGE, MASSACHUSETTS 02140** (hereinafter "**GRACE**"), is desirous of acquiring the entire right, title and interest in and to the invention and in and to any Letters Patent that may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned parties by these presents do sell, assign and transfer unto **GRACE**, its successors and assigns the full, exclusive and worldwide right to the said invention including the United States of America, and the entire right, title and interest in, to and under any Letters Patent which may be granted on said invention, or any parts thereof, or on any continuation, division or reissue thereof in the United States of America, in the territorial possessions of the United States of America and in any country foreign to the United States of America, the same to be held and enjoyed by **GRACE**, its successors and assigns as fully and entirely as the same would have been held by us, had this assignment not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to **GRACE** as the assignee of our entire right, title and interest in, to and under the same, and we hereby further authorize **GRACE** to apply for Letters Patent in our names or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And we, do hereby agree for ourselves and for our heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **GRACE**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full

enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.

IN WITNESS WHEREOF, the undersigned inventors sets their hands and affix his/her seal on the 30<sup>th</sup> day of April, 2001 below indicated.

[Signature]  
Michael B. Macklin

04/30/01  
Date

Commonwealth  
State of Massachusetts )  
County of Middlesex ) ss.

On the 30<sup>th</sup> day of April, 2001, before me personally appeared Michael Macklin known to me to be the person described in and the person who executed the foregoing instrument of assignment and he/she did acknowledge the same to be his/her free act and deed.

[Signature]  
NOTARY PUBLIC  
My commission expires 10/19/01

[Signature]  
Klaus-Alexander Rieder

04/19/2001  
Date

Commonwealth  
State of Massachusetts )  
County of Middlesex ) ss.

On the 19<sup>th</sup> day of April, 2001, before me personally appeared K. Alex Rieder known to me to be the person described in and the person who executed the foregoing instrument of assignment and he/she did acknowledge the same to be his/her free act and deed.

[Signature]  
NOTARY PUBLIC  
My commission expires 10/19/01

CKL/APPL/L3729.ASSIGN