

A/D 581-40

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10/593902

To Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 : Please record the attached original documents or copy thereof.

1. Name(s) of conveying party(ies):  
Takeuchi, Akira  
Kobayashi, Tatsuo

2. Name(s) and address(es) of receiving party(ies):  
Name: Kureha Corporation  
Address: 3-3-2, Nihonbashi-Hamacho  
Chuo-ku  
City: Tokyo 1038552  
State:  
Country: Japan

10-03-2006



103315812

Additional conveying party(ies) attached? ☐ Yes ☒ No Additional receiving party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_

Execution Date(s): September 1, 2006 and Augsut 24, 2006

4. Application number(s) or patent number(s): Additional numbers attached? ☐ Yes ☒ No

☒ A new patent application, executed on even date herewith

☐ Application No. , filed:

☐ Patent No. , filed:

10/593902

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

Name: **Reed Smith LLP**  
Attn: Mark R. Shanks  
Street Address: 3110 Fairview Park Drive  
Suite 1400  
Falls Church, VA 22042

6. Total number of applications and patents involved:  
1

7. Total Fee (37 C.F.R. § 3.41): \$40.00

- ☒ Enclosed  
☒ Authorized to be charged to deposit account:

8. Deposit Account No.: 50-0622  
(Attach duplicate copy of page if charging to 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.*

Mark R. Shanks, 33.781  
Typed Name, Reg. No.

Mark R Shanks  
Signature

9/22/06  
Date

09/28/2006 GFREY1 00000109 10593902

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

OMB No. 0651-0011 (ext. 4/94)

PATENT  
REEL: 018346 FRAME: 0030

**ASSIGNMENT**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned, Akira TAKEUCHI and Tatsuo KOBAYASHI, the undersigned, hereby sell(s) and assign(s) to Kureha Corporation (the Assignee) his/her entire right, title and interest

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world

in the invention(s) known as ISOTROPIC PITCH-BASED CARBON FIBER SPUN YARN, COMPOUND YARN AND FABRIC USING THE SAME, AND MANUFACTURING METHODS THEREOF for which application(s) for patent in the United States of America has (have) been executed by the undersigned (Application No. \_\_\_\_\_ filed on \_\_\_\_\_), in any and all applications thereon in any and all Letters Patent(s) therefor, and in any and all non-provisional applications, reissues, extensions, renewals, reexaminations, divisions, and continuations of such applications or Letters Patent(s) to the full end of the term or terms for which such Letters patent(s) issue, such entire right, title, and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the application(s) and any continuing, divisional, reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning the application(s) or any 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.

The undersigned hereby covenant(s) that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict therewith.

The undersigned hereby grant(s) Mark R. Shanks, Registration No. 33,781, Toni-Junell Herbert, Registration No. 34,348, and Chris Aniedobe, Registration No. 48,293, of REED SMITH, LLP, 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 recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: September 12, 2006 Signature of Inventor: AKIRA TAKEUCHI  
 Akira TAKEUCHI

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_  
 Tatsuo KOBAYASHI

Date: \_\_\_\_\_ Signature of Inventor: \_\_\_\_\_

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IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: \_\_\_\_\_

Signature of Inventor: \_\_\_\_\_  
 Akira TAKEUCHI

Date: 21 August 2006

Signature of Inventor: Tatsuo Kobayashi  
 Tatsuo KOBAYASHI

Date: \_\_\_\_\_

Signature of Inventor: \_\_\_\_\_