

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings		<b>RECORDATION FORM COVER SHEET</b> <b>PATENTS ONLY</b>		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies):  Brian R. D'Urso John T. Simpson  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>UT-Battelle, LLC</u>  Internal Address: <u>P.O. Box 2008</u>  Street Address: <u>One Union Valley Road</u>  City: <u>Oak Ridge</u> State: <u>TN</u> Zip: <u>37831-6258</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____  Execution Date: <u>07/26/2004</u>		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>10/900,248</u> B. Patent No.(s) _____  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Joseph A. Marasco</u> Internal Address: <u>UT-Battelle, LLC</u> <u>P.O. Box 2008</u>  Street Address: <u>One Union Valley Road</u>  City: <u>Oak Ridge</u> State: <u>TN</u> Zip: <u>37831-6258</u>		6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number:  <u>13-1958</u>			
<b>DO NOT USE THIS SPACE</b>					
9. Signature.  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <u>Joseph A. Marasco</u>            Name of Person Signing         </div> <div style="width: 30%; text-align: center;">             Signature         </div> <div style="width: 30%; text-align: right;"> <u>12/16/2004</u>            Date         </div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="width: 30%;"> <u>1417</u> </div> <div style="width: 30%; text-align: center;">           Total number of pages including cover sheet, attachments, and documents: <u>5</u> </div> <div style="width: 30%;"></div> </div>					

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

CH \$40.00 131958 10900248

Docket No. 1417

## ASSIGNMENT

WHEREAS, we the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in

Composite, Ordered Material Having Sharp Surface Features

(hereinafter referred to as "Subject Invention") for which an application for United States Letters Patent was executed by us on even date herewith, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at One Bethel Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6258, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in accordance with the terms of our employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE our entire right, title and interest in the Subject Invention to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the Subject Invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

Docket No. 1417

Full name of inventor: **Brian R. D'Urso**

Signature: *Brian R. D'Urso* Date: 7/26/2004

Residence: 728 Skyline Drive, Clinton, Tennessee 37716

Post Office Address: 728 Skyline Drive, Clinton, Tennessee 37716

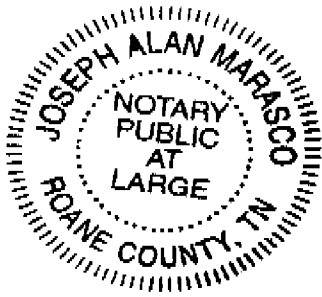
State of Tennessee )  
County of ROANE )

On this 26 day of July, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Brian R. D'Urso to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

*Joseph Alan Marasco*  
Notary Public

SEAL  
My Commission Expires:  
**My Commission Expires June 12, 2006.**



Docket No. 1417

Full name of inventor: **John T. Simpson**

Signature: John T. Simpson Date: 7/26/2004

Residence: 1224 Ridgeview Drive, Clinton, Tennessee 37716

Post Office Address: 1224 Ridgeview Drive, Clinton, Tennessee 37716

State of Tennessee )  
County of ROANE )

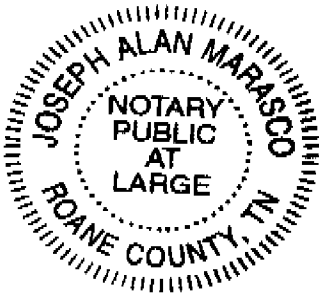
On this 26 day of July, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared John T. Simpson to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

[Signature]  
Notary Public

SEAL

My Commission Expires: **My Commission Expires June 12, 2008.**



***FACSIMILE***

**OFFICE OF GENERAL COUNSEL /INTELLECTUAL PROPERTY SECTION**  
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**REMARKS:** Our Ref. 1417.0 US Application Serial No. 10/900,248 Filed 7/27/2004  
Please find Recordation of Assignment documents attached. If you have any questions,  
please call me.  
Thank you, Karen Drew

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**RECORDED: 12/17/2004**

**PATENT**  
**REEL: 015473 FRAME: 0284**