

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Brian E Joseph	05/12/2005
Douglas J Merriman	05/12/2005
Robert Nolte	05/11/2005
Matthew M Rowe	05/11/2005

RECEIVING PARTY DATA

Name:	Touchstone Research Laboratory, Ltd.
Street Address:	R.D. 1, Box 100-B
Internal Address:	The Millennium Centre
City:	Triadelphia
State/Country:	WEST VIRGINIA
Postal Code:	26059

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11000521

CORRESPONDENCE DATA

Fax Number: (703)723-7732  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 703-201-6543  
Email: pdl@pdlane.com  
Correspondent Name: Philip D. Lane  
Address Line 1: P.O. Box 651295  
Address Line 4: Potomac Falls, VIRGINIA 20165-1295

NAME OF SUBMITTER:

Philip D Lane

Total Attachments: 2

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PATENT

REEL: 016167 FRAME: 0851

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## ASSIGNMENT

Whereas, Assignors have invented certain new and useful processes, machines, articles of manufacture, compositions of matter, and/or improvements thereof ("Invention") described in U.S. Patent Application No. 11/000,521 entitled

### METAL MATRIX COMPOSITE STRUCTURES

hereinafter ("Application").

Whereas, Assignors desire to convey all rights, title and interests in and to the Invention and Application, to Touchstone Research Laboratory, Ltd. ("Assignee"), with offices located at R.D. 1, Box 100-B, The Millennium Centre, Triadelphia, West Virginia 26059

Now, for valuable consideration by Assignee to Assignors, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignors hereby convey, assign, sell and transfer to Assignee all rights, title and interests in and to the Invention and Application, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto.

Assignors hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for the Invention to Assignee.

Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignors further covenant that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Inventions, Patents, Patent Applications, and any patents granted thereon, as may be known and accessible to Assignors, and Assignors will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Application, Patent, Invention, whether in the U.S. or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense.

IN WITNESS WHEREOF. Assignor has hereunto set hand and seal.

Assignors:

Name: Brian E. JOSEPH  
Signature: Brian E Joseph Date May 12, 2005  
Residence: 18 Lynwood Avenue, Wheeling, West Virginia 26003

Name: Douglas J. MERRIMAN  
Signature: Douglas Merriman Date 5/12/05  
Residence: 17 Oglebay Park Estates, Wheeling, West Virginia 26003

Name: Robert NOLTE  
Signature: Robert J. Nolte Date 5/11/05  
Residence: 27 Allendale Road, Wheeling, West Virginia 26003

Name: Matthew M. ROWE  
Signature: Matthew M. Rowe Date 05/11/05  
Residence: 3 Stonegate Drive, Wheeling, West Virginia 26003