

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Bruce Allan Cook</td><td>09/22/2004</td></tr><tr><td>Yun Tian</td><td>08/26/2004</td></tr><tr><td>Joel Lee Harringa</td><td>09/09/2004</td></tr><tr><td>Alan Paul Constant</td><td>08/26/2004</td></tr><tr><td>Alan Mark Russell</td><td>08/27/2004</td></tr><tr><td>Palaniappa A. Molian</td><td>08/26/2004</td></tr></tbody></table>	Name	Execution Date	Bruce Allan Cook	09/22/2004	Yun Tian	08/26/2004	Joel Lee Harringa	09/09/2004	Alan Paul Constant	08/26/2004	Alan Mark Russell	08/27/2004	Palaniappa A. Molian	08/26/2004	
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Alan Mark Russell	08/27/2004														
Palaniappa A. Molian	08/26/2004														
RECEIVING PARTY DATA															
Name:	Iowa State University Research Foundation, Inc.														
Street Address:	310 Lab of Mechanics														
City:	Ames														
State/Country:	IOWA														
Postal Code:	50011-2131														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10946051</td></tr></tbody></table>	Property Type	Number	Application Number:	10946051											
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Application Number:	10946051														
CORRESPONDENCE DATA															
Fax Number:	(515)288-1338														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	515-288-3667														
Email:	patatty@ipmvs.com														
Correspondent Name:	McKee, Voorhees & Sease, PLC														
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Address Line 2:	Suite 3200														
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NAME OF SUBMITTER:	Edmund J. Sease														

CH \$40.00 10946051

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PATENT
REEL: 015450 FRAME: 0717

Total Attachments: 5

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PATENT

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ASSIGNMENT

In consideration of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC., an Iowa corporation, having an address of 310 Lab of Mechanics, Ames, Iowa 50011-2131, its successors and assigns the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, Serial No. 10/946,051 filed in the United States Patent and Trademark Office on the 21ST day of September, 2004, entitled AN ULTRA-HARD, LOW FRICTION COATING BASED ON AlMgB_{14} FOR REDUCED WEAR OF MEMS AND OTHER TRIBOLOGICAL COMPONENTS AND SYSTEMS, and in said application and any and all other applications for United States Letters Patent, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent, applications, and in any reissue or extension thereof.

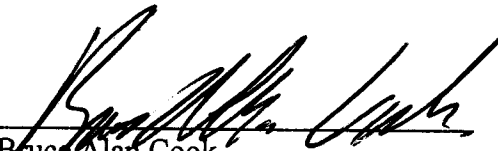
The undersigned hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC.

For said considerations the undersigned hereby agree, upon the request, and at the expense of said assignee, its successors and assigns, to execute any and all divisional continuation and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and for the said considerations the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent of the United States and vest all rights therein

hereby conveying in the said assignee, its successors and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

And for said considerations the undersigned hereby assign to said assignee, its successors and assigns, the entire right, title and interest in said invention or improvements for any and all foreign countries and agree upon the request of assignee, its successors and assigns to execute any and all documents that undersigned shall be requested to execute in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to vest title in said foreign applications and patents in assignee.

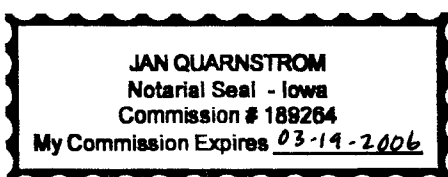
The attorneys of record are hereby authorized to insert the serial number and the filing date in the above blank spaces when received from the Patent Office.

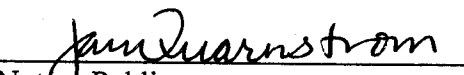

Bruce Alan Cook

STATE OF IOWA)
) ss.
COUNTY OF STORY)

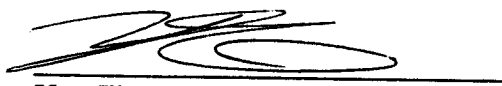
On this 22nd day of September, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Bruce Alan Cook, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

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




Notary Public

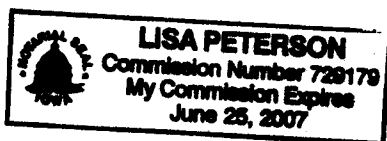
Commission Expires March 19, 2006

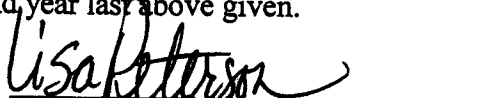

Yun Tian

STATE OF IOWA)
) ss.
COUNTY OF STORY)

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

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




Notary Public

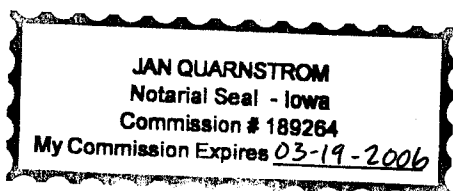
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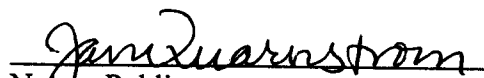

Joel Lee Harringa

STATE OF IOWA)
) ss.
COUNTY OF STORY)


On this 9th day of September, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Joel Lee Harringa, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

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




Notary Public

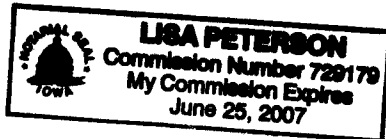
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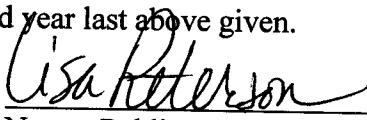

Alan Paul Constant

STATE OF IOWA)
) ss.
COUNTY OF STORY)

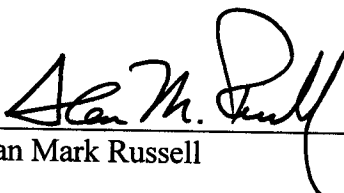
On this 26th day of August, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Alan Paul Constant, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary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

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




Notary Public

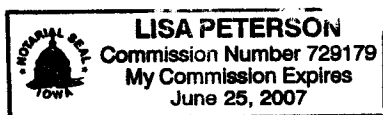
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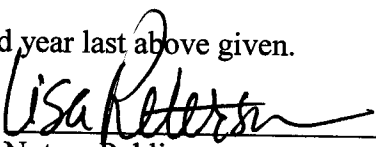

Alan Mark Russell

STATE OF IOWA)
) ss.
COUNTY OF STORY)

On this 27th day of August, 2004, before me, a Notary Public in and for the County and State aforesaid, appeared Alan Mark Russell, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

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




Notary Public

Commission Expires 6/25/07

Molian

Pallaniappa A. Molian

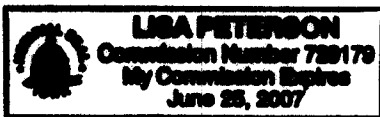
STATE OF IOWA)
) ss.
COUNTY OF STORY)

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

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

Lisa Peterson

Notary Public



Commission Expires 6/25/07