

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Zhigang Ban</td> <td>02/07/2012</td> </tr> <tr> <td>Yixiong Liu</td> <td>02/07/2012</td> </tr> <tr> <td>Mark S. Greenfield</td> <td>02/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Zhigang Ban	02/07/2012	Yixiong Liu	02/07/2012	Mark S. Greenfield	02/07/2012
Name	Execution Date								
Zhigang Ban	02/07/2012								
Yixiong Liu	02/07/2012								
Mark S. Greenfield	02/07/2012								
RECEIVING PARTY DATA									
Name:	Kennametal Inc.								
Street Address:	1600 Technology Way								
City:	Latrobe								
State/Country:	PENNSYLVANIA								
Postal Code:	15650								
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>13040641</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13040641				
Property Type	Number								
Application Number:	13040641								
CORRESPONDENCE DATA									
Fax Number:	(724)452-4414								
Phone:	724-452-4414								
Email:	tlizzi@ipandinternetlawnorth.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Thomas Lizzi								
Address Line 1:	P.O. Box 38								
Address Line 4:	Zelienople, PENNSYLVANIA 16063								
ATTORNEY DOCKET NUMBER:	K-2998								
NAME OF SUBMITTER:	Thomas Lizzi, Esq.								
Total Attachments: 3 source=K-2998_Corrected_Assignments#page1.tif source=K-2998_Corrected_Assignments#page2.tif source=K-2998_Corrected_Assignments#page3.tif									

CH \$40.00 13040641

ASSIGNMENT

In accordance with my/our obligations under an Employment Agreement or (as applicable) arising out of other agreements, and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

Zhigang Ban of **1451 S. Redhawk Drive, Perrysburg, OH 43551**
Yixiong Liu of **317 Marigold Drive, Greensburg, PA 15601**
Mark S. Greenfield of **119 Cheshire Drive, Greensburg, PA 15601**

hereby sell and assign to Kennametal Inc., a corporation of the Commonwealth of Pennsylvania, (hereinafter referred to as Assignee) having an address at 1600 Technology Way, Latrobe, Pennsylvania 15650-0231, USA, its successors and assigns my (our) entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled:

Coated Substrates and Methods of Making Same

executed concurrently herewith,

filed on March 4, 2011 having Serial Number 13/040,641

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

I/we, an inventor signing below, hereby authorize and request my attorneys associated with Customer Number 27877 to insert the application number and filing date, when known, into the assignment for this invention.

INVENTOR 1

Signature: Ban
Zhigang Ban

Date: 2/7/2012

Witnessed by: [Signature]
Signature
JIE WU
Printed Name of Witness

Date: 2/7/2012

Witnessed by: _____
Signature

Printed Name of Witness

Date: _____

INVENTOR 2

Signature: _____
Yixiong Liu

Date: _____

Witnessed by: _____
Signature

Printed Name of Witness

Date: _____

Witnessed by: _____
Signature

Printed Name of Witness

Date: _____

INVENTOR 3

Signature: _____
Mark S. Greenfield

Date: _____

Witnessed by: _____
Signature

Printed Name of Witness

Date: _____

Witnessed by: _____
Signature

Printed Name of Witness

Date: _____

INVENTOR 1

Signature: Zhigang Ban

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: *Yixiong Liu*
Yixiong Liu

Date: 2/7/2012

Witnessed by: *Richard J. Gubanich*
Signature

Date: 7. Feb. 2012

RICH GUBANICH
Printed Name of Witness

Witnessed by: *Jeff R. Williams*
Signature

Date: 2-7-12

JEFF WILLIAMS
Printed Name of Witness

INVENTOR 3

Signature: *Mark S. Greenfield*
Mark S. Greenfield

Date: 2/7/2012

Witnessed by: *Richard J. Gubanich*
Signature

Date: 7. Feb. 2012

RICH GUBANICH
Printed Name of Witness

Witnessed by: *Jeff R. Williams*
Signature

Date: 2-7-12

JEFF WILLIAMS
Printed Name of Witness