

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHENYU LIU	03/17/2014
PETER RUDOLF LEICHT	03/17/2014
RODRIGO ALEJANDRO COOPER	03/18/2014
YIXIONG LIU	03/18/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KENNAMETAL INC.
<b>Street Address:</b>	1600 TECHNOLOGY WAY
<b>City:</b>	LATROBE
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15650-0231
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14220959
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(724)539-5903
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<b>Email:</b>	k-corp.patents@kennametal.com
<b>Correspondent Name:</b>	KENNAMETAL INC. INTELLECTUAL PROPERTY DE
<b>Address Line 1:</b>	P.O. BOX 231
<b>Address Line 2:</b>	1600 TECHNOLOGY WAY
<b>Address Line 4:</b>	LATROBE, PENNSYLVANIA 15650
<b>ATTORNEY DOCKET NUMBER:</b>	K-4320USUS2
<b>NAME OF SUBMITTER:</b>	J. CLINTON WIMBISH
<b>SIGNATURE:</b>	/j. clinton wimbish/
<b>DATE SIGNED:</b>	03/20/2014
<b>Total Attachments: 3</b>	
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**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,

<b>Zhenyu Liu</b>	of	1501 Clearview Drive Greensburg, PA 15601 United States
<b>Peter Rudolf Leicht</b>	of	207 Rockledge Lane Latrobe, PA 15650 United States
<b>Rodrigo Alejandro Cooper</b>	of	204 N. Shenandoah Drive Latrobe, PA 15650 United States
<b>Mark S. Greenfield</b>	of	119 Cheshire Drive Greensburg, PA 15601 United States
<b>Yixiong Liu</b>	of	317 Marigold Drive Greensburg, PA 15601 United States

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:

**COATINGS FOR CUTTING TOOLS**

☒ executed concurrently herewith,

☐ filed on \_\_\_\_\_ having Serial Number \_\_\_\_\_

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: Zhenyu Liu  
Zhenyu Liu

Date: 3/17/2014

Witnessed by: Ronald m Penick  
Signature

Date: 3/17/14

Ronald m Penick  
Printed Name of Witness

Witnessed by: Mark J. Rowe  
Signature

Date: 3/17/14

Mark J. Rowe  
Printed Name of Witness

INVENTOR 2

Signature: Peter Rudolf Leicht  
Peter Rudolf Leicht

Date: 3/17/2014

Witnessed by: Aharon Luspektor  
Signature

Date: 3/17/2014

Aharon Luspektor  
Printed Name of Witness

Witnessed by: Dyananee Kemelevit  
Signature


Date: 3/17/2014

Dyananee Kemelevit  
Printed Name of Witness

INVENTOR 3

Signature:   
Rodrigo Alejandro Cooper

Date: 3/18/14

Witnessed by:   
Signature

Date: 03/18/2014

Joel T. Dawson  
Printed Name of Witness

Witnessed by:   
Signature

Date: 3/18/14

Robert G. Davis  
Printed Name of Witness

INVENTOR 4

Signature: \_\_\_\_\_  
Mark S. Greenfield

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

Witnessed by: \_\_\_\_\_  
Signature

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

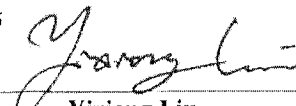
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

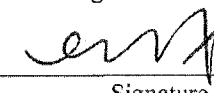
Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

INVENTOR 5

Signature:   
Yixiong Liu

Date: 3/18/2014

Witnessed by:   
Signature

Date: 3/18/2014

Dingjun Zheng  
Printed Name of Witness

Witnessed by:   
Signature

Date: 03/18/2014

Joel T. Dawson  
Printed Name of Witness