

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>Vineet Kumar</td> <td>08/15/2013</td> </tr> <tr> <td>Ronald Penich</td> <td>08/15/2013</td> </tr> <tr> <td>Peter Leicht</td> <td>08/15/2013</td> </tr> <tr> <td>Yixiong Liu</td> <td>08/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Vineet Kumar	08/15/2013	Ronald Penich	08/15/2013	Peter Leicht	08/15/2013	Yixiong Liu	08/15/2013
Name	Execution Date										
Vineet Kumar	08/15/2013										
Ronald Penich	08/15/2013										
Peter Leicht	08/15/2013										
Yixiong Liu	08/15/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Kennametal Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1600 Technology Way</td> </tr> <tr> <td>City:</td> <td>Latrobe</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>15650-0231</td> </tr> </table>		Name:	Kennametal Inc.	Street Address:	1600 Technology Way	City:	Latrobe	State/Country:	PENNSYLVANIA	Postal Code:	15650-0231
Name:	Kennametal Inc.										
Street Address:	1600 Technology Way										
City:	Latrobe										
State/Country:	PENNSYLVANIA										
Postal Code:	15650-0231										
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>13969330</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13969330						
Property Type	Number										
Application Number:	13969330										
CORRESPONDENCE DATA											
<p>Fax Number: 7245395903 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 724-539-5485 Email: k-corp.patents@kennametal.com Correspondent Name: KENNAMETAL INC. Intellectual Property De Address Line 1: P.O. BOX 231 Address Line 2: 1600 TECHNOLOGY WAY Address Line 4: LATROBE, PENNSYLVANIA 15650</p>											
ATTORNEY DOCKET NUMBER:	5012917.038US1										
NAME OF SUBMITTER:	J. Clinton Wimbish										
Signature:	/j clinton wimbish/										

PATENT

Date:

08/16/2013

Total Attachments: 3

source=K4313Assignment#page1.tif

source=K4313Assignment#page2.tif

source=K4313Assignment#page3.tif

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,

Vineet Kumar	of	135 Laurel Lane Latrobe, PA 15650 United States
Ronald Penich	of	329 Center Avenue Greensburg, PA 15601 United States
Peter Leicht	of	207 Rockledge Lane Latrobe, PA 15650 United States
Yixiong Liu	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:

LOW STRESS HARD COATINGS AND APPLICATIONS THEREOF

☒ 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: Vineet Kumar
Vineet Kumar
Witnessed by: Joel T. Dawson
Signature
Joel T. Dawson
Printed Name of Witness

Date: 08/15/13

Date: 08/15/2013

Witnessed by: Karen A. Craig
Signature
KAREN A. CRAIG
Printed Name of Witness

Date: Aug 15, 2013

INVENTOR 2

Signature: Ronald Penich
Ronald Penich
Witnessed by: Zhenyu Liu
Signature
Zhenyu Liu
Printed Name of Witness

Date: 8/15/13

Date: 8/15/13

Witnessed by: Piyamane Komolmit
Signature
Piyamane Komolmit
Printed Name of Witness

Date: 8/15/2013

INVENTOR 3

Signature: Peter Leicht
Peter Leicht
Witnessed by: Jack Zheng
Signature
Jack Zheng
Printed Name of Witness

Date: 8/15/2013

Date: 8/15/2013

Witnessed by: Rodrigo Cooper
Signature
RODRIGO COOPER
Printed Name of Witness

Date: 8/15/2013

DOCKET NUMBER: K-4313

INVENTOR 4

Signature: *Yixiong Liu*
Yixiong Liu

Date: 8/15/2013

Witnessed by: *[Signature]*
Signature

Date: 8/15/2013

RODRIGO COOPER
Printed Name of Witness

Witnessed by: *Kalissa L Andre*
Signature
Kalissa L Andre
Printed Name of Witness

Date: 8/15/2013