

## 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>
LUKE A. WEBER	05/18/2015
ERIC P. HELSEL	05/18/2015
DAVID S. ROSE	05/18/2015
JEREMIAH L. JONSRUD	05/17/2015
<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
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14716994
<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
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<b>Address Line 4:</b>	LATROBE, PENNSYLVANIA 15650
<b>ATTORNEY DOCKET NUMBER:</b>	K-6005USUS1
<b>NAME OF SUBMITTER:</b>	STEPHEN T. BELSHEIM
<b>SIGNATURE:</b>	/Stephen T. Belsheim/
<b>DATE SIGNED:</b>	05/20/2015
<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,

Luke A. Weber	of	123 E. Pitt St. Apt. 202, Bedford, PA 15522 US
Eric P. Hesel	of	107 R Lane, New Enterprise, PA 16664 US
David S. Rose	of	414 10 <sup>th</sup> Street, Windber, PA 15963 US
Jeremiah L. Jonsrud	of	16227 Bull Run Rd., Saint Paul, VA 24283 US

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:

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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:   
Luke A. Weber

Date: 5-18-15

Witnessed by:   
Signature

Date: 5-18-15


DAVID S ROSE  
Printed Name of Witness

Witnessed by:   
Signature

Date: 18 MAY 15

DUANE E. CARSON, JR.  
Printed Name of Witness

INVENTOR 2

Signature:   
Eric J. Hesel

Date: 5-18-15

Witnessed by:   
Signature

Date: 5-18-15

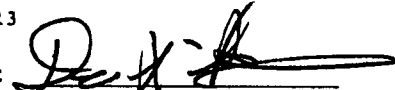
Luke Weber  
Printed Name of Witness

Witnessed by:   
Signature

Date: 5-18-15

DAVID S ROSE  
Printed Name of Witness

INVENTOR 3

Signature:   
David S. Rose

Date: 5-18-15

Witnessed by:   
Signature

Date: 5-18-15

Luke Weber  
Printed Name of Witness

Witnessed by:   
Signature

Date: 18 MAY 15

DUANE E. CARSON, JR.  
Printed Name of Witness

DOCKET NUMBER: K-6005USUS1

INVENTOR 4

Signature *Jeremiah L. Jonsrud*  
Jeremiah L. Jonsrud

Date: 5-17-15

Witnessed by: *Enna Jonsrud*  
Signature

Date: 5-17-15

Enna Jonsrud  
Printed Name of Witness

Witnessed by: *Sara Meredith*  
Signature

Date: 5/17/15

Sara Meredith  
Printed Name of Witness