PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2570116

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LEWIS RAY MORRISON	10/08/2013
RAVISHANKAR IYER	10/08/2013

RECEIVING PARTY DATA

Name:	KENNAMETAL INC.
Street Address:	1600 TECHNOLOGY WAY
City:	LATROBE
State/Country:	PENNSYLVANIA
Postal Code:	15650

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14048676	

CORRESPONDENCE DATA

Fax Number:(724)539-5903Phone:724-539-5485

Email: k-corp.patents@kennametal.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

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

ATTORNEY DOCKET NUMBER:	K-4325USUS1
NAME OF SUBMITTER:	PETER J. RASHID
Signature:	/Peter J. Rashid/
Date:	10/08/2013

502524912 REEL: 031365 FRAME: 0945

OP \$40.00 14048676

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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PATENT REEL: 031365 FRAME: 0946

DOCKET NUMBER: K-4325USUS1

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,

LEWIS RAY MORRISON	of	5302 Shady Lane
		Latrobe, Pennsylvania 15650
RAVISHANKAR IYER	of	11821 Beacon Drive
		North Huntingdon, Pennsylvania 15642

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, 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.

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INVENTOR I	
Signature: Lucy Jos Mongan	Date: 10-8-20/3
Lewis Ray Morrison	
Witnessed by: And I have be Signature	Date: 10/8/13
RONALD L DUDZINSKY	
Printed Name of Witness	
	يسر عج ياقي
Witnessed by: Mika 14 Marain Signature	Date: 10/8/13
Michael G. Morrison	
Printed Name of Witness	
INVENTOR 2 N	
Signature: JU/SI	Date: 10/3/2013
Ravishánkar Lyer	}
Witnessed by: 3. 3	Date: 10 -8-2013
Signature	
JOE SLUSARCYK	
Printed Name of Witness	1-1
Witnessed by: June June Carlles	Date: 10/8/2013
Signature (2)	, ,
KEUN M. GOMBLE	
Printed Name of Witness	