PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROGER M. STARK	05/18/2018
CARRIE BARTKOWIAK	01/29/2018
JOHN BROSNAHAN	01/29/2018
MICHAEL KELLY	01/27/2018

RECEIVING PARTY DATA

Name:	KENNAMETAL INC.
Street Address:	1600 TECHNOLOGY WAY
City:	LATROBE
State/Country:	PENNSYLVANIA
Postal Code:	15650-0231

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16050909

CORRESPONDENCE DATA

Fax Number: (724)539-5903

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 724-539-5485

Email: k-corp.patents@kennametal.com

Correspondent Name: KENNAMETAL INC.

Address Line 1: P.O. BOX 231

Address Line 2: 1600 TECHNOLOGY WAY

Address Line 4: LATROBE, PENNSYLVANIA 15650

ATTORNEY DOCKET NUMBER:	P17-06296-US-CIP
NAME OF SUBMITTER:	STEPHANIE WILLIAMS
SIGNATURE:	/Stephanie Williams/
DATE SIGNED:	05/20/2020

Total Attachments: 9

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PATENT 506068551 REEL: 052713 FRAME: 0051



PATENT REEL: 052713 FRAME: 0052

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,

Roger M. STARK

of 406 Valleyview Drive

Jefferson Hills, PA 15025

US

Carrie BARTKOWIAK

of 1629 Moonrise Ct.

Traverse City, MI 49686

US

John BROSNAHAN

of 400 Magnus Lane

North Huntingdon, PA 15642

US

Michael KELLY

of 1256 N. Fulton St.

Anaheim, CA 92801

US

hereby 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 patent currently entitled:

VALVE SEATS AND VALVE ASSEMBLIES FOR FLUID END APPLICATIONS

	executed concurrently herewith and filed in,
\boxtimes	filed on January 19, 2018 having Serial Number 15/875,758, filed in the United States.

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 the above identified 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.

PATENT REEL: 052713 FRAME: 0053 I/we, an inventor signing below, hereby authorize and request the Assignee's U.S. attorneys associated with U.S. Patent and Trademark Office Customer Number 27877 to insert the application number and filing date, when known, into the assignment for this invention.

INVENTOR I	1 L		
Signature:	ph/h	Date: <u>5-/6-/8</u>	
	Roger NY. STARK		
Witnessed by: 3	WHE & BUL	Date: <u>5-18-18</u>	******
	Signature		
	Matthew & Bedsole		
/X	Printed Name of Witness		
Witnested by:	A Clinature	Date: 05 18 16	******
Million Marie	4110000000	* !	
	Printed Name of Witness		
INVENTOR 2			
Signature:		Date:	
~ (E. ((1) (1) (1) (1)	Carrie BARTKOWIAK	DEC.	disecc
Witnessed by:		Date:	
•	Signature		******
	55 2 2 3 C C XXV		
	Printed Name of Witness		
Witnessed by:		Date:	
	Signature		
	Printed Name of Witness		

INVENTORS			
Signature:		Date:	
	John BROSNAHAN		
Witnessed by:		Date:	
·	Signature		
	7) / 137		
	Printed Name of Witness		
Witnessed by:	Signature	Date:	
	Signature		
	Printed Name of Witness		
	:		
INVENTOR 4			
Sionatura		Pate	
0.80mm.	Michael KELLY	Date:	
Witnessed by:	<u> </u>	Date:	
·	Signature		
	N. C. XXX 27274		
	Printed Name of Witness		
Witnessed by:		Date:	
	Signature		
	Printed Name of Witness		

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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,

406 Valleyview Drive Roger M. STARK of Jefferson Hills, PA 15025 of 1629 Moonrise Ct. Carrie BARTKOWIAK Traverse City, MI 49686 US 400 Magnus Lane of John BROSNAHAN North Huntingdon, PA 15642 US of 1256 N. Fulton St. Michael KELLY -Anaheim, CA-92801-US

hereby 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 patent currently entitled:

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INVENTOR I			
Sionature:		Date:	and the second section of the second section second section section second section section section section sec
	Roger M. STARK		
Witnessed by:	Signature	Date:	
	Signature		
	Printed Name of Witness		
Witnessed by:		Date:	anana ana ara-ara-ara-ara-ara-ara-ara-ara-ara-ar
(3.5256,000,000,000,000,000,000,000,000,000,0	Signature		
	Printed Name of Witness		
INVENTOR 3		1/20/10	
Signature:	MML DUMMINI CarpignaRTKOWIAK	Date:	***************************************
Witnessed by:	1 - 1 - 1 - 1 - 1 - 1	Date:1/29/18	
* .	Carry Hachberry		
	Printed Name of Witness-	1. 1.	
Witnessed by	: Baneto Keeth	Date: 1/29/18	
	/ Signature		
	Renate Heith		
	Printed Name of Witness		

DOCKET NO. P17-06296-US-NP

INVENTOR 3	111		
Signature:	John BROSNAHAN	Date:	1/29/18 1/29/18
Witnessed by:	Mill 7. Sport	Date:	1/29/18
Witnessed by:	Printed Name of Witness Aignature		1/29/18
	JACK A. TAYLO Printed Name of Witness	Z	
200 100 100 A			
INVENTOR 4			
Signature:	Michael KELLY	Date:	
		Date:	
	Signature		
	Printed Name of Witness		
Witnessed by:		Date:	***************************************
•	Signature		
	Printed Name of Witness		

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Sionature:		Date:	
	Roger M. STARK		
Witnessed by:		Date:	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Signature		
€w²			
	Printed Name of Witness	•	
Witnessed by:	Signature	Date:	~~~~~~~ <u>~~</u>
	Signature		
	Printed Name of Witness		
INVENTOR 2			
Signature:	Carrie BARTKOWIAK	Date:	
	Carrie BAKTKOWIAK		
Witnessed by:	Signature	Date:	
	Signature		
Witnessed by:	Printed Name of Witness		
		Date:	
	Signature		
	Printed Name of Witness		

DOCKET NO. P17-06296-US-NP

INVENTOR 3			
Signature:	John BROSNAHAN	Date:	
_	John BROSNAHAN		
Witnessed by:	Signature	Date:	
	Signature	w	
	N. L. ANT PYT2		
	Printed Name of Witness		
Witnessed by:	Signature	Date:	
	Signature		
	Printed Name of Witness		
INVENTOR 4		».	y.
III VENTI OIC T	Michael KELLY	Data: 1/27/	2018
Signature:	Michael KELLY	Date	1
Witnessed by:	Chill Ging	Date: <u>//27/</u>	018
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3	Cherish Cassidy		0
	Printed Name of Witness	,	
Witnessed by:	6/Cells	Date:	7-18
	Signature		
	Deinted Name of Witness		

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