

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| 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>MICHAEL R MCCORMICK</td> <td>02/18/2014</td> </tr> <tr> <td>RUY FROTA DE SOUZA JR</td> <td>02/18/2014</td> </tr> </tbody> </table> | | Name | Execution Date | MICHAEL R MCCORMICK | 02/18/2014 | RUY FROTA DE SOUZA JR | 02/18/2014 | | | | |
| Name | Execution Date | | | | | | | | | | |
| MICHAEL R MCCORMICK | 02/18/2014 | | | | | | | | | | |
| RUY FROTA DE SOUZA JR | 02/18/2014 | | | | | | | | | | |
| 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</td> </tr> </table> | | Name: | KENNAMETAL INC. | Street Address: | 1600 TECHNOLOGY WAY | City: | LATROBE | State/Country: | PENNSYLVANIA | Postal Code: | 15650 |
| Name: | KENNAMETAL INC. | | | | | | | | | | |
| Street Address: | 1600 TECHNOLOGY WAY | | | | | | | | | | |
| City: | LATROBE | | | | | | | | | | |
| State/Country: | PENNSYLVANIA | | | | | | | | | | |
| Postal Code: | 15650 | | | | | | | | | | |
| 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>14182855</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14182855 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 14182855 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: (724)539-5903 Phone: 724-539-5485 Email: k-corp.patents@kennametal.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> 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: | K-4352USUS1 | | | | | | | | | | |
| NAME OF SUBMITTER: | STEPHEN T. BELSHEIM | | | | | | | | | | |
| Signature: | /Stephen T. Belsheim/ | | | | | | | | | | |
| Date: | 02/18/2014 | | | | | | | | | | |
| Total Attachments: 2 source=K-4352USUS1ASSIGNMENT#page1.tif source=K-4352USUS1ASSIGNMENT#page2.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,
Michael R. McCormick of **10 Moreland Ave. Greensburg, PA 15601 US**
Ruy Frota de Souza Filho of **639 Rose Garden Terrace, Latrobe, PA 15650**
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:

CYLINDRICAL GRINDING PROCESS AND AS-GROUND PART RESULTING FROM SUCH PROCESS

☒ 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.

DOCKET NUMBER: K-4352USUS1

INVENTOR 1

Signature:

Michael R. McCormick
Michael R. McCormick

Date:

2-18-14

Witnessed by:

Jeanne M. McCullough
Signature

Date:

2-18-14

JEANNE M. McCULLOUGH
Printed Name of Witness

Witnessed by:

Paul A. Brown
Signature

Date:

2-18-14

Paul A. Brown
Printed Name of Witness

INVENTOR 2

Signature:

Ruy Frota de Souza Filho
Ruy Frota de Souza Filho

Date:

2-18-14

Witnessed by:

Alan Bookheimer
Signature

Date:

2-18-14

Alan Bookheimer
Printed Name of Witness

Witnessed by:

William Long
Signature

Date:

2/18/14

William Long
Printed Name of Witness